SUB HEAD : 1.0 CARRIAGE OF MATERIALS Data Sheet No 1 for Analysis of Rates

By Mechanical Transport including loading, unloading and stacking:

Code	Material Name	Unit		Rate
0145	Hire Charges of truck [without POL]	Day	₹	2,000.00
0203	Beldar	Day	₹	310.00
0212	Coolie	Day	₹	310.00
0224	Mate	Day	₹	310.00
01001	Diesel	Litre	₹	68.75
01002	Mobil Oil	Litre	₹	315.00

1.1

Distance/L ead in km	Average speed	Nos of Trips in 8 Hours shift N=8/ [(2d/S)+1]	Nos of km covered in 8 hrs. shift (2Nd+6)	Diesel consumed @ 5 km/litre	Cost of Diesel @` 54.27 per Litre	Mobil oil consumed @ 140 km/litre	Cost of Mobil oil @`250 per Litre	Cost of loading, unloading & stacking 6 nos. Beldars for 8 hours @ `300.00 per day	Hire charges of truck @`1750.00 per day	Total Cost=6+8+9 +10	Cost per Trip '= col. 11/col. 3	Increase in cost per km over previous km	Average cost per additional km after first 5,10 and 20 km
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1 km	16.00 kmh ⁻¹	7.11 nos.	20.22 km	4.04 I	₹ 277.75	0.144 I	₹ 45.36	₹ 1,860.00	₹ 2,000.00	₹ 4,183.11	₹ 588.34		
2 km	17.00 kmh ⁻¹	6.48 nos.	31.92 km	6.38 I	₹ 438.63	0.228 I	₹ 71.82	₹ 1,860.00	₹ 2,000.00	₹ 4,370.45	₹ 674.45		
3 km	17.50 kmh ⁻¹	5.96 nos.	41.76 km	8.35 I	₹ 574.06	0.298 I	₹ 93.87	₹ 1,860.00	₹ 2,000.00	₹ 4,527.93	₹ 759.72		
4 km	18.00 kmh ⁻¹	5.54 nos.	50.32 km	10.06 I	₹ 691.63	0.359 I	₹ 113.09	₹ 1,860.00	₹ 2,000.00	₹ 4,664.72	₹ 842.01		
5 km	18.50 kmh ⁻¹	5.19 nos.	57.90 km	11.58 I	₹ 796.13	0.414 I	₹ 130.41	₹ 1,860.00	₹ 2,000.00	₹ 4,786.54	₹ 922.26		
6 km	19.00 kmh ⁻¹	4.90 nos.	64.80 km	12.96 I	₹ 891.00	0.463 I	₹ 145.85	₹ 1,860.00	₹ 2,000.00	₹ 4,896.85	₹ 999.36	₹ 77.10	
7 km	19.50 kmh ⁻¹	4.66 nos.	71.24 km	14.25 I	₹ 979.69	0.509 I	₹ 160.34	₹ 1,860.00	₹ 2,000.00	₹ 5,000.03	₹ 1,072.97	₹ 73.61	
8 km	20.00 kmh ⁻¹	4.44 nos.	77.04 km	15.41 I	₹ 1,059.44	0.550 I	₹ 173.25	₹ 1,860.00	₹ 2,000.00	₹ 5,092.69	₹ 1,147.00	₹ 74.03	₹ 72.53
9 km	20.50 kmh ⁻¹	4.26 nos.	82.68 km	16.54 I	₹ 1,137.13	0.591 I	₹ 186.17	₹ 1,860.00	₹ 2,000.00	₹ 5,183.30	₹ 1,216.74	₹ 69.74	
10 km	21.00 kmh ⁻¹	4.10 nos.	88.00 km	17.60 I	₹ 1,210.00	0.629 I	₹ 198.14	₹ 1,860.00	₹ 2,000.00	₹ 5,268.14	₹ 1,284.91	₹ 68.17	
11 km	21.50 kmh ⁻¹	3.95 nos.	92.90 km	18.58 I	₹ 1,277.38	0.664 I	₹ 209.16	₹ 1,860.00	₹ 2,000.00	₹ 5,346.54	₹ 1,353.55	₹ 68.64	
12 km	22.00 kmh ⁻¹	3.83 nos.	97.92 km	19.58 I	₹ 1,346.13	0.699 I	₹ 220.19	₹ 1,860.00	₹ 2,000.00	₹ 5,426.32	₹ 1,416.79	₹ 63.24	
13 km	22.50 kmh ⁻¹	3.71 nos.	102.46 km	20.49 I	₹ 1,408.69	0.732 I	₹ 230.58	₹ 1,860.00	₹ 2,000.00	₹ 5,499.27	₹ 1,482.28	₹ 65.49	
14 km	23.00 kmh ⁻¹	3.61 nos.	107.08 km	21.42 I	₹ 1,472.63	0.765 I	₹ 240.98	₹ 1,860.00	₹ 2,000.00	₹ 5,573.61	₹ 1,543.94	₹ 61.66	
15 km	23.50 kmh ⁻¹	3.51 nos.	111.30 km	22.26 I	₹ 1,530.38	0.795 I	₹ 250.43	₹ 1,860.00	₹ 2,000.00	₹ 5,640.81	₹ 1,607.07	₹ 63.13	₹ 61.10
16 km	24.00 kmh ⁻¹	3.43 nos.	115.76 km	23.15 I	₹ 1,591.56	0.827 I	₹ 260.51	₹ 1,860.00	₹ 2,000.00	₹ 5,712.07	₹ 1,665.33	₹ 58.26	01.10
17 km	24.50 kmh ⁻¹	3.35 nos.	119.90 km	23.98 I	₹ 1,648.63	0.856 I	₹ 269.64	₹ 1,860.00	₹ 2,000.00	₹ 5,778.27	₹ 1,724.86	₹ 59.53	
18 km	25.00 kmh ⁻¹	3.28 nos.	124.08 km	24.82 I	₹ 1,706.38	0.886 I	₹ 279.09	₹ 1,860.00	₹ 2,000.00	₹ 5,845.47	₹ 1,782.16	₹ 57.30	
19 km	25.50 kmh ⁻¹	3.21 nos.	127.98 km	25.60 I	₹ 1,760.00	0.914 I	₹ 287.91	₹ 1,860.00	₹ 2,000.00	₹ 5,907.91	₹ 1,840.47	₹ 58.31	
20 km	26.00 kmh ⁻¹	3.15 nos.	132.00 km	26.40 I	₹ 1,815.00	0.943 I	₹ 297.05	₹ 1,860.00	₹ 2,000.00	₹ 5,972.05	₹ 1,895.89	₹ 55.42	

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Distance/L ead in km	Average speed	Nos of Trips in 8 Hours shift N=8/ [(2d/S)+1]	Nos of km covered in 8 hrs. shift (2Nd+6)	Diesel consumed @ 5 km/litre	Cost of Diesel @ ` 54.27 per Litre	Mobil oil consumed @ 140 km/litre	Cost of Mobil oil @`250 per Litre	Cost of loading, unloading & stacking 6 nos. Beldars for 8 hours @ `300.00 per day	Hire charges of truck @`1750.00 per day	Total Cost=6+8+9 +10	Cost per Trip '= col. 11/col. 3	Increase in cost per km over previous km	Average cost per additional km after first 5,10 and 20 km
1	2	3	4	5	6	7	8	9	10	11	12	13	14
21 km	26.50 kmh ⁻¹	3.09 nos.	135.78 km	27.16 l	₹ 1,867.25	0.970 I	₹ 305.55	₹ 1,860.00	₹ 2,000.00	₹ 6,032.80	₹ 1,952.36	₹ 56.47	
22 km	27.00 kmh ⁻¹	3.04 nos.	139.76 km	27.95 I	₹ 1,921.56	0.998 I	₹ 314.37	₹ 1,860.00	₹ 2,000.00	₹ 6,095.93	₹ 2,005.24	₹ 52.88]
23 km	27.50 kmh ⁻¹	2.99 nos.	143.54 km	28.71 I	₹ 1,973.81	1.025 I	₹ 322.88	₹ 1,860.00	₹ 2,000.00	₹ 6,156.69	₹ 2,059.09	₹ 53.85]
24 km	28.00 kmh ⁻¹	2.95 nos.	147.60 km	29.52 I	₹ 2,029.50	1.054 I	₹ 332.01	₹ 1,860.00	₹ 2,000.00	₹ 6,221.51	₹ 2,108.99	₹ 49.90]
25 km	28.50 kmh ⁻¹	2.90 nos.	151.00 km	30.20 I	₹ 2,076.25	1.079 I	₹ 339.89	₹ 1,860.00	₹ 2,000.00	₹ 6,276.14	₹ 2,164.19	₹ 55.20	₹ 51.32
26 km	29.00 kmh ⁻¹	2.86 nos.	154.72 km	30.94 I	₹ 2,127.13	1.105 I	₹ 348.08	₹ 1,860.00	₹ 2,000.00	₹ 6,335.21	₹ 2,215.11	₹ 50.92	\$ 51.32
27 km	29.50 kmh ⁻¹	2.83 nos.	158.82 km	31.76 I	₹ 2,183.50	1.134 I	₹ 357.21	₹ 1,860.00	₹ 2,000.00	₹ 6,400.71	₹ 2,261.73	₹ 46.62]
28 km	30.00 kmh ⁻¹	2.79 nos.	162.24 km	32.45 I	₹ 2,230.94	1.159 I	₹ 365.09	₹ 1,860.00	₹ 2,000.00	₹ 6,456.03	₹ 2,313.99	₹ 52.26]
29 km	30.50 kmh ⁻¹	2.76 nos.	166.08 km	33.22 I	₹ 2,283.88	1.186 I	₹ 373.59	₹ 1,860.00	₹ 2,000.00	₹ 6,517.47	₹ 2,361.40	₹ 47.41	
30 km	31.00 kmh ⁻¹	2.73 nos.	169.80 km	33.96 I	₹ 2,334.75	1.213 I	₹ 382.10	₹ 1,860.00	₹ 2,000.00	₹ 6,576.85	₹ 2,409.10	₹ 47.70	

Notes

- 1. Number of trips in working day of 8 hours N= 8 /[(2d /s+1)] where d= Distance/Lead in km., S= Average speed in kmh⁻¹, 1 hour is allowed for loading /unloading.
- 2. Consumption of diesel taken at 5 km per litre
- 3. Consumption of mobile oil taken at 140 km per litre.
- 4. In column 4 of 'km covered in 8 hours' an allowance of 6.0 km has been made for movement of truck from parking place to duty & back.
- 5 (i) Cost of disel @ (01001) per litre
- (ii) Cost of moble oil @ (01002) per litre
- (iii) Hire charges of truck @ (0116) for a day of 8 hours.

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SUB HEAD: 1.0

CARRIAGE OF MATERIALS

1.0 Carriage of Materials

1.1 By Mechanical Transport

			Net Qty						Cos	t pei	r Trip per	unit	t				yond 5		ond 10	Bev	ond 20	
CLNI	Maladala	Carrying capacity of	Payable of	Unit of	C.P. & Over-		(Cost	per Trip	as p	er Col. 12	2 of I	Data shee	t		km	upto 10 km		n upto 20km	k	m per dl. Km	D
SI.No	Materials	Truck per	after deduction for	rates	heads				ľ	let (⊇ty Payab	le				р	er km	_ '	er km			Remarks
		Trip	voids		@15%		1												14 of Dat		neet	
						1	km		2 km		3 km		4 km		5 km			et Q	ty Payabl	le		
1	2	3	4	5	6		7		8		9		10		11		12		13		14	15
1.1.1	Lime, moorum, building rubbish	9 tonnes 7.65 cum	7.65 cum 0%	cum	15%	₹	88.44	₹	101.39	₹	114.21	₹	126.58	₹	138.64	₹	10.90	₹	9.18	₹	7.71	
1.1.2	Earth	9 tonnes 6.75 cum	5.40 cum -20%	cum	15%	₹	125.29	₹	143.63	₹	161.79	₹	179.32	₹	196.41	₹	15.45	₹	13.01	₹	10.93	
1.1.3	Manure or sludge	9 tonnes 7.50 cum	6.90 cum -8%	cum	15%	₹	98.06	₹	112.41	₹	126.62	₹	140.34	₹	153.71	₹	12.09	₹	10.18	₹	8.55	
1.1.4	Excavated rock	9 tonnes 4.33 cum	2.17 cum -50%	cum	15%	₹	311.79	₹	357.43	₹	402.62	₹	446.23	₹	488.76	₹	38.44	₹	32.38	₹	27.20	
1.1.5	Sand	9 tonnes 7.00 cum	7.00 cum 0%	cum	15%	₹	96.66	₹	110.80	₹	124.81	₹	138.33	₹	151.51	₹	11.92	₹	10.04	₹	8.43	
1.1.6	Stone aggregate below 40 mm nominal size	9 tonnes 6.25 cum	6.25 cum 0%	cum	15%	₹	108.25	₹	124.10	₹	139.79	₹	154.93	₹	169.70	₹	13.35	₹	11.24	₹	9.44	
1.1.7	Stone aggregate 40 mm nominal size and above	9 tonnes 6.25 cum	5.78 cum -7.5%	cum	15%	₹	117.06	₹	134.19	₹	151.16	₹	167.53	₹	183.49	₹	14.43	₹	12.16	₹	10.21	
1.1.8	Soling stone	9 tonnes 4.90 cum	4.17 cum -15.0%	cum	15%	₹	162.25	₹	186.00	₹	209.52	₹	232.21	₹	254.34	₹	20.00	₹	16.85	₹	14.15	
1.1.9	Bricks	9 tonnes 3000 nos.	3000 nos.	1000 Nos.	15%	₹	225.53	₹	258.54	₹	291.23	₹	322.77	₹	353.53	₹	27.80	₹	23.42	₹	19.67	
1.1.10	Brick Tiles	9 tonnes 5000 nos.	5000 nos.	1000 Nos.	15%	₹	135.32	₹	155.12	₹	174.74	₹	193.66	₹	212.12	₹	16.68	₹	14.05	₹	11.80	
1.1.11	Cement, stone blocks, G.I C.I., A.C., & C.C.pipes below 100 mm dia. and other heavy materials	9 tonnes	9 tonnes	tonne	15%	₹	75.18	₹	86.18	₹	97.08	₹	107.59	₹	117.84	₹	9.27	₹	7.81	₹	6.56	
1.1.12	Steel	9 tonnes	9 tonnes	tonne	15%	₹	75.18	₹	86.18	₹	97.08	₹	107.59	₹	117.84	₹	9.27	₹	7.81	₹	6.56	
1.1.13	Timber	9 tonnes 12.38 cum	12.38 cum	cum	15%	₹	54.65	₹	62.65	₹	70.57	₹	78.22	₹	85.67	₹	6.74	₹	5.68	₹	4.77	
1.1.14	Tar bitumen	9 tonnes	9 tonnes	tonne	15%	₹	75.18	₹	86.18	₹	97.08	₹	107.59	₹	117.84	₹	9.27	₹	7.81	₹	6.56	
1.1.15	Solvent	9 tonnes 80.00 qtls	80.00 qtIs	qtl	15%	₹	8.46	₹	9.70	₹	10.92	₹	12.10	₹	13.26	₹	1.04	₹	0.88	₹	0.74	
1.1.16	Steam coal	9 tonnes	9 tonnes	tonne	15%	₹	75.18	₹	86.18	₹	97.08	₹	107.59	₹	117.84	₹	9.27	₹	7.81	₹	6.56	

			Net Qty				Cos	t per Trip per	unit		Beyond 5	Beyond 10	Beyond 20	
		Carrying capacity of	Payable of	Unit of	C.P. & Over-		Cost per Trip	as per Col. 12	2 of Data shee	et	km upto 10 km	km upto 20km	km per	
SI.No	Materials	Truck per Trip	after deduction for	rates	heads @15%		١	Net Qty Payab	le		per km	per km	addl. Km	Remarks
		IIIP	voids		@15/0	1 1	2 km	3 km	4 km	5 km		Col. 14 of Da let Qty Payab		
1	2	3	4	5	6	1 km	2 KIII 8	3 KIII	10	11	12	13	14	15
1		3	4	3	0	,	0	9	10	- 11	12	13	14	15
1.1.17	S.W. pipe													
111/1	100 mm dia	9 tonnes	585.00 m	100	15%	₹ 115.66	₹ 132.58	₹ 149.35	₹ 165.52	₹ 181.30	₹ 14.26	₹ 12.01	₹ 10.09	
1.1.16.1	[600 mm length of weight 14kg/m]	975 pipes		100 m	15%	₹ 115.00	₹ 132.56	₹ 149.55	₹ 100.52	₹ 161.30	₹ 14.20	12.01	10.09	
	150 mm dia	9 tonnes	300.00 m											
1.1.16.2	[600 mm length of weight 22kg/m]	500 pipes		100 m	15%	₹ 225.53	₹ 258.54	₹ 291.23	₹ 322.77	₹ 353.53	₹ 27.80	₹ 23.42	₹ 19.67	
	200 mm dia	9 tonnes	180.00 m											
1.1.16.3	[600 mm length of weight 33kg/m]	300 pipes		100 m	15%	₹ 375.88	₹ 430.90	₹ 485.38	₹ 537.95	₹ 589.22	₹ 46.34	₹ 39.03	₹ 32.79	
	230 mm dia	9 tonnes	126.00 m											
1.1.16.4	[600 mm length of weight 42kg/m]	210 pipes		100 m	15%	₹ 536.98	₹ 615.57	₹ 693.40	₹ 768.50	₹ 841.75	₹ 66.20	₹ 55.76	₹ 46.84	
	250 mm dia	9 tonnes	105.00 m											
1.1.16.5	[600 mm length of weight 52kg/m]	175 pipes		100 m	15%	₹ 644.37	₹ 738.68	₹ 832.07	₹ 922.20	₹ 1,010.09	₹ 79.44	₹ 66.92	₹ 56.21	
	300 mm dia	9 tonnes	84.00 m											
1.1.16.6	[600 mm length of weight 79kg/m]	140 pipes		100 m	15%	₹ 805.47	₹ 923.35	₹ 1,040.09	₹ 1,152.75	₹ 1,262.62	₹ 99.30	₹ 83.65	₹ 70.26	
	350 mm dia	9 tonnes	60.00 m											
1.1.16.7	[600 mm length of weight 100kg/m]	100 pipes		100 m	15%	₹ 1,127.65	₹ 1,292.70	₹ 1,456.13	₹ 1,613.85	₹ 1,767.67	₹ 139.02	₹ 117.10	₹ 98.37	
	400 mm dia	9 tonnes	42.00 m											
1.1.16.8	[600 mm length of weight 147kg/m]	70 pipes		100 m	15%	₹ 1,610.93	₹ 1,846.71	₹ 2,080.19	₹ 2,305.50	₹ 2,525.24	₹ 198.59	₹ 167.29	₹ 140.52	
	450 mm dia	9 tonnes	33.00 m											
1.1.16.9	[600 mm length of weight 160kg/m]	55 pipes		100 m	15%	₹ 2,050.28	₹ 2,350.36	₹ 2,647.51	₹ 2,934.28	₹ 3,213.94	₹ 252.76	₹ 212.92	₹ 178.85	
	500 mm dia	9 tonnes	30.00 m											
1.1.16.10	[600 mm length of weight 180kg/m]	50 pipes		100 m	15%	₹ 2,255.30	₹ 2,585.39	₹ 2,912.26	₹ 3,227.71	₹ 3,535.33	₹ 278.03	₹ 234.21	₹ 196.73	
	600 mm dia	9 tonnes	25.20 m											
1.1.16.11	[600 mm length of weight 240kg/m]	42 pipes		100 m	15%	₹ 2,684.88	₹ 3,077.85	₹ 3,466.98	₹ 3,842.51	₹ 4,208.73	₹ 330.99	₹ 278.82	₹ 234.20	

			Net Qty				Cos	t per Trip per	unit		Beyond 5	Beyond 10	Beyond 20	
CLN	Malastala	Carrying capacity of	Payable of	Unit of	C.P. & Over-	(Cost per Trip	as per Col. 12	of Data shee	t	km upto 10 km	km upto 20km	km per addl. Km	December
SI.No	Materials	Truck per	after deduction for	rates	heads @15%		١	Net Qty Payab	le		per km	per km		Remarks
		Trip	voids		@15%	4.1	0.1	2.1	4.1	E Luci		Col. 14 of Da		
					,	1 km	2 km	3 km	4 km	5 km		let Qty Payab		4.5
1	2	3	4	5	6	/	8	9	10	11	12	13	14	15
1.1.17	R.C.C. pipes, A.C. pipes,steel cylinder, R.C. pipes,C.I. pipes, C.I. pipes and unreinforced cement pipes													
1.1.17.1	100 mm dia	9 tonnes	366.00 m	100 m	15%	₹ 184.86	₹ 211.92	₹ 238.71	₹ 264.57	₹ 289.78	₹ 22.79	₹ 19.20	₹ 16.13	
1.1.17.1	[3.66 m long]	100 pipes		100 111	15%	₹ 164.66	211.92	₹ 230./1	₹ 204.57	209.70	₹ 22.19	19.20	₹ 16.13	
1.1.17.2	125 mm dia	9 tonnes	274.50 m	100 m	15%	₹ 246.48	₹ 282.56	₹ 318.28	₹ 352.75	₹ 386.37	₹ 30.39	₹ 25.60	₹ 21.50	
1.1.17.2	[3.66 m long]	75 pipes		100111	13%	240.46	202.50	310.20	332.73	380.37	30.38	25.00	21.50	
1.1.17.3	150 mm dia	9 tonnes	219.60 m	100 m	15%	₹ 308.10	₹ 353.20	₹ 397.85	₹ 440.94	₹ 482.97	₹ 37.98	₹ 32.00	₹ 26.88	
1.1.17.3	[3.66 m long]	60 pipes		100 111	1370	300.10	\ 333.20	397.03	440.94	402.97	37.50	32.00	20.00	
1.1.17.4	200 mm dia	9 tonnes	135.42 m	100 m	15%	₹ 499.62	₹ 572.75	₹ 645.16	₹ 715.04	₹ 783.19	₹ 61.59	₹ 51.89	₹ 43.58	
1.1.17.4	[3.66 m long]	37 pipes		100 111	1370	1 499.02	372.73	043.10	715.04	705.19	(01.55	31.09	45.50	
1.1.17.5	250 mm dia	9 tonnes	95.16 m	100 m	15%	₹ 711.00	₹ 815.07	₹ 918.11	₹ 1,017.56	₹ 1,114.54	₹ 87.65	₹ 73.84	₹ 62.02	
1.1.17.3	[3.66 m long]	26 pipes		100 111	13/0	711.00	C 015.07	\$ 910.11	(1,017.50	1,114.54	07.00	75.04	02.02	
1.1.17.6	300 mm dia	9 tonnes	76.86 m	100 m	15%	₹ 880.29	₹ 1,000,13	₹ 1,136.71	₹ 1.250.8 <i>1</i>	₹ 1.379.91	₹ 108.52	₹ 91.42	₹ 76.79	
1.1.17.0	[3.66 m long]	21 pipes		100 111	13/0	000.29	1,009.13	1,130.71	1,259.04	(1,579.91	100.52	31.42	10.19	
1.1.17.7	350 mm dia	9 tonnes	54.90 m	100 m	15%	₹ 1,232.41	₹ 1,412.78	₹ 1.501.40	₹ 1,763.77	₹ 1.931.87	₹ 151.93	₹ 127.98	₹ 107.50	
1.1.17.7	[3.66 m long]	15 pipes		100 111	1370	1,232.41	1,412.70	(1,591.40	(1,703.77	1,931.07	(131.83	121.90	107.50	
1.1.17.8	400 mm dia	9 tonnes	40.26 m	100 m	15%	₹ 1,680.55	₹ 1,926.52	₹ 2,170.09	₹ 2,405.15	₹ 2,634.37	₹ 207.18	₹ 174.52	₹ 146.60	
1.1.17.0	[3.66 m long]	11 pipes		100111	13%	1,000.33	1,920.32	2,170.09	2,405.15	2,034.37	207.10	174.52	140.00	
1.1.17.9	450 mm & 500 mm dia	9 tonnes	32.94 m	100 m	15%	₹ 2.054.01	₹ 2,354.64	₹ 2,652.33	₹ 2,939.62	₹ 3.219.79	₹ 253.22	₹ 213.31	₹ 179.17	
1.1.17.9	[3.66 m long]	9 pipes		100111	13%	2,034.01	2,334.04	2,032.33	2,939.02	3,219.79	233.22	213.31	119.11	
1.1.17.10	600, 700, 750 & 800 mm	9 tonnes	21.96 m	100 m	15%	₹ 3,081.02	₹ 3,531.96	₹ 2.079.50	₹ 4,409.43	₹ 4,829.69	₹ 379.82	₹ 319.96	₹ 268.76	
1.1.17.10	[3.66 m long]	6 pipes		100111	13%	3,001.02	3,551.90	3,976.50	4,409.43	4,029.09	379.02	319.90	200.70	
1.1.17.11	900 mm dia	9 tonnes	14.64 m	100 m	15%	₹ 462452	₹ 5,297.93	₹ 5.067.75	₹ 6.61/115	₹ 7,244.53	₹ 569.74	₹ 479.94	₹ 403.14	
1.1.17.11	[3.66 m long]	4 pipes		100 m	15%	4,021.32	3,291.93	3,907.75	0,014.15	7,244.33	309.74	4/9.94	403.14	
1.1.17.12	1000, 1100 & 1200 mm dia	9 tonnes	10.98 m	100 m	15%	₹ 6.162.03	₹ 7.063.91	₹ 7,956.99	₹ 8,818.87	₹ 9.659.37	₹ 759.65	₹ 639.92	₹ 537.52	
1.1.17.12	[3.66 m long]	3 pipes		100 111	13%	0,102.03	1,000.81	1,300.33	0,010.07	9,009.07	108.00	. 008.82	. 331.32	

1.0 Carriage of Materials

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.5 KM Data Sheet for Analysis of Rates

Code	Name	Unit		Rate
0203	Beldar	Day	₹	310.00
0212	Coolie	Day	₹	310.00

As per actual observation on different projects the following quantity of building materials up to a first lead of 50 m will be carried in 8 hours shift by 7.67 labourers either beldar or coolie. However labour required for stacking would be extra.

Lime, mooram, earth, building rubbish etc.	35 cum
2. Sand, ballast and boulders	28 cum
3. Bricks	15000 nos
4. Brick Tiles, Roofing tiles (Flat or round)	24000 nos
5. Steam coal	30 tonnes

NOTE: It was further observed that for carrying the above materials to every further lead of 50 m or part thereof upto a distance of 0.5 km in the shift of 8 hours, additional 1.67 Nos. of extra coolie (Female coolie) will be required.

		Carrying Capacity of	Qty. to be paid after		Cost	_	ge including loading and unloading	Cost including 59 materials conve shift plus 1 contractor's prof	eyed i 5% to	n 8 hours wards	Cost per cum	ı/ tonne	:/ Nos.
SI. No.	Materials	labour for 8 hours shift	deduction for voids	Unit	For Firs	st 50 m	For every further lead of 50 m or part thereof beyond first 50 m upto a distance of 500 m	`x+20%		y+20%	For lead up to 50 m	lead of	ery further 50 m upto of 0.5 km
					`	x	` y				`x+20%/qty.	` y+:	20%/qty.
1	2	3	4	5	6	6	7	8		9	10		11
1.2.1	Lime, mooram building rubbish	35.00 cum	35.00 cum	cum	₹ 2	2,377.70	₹ 517.70	₹ 2,853.24	₹	621.24	₹ 81.52	₹	17.75
1.2.2	Earth	35.00 cum	28.00 cum	cum	₹ 2	2,377.70	₹ 517.70	₹ 2,853.24	₹	621.24	₹ 101.90	₹	22.19
1.2.3	Manure or sludge	35.00 cum	32.20 cum	cum	₹ 2	2,377.70	₹ 517.70	₹ 2,853.24	₹	621.24	₹ 88.61	₹	19.29
1.2.4	Excavated rock	35.00 cum	17.50 cum	cum	₹ 2	2,377.70	₹ 517.70	₹ 2,853.24	₹	621.24	₹ 163.04	₹	35.50
1.2.5	Sand, brick/stone aggregate below 40 mm nominal size	28.00 cum	28.00 cum	cum	₹ 2	2,377.70	₹ 517.70	₹ 2,853.24	₹	621.24	₹ 101.90	₹	22.19
1.2.6	Brick/ Stone aggregate 40 mm nominal size and above	28.00 cum	25.90 cum	cum	₹ 2	2,377.70	₹ 517.70	₹ 2,853.24	₹	621.24	₹ 110.16	₹	23.99
1.2.7	Soling stone	28.00 cum	23.80 cum	cum	₹ 2	2,377.70	₹ 517.70	₹ 2,853.24	₹	621.24	₹ 119.88	₹	26.10
1.2.8	Bricks	15000 nos.	15000 nos.	1000 nos.	₹ 2	2,377.70	₹ 517.70	₹ 2,853.24	₹	621.24	₹ 190.22	₹	41.42
1.2.9	Brick Tiles, Allahabad roofing tiles (Flat or round)	24000 nos.	24000 nos.	1000 nos.	₹ 2	2,377.70	₹ 517.70	₹ 2,853.24	₹	621.24	₹ 118.89	₹	25.89
1.2.10	Steam coal	30 tonnes	30 tonnes	tonnes	₹ 2	2,377.70	₹ 517.70	₹ 2,853.24	₹	621.24	₹ 95.11	₹	20.71

1.0 Carriage of Materials

1.3 By Manual Labour including loading, unloading and stacking for lead less than 0.5 KM Data Sheet for Analysis of Rates

Code	Name	Unit		Rate
0203	Beldar	Day	₩	310.00
0212	Coolie	Day	₩	310.00

Normal carrying capacity of the selected building materials up to a first lead of 50 m will be carried in 8 hours shift by 9.2 Nos. labourers either beldar or coolie. However labour required for stacking would be extra.

1. Stone blocks, G.I., C.I.pipes below 100 mm dia and other heavy materials	46 tonnes
2. Cement	57.99 tonnes
3. Steel	27 tonnes
4. Timber	42 cum
5. Tar bitumen etc	46 tonnes
6. S.W. pipe	
6.1. 100 mm dia	2298.00 m
6.2. 150 mm dia	1398.00 m
6.3. 200 mm dia	999.00 m
6.4. 230 mm dia	780.00 m
6.5. 250 mm dia	600.00 m
6.6. 300 mm dia	420.00 m
6.7. 350 mm dia	300.00 m
6.8. 400 mm dia	240.00 m
6.9. 450 mm dia	198.00 m
6.10. 500 mm dia	162.00 m
6.11. 600 mm dia	132.00 m
7. R.C.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, and unreinforced cement pipes	
7.1. 100 mm dia	1702.00 m
7.2. 125 mm dia	1391.00 m
7.3. 150 mm dia	1208.00 m
7.4. 200 mm dia	805.00 m
7.5. 250 mm dia	458.00 m
7.6. 300 mm dia	366.00 m
7.7. 350 mm dia	256.00 m
7.8. 400 mm dia	220.00 m
7.9. 450 mm dia & 500 mm dia	165.00 m
7.10. 600, 700, 750 & 800 mm dia	50.00 m
8. Asbestors cement pipes	
8.1. 50 mm dia	10064.00 m
8.2. 80 mm dia	3660.00 m
8.3. 100 mm dia	2562.00 m
8.4. 150 mm dia	1830.00 m

NOTE: It was further observed that for carrying the above materials to every further lead of 50 m or part thereof upto a distance of 0.5 km in the shift of 8 hours, additional 1.35 Nos. of extra Beldar/coolie will be required.

		Carrying Capacity of		Cost		ge including loading and unloading	Cost including 5 materials conv shift plus contractor's pro	/eye 15%	d in 8 hours towards	Cost per cum	n/ to	onne/ 100m
SI. No.	Materials	labour for 8 hours shift	Unit		rst 50 m	For every further lead of 50 m or part thereof beyond first 50 m upto a distance of 500 m	`x+20%		`y+20%	For lead up to 50 m	lea	or every further ad of 50 m upto lead of 0.5 km
1	2	4	5		` x	` y 7	8		9	`x+20%/qty.		` y+20%/qty. 11
1.3.1	Stone blocks, G.I., C.I.pipes below 100 mm dia and other heavy materials	46 tonnes	tonne	₹	2,852.00	•	-	₹		-) ₹	
1.3.2	Cement	57.99 tonnes	tonne	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 59.02	2 ₹	8.66
1.3.3	Steel	27 tonnes	tonne	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 126.76	3 ₹	18.60
1.3.4	Timber	42.00 cum	cum	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 81.49) ₹	11.96
1.3.5	Tar bitumen etc	46 tonnes	tonne	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 74.40) ₹	10.92
1.3.6	S.W. pipes 600 mm long											
1.3.6.1	100 mm dia	2298.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 148.93	3 ₹	21.85
1.3.6.2	150 mm dia	1398.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 244.81	₹	35.92
1.3.6.3	200 mm dia	999.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 342.58	3 ₹	50.27
1.3.6.4	230 mm dia	780.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 438.77	7 ₹	64.38
1.3.6.5	250 mm dia	600.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 570.40) ₹	83.70
1.3.6.6	300 mm dia	420.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 814.86	3 ₹	119.57
1.3.6.7	350 mm dia	300.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 1,140.80) ₹	167.40
1.3.6.8	400 mm dia	240.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 1,426.00) ₹	209.25
1.3.6.9	450 mm dia	198.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 1,728.48	3 ₹	253.64
1.3.6.10	500 mm dia	162.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 2,112.59) ₹	310.00
1.3.6.11	600 mm dia	132.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 2,592.73	3 ₹	380.45
1.3.7	R.C.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, and unreinforced cement pipes 3.66 m long											
1.3.7.1	100 mm dia	1702.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 201.08	3 ₹	29.51
1.3.7.2	125 mm dia	1391.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 246.04	. ₹	36.10
1.3.7.3	150 mm dia	1208.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 283.31	₹	41.57
1.3.7.4	200 mm dia	805.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 425.14	! ₹	62.39
1.3.7.5	250 mm dia	458.00 m	100.00 m	₹	2,852.00	₹ 418.50	₹ 3,422.40	₹	502.20	₹ 747.25	5 ₹	109.65

1.3.7.6	300 mm dia	366.00 m	100.00 m	₹ 2,852.00	₹ 418.50	₹ 3,422.40	₹ 502.20	₹ 935.08	₹ 137.21
1.3.7.7	350 mm dia	256.00 m	100.00 m	₹ 2,852.00	₹ 418.50	₹ 3,422.40	₹ 502.20	₹ 1,336.88	₹ 196.17
1.3.7.8	400 mm dia	220.00 m	100.00 m	₹ 2,852.00	₹ 418.50	₹ 3,422.40	₹ 502.20	₹ 1,555.64	₹ 228.27
1.3.8	R.C.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, and unreinforced cement pipes 3.0 m long								
1.3.8.1	450 mm dia & 500 mm dia	165.00 m	100.00 m	₹ 2,852.00	₹ 418.50	₹ 3,422.40	₹ 502.20	₹ 2,074.18	₹ 304.36
1.3.8.2	600, 700, 750 & 800 mm dia	50.00 m	100.00 m	₹ 2,852.00	₹ 418.50	₹ 3,422.40	₹ 502.20	₹ 6,844.80	₹ 1,004.40
1.3.9	Asbestors cement pipes 2.0 m long								
1.3.9.1	50 mm dia	10064.00 m	100.00 m	₹ 2,852.00	₹ 418.50	₹ 3,422.40	₹ 502.20	₹ 34.01	₹ 4.99
1.3.9.2	80 mm dia	3660.00 m	100.00 m	₹ 2,852.00	₹ 418.50	₹ 3,422.40	₹ 502.20	₹ 93.51	₹ 13.72
1.3.9.3	100 mm dia	2562.00 m	100.00 m	₹ 2,852.00	₹ 418.50	₹ 3,422.40	₹ 502.20	₹ 133.58	₹ 19.60
1.3.9.4	150 mm dia	1830.00 m	100.00 m	₹ 2,852.00	₹ 418.50	₹ 3,422.40	₹ 502.20	₹ 187.02	₹ 27.44

SH 1_CARRIAGE.xls 9

SUB HEAD: 1.0 / CARRIAGE OF MATERIALS

Note: These rates are inclusive of Contractor's profit and over heads but exclusive of GST

1.1 Carriage of materials by Mechanical Transport including loading, unloading and stacking

SI.No	Materials	Unit of rates						ding 15% (Oty Payab		ОН			km	ond 5 upto 10 km er km	kr 2	yond 10 m upto 20km er km	k	ond 20 m per dl. Km	Remarks
				1 km		2 km		3 km		4 km		5 km		Ne	et Q	ty Payak	le		
1	2	3		4		5		6		7		8		9		10		11	12
1.1.1	Lime, moorum, building rubbish	cum	₹	88.44	₹	101.39	₹	114.21	₹	126.58	₹	138.64	₹	10.90	₹	9.18	₹	7.71	of under
1.1.2	Earth	cum	₹	125.29	₹	143.63	₹	161.79	₹	179.32	₹	196.41	₹	15.45	₹	13.01	₹	10.93	tion c
1.1.3	Manure or sludge	cum	₹	98.06	₹	112.41	₹	126.62	₹	140.34	₹	153.71	₹	12.09	₹	10.18	₹	8.55	deduction
1.1.4	Excavated rock	cum	₹	311.79	₹	357.43	₹	402.62	₹	446.23	₹	488.76	₹	38.44	₹	32.38	₹	27.20	after c ne spec als "
1.1.5	Sand	cum	₹	96.66	₹	110.80	₹	124.81	₹	138.33	₹	151.51	₹	11.92	₹	10.04	₹	8.43	ties a in the iteria
1.1.6	Stone aggregate below 40 mm nominal size	cum	₹	108.25	₹	124.10	₹	139.79	₹	154.93	₹	169.70	₹	13.35	₹	11.24	₹	9.44	quantities ioned in th of Materi
1.1.7	Stone aggregate 40 mm nominal size and above	cum	₹	117.06	₹	134.19	₹	151.16	₹	167.53	₹	183.49	₹	14.43	₹	12.16	₹	10.21	le to net c ids menti Carriage
1.1.8	Soling stone	cum	₹	162.25	₹	186.00	₹	209.52	₹	232.21	₹	254.34	₹	20.00	₹	16.85	₹	14.15	able to /oids " Ca l
1.1.9	Bricks	1000 Nos.	₹	225.53	₹	258.54	₹	291.23	₹	322.77	₹	353.53	₹	27.80	₹	23.42	₹	19.67	oplicable for void Head " C
1.1.10	Brick Tiles	1000 Nos.	₹	135.32	₹	155.12	₹	174.74	₹	193.66	₹	212.12	₹	16.68	₹	14.05	₹	11.80	be apprintage Sub F
1.1.11	Cement, stone blocks, G.I C.I., A.C., & C.C.pipes below 100 mm dia. and other heavy materials	tonne	₹	75.18	₹	86.18	₹	97.08	₹	107.59	₹	117.84	₹	9.27	₹	7.81	₹	6.56	The rates will be applicable to net quantities after deduction of prescribed percentage for voids mentioned in the specification under Sub Head " Carriage of Materials"
1.1.12	Steel	tonne	₹	75.18	₹	86.18	₹	97.08	₹	107.59	₹	117.84	₹	9.27	₹	7.81	₹	6.56	T

SI.No	Materials	Unit of rates								Beyond 5 km upto 10 km per km				k	ond 20 m per dl. Km	Remarks			
				1 km 2 km 3 km 4 km 5 km						Net Oty Paya				le le					
1	2	3		4		5		6		7		8		9		10		11	12
1.1.13	Timber	cum	₹	54.65	₹	62.65	₹	70.57	₹	78.22	₹	85.67	₹	6.74	₹	5.68	₹	4.77	
1.1.14	Tar bitumen	tonne	₹	75.18	₹	86.18	₹	97.08	₹	107.59	₹	117.84	₹	9.27	₹	7.81	₹	6.56	
1.1.15	Solvent	qtI	₹	8.46	₹	9.70	₹	10.92	₹	12.10	₹	13.26	₹	1.04	₹	0.88	₹	0.74	
1.1.16	Steam coal	tonne	₹	75.18	₹	86.18	₹	97.08	₹	107.59	₹	117.84	₹	9.27	₹	7.81	₹	6.56	
1.1.17	S.W. pipe																		
1.1.16.1	100 mm dia [600 mm length of weight 14kg/m]	100 m	₹	115.66	₹	132.58	₹	149.35	₹	165.52	₹	181.30	₹	14.26	₹	12.01	₹	10.09	
1.1.16.2	150 mm dia [600 mm length of weight 22kg/m]	100 m	₹	225.53	₹	258.54	₹	291.23	₹	322.77	₹	353.53	₹	27.80	₹	23.42	₹	19.67	
1.1.16.3	200 mm dia [600 mm length of weight 33kg/m]	100 m	₹	375.88	₹	430.90	₹	485.38	₹	537.95	₹	589.22	₹	46.34	₹	39.03	₹	32.79	
1.1.16.4	230 mm dia [600 mm length of weight 42kg/m]	100 m	₹	536.98	₹	615.57	₹	693.40	₹	768.50	₹	841.75	₹	66.20	₹	55.76	₹	46.84	
1.1.16.5	250 mm dia [600 mm length of weight 52kg/m]	100 m	₹	644.37	₹	738.68	₹	832.07	₹	922.20	₹	1,010.09	₹	79.44	₹	66.92	₹	56.21	
1.1.16.6	300 mm dia [600 mm length of weight 79kg/m]	100 m	₹	805.47	₹	923.35	₹	1,040.09	₹	1,152.75	₹	1,262.62	₹	99.30	₹	83.65	₹	70.26	
1.1.16.7	350 mm dia [600 mm length of weight 100kg/m]	100 m	₹	1,127.65	₹	1,292.70	₹	1,456.13	₹	1,613.85	₹	1,767.67	₹	139.02	₹	117.10	₹	98.37	

SI.No	Materials	Unit of rates			ncluding 15% (Beyond 5 km upto 10 km per km	Beyond 10 km upto 20km per km	Beyond 20 km per addl. Km	Remarks
			1 km	2 km	3 km	4 km	5 km	N	et Oty Payal	ole	
1	2	3	4	5	6	7	8	9	10	11	12
	400 mm dia										
1.1.16.8	[600 mm length of weight 147kg/m]	100 m	₹ 1,610.93	₹ 1,846.71	₹ 2,080.19	₹ 2,305.50	₹ 2,525.24	₹ 198.59	₹ 167.29	₹ 140.52	
1.1.16.9	450 mm dia [600 mm length of weight 160kg/m]	100 m	₹ 2,050.28	₹ 2,350.36	₹ 2,647.51	₹ 2,934.28	₹ 3,213.94	₹ 252.76	₹ 212.92	₹ 178.85	
	500 mm dia [600 mm length of weight 180kg/m]	100 m	₹ 2,255.30	₹ 2,585.39	₹ 2,912.26	₹ 3,227.71	₹ 3,535.33	₹ 278.03	₹ 234.21	₹ 196.73	
1.1.16.11	600 mm dia [600 mm length of weight 240kg/m]	100 m	₹ 2,684.88	₹ 3,077.85	₹ 3,466.98	₹ 3,842.51	₹ 4,208.73	₹ 330.99	₹ 278.82	₹ 234.20	
1.1.17	R.C.C. pipes, A.C. pipes,steel cylinder, R.C. pipes,C.I. pipes, C.I. pipes and unreinforced cement pipes										
1.1.17.1	100 mm dia [3.66 m long]	100 m	₹ 184.86	₹ 211.92	₹ 238.71	₹ 264.57	₹ 289.78	₹ 22.79	₹ 19.20	₹ 16.13	
1.1.17.2	125 mm dia [3.66 m long]	100 m	₹ 246.48	₹ 282.56	₹ 318.28	₹ 352.75	₹ 386.37	₹ 30.39	₹ 25.60	₹ 21.50	
1.1.17.3	150 mm dia [3.66 m long]	100 m	₹ 308.10	₹ 353.20	₹ 397.85	₹ 440.94	₹ 482.97	₹ 37.98	₹ 32.00	₹ 26.88	
1.1.17.4	200 mm dia [3.66 m long]	100 m	₹ 499.62	₹ 572.75	₹ 645.16	₹ 715.04	₹ 783.19	₹ 61.59	₹ 51.89	₹ 43.58	
1.1.17.5	250 mm dia [3.66 m long]	100 m	₹ 711.00	₹ 815.07	₹ 918.11	₹ 1,017.56	₹ 1,114.54	₹ 87.65	₹ 73.84	₹ 62.02	
1.1.17.6	300 mm dia [3.66 m long]	100 m	₹ 880.29	₹ 1,009.13	₹ 1,136.71	₹ 1,259.84	₹ 1,379.91	₹ 108.52	₹ 91.42	₹ 76.79	

				Rate in	cluding 15% (CP & OH		Beyond 5 km upto 10	Beyond 10 km upto	Beyond 20	
SI.No	Materials	Unit of rates		ſ	Net Qty Payab	le		km per km	20km per km	km per addl. Km	Remarks
			1 km	2 km	3 km	4 km	5 km	Ne	et Oty Payak	ole	
1	2	3	4	5	6	7	8	9	10	11	12
1.1.17.7	350 mm dia [3.66 m long]	100 m	₹ 1,232.41	₹ 1,412.78	₹ 1,591.40	₹ 1,763.77	₹ 1,931.87	₹ 151.93	₹ 127.98	₹ 107.50	
1.1.17.8	400 mm dia [3.66 m long]	100 m	₹ 1,680.55	₹ 1,926.52	₹ 2,170.09	₹ 2,405.15	₹ 2,634.37	₹ 207.18	₹ 174.52	₹ 146.60	
1.1.17.9	450 mm & 500 mm dia [3.66 m long]	100 m	₹ 2,054.01	₹ 2,354.64	₹ 2,652.33	₹ 2,939.62	₹ 3,219.79	₹ 253.22	₹ 213.31	₹ 179.17	
1.1.17.10	600, 700, 750 & 800 mm dia [3.66 m long]	100 m	₹ 3,081.02	₹ 3,531.96	₹ 3,978.50	₹ 4,409.43	₹ 4,829.69	₹ 379.82	₹ 319.96	₹ 268.76	
1.1.17.11	900 mm dia [3.66 m long]	100 m	₹ 4,621.52	₹ 5,297.93	₹ 5,967.75	₹ 6,614.15	₹ 7,244.53	₹ 569.74	₹ 479.94	₹ 403.14	
1.1.17.12	1000, 1100 & 1200 mm dia [3.66 m long]	100 m	₹ 6,162.03	₹ 7,063.91	₹ 7,956.99	₹ 8,818.87	₹ 9,659.37	₹ 759.65	₹ 639.92	₹ 537.52	

1.0 Carriage of Materials

Note:- These rates are inclusive of Contractor's profit and over heads but exclusive of GST

1.2 Carriage of materials by Manual Labour including loading, unloading and stacking for lead less than 0.5 KM

	1000 10	55 than 0.:		st per cum	ı/ to 00m	nne/ Nos./	
SI. No.	Materials	Unit	For	lead up to 50 m	furt 50	or every ther lead of m upto a d of 0.5 km	Remarks
1	2	3		4		5	6
1.2.1	Lime, mooram building rubbish	cum	₹	81.52	₹	17.75	o net of oids ion of
1.2.2	Earth	cum	₹	101.90	₹	22.19	II be applicable to ne after deduction of percentage for voids in the specification Head " Carriage of Materials"
1.2.3	Manure or sludge	cum	₹	88.61	₹	19.29	plica leduc tage t speci Carr Is"
1.2.4	Excavated rock	cum	₹	163.04	₹	35.50	ill be appl s after dec percentag in the sp Head " C
1.2.5	Sand, brick/stone aggregate below 40 mm nominal size	cum	₹	101.90	₹	22.19	
1.2.6	Brick/ Stone aggregate 40 mm nominal size and above	cum	₹	110.16	₹	23.99	he rates wi quantities prescribed mentionec under Sub
1.2.7	Soling stone	cum	₹	119.88	₹	26.10	The pro
1.2.8	Bricks	1000 nos.	₹	190.22	₹	41.42	
1.2.9	Brick Tiles, Allahabad roofing tiles (Flat or round)	1000 nos.	₹	118.89	₹	25.89	
1.2.10	Steam coal	tonnes	₹	95.11	₹	20.71	
1.2.11	Stone blocks, G.I., C.I.pipes below 100 mm dia and other heavy materials	tonne	₹	74.40	₹	10.92	
1.2.12	Cement	tonne	₹	59.02	₹	8.66	
1.2.13	Steel	tonne	₹	126.76	₹	18.60	
1.2.14	Timber	cum	₹	81.49	₹	11.96	
1.2.15	Tar bitumen etc	tonne	₹	74.40	₹	10.92	
1.2.16	S.W. pipes						ed ts
1.2.17.1	100 mm dia	100.00 m	₹	148.93	₹	21.85	ssured
1.2.17.2	150 mm dia	100.00 m	₹	244.81	₹	35.92	mea f so
1.2.17.3	200 mm dia	100.00 m	₹	342.58	₹	50.27	be th o
1.2.17.4	230 mm dia	100.00 m	₹	438.77	₹	64.38	will
1.2.17.5	250 mm dia	100.00 m	₹	570.40	₹	83.70	pes
1.2.17.6	300 mm dia	100.00 m	₹	814.86	₹	119.57	/. Pi nter
1.2.17.7	350 mm dia	100.00 m	₹	1,140.80	₹	167.40	S.V
1.2.17.8	400 mm dia	100.00 m	₹	1,426.00	₹	209.25	h of of tł
1.2.17.9	450 mm dia	100.00 m	₹	1,728.48	₹	253.64	The length of S.W. Pipes will be mea exclusie of the internal depth of so
1.2.17.10	500 mm dia	100.00 m	₹	2,112.59	₹	310.00	ne le xclu
1.2.17.11	600 mm dia	100.00 m	₹	2,592.73	₹	380.45	Ė ė

			Со	st per cum	/ toi 00m	nne/ Nos./	
SI. No.	Materials	Unit	For	lead up to 50 m	furt 50	or every her lead of m upto a I of 0.5 km	Remarks
1	2	3		4		5	6
1.2.18	R.C.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, and unreinforced cement pipes 3.66 m long						e R.C.C. : shall be s shall be ckets.
1.2.18.1	100 mm dia	100.00 m	₹	201.08	₹	29.51	cret ipes sipe f so
1.2.18.2	125 mm dia	100.00 m	₹	246.04	₹	36.10	con C.I.P ed p ed p
1.2.18.3	150 mm dia	100.00 m	₹	283.31	₹	41.57	ded nd C ket depi
1.2.18.4	200 mm dia	100.00 m	₹	425.14	₹	62.39	enc es al soc al c
1.2.18.5	250 mm dia	100.00 m	₹	747.25	₹	109.65	lain Pipe h of nterr
1.2.18.6	300 mm dia	100.00 m	₹	935.08	₹	137.21	or p 8.C. engt of ir
1.2.18.7	350 mm dia	100.00 m	₹	1,336.88	₹	196.17	jed (rs, F rs F re le ive (
1.2.18.8	400 mm dia	100.00 m	₹	1,555.64	₹	228.27	lang nde I. Tł
1.2.19	R.C.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, and unreinforced cement pipes 3.0 m long						The length of flanged or plain ended concrete R.C.C. Pipes, steel Cylinders, R.C. Pipes and C.I.Pipes shall be measured overall. The length of socketed pipes shall be measured exclusive of internal depth of sockets.
1.2.19.1	450 mm dia & 500 mm dia	100.00 m	₹	2,074.18	₹	304.36	The ipes easu me
1.2.19.2	600, 700, 750 & 800 mm dia	100.00 m	₹	6,844.80	₹	1,004.40	- М.
1.2.20	Asbestors cement pipes 2.0 m long						The length of asbestos cement pipes shall be measured exclusive of internal depth of sockets.
1.2.20.1	50 mm dia	100.00 m	₹	34.01	₹	4.99	The length of sbestos cemen pipes shall be asured exclusi internal depth sockets.
1.2.20.2	80 mm dia	100.00 m	₹	93.51	₹	13.72	e length stos cer es shall ured exc ernal de sockets.
1.2.20.3	100 mm dia	100.00 m	₹	133.58	₹	19.60	The sbeet pippippippippippippippippippippippippip
1.2.20.4	150 mm dia	100.00 m	₹	187.02	₹	27.44	a me of

SUB HEAD : 2.0 EARTH WORK

PREPARATORY WORK

2.1	Clearing jungle including uprooting of rank of girth upto 30 cm measured at a height oupto a distance of 50 m outside the periphe	of 1 m abo	ve ground	lev			
Code	Discription	Unit	Quantity		Rate	,	Amount
	Details of cost for 100 sqm area						
	LABOUR:						
0203	Beldar (M)	Day	1.08	₹	310.00	₹	334.80
0212	Coolie (F)	Day	0.60	₹	310.00	₹	186.00
						₹	520.80
	Add Water charge	@	1%			₹	5.21
						₹	526.01
	Add GST (multiplying factor)		0.1405			₹	73.90
						₹	599.91
	Add for contractor's profit and overheads	@	15%			₹	89.99
						₹	689.90
	Add cess	@	1%			₹	6.90
	Cost of clearing jungle for 100 sqm area					₹	696.80
	Cost per sqm					₹	6.97
	Rate per sqm	Say				₹	7.00

2.2	Clearing grass and removal of the rubbish the area cleared.	upto a di	stance of 5	50 m	outside t	he p	eriphery of
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 100 sqm area						
	LABOUR:						
0203	Beldar (M)	Day	0.60	₹	310.00	₹	186.00
0212	Coolie (F)	Day	0.25	₹	310.00	₹	77.50
						₹	263.50
	Add for Water charge	@	1.0%			₹	2.64
						₹	266.14
	Add GST (multiplying factor)		0.1405			₹	37.39
						₹	306.17
	Add for contractor's profit and overheads	@	15%			₹	45.93
						₹	352.10
	Add cess	@	1%	Î		₹	3.52
	Cost of clearing grass for 100 sqm area			Î		₹	355.62
	Cost per sqm					₹	3.56
	Rate per sqm	Say		Î		₹	3.60

2.3	Felling trees of the girth (measured at a height of trunks and branches removing the roots and unserviceable material.				
2.3.1	Beyond 30 cm girth upto and including 60 cm g	irth			
Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for cutting tree of average girth 47cm, height 3.0m Quantity of wood to be cut in trunk of 15 cm average dia = $1/4(\Pi x 0.15^2)x3.0 = 0.053$ cum Add for branches $20\% = 0.011$ cum Total = 0.064 cum				

	LABOUR:						
	For cutting the trees, removing the roots, filling the depressions pits and stacking/disposal of the surplus materials						
0203	Beldar (M)	Day	0.33	₹	310.00	₹	102.30
0212	Coolie (F)	Day	0.17	₹	310.00	₹	52.70
						₹	155.00
	Add for Sundries and contingencies	@	3.0%			₹	4.65
						₹	159.65
	Add for Water charges	@	1.0%			₹	1.60
						₹	161.25
	Add GST (multiplying factor)		0.1405			₹	22.66
						₹	183.91
	Add for contractor's profit and overheads	@	15%			₹	27.59
						₹	211.50
	Add cess	@	1%			₹	2.12
	Cost of cutting tree upto 3.0m height and girth beyond 30 cm girth upto and including 60 cm girth of 0.064 cum					₹	213.62
	Rate per No.	Say				₹	213.60

2.3.2	Beyond 60 cm girth upto and including 120 cm	girth					
Code	Discription	Unit	Quantity		Rate	А	mount
	Details of cost for cutting tree of average girth 94.25cm, height 5.0m Quantity of wood to be cut in trunk of 30 cm average dia = $1/4(\Pi x 0.30^2)x5.0 = 0.35$ cum Add for branches 20% = 0.07 cum Total = 0.42 cum						
	LABOUR:						
	For cutting the trees, removing the roots, filling the depressions pits and stacking/disposal of the surplus materials						
0203	Beldar (M)	Day	1.50	₹	310.00	₹	465.00
0212	Coolie (F)	Day	0.75	₹	310.00	₹	232.50
						₹	697.50
	Add for Sundries and contingencies	@	3.0%			₹	20.93
	Add for Water alsource	@	1.0%			₹	718.43
	Add for Water charges	w	1.0%			₹	7.18 725.61
	Add GST (multiplying factor)		0.1405			₹	101.95
	riad cor (manipiying ractor)		0.1100			₹	827.56
	Add for contractor's profit and overheads	@	15%			₹	124.13
	·					₹	951.69
	Add cess	@	1%			₹	9.52
	Cost of cutting tree upto 5.0m height and girth beyond 60 cm girth upto and including 120 cm girth of 0.42 cum					₹	961.21
	Rate per No.	Say				₹	961.20

2.3.3	Beyond 120 cm girth upto and including 240 cm girth							
Code	Discription	Unit	Quantity	Rate	Amount			

	Details of cost for cutting tree of average girth 188.5cm, height 7.0m Quantity of wood to be cut in trunk of 60 cm average dia = 1/4(JIx0.602)x7.0 = 1.98cum Add for branches 20% = 0.40 cum Total = 2.38 cum						
	LABOUR:						
	For cutting the trees, removing the roots, filling the depressions pits and stacking/disposal of the surplus materials						
0203	Beldar (M)	Day	7.00	₹	310.00	₹	2,170.00
0212	Coolie (F)	Day	3.50	₹	310.00	₹	1,085.00
						₹	3,255.00
	Add for Sundries and contingencies	@	3.0%			₹	97.65
						₹	3,352.65
	Add for Water charges	@	1.0%			₹	33.53
						₹	3,386.18
	Add GST (multiplying factor)		0.1405			₹	475.76
						₹	3,861.94
	Add for contractor's profit and overheads	@	15%			₹	579.29
						₹	4,441.23
	Add cess	@	1%			₹	44.41
	Cost of cutting tree upto 7.0m height and girth beyond 120 cm girth upto and including 240 cm girth of 2.38 cum					₹	4,485.64
	Rate per No.	Say				₹	4,485.60

2.3.4	Above 240 cm girth						
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for cutting tree of average girth 314.16cm, height 10.0m Quantity of wood to be cut in trunk of 100 cm average dia = 1/4(JIx1.02)x10.0 = 7.85cum Add for branches 20% = 1.57 cum Total = 9.42 cum						
	LABOUR:						
	For cutting the trees, removing the roots, filling the depressions pits and stacking/disposal of the surplus materials						
0203	Beldar (M)	Day	14.00	₹	310.00	₹	4,340.00
0212	Coolie (F)	Day	7.00	₹	310.00	₹	2,170.00
						₹	6,510.00
	Add for Sundries and contingencies	@	3.0%			₹	195.30
						₹	6,705.30
	Add for Water charges	@	1.0%			₹	67.05
						₹	6,772.35
	Add GST (multiplying factor)		0.1405			₹	951.52
						₹	7,723.87
	Add for contractor's profit and overheads	@	15%			₹	1,158.58
						₹	8,882.45
	Add cess	@	1%			₹	88.82
	Cost of cutting tree upto 10.0m height and girth beyond 240 cm girth of 9.42 cum					₹	8,971.27

	Rate per No.	Say		₹	8,971.30

2.4	Surface dressing of the ground including re					s no	t exceeding
	15 cm deep and disposal of rubbish, lead up	oto 50 m a	nd lift upto	o 1.5	5 m.		
	-All kinds of soil						
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 100 sqm area						
	LABOUR:						
0203	Beldar (M)	Day	1.97	₹	310.00	₹	610.70
0212	Coolie (F)	Day	1.29	₹	310.00	₹	399.90
						₹	1,010.60
	Add for Water charges	@	1%			₹	10.11
						₹	1,020.71
	Add GST (multiplying factor)		0.1405			₹	143.41
						₹	1,164.12
	Add for contractor's profit and overheads	@	15%			₹	174.62
						₹	1,338.74
	Add cess	@	1%			₹	13.39
	Cost of surface dressing for 100 sqm area					₹	1,352.13
	Cost per sqm					₹	13.52
	Rate per sqm	Say			•	₹	13.50

2.5	Ploughing the existing ground to a depth of	Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same.								
	-All kinds of soil									
Code	Discription	Unit	Quantity		Rate	Amount				
	Details of cost for 100 sqm area									
	LABOUR:									
0203	Beldar (M)	Day	2.75	₹	310.00	₹	852.50			
0205	Bhishti/Waterman	Day	0.50	₹	310.00	₹	155.00			
						₹	1,007.50			
	Add for water charges	@	1.0%			₹	10.08			
						₹	1,017.58			
	Add GST (multiplying factor)		0.1405			₹	142.97			
						₹	1,160.55			
	Add for contractor's profit and overheads	@	15%			₹	174.08			
						₹	1,334.63			
	Add cess	@	1%			₹	13.35			
	Cost of ploughing 100sqm area					₹	1,347.98			
	Cost per sqm					₹	13.48			
	Rate per sqm	Say			•	₹	13.50			

2.6	Excavating holes upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil; as directed within a lead of 50 m and lift upto 1.5 m.							
	-All kinds of soil							
Code	Discription	Unit	Quantity	Rate	Amount			
	Details of cost for digging 10 holes of 0.5cum each and refilling the same							

Qty. of excavation = 10x0.50 = 5.00cum Approx. size of hole to be provided to obtain 0.5 cum per hole Aquare = 800x800x800 mm Circular = 860mm dia and 860 mm deep As the holes are fairly big the general rate of excavation in soil and refilling can be easily adopted.						
Oty. of excavation	cum	5.00	₹	169.50	₹	847.50
Qty. of refilling [Considering a loss of quantity of one cum for embedment and 0.4cum loooseness in filling]	cum	3.60	₹	120.30	₹	433.08
					₹	1,280.58
Cost of excavating and refilling 10 holes					₹	1,280.58
Cost per hole of 0.5cum quantity					₹	128.06
Rate per hole	Say				₹	128.10

EXCAVATION

2.7	Earth work in surface excavation not exceed as well as 10 sqm on plan including dispose m, disposed soil to be levelled and neatly dro	al of exca					
	-All kinds of soil						
Code	Discription	Unit	Quantity	Rate			Amount
	Details of cost for 100 sqm area						
	LABOUR:						
0203	Beldar (M)	Day	6.80	₹	310.00	₹	2,108.00
0212	Coolie	Day	5.60	₹	310.00	₹	1,736.00
						₹	3,844.00
	Add for water charges	@	1%			₹	38.44
						₹	3,882.44
	Add GST (multiplying factor)		0.1405			₹	545.48
						₹	4,427.92
	Add for contractor's profit and overheads	@	15%			₹	664.19
						₹	5,092.11
	Add cess	@	1%			₹	50.92
	Cost of surface excavation for 100sqm area					₹	5,143.03
	Rate per 100sqm	Say				₹	5,143.00
	Cost per sqm					₹	51.43
	Rate per sqm	Say				₹	51.40

2.8	Earth work in rough excavation, banking exc depth, breaking clods watering, rolling each rammers, and rolling every 3rd and top-mos and dressing up in embankments for roads, f filling up ground depressions, lead upto 50 m	n layer v t layer v Tood bai	with ½ ton with power nks, margii	ne roller or v roller of min nal banks and	vooden or steel imum 8 tonnes
	-All kinds of soil				
	Note: In case the measurement of actual filling this item, the entire quantity of filling thus cale payment under this item, but the net quantity at the filling under optimum moisture content or rate, i.e., if the calculated quantity of filling is cum under this item. (Refer CPWD specification	should not uction 10% Id be consi the payme	be considered quantity for n dered for payr	straightway for ot consolidating nent, under this	
Code	Discription	Unit	Quantity	Rate	Amount

		1	1	1		1	1
	Details of cost for 10 cum rough excavation						
	The rate worked out shall be adopted only						
	when the quantity payable is arrived by						
	measuring actual excavation						
	LABOUR:						
0203	Beldar (M)	Day	5.90	₹	310.00	₹	1,829.00
0212	Coolie	Day	3.60	₹	310.00	₹	1,116.00
0205	Waterman	Day	0.40	₹	310.00	₹	124.00
0115	Hire charge for power roller	Day	0.008	₹	3,100.00	₹	24.80
0117	Hire charge for pump set	Day	0.100	₹	720.00	₹	72.00
01001	Cost of diesel	litre	0.150	₹	68.75	₹	10.31
						₹	3,176.11
	Add for 1/2 tonnes roller or steel roller	@	1.0%			₹	31.76
						₹	3,207.87
	Add for Sundries and contingencies	@	3%			₹	96.24
						₹	3,304.11
	Add for water charges & electricity	@	1.0%			₹	33.04
	,					₹	3,337.15
	Add GST (multiplying factor)		0.1405			₹	468.87
						₹	3,806.02
	Add for contractor's profit and overheads	@	15%			₹	570.90
						₹	4,376.92
	Add cess	@	1%	1		₹	43.77
	Cost of Rough excavation for 10 cum			1		₹	4,420.69
	Cost per cum					₹	442.07
	Rate per cum	Say		1		₹	442.10

2.9	Banking excavated earth in layers not exceed rolling each layer with ½ tonne roller, or woo top-most layer with power roller of minimum roads, flood banks, marginal banks, and guide	den or s	steel ramme es and dres	ers, and rollin ssing up, in er	g every 3rd and mbankments for						
	-All kinds of soil										
	Note:(Refer CPWD specification clause 2.10.5) If the banking or filling is not consolidated to optimim moisture content the quantity of filling work out after actual measurement should be deducted by 10% to arrive at the net payable quantity. The measurement of excavation as prescribed in this item especially for consolidation, is not for consolidation with optimum moisture content. Hence the deduction of 10% quantity from the actual measured and calculated quantity to arrive a correct quantity for payment is mandatory.										
Code	Discription	Unit	Quantity	Rate	Amount						
	Details of cost for 12.5 cum of excavated earth										
0000	LABOUR:		0.00	T 010.00	7 (00.00						
0203	Beldar (M)	Day	2.20	₹ 310.00	₹ 682.00						
0212	Coolie	Day	3.60	₹ 310.00	₹ 1,116.00						
0205 0115	Waterman Hire charge for power roller	Day Day	0.40 0.008	₹ 310.00 ₹ 3,100.00	₹ 124.00 ₹ 24.80						
0117	Hire charge for pump set	Day	0.008	₹ 720.00	₹ 108.00						
01001	Cost of diesel	litre	0.150	₹ 68.75	₹ 10.31						
01001	Cost of dieser	ntic	0.130	00.75	₹ 2,065.11						
	Add for 1/2 tonnes roller or steel roller	@	1.0%		₹ 20.65						
	7.44 161 172 (6111166 161161 61 61661 161161		1.070		₹ 2,085.76						
	Add for Sundries and contingencies	@	3%		₹ 62.57						
					₹ 2,148.33						
	Add for water charges	@	1.0%		₹ 21.48						
					₹ 2,169.81						
	Add GST (multiplying factor)		0.1405		₹ 304.86						

			₹	2,474.67
Add for contractor's profit and overheads	@	15%	₹	371.20
			₹	2,845.87
Add cess	@	1%	₹	28.46
Cost of consolidated quantity of banking = 10% less quantity of the actual measured quantity Payable quantity = 12.5 cum - 10% of 12.5 cum = 11.25 cum			₹	2,874.33
Cost per cum			₹	255.50
Rate per cum	Say		₹	255.50

2.10	Deduct for not rolling with power roller of male layers not exceeding 20 cm in depth.	inimum	8 tonnes f	or I	oanking ex	cavat	ed earth in
Code	Discription	Unit	Quantity		Rate	,	Amount
	Details of cost for 12.5 cum of banking						
	LABOUR:						
0115	Hire charge for power roller	Day	0.008	₹	3,100.00	₹	24.80
01001	Cost of diesel	litre	0.150	₹	68.75	₹	10.31
						₹	35.11
	Add for Sundries and contingencies	@	3%			₹	1.05
						₹	36.16
	Add for water charges	@	1.0%			₹	0.36
	, and the second					₹	36.52
	Add GST (multiplying factor)		0.1405			₹	5.13
	, , ,					₹	78.17
	Add for contractor's profit and overheads	@	15%			₹	11.73
						₹	89.90
	Add cess	@	1%			₹	0.90
	Cost of be deducted from actual payable quantity after deducting 10% Payable quantity = 12.5 cum - 10% of 12.5 cum					₹	90.80
	= 11.25 cum Cost per cum to be deducted			\vdash		₹	8.07
	Rate per cum to be deducted	Say	1			₹	8.10

2.11	Deduct for not watering the excavated earth f	or bank	ing				
Code	Discription	Unit	Quantity		Rate	,	Amount
	Details of cost for 12.5 cum of banking						
	LABOUR:						
0205	Waterman	Day	0.40	₹	310.00	₹	124.00
0117	Hire charge for pump set	Day	0.15	₹	720.00	₹	108.00
						₹	232.00
	Add for Sundries and contingencies	@	3%			₹	6.96
						₹	238.96
	Add for water charges	@	1.0%			₹	2.39
						₹	241.35
	Add GST (multiplying factor)		0.1405			₹	33.91
						₹	275.26
	Add for contractor's profit and overheads	@	15%			₹	41.29
						₹	316.55
	Add cess	@	1%			₹	3.17
	Cost of be deducted from actual payable quantity after deducting 10% Payable quantity = 12.5 cum - 10% of 12.5 cum = 11.25 cum					₹	319.72

Cost per cum to be deducted			₹	28.42
Rate per cum to be deducted	Say		₹	28.40

2.12	2 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over
	areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal
	of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.
	-All kinds of soil

Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 10 cum of excavated earth						
	over areas						
	MACHINERY:						
0118	Higher charge of Hydraulic Excavator (3D) with driver and fuel	Day	0.04125	₹	7,200.00	₹	297.00
0110	Higher charge of Loader	Day	0.04125	₹	5,100.00	₹	210.38
	LABOUR:						
0203	Beldar (M)	Day	1.52	₹	310.00	₹	471.20
						₹	978.58
	Add for Water charges	@	1.0%			₹	9.79
						₹	988.37
	Add for Sundries and contingencies	@	3%			₹	29.65
						₹	1,018.02
	Add GST (multiplying factor)		0.1405			₹	143.03
						₹	1,161.05
	Add for contractor's profit and overheads	@	15%			₹	174.16
						₹	1,335.21
	Add cess	@	1%			₹	13.35
•	Cost of excavation over areas for 10 cum	_				₹	1,348.56
	Cost per cum					₹	134.86
	Rate per cum	Say				₹	134.90

2.13 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.

-All kinds of soil

Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 10 cum of excavated earth in foundation trenches or drains						
	MACHINERY:						
0118	Higher charge of Hydraulic Excavator (3D) with driver and fuel	Day	0.04125	₹	7,200.00	₹	297.00
0110	Higher charge of Loader	Day	0.04125	₹	5,100.00	₹	210.38
	LABOUR:						
0205	Bhisti/Waterman	Day	0.40	₹	310.00	₹	124.00
0203	Beldar (M)	Day	2.05	₹	310.00	₹	635.50
						₹	1,266.88
	Add for Water charges	@	1.0%			₹	12.67
						₹	1,279.55
	Add GST (multiplying factor)		0.1405			₹	179.78
						₹	1,459.33
	Add for contractor's profit and overheads	@	15%			₹	218.90
						₹	1,678.23
	Add cess	@	1%			₹	16.78

	ost of excavation in foundation trenches for 0 cum			₹	1,695.01
Co	ost per cum			₹	169.50
Ra	ate per cum	Say		₹	169.50

2.14	Extra rates for quantities of works, executed:								
2.14.1	In or under water and/ or liquid mud, including pumping out water as required.								
Code	Discription Unit Quantity Rate Amount								
	Extra due to slow progress and dewatering: 20% of the rate of the item. Extra percentage in rate is applicable in respect of each item but limited to quantities of work excuted in difficult condition.	Metre depth							

2.14.2	In or under foul position, including pumping out water as required.								
Code	Discription	Unit	Quantity	Rate	Amount				
	Extra due to slow progress and dewatering: 25% of the rate of the item. This pertains to only such pumping of water as is envisaged at the time of tendering and don't include those that covered under contractual risk.	Metre depth							

Note for item no. 2.14:- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level up to the centre of gravity of the quantity executed in difficult condition. The depth shall be reckoned correct to 0.10m, 0.05m or more shall be taken as 0.10m and less than 0.05m ignore.

2.15	Deduct for disposed soil not levelled and ne in-charge.	atly dres	ssed compl	etel	y as direct	ed by	y Engineer-
Code	Discription	Unit	Quantity		Rate	1	Amount
	Details of cost for 10 cum of excavated earth						
	LABOUR:						
0216	Foreman	Day	0.08	₹	440.00	₹	35.20
0203	Beldar (M)	Day	0.80	₹	310.00	₹	248.00
						₹	283.20
	Add for Sundries and contingencies	@	3.0%			₹	8.50
						₹	291.70
	Add GST (multiplying factor)		0.1405			₹	40.98
						₹	332.68
	Add for contractor's profit and overheads	@	15%			₹	49.90
						₹	382.58
	Add cess	@	1%			₹	3.83
	Cost for 10 cum					₹	386.41
	Cost per cum					₹	38.64
	Rate per cum	Say				₹	38.60

2.16	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc.								
	in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and								
	watering, lead up to 50 m and lift upto 1.5 m.								
	-All kinds of soil								
Code	Discription	Unit	Quantity	Rate	Amount				
	Details of cost for 10 cum for filling available								
	excavated earth								

	LABOUR:						
0203	Beldar (M)	Day	0.20	₹	310.00	₹	62.00
0212	Coolie	Day	2.50	₹	310.00	₹	775.00
0205	Bhisti/Waterman	Day	0.20	₹	310.00	₹	62.00
						₹	899.00
	Add for water charges	@	1.0%			₹	8.99
						₹	907.99
	Add GST (multiplying factor)		0.1405			₹	127.57
						₹	1,035.56
	Add for contractor's profit and overheads	@	15%			₹	155.33
						₹	1,190.89
	Add cess	@	1%			₹	11.91
	Cost of filling for 10 cum					₹	1,202.80
	Cost per cum					₹	120.28
	Rate per cum	Say				₹	120.30

2.17	Excavating, supplying and filling of local ear upto a lead of 5 km also including ramming a 20 cm in trenches, plinth, sides of foundation	nd wate	ring of the				
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 10 cum						
	Rate as per item no 2.12 of SH:2 EARTH WORK	cum	10.00	₹	134.90	₹	1,349.00
	Less for initial lead of 50m Rate as per item no 1.2.2 of SH:1 CARRIAGE OF MATERIALS	cum	10.00	₹	-101.90	₹	-1,019.00
	Add for ramming and watering in layers						
	LABOUR:						
0203	Beldar (M)	Day	0.45	₹	310.00	₹	139.50
0205	Bhisti/Waterman	Day	0.35	₹	310.00	₹	108.50
	Carriage of materials upto 5 km Rate as per item no 1.1.2 of SH:1 CARRIAGE OF MATERIALS	cum	10.00	₹	196.41	₹	1,964.10
	Royalty for good earth	cum	10.00	₹	30.00	₹	300.00
						₹	2,842.10
	Add for water charges	@	1.0%			₹	5.48
						₹	2,847.58
	Add GST (multiplying factor)		0.1405			₹	77.76
						₹	2,925.34
	Add for contractor's profit and overheads	@	15%			₹	94.69
						₹	3,020.03
	Add cess	@	1%			₹	7.26
	Cost of filling for 10 cum					₹	3,027.29
	Cost per cum					₹	302.73
	Rate per cum	Say				₹	302.70

2.18	Extra for additional lift of 1.5m or part there	of					
	-All kinds of soil						
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 10 cum excavated earth lifting						
	LABOUR:						
0212	Coolie	Day	0.10	₹	310.00	₹	31.00
0203	Beldar (M)	Day	1.10	₹	310.00	₹	341.00
						₹	372.00
	Add for ladders, ropes, baskets etc	@	1.0%			₹	3.72
						₹	375.72
	Add GST (multiplying factor)		0.1405			₹	52.79
						₹	428.51

Add for contract	ctor's profit and overheads	@	15%	₹	64.28
				₹	492.79
Add cess		@	1%	₹	4.93
Cost of lifting f specified heigh	or 10 cum earth beyond ts			₹	497.72
Cost per cum				₹	49.77
Rate per cum		Say		₹	49.80

2.19	Supplying and filling in plinth, under floor quarry with all lifts including spreading in slope, ramming, consolidating and compactin suitable method complete.	horizon	tal layers,	wate	ering, grad	ling	to required
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 10 cum of sand filling						
	MATERIALS:						
02002	Sand	cum	10.00	₹	460.00	₹	4,600.00
	CARRIAGE:						
0425	Sand	cum	10.00	₹	131.75	₹	1,317.50
	LABOUR:						
0205	Bhisti/Waterman	Day	0.35	₹	310.00	₹	108.50
0203	Beldar (M) / Coolie	Day	1.07	₹	310.00	₹	331.70
0203	Belder for ramming and watering	Day	0.89	₹	310.00	₹	275.90
						₹	6,633.60
	Add for Water charges	@	1.0%			₹	66.34
						₹	6,699.94
	Add GST (multiplying factor)		0.1405			₹	941.34
						₹	7,641.28
	Add for contractor's profit and overheads	@	15%			₹	1,146.19
						₹	8,787.47
	Add cess	@	1%			₹	87.87
	Cost of supplying and filling for 10 cum sand					₹	8,875.34
	Cost per cum					₹	887.53
	Rate per cum	Say				₹	887.50

ANTI TERMITE TREATMENT

2.20	Supplying chemical emulsion in sealed containers including delivery as specified.									
2.20.01	Chlorpyriphos/Lindane emulsifiable concentrate of 20%									
Code	Discription	Unit	Quantity		Rate		Rate Amo		Amount	
	Details of cost for 100 litres Chlorpyriphos/Lindane emulsifiable concentrate of 20% MATERIALS:									
02001	Chlorpyriphos E.C.20%	litre	100.00	₹	160.00	₹	16,000.00			
	CARRIAGE:									
0455	Chemical	tonne	0.10	₹	115.30	₹	11.53			
						₹	16,011.53			
	Add GST (multiplying factor)		0.1405			₹	2,249.62			
						₹	18,261.15			
	Add for contractor's profit and overheads	@	15%			₹	2,739.17			
						₹	21,000.32			
	Add cess	@	1%			₹	210.00			
	Cost of supplying 100 litres chemical on site					₹	21,210.32			
	Cost per litre					₹	212.10			
	Rate per litre	Say				₹	212.10			

2.21.1	Along external wall where the apron is not pro		•		•					
	the vertical surface of the substructure to a depth wall & rodding etc. complete:			uding excavation	on channel along					
2.21.1.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.									
Code	Discription	Unit	Quantity	Rate	Amount					
	Details of cost for treatment of 10m. Length along external wall with Chlorpyriphos E.C. 20%									
	MATERIALS:									
	Chlorpyriphos E.C. 1% Concentration 10x0.30x7.50= 22.5litres Chlorpyriphos E.C. 20% Emulsifiable concentrate required = 22.5/20 = 1.125 litres [Cost of chemical paid seperately under Item No. 2.20]									
	LABOUR:									
	For excavating channel									
	Rodding in channel spreading emulsion etc									
0203	Belder	Day	0.33	₹ 310.00	₹ 102.30					
					₹ 102.30					
	Add for hire charges and maintenance of sprayer	@	3%		₹ 3.07					
			101		₹ 105.37					
	Add for Water charges	@	1%		₹ 1.05					
	Add GST (multiplying factor)	+	0.1405		₹ 106.42 ₹ 14.95					
	Add 031 (mattiplying factor)	1	0.1403		₹ 121.37					
	Add for contractor's profit and overheads	@	15%		₹ 18.21					
					₹ 139.58					
	Add cess	@	1%		₹ 1.40					
	Cost of treating of external wall for 10m				₹ 140.98					
	length	1	1							
	Cost per metre Rate per metre	Say			₹ 14.10 ₹ 14.10					
	Inate per metre	Jay	1	<u>l</u>	14.10					
2.21.2	Along the external wall below concrete or mas per linear metre including drilling and plugging		-	hemical emuls	ion @ 2.25 litre					
2.21.2.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.									
Code	Discription	Unit	Quantity	Rate	Amount					
	Details of cost for treatment of 10m. Length	†	1							

Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment

2.21.2	per linear metre including drilling and plugging holes etc.									
2.21.2.1	With Chlorpyriphos/Lindane E.C. 20% with 1% of	oncentr	ation.							
Code	Discription	Unit	Quantity	Rate	Amount					
	Details of cost for treatment of 10m. Length along external wall below apron with Chlorpyriphos E.C. 20%									
	MATERIALS:									
	Chlorpyriphos E.C. 1% Concentration 10x2.25= 22.5litres Chlorpyriphos E.C. 20% Emulsifiable concentrate required = 22.5/20 = 1.125 litres [Cost of chemical paid seperately under Item No. 2.20]									
	LABOUR:									
	1. For drilling 12mm dia. Holes at 300mm c/c with electric drilling machine									

	2. For injecting chemicals after diluiting the same as required and making good the holes with cement mortar						
0203	Belder	Day	0.40	₹	310.00	₹	124.00
						₹	124.00
	Add for hire charges and maintenance of sprayer, cost of cement mortar	@	3%			₹	3.72
						₹	127.72
	Add for Water charges	@	1%			₹	1.28
						₹	129.00
	Add GST (multiplying factor)		0.1405			₹	18.12
						₹	147.12
	Add for contractor's profit and overheads	@	15%			₹	22.07
						₹	169.19
	Add cess	@	1%			₹	1.69
	Cost of treating of external wall below concrete or masonary for 10m length					₹	170.88
	Cost per metre					₹	17.09
	Rate per metre	Say				₹	17.10

2.21.3	Treatment of soil under plinth filling using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with sand filling:							
2.21.3.1	With Chlorpyriphos/Lindane E.C. 20% with 1% c		-					
Code	Discription	Unit	Quantity	Rate	Amount			
	Details of cost for treatment of 9.0 sqm area of soil under plinth filling with Chlorpyriphos E.C. 20% MATERIALS: Area of treatment = 9 sqm							
	No. of holes = 100 Nos. Distance between holes = 300mm Chlorpyriphos E.C. 1% Concentration 100x1 litre per hole= 100litres Chlorpyriphos E.C. 20% Emulsifiable concentrate required = 100/20 = 5 litres [Cost of chemical paid seperately under Item No. 2.20] LABOUR:							
	1. For drilling 12mm dia. Holes at 300mm c/c with electric drilling machine							
	2. For injecting chemicals after diluiting the same as required and making good the holes with cement mortar							
0203	Belder	Day	2.00	₹ 310.00	₹ 620.00			
					₹ 620.00			
	Add for hire charges and maintenance of sprayer & drilling machine	@	3%		₹ 18.60			
	A LIC W. L.		40/		₹ 638.60			
	Add for Water charges	@	1%		₹ 6.39 ₹ 644.99			
	Add GST (multiplying factor)		0.1405		₹ 90.62			
	/ da 331 (manipiying factor)		0.1400		₹ 735.61			
	Add for contractor's profit and overheads	@	15%		₹ 110.34			
					₹ 845.95			
	Add cess	@	1%		₹ 8.46			
	Cost of treating of 9.0 sqm of plinth area				₹ 854.41			
	Cost per sqm				₹ 94.93			

94.90

	Treatment of soil under existing floors using apart including drilling 12 mm diameter holes 2 fine sand) to match the existing floor:				
2.21.4.1	With Chlorpyriphos/Lindane E.C. 20% with 1% c	oncentra	ation.		
Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for treatment of 9.0 sqm area of soil under existing floors with Chlorpyriphos E.C. 20%				
	MATERIALS: Area of treatment = 9 sqm No. of holes = 100 Nos. Distance between holes = 300mm Chlorpyriphos E.C. 1% Concentration 100x1 litre per hole= 100litres Chlorpyriphos E.C. 20% Emulsifiable concentrate required = 100/20 = 5 litres [Cost of chemical paid seperately under Item				
	No. 2.20]				
	LABOUR: 1. For drilling 12mm dia. Holes at 300mm c/c with electric drilling machine				
	For injecting chemicals after diluiting the same as required and making good the holes with cement mortar				
	Mason	Day	0.50	₹ 420.00	₹ 210.00
0203	Belder	Day	2.00	₹ 310.00	₹ 620.00
	Add for hire charges and maintenance of sprayer & drilling machine, cost of cement mortar	@	3%		₹ 830.00 ₹ 24.90
					₹ 854.90
	Add for Water charges	@	1%		₹ 8.55
	1 1 0 0 T (11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.1.105		₹ 863.45
	Add GST (multiplying factor)		0.1405		₹ 121.31 ₹ 984.76
	Add for contractor's profit and overheads	@	15%		₹ 147.71
					₹ 1,132.47
	Add cess	@	1%		₹ 11.32
	Cost of treating of 9.0 sqm of plinth area				₹ 1,143.79
	Cost per sqm	Cov			₹ 127.09 ₹ 127.10
	Rate per sqm	Say		<u> </u>	127.10
	Treatment of existing masonry using chemical including drilling holes at 45° and plugging the to the full depth of the hole: With Chlorpyriphos/Lindane F.C. 20% with 1% of the hole:	em with	cement mo		
Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for treatment of 10 m length of existing masonry with Chlorpyriphos E.C. 20%				
	MATERIALS:				
2.21.5.1 Code	including drilling holes at 45° and plugging the to the full depth of the hole: With Chlorpyriphos/Lindane E.C. 20% with 1% c Discription Details of cost for treatment of 10 m length of existing masonry with Chlorpyriphos E.C. 20%	em with	cement mo	rtar 1:2 (1 cem	

Say

Rate per sqm

	No 6 landar - 24 No	I		1			1
	No. of holes = 34 Nos.						
	Chlorpyriphos E.C. 1% Concentration						
	34x1 litre per hole= 34litres						
	Chlorpyriphos E.C. 20% Emulsifiable						
	concentrate required = 34/20 = 1.70 litres						
	[Cost of chemical paid seperately under Item						
	No. 2.20]						
	LABOUR:						
	1. For drilling Holes at 300mm c/c with						
	electric drilling machine at 45°						
	2. For injecting chemicals after diluiting the						
	same as required and making good the holes						
	with cement mortar						
0218*	Mason	Day	0.05	₹	420.00	₹	21.00
0203	Belder	Day	0.30	₹	310.00	₹	93.00
						₹	114.00
	Add for hire charges and maintenance of						
	sprayer & drilling machine, cost of cement	@	3%			₹	3.42
	mortar						
						₹	117.42
	Add for Water charges	@	1%			₹	1.17
						₹	118.59
	Add GST (multiplying factor)		0.1405			₹	16.66
						₹	135.25
	Add for contractor's profit and overheads	@	15%			₹	20.29
						₹	155.54
	Add cess	@	1%			₹	1.56
	Cost of treating existing masonary for 10.0 m length					₹	157.10
	Cost per m					₹	15.71
	Rate per m	Say				₹	15.70

2.21.6	Treatment at points of contact of wood work oil or kerosene based solution) @ 0.5 litres peangle of 45° at 150 mm centre to centre and sea	er hole	by drilling				
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for treatment of 10 m length on woodwork with Chlorpyriphos E.C. 20%						
	MATERIALS:						
	No. of holes = 68 Nos. Chlorpyriphos E.C. 1% Concentration 68x0.5 litre per hole= 34litres Chlorpyriphos E.C. 20% Emulsifiable concentrate required = 34/20 = 1.70 litres [Cost of chemical paid seperately under Item No. 2.19]						
02004	Kerosene oil 34-1.70 = 32.3 litres	litre	32.30	₹	52.00	₹	1,679.60
	LABOUR: 1. For drilling Holes at 150mm c/c at 45° and sealing same						
0208*	Carpenter	Day	0.20	₹	420.00	₹	84.00
0212	Helper	Day	0.20	₹	310.00	₹	62.00
			004			₹	1,825.60
	Add for Sundries and contingencies	@	3%	-		₹	54.77
	Add for Water charges	@	1%			₹	1,880.37
						₹	1,899.17

Add GST (multiplying factor)		0.1405	₹	266.83
			₹	2,166.00
Add for contractor's profit and overheads	@	15%	₹	324.90
			₹	2,490.90
Add cess	@	1%	₹	24.91
Cost of treating wood work for 10.0 m length			₹	2,515.81
Cost per m			₹	251.58
Rate per m	Say		₹	251.60

Note: For Item No. 2.21

The work will be carried out as per IS: 6313 [Latest Revision].

<u>Under the Insecticides Rule 1971: 10(3A) any person who desires to undertake pest control operations will be a Licence holder.</u>

The agency must complying with all safety health and welfare regulations, appertaining to staff and work people employed on the site.

Keeping the site free from debris arising from the works during the work and leave the site free from debris on completion of work to the satisfaction of the Owner.

The agency shall give a 3-year service guarntee in writing supplemented by a seperate and unilateral guarantee from the specialised agency for the job to keep the building free of termites for the specified period at no extra cost of the Owner.

SUB HEAD: 3.0 MORTARS

Note: These rates are exclusive of sundries & contingencies, water charges, GST, overheads & contractor's profit and cess

- 1. Sand can be either coarse or fine as required/available. Here, provision of fine sand is considered only due to non-availability of coarse sand in Tripura. However, design of mortar dictates for use of coarse sand, then seperate analysis may be made as per site condition.
- 2. Cement and sand can be mixed by hand also if required in small quantity.
- 3. Ordinary cement 33 grade may be used.
- 4. Weight of 1 cum of cement = 1.44 t
- 5. The cement mortar is mixed in a mixer only if large quantities of mortar is required. Otherwise, for all general work labour employed will mix the mortar manually and in such cases the cost towards labour and hire charges of mixer should be deleted and only cost of material is to be taken.

3.1 Cement Mortar

3.1.1	Cement Mortar 1 : 1 (1 cement : 1 fine sand)						
Code	Operational input for preparing 1 cum cement mortar 1:1 proportion	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	(Cement required is 71.25% = 0.7125 cum of cement = 1.026 tonne)						
03001	Cement	tonne	1.026	₹	5,800.00	₹	5,950.80
0421	Carriage of Cement	tonne	1.026	₹	102.47	₹	105.13
02003	Fine sand	cum	0.7125	₹	560.00	₹	399.00
0425	Carriage of Fine sand	cum	0.7125	₹	131.75	₹	93.87
	LABOUR:						
	For measuring, carrying, depositing and mixing						
0216	Foreman	Day	0.25	₹	440.00	₹	110.00
0203	Belder	Day	0.50	₹	310.00	₹	155.00
0205	Bhistri	Day	0.35	₹	310.00	₹	108.50
						₹	373.50
	Cost of 1.00 cum					₹	6,922.30

3.1.2	Cement Mortar 1 : 2 (1 cement : 2 fine sand)						
Code	Operational input for preparing 1 cum cement mortar 1 : 2 proportion	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	(Cement required is 47.5% = 0.475 cum of cement = 0.684 tonne)						
03001	Cement	tonne	0.684	₹	5,800.00	₹	3,967.20
0421	Carriage of Cement	tonne	0.684	₹	102.47	₹	70.09
02003	Fine sand	cum	0.950	₹	560.00	₹	532.00
0425	Carriage of Fine sand	cum	0.950	₹	131.75	₹	125.16
	LABOUR		Same as 3	.1.1	•	₹	373.50
	Cost of 1.00 cum					₹	5,067.95

3.1.3	Cement Mortar 1 : 3 (1 cement : 3 fine sand)				
	Operational input for preparing 1 cum cement mortar 1 : 3 proportion	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				

	(Cement required is 35.70% = 0.357 cum of cement = 0.510tonne)						
03001	Cement	tonne	0.510	₹	5,800.00	₹	2,958.00
0421	Carriage of Cement	tonne	0.510	₹	102.47	₹	52.26
02003	Fine sand	cum	1.070	₹	560.00	₹	599.20
0425	Carriage of Fine sand	cum	1.070	₹	131.75	₹	140.97
	LABOUR	Same as 3.1.1				₹	276.00
	Cost of 1.00 cum					₹	4,026.43

3.1.4	Cement Mortar 1 : 4 (1 cement : 4 fine sand)						
Code	Operational input for preparing 1 cum cement mortar 1 : 4 proportion	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	(Cement required is 26.80% = 0.268 cum of cement = 0.380tonne)						
03001	Cement	tonne	0.380	₹	5,800.00	₹	2,204.00
0421	Carriage of Cement	tonne	0.380	₹	102.47	₹	38.94
02003	Fine sand	cum	1.070	₹	560.00	₹	599.20
0425	Carriage of Fine sand	cum	1.070	₹	131.75	₹	140.97
	LABOUR		Same as 3	.1.1		₹	276.00
	Cost of 1.00 cum	·			•	₹	3,259.11

3.1.5	Cement Mortar 1 : 5 (1 cement : 5 fine sand)						
Code	Operational input for preparing 1 cum cement mortar 1 : 5 proportion	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	(Cement required is 21.40% = 0.214 cum of cement = 0.310tonne)						
03001	Cement	tonne	0.310	₹	5,800.00	₹	1,798.00
0421	Carriage of Cement	tonne	0.310	₹	102.47	₹	31.77
02003	Fine sand	cum	1.070	₹	560.00	₹	599.20
0425	Carriage of Fine sand	cum	1.070	₹	131.75	₹	140.97
	LABOUR		Same as 3	.1.1		₹	276.00
	Cost of 1.00 cum					₹	2,845.94

3.1.6	Cement Mortar 1 : 6 (1 cement : 6 fine sand)						
Code	Operational input for preparing 1 cum cement mortar 1 : 6 proportion	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	(Cement required is 17.80% = 0.178 cum of cement = 0.250tonne)						
03001	Cement	tonne	0.250	₹	5,800.00	₹	1,450.00
0421	Carriage of Cement	tonne	0.250	₹	102.47	₹	25.62
02003	Fine sand	cum	1.070	₹	560.00	₹	599.20
0425	Carriage of Fine sand	cum	1.070	₹	131.75	₹	140.97
	LABOUR		Same as 3	.1.1		₹	276.00
	Cost of 1.00 cum					₹	2,491.79

3.2 Cement Stone Dust Mortar

3.2.1	Cement Stone Dust Mortar 1 : 2 (1 cement : 2	Stone dus	t)				
Code	Operational input for preparing 1 cum cement stone dust mortar 1 : 2 proportion	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	(Cement required is 47.5% = 0.475 cum of cement = 0.684 tonne)						
03001	Cement	tonne	0.684	₹	5,800.00	₹	3,967.20
0421	Carriage of Cement	tonne	0.684	₹	102.47	₹	70.09
02003	Stone dust	cum	0.950	₹	2,400.00	₹	2,280.00
0425	Carriage of stone dust	cum	0.950	₹	120.56	₹	114.53
	LABOUR		Same as 3	.1.1		₹	276.00
	Cost of 1.00 cum					₹	6,707.82

3.3 Cement Marble Dust Mortar

3.3.1	Cement Marble Dust Mortar 1 : 2 (1 cement : 2	2 Marble c	dust)				
Code	Operational input for preparing 1 cum cement marble dust mortar 1 : 2 proportion	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	(Cement required is 47.5% = 0.475 cum of cement = 0.684 tonne)						
03001	Cement	tonne	0.684	₹	5,800.00	₹	3,967.20
0421	Carriage of Cement	tonne	0.684	₹	102.47	₹	70.09
03005	Marble dust	cum	0.950	₹	3,600.00	₹	3,420.00
0470	Carriage of Marble dust	cum	0.950	₹	120.56	₹	114.53
	LABOUR		Same as 3	.1.1		₹	276.00
	Cost of 1.00 cum					₹	7,847.82

3.3.2	Cement Marble Dust Mortar 1 : 5 (1 cement : 5	Marble o	dust)				
Code	Operational input for preparing 1 cum cement marble dust mortar 1 : 5 proportion	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	(Cement required is 21.4% = 0.214 cum of cement = 0.31 tonne)						
03001	Cement	tonne	0.310	₹	5,800.00	₹	1,798.00
0421	Carriage of Cement	tonne	0.310	₹	102.47	₹	31.77
03005	Marble dust	cum	1.070	₹	3,600.00	₹	3,852.00
0470	Carriage of Marble dust	cum	1.070	₹	120.56	₹	129.00
	LABOUR		Same as 3	.1.1		₹	276.00
	Cost of 1.00 cum					₹	6,086.77

3.4 White Cement Marble Dust Mortar

3.4.1	White Cement Marble Dust Mortar 1 : 2 (1 White cement : 2 Marble dust)								
Code	Operational input for preparing 1 cum white cement marble dust mortar 1 : 2 proportion	Unit	Quantity		Rate	Amount			
	Details of cost for 1 cum								
	MATERIALS								
	(White Cement required is 47.5% = 0.475 cum of cement = 0.684 tonne)								
03002	White Cement	tonne	0.684	₹	12,400.00	₹	8,481.60		
0421	Carriage of White Cement	tonne	0.684	₹	102.47	₹	70.09		
03005	Marble dust	cum	0.950	₹	3,600.00	₹	3,420.00		
0470	Carriage of Marble dust	cum	0.950	₹	120.56	₹	114.53		
	LABOUR	Same as 3.1.1				₹	276.00		
	Cost of 1.00 cum					₹	12,362.22		

3.4.2	White Cement Marble Dust Mortar 1 : 3 (1 White cement : 3 Marble dust)								
Code	Operational input for preparing 1 cum white cement marble dust mortar 1 : 3 proportion	Unit	Quantity		Rate	Amount			
	Details of cost for 1 cum								
	MATERIALS								
	(White Cement required is 35.7% = 0.357 cum of cement = 0.51 tonne)								
03002	White Cement	tonne	0.510	₹	12,400.00	₹	6,324.00		
0421	Carriage of White Cement	tonne	0.510	₹	102.47	₹	52.26		
03005	Marble dust	cum	1.070	₹	3,600.00	₹	3,852.00		
0470	Carriage of Marble dust	cum	1.070	₹	120.56	₹	129.00		
	LABOUR	Same as 3.1.1				₹	276.00		
	Cost of 1.00 cum					₹	10,633.26		

3.4.3	White Cement Marble Dust Mortar 1 : 5 (1 White cement : 5 Marble dust)							
Code	Operational input for preparing 1 cum white cement marble dust mortar 1 : 5 proportion	Unit	Quantity		Rate	Amount		
	Details of cost for 1 cum							
	MATERIALS							
	(White Cement required is 21.4% = 0.214 cum of cement = 0.31 tonne)							
03002	White Cement	tonne	0.310	₹	12,400.00	₹	3,844.00	
0421	Carriage of White Cement	tonne	0.310	₹	102.47	₹	31.77	
03005	Marble dust	cum	1.070	₹	3,600.00	₹	3,852.00	
0470	Carriage of Marble dust	cum	1.070	₹	120.56	₹	129.00	
	LABOUR	Same as 3.1.1				₹	276.00	
	Cost of 1.00 cum					₹	8,132.77	

Note:

Add extra @ 5% for labour charges & hire charges, water charges, sundries and contingencies in case of mechanical mixing of mortar.

3.5 Mud Mortar

Code	Operational input for preparing 1 cum mud mortar	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
03006	Mud (dry)	cum	1.200	₹	35.00	₹	42.00
0429	Carriage of Mud	tonne	1.920	₹	170.79	₹	327.92
	LABOUR						
	For breaking clods, puddling, watering, mixing						
0224	Mate	shift	0.200	₹	310.00	₹	62.00
0203	Belder	shift	1.200	₹	310.00	₹	372.00
0205	Waterman	shift	0.200	₹	310.00	₹	62.00
						₹	865.92
	Add for Sundries & Contingencies	@	3%			₹	25.98
	Cost of 1.00 cum				·	₹	891.90

SUB HEAD : 4.0 CONCRETE WORK

Note:

- 1. Sand can be either coarse or fine as required/available. Here, provision of fine sand is considered only due to non-availability of coarse sand in Tripura. However, design of concrete dictates for use of coarse sand, then seperate analysis may be made as per site condition.
- 2. The quantities of Cement, sand and coarse aggregates are as per Table No. 3.2.
- 3. Cement concrete with volumetric mix proportion cannot be termed as concrete of specific grade, because as per IS Code, only the design mix grades of concrete are specified as concrete grade M-15, concrete grade M-20 etc. Hence in this case it should be mix proportion 1:1:2, 1:2:4 etc. for batching with specified proportion.
- 4. The calculations are based on the assumption that 20 cum. to 25 cum. concrete would be laid in a day.
- 5. The provision of waterman is mainly for feeding water for mixing and other water requirements during concreting.
- 6. The expenses for curing will be covered by the provision of Water Charges.

	CEMENT CONCRETE [CAST-IN-SITU] ON	IDINARY	MIX-UPTO	PLII	NTH LEVEL		
4.1	Providing and laying in position cement concreentring and shuttering -	ete of sp	ecified grad	de e	xcluding th	e cc	st of
	-All work upto plinth level:						
4.1.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone ag	gregate 2	20 mm nom	inal	size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.675	₹	4,875.00	₹	3,290.63
04007	Stone aggregate 12mm	cum	0.225	₹	4,785.00	₹	1,076.63
02003	Fine sand	cum	0.45	₹	560.00	₹	252.00
03001	Cement	tonne	0.61	₹	5,800.00	₹	3,538.00
	CARRIAGE						
0405	Stone aggregate	cum	0.9	₹	147.57	₹	132.81
0425	Fine sand	cum	0.45	₹	131.75	₹	59.29
0421	Cement	tonne	0.61	₹	102.47	₹	62.51
	LABOUR:						
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	29.00
						₹	9,313.32
	Add for water charges	@	1.0%			₹	93.13
						₹	9,406.45
	Add GST (multiplying factor)		0.1405			₹	1,321.61
	riad eer (manipiying lacter)		011100			₹	10,728.06
	Add for contractor's profit and overheads	@	15%			₹	1,609.21
						₹	12,337.27
	Add cess	@	1%			₹	123.37
	Cost of providing and laying 1 cum. of cement concrete					₹	12,460.64
	Rate per cum.	Say				₹	12,460.60

4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -										
	-All work upto plinth level:										
4.1.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)										
Code	Discription	Unit	Quantity	Rate	Amount						
	Details of cost for 1 cum										
	MATERIALS										
04006	Stone aggregate 20mm	cum	0.6615	₹ 4,875.00	₹ 3,224.81						
04007	Stone aggregate 12mm	cum	0.2205	₹ 4,785.00	₹ 1,055.09						
02003	Fine sand	cum	0.441	₹ 560.00	₹ 246.96						

Code	Discription	Unit	Quantity		Rate		Amount
03001	Cement	tonne	0.40	₹	5,800.00	₹	2,320.00
	CARRIAGE						
0405	Stone aggregate	cum	0.882	₹	147.57	₹	130.16
0425	Fine sand	cum	0.441	₹	131.75	₹	58.10
0421	Cement	tonne	0.40	₹	102.47	₹	40.99
	LABOUR:						
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	29.00
						₹	7,977.56
	Add for water charges	@	1.0%			₹	79.78
						₹	8,057.34
	Add GST (multiplying factor)		0.1405			₹	1,132.06
						₹	9,189.40
	Add for contractor's profit and overheads	@	15%			₹	1,378.41
						₹	10,567.81
	Add cess	@	1%			₹	105.68
	Cost of providing and laying 1 cum. of cement concrete					₹	10,673.49
	Rate per cum.	Say				₹	10,673.50

4.1	Providing and laying in position cement concreentring and shuttering -	ete of sp	ecified grad	de e	xcluding th	e cc	ost of
	-All work upto plinth level:						
4.1.3	1:2:4 (1 Cement: 2 fine sand: 4 graded stone ag	ggregate 2	20 mm nom	inal	size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.705	₹	4,875.00	₹	3,436.88
04007	Stone aggregate 12mm	cum	0.235	₹	4,785.00	₹	1,124.48
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Stone aggregate	cum	0.94	₹	147.57	₹	138.72
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.32	₹	102.47	₹	32.79
	LABOUR:						
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	29.00
						₹	7,815.44
	Add for water charges	@	1.0%			₹	78.15
						₹	7,893.59
	Add GST (multiplying factor)		0.1405			₹	1,109.05
	. 1 3 3 7					₹	9,002.64
	Add for contractor's profit and overheads	@	15%			₹	1,350.40
						₹	10,353.04
	Add cess	@	1%			₹	103.53

Code	Discription	Unit	Quantity	Rate	Amount
	Cost of providing and laying 1 cum. of cement concrete				₹ 10,456.57
	Rate per cum.	Say			₹ 10,456.60

4.1	Providing and laying in position cement concicentring and shuttering -	ete of sp	ecified grad	de e	xcluding th	e co	st of
	-All work upto plinth level:						
4.1.4	1:2:4 (1 Cement: 2 fine sand: 4 graded stone ag	ggregate 4	10 mm nom	inal	size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04004	Stone aggregate 40mm	cum	0.544	₹	4,692.00	₹	2,552.45
04006	Stone aggregate 20mm	cum	0.241	₹	4,875.00	₹	1,174.88
04007	Stone aggregate 12mm	cum	0.126	₹	4,785.00	₹	602.91
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0404	Stone aggregate 40mm	cum	0.544	₹	159.56	₹	86.80
0405	Stone aggregate 20mm and 12mm	cum	0.367	₹	147.57	₹	54.16
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.32	₹	102.47	₹	32.79
	LABOUR:						
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	28.00
						₹	7,585.56
	Add for water charges	@	1.0%			₹	75.86
						₹	7,661.42
	Add GST (multiplying factor)		0.1405			₹	1,076.43
	i tala a a v (a.a.p. jg talata)					₹	8,737.85
	Add for contractor's profit and overheads	@	15%			₹	1,310.68
			<u> </u>			₹	10,048.53
	Add cess	@	1%			₹	100.49
	Cost of providing and laying 1 cum. of cement concrete					₹	10,149.02
	Rate per cum.	Say				₹	10,149.00

4.1	Providing and laying in position cement conceentring and shuttering -	rete of spe	ecified grad	de e	xcluding th	e cc	st of		
	-All work upto plinth level:								
4.1.5	1:3:6 (1 Cement: 3 fine sand : 6 graded stone aggregate 20 mm nominal size)								
Code	Discription	Unit	Quantity		Rate		Amount		
	Details of cost for 1 cum								
	MATERIALS								
04006	Stone aggregate 20mm	cum	0.727	₹	4,875.00	₹	3,544.13		
04007	Stone aggregate 12mm	cum	0.242	₹	4,785.00	₹	1,157.97		
02003	Fine sand	cum	0.485	₹	560.00	₹	271.60		
03001	Cement	tonne	0.22	₹	5,800.00	₹	1,276.00		
	CARRIAGE								
0405	Stone aggregate	cum	0.969	₹	147.57	₹	143.00		
0425	Fine sand	cum	0.485	₹	131.75	₹	63.90		
0421	Cement	tonne	0.22	₹	102.47	₹	22.54		
	LABOUR:				<u> </u>		<u> </u>		

	Discription	Unit	Quantity		Rate		Amount
0010*	· ·		0.100	<u>x</u>		-	
	Mason Beldar (M)	Day Day	1.63	₹	420.00 310.00	₹	42.00 505.30
	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	27.00
	Add for chate, ladders etc [E.s.]					₹	7,378.59
	Add for water charges	@	1.0%			₹	73.79
	ridd for Water Gridiges		1.0%			₹	7,452.38
	Add GST (multiplying factor)		0.1405			₹	1,047.06
	riad 30 (manupiying ractor)		000			₹	8,499.44
			1 = 0/				
	Add for contractor's profit and overheads	@	15%			₹	1,274.92
						₹	9,774.36
	Add cess	@	1%			₹	97.74
	Cost of providing and laying 1 cum. of cement					₹	9,872.10
	concrete	0.					
	Rate per cum.	Say			. 1 . 12 11.	₹	9,872.10
4.1	Providing and laying in position cement concr centring and shuttering -	ete or sp	ecified grad	de ex	xcluaing th	e co	OST OT
	· · ·						
4.1.6	-All work upto plinth level: 1:3:6 (1 Cement: 3 fine sand : 6 graded stone ag	aroanto A	10 mm nom	inal	ciao)		
4.1.0	1.5.6 (1 Cerrierit. 5 fine sand . 6 graded stone ag	gregate 4	T	IIIai	SIZE)	I	
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	Stone aggregate 40mm	cum	0.672	₹	4,692.00	₹	3,153.02
	Stone aggregate 20mm	cum	0.262	₹	4,875.00	₹	1,277.25
	Fine sand	cum	0.485	₹	560.00	₹	271.60
	Cement CARRIAGE	tonne	0.22	₹	5,800.00	₹	1,276.00
		CLIM	0.672	₹	159.56	₹	107.22
	Stone aggregate 40mm Stone aggregate 20mm	cum	0.872	₹	147.57	₹	38.66
	Fine sand	cum	0.285	₹	131.75		63.90
0423	Cement	tonne	0.403	₹	102.47	₹	22.54
0121	LABOUR:	tornic	0.22	Ì	102.17	`	22.01
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	27.00
						₹	7,109.64
	Add for water charges	@	1.0%			₹	71.10
						₹	7,180.74
	Add GST (multiplying factor)		0.1405			₹	1,008.89
	Add GST (multiplying factor)		0.1405			₹	1,008.89 8,189.63
	Add GST (multiplying factor) Add for contractor's profit and overheads	@	0.1405				
		@				₹	8,189.63
		@				₹	8,189.63 1,228.44 9,418.07
	Add for contractor's profit and overheads		15%			₹	8,189.63 1,228.44

Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -

Code	Discription	Unit	Quantity		Rate		Amount
	-All work upto plinth level:		•				
4.1.7	1:4:8 (1 Cement: 4 fine sand: 8 graded stone ag	ggregate 4	0 mm nom	inal	size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum		1				
	MATERIALS						
04004	Stone aggregate 40mm	cum	0.6883	₹	4,692.00	₹	3,229.50
04006	Stone aggregate 20mm	cum	0.275	₹	4,875.00	₹	1,340.63
02003	Fine sand	cum	0.5	₹	560.00	₹	280.00
03001	Cement	tonne	0.17	₹	5,800.00	₹	986.00
	CARRIAGE						
0404	Stone aggregate 40mm	cum	0.6883	₹	159.56	₹	109.83
0405	Stone aggregate 20mm	cum	0.275	₹	147.57	₹	40.58
0425	Fine sand	cum	0.5	₹	131.75	₹	65.88
0421	Cement	tonne	0.17	₹	102.47	₹	17.42
	LABOUR:						
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]		1			₹	27.00
						₹	6,969.29
	Add for water charges	@	1.0%			₹	69.69
						₹	7,038.98
	Add GST (multiplying factor)		0.1405			₹	988.98
	riad of (martiplying lactor)		011100			₹	8,027.96
	Add for contractor's profit and overheads	@	15%			₹	1,204.19
						₹	9,232.15
	Add cess	@	1%			₹	92.32
	Cost of providing and laying 1 cum. of cement concrete					₹	9,324.47
	Rate per cum.	Say				₹	9,324.50

4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -									
	-All work upto plinth level:									
4.1.7	1:5:10 (1 Cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size)									
Code	Discription	Unit	Quantity		Rate		Amount			
	Details of cost for 1 cum									
	MATERIALS									
04004	Stone aggregate 40mm	cum	0.6623	₹	4,692.00	₹	3,107.51			
04006	Stone aggregate 20mm	cum	0.2583	₹	4,875.00	₹	1,259.21			
02003	Fine sand	cum	0.475	₹	560.00	₹	266.00			
03001	Cement	tonne	0.13	₹	5,800.00	₹	754.00			
	CARRIAGE									
0404	Stone aggregate 40mm	cum	0.6623	₹	159.56	₹	105.68			
0405	Stone aggregate 20mm	cum	0.2583	₹	147.57	₹	38.12			
0425	Fine sand	cum	0.475	₹	131.75	₹	62.58			
0421	Cement	tonne	0.13	₹	102.47	₹	13.32			
	LABOUR:									
0218*	Mason	Day	0.100	₹	420.00	₹	42.00			
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30			
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00			
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50			

Code	Discription	Unit	Quantity	Rate	Amount
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹ 395.00	₹ 27.65
	Add for chute, ladders etc [L.S.]				₹ 27.00
					₹ 6,505.87
	Add for water charges	@	1.0%		₹ 65.06
					₹ 6,570.93
	Add GST (multiplying factor)		0.1405		₹ 923.22
					₹ 7,494.15
	Add for contractor's profit and overheads	@	15%		₹ 1,124.12
					₹ 8,618.27
	Add cess	@	1%		₹ 86.18
	Cost of providing and laying 1 cum. of cement concrete				₹ 8,704.45
	Rate per cum.	Say			₹ 8,704.50

4.1	Providing and laying in position cement concrete of specified grade excluding the cost of									
•••	centring and shuttering -									
4.4.0	-All work upto plinth level:			· · · · ·		.!\				
4.1.8	1:1:2 (1 Cement: 1 fine sand : 2 graded well bur	nt brick a	aggregate 20	J mr	n nominai s	ize)				
Code	Discription	Unit	Quantity		Rate		Amount			
	Details of cost for 1 cum									
	MATERIALS									
04002	Brick aggregate 20mm	cum	0.675	₹	3,957.00	₹	2,670.98			
04003	Brick aggregate 12mm	cum	0.225	₹	3,880.00	₹	873.00			
02003	Fine sand	cum	0.45	₹	560.00	₹	252.00			
03001	Cement	tonne	0.61	₹	5,800.00	₹	3,538.00			
	CARRIAGE									
0405	Brick aggregate	cum	0.9	₹	147.57	₹	132.81			
0425	Fine sand	cum	0.45	₹	131.75	₹	59.29			
0421	Cement	tonne	0.61	₹	102.47	₹	62.51			
	LABOUR:									
0218*	Mason	Day	0.100	₹	420.00	₹	42.00			
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30			
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00			
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50			
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65			
	Add for chute, ladders etc [L.S.]					₹	29.00			
						₹	8,490.04			
	Add for water charges	@	1.0%			₹	84.90			
						₹	8,574.94			
	Add GST (multiplying factor)		0.1405			₹	1,204.78			
						₹	9,779.72			
	Add for contractor's profit and overheads	@	15%			₹	1,466.96			
						₹	11,246.68			
	Add cess	@	1%			₹	112.47			
	Cost of providing and laying 1 cum. of cement concrete					₹	11,359.15			
	Rate per cum.	Say				₹	11,359.20			

4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -
	-All work upto plinth level:
4.1.9	1:1½:3 (1 Cement: 1½ fine sand : 3 graded well burnt brick aggregate 20 mm nominal size)

Code	Discription	Unit	Quantity		Rate		Amount
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04002	Brick aggregate 20mm	cum	0.6615	₹	3,957.00	₹	2,617.56
04003	Brick aggregate 12mm	cum	0.2205	₹	3,880.00	₹	855.54
02003	Fine sand	cum	0.441	₹	560.00	₹	246.96
03001	Cement	tonne	0.40	₹	5,800.00	₹	2,320.00
	CARRIAGE						
0405	Brick aggregate	cum	0.882	₹	147.57	₹	130.16
0425	Fine sand	cum	0.441	₹	131.75	₹	58.10
0421	Cement	tonne	0.40	₹	102.47	₹	40.99
	LABOUR:						
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	29.00
						₹	7,170.76
	Add for water charges	@	1.0%			₹	71.71
						₹	7,242.47
	Add GST (multiplying factor)		0.1405			₹	1,017.57
	, , , ,					₹	8,260.04
	Add for contractor's profit and overheads	@	15%			₹	1,239.01
						₹	9,499.05
	Add cess	@	1%			₹	94.99
	Cost of providing and laying 1 cum. of cement concrete					₹	9,594.04
	Rate per cum.	Say				₹	9,594.00

4.1	Providing and laying in position cement concreenting and shuttering -	ete of sp	ecified grad	de e	xcluding th	е со	st of
	-All work upto plinth level:						
4.1.10	1:2:4 (1 Cement: 2 fine sand: 4 graded well bur	nt brick a	aggregate 20) mr	m nominal s	ize)	
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04002	Brick aggregate 20mm	cum	0.705	₹	3,957.00	₹	2,789.69
04003	Brick aggregate 12mm	cum	0.235	₹	3,880.00	₹	911.80
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Brick aggregate	cum	0.94	₹	147.57	₹	138.72
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.32	₹	102.47	₹	32.79
	LABOUR:						
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	29.00
						₹	6,955.57
	Add for water charges	@	1.0%			₹	69.56

Code	Discription	Unit	Quantity	Rate		Amount
					₹	7,025.13
	Add GST (multiplying factor)		0.1405		₹	987.03
					₹	8,012.16
	Add for contractor's profit and overheads	@	15%		₹	1,201.82
					₹	9,213.98
	Add cess	@	1%		₹	92.14
	Cost of providing and laying 1 cum. of cement concrete				₹	9,306.12
	Rate per cum.	Say			₹	9,306.10

4.1	Providing and laying in position cement concr	ete of sp	ecified grad	de e	xcluding th	е со	st of
	centring and shuttering -						
	-All work upto plinth level:						
4.1.11	1:2:4 (1 Cement: 2 fine sand : 4 graded well bur	nt brick a	nggregate 40) mr	n nominal s	ize)	
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04001	Brick aggregate 40mm	cum	0.544	₹	3,452.00	₹	1,877.89
04002	Brick aggregate 20mm	cum	0.241	₹	3,957.00	₹	953.64
04003	Brick aggregate 12mm	cum	0.126	₹	3,880.00	₹	488.88
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE				•		•
0404	Brick aggregate 40mm	cum	0.544	₹	159.56	₹	86.80
0405	Brick aggregate 20mm and 12mm	cum	0.367	₹	147.57	₹	54.16
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.32	₹	102.47	₹	32.79
	LABOUR:						<u> </u>
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	28.00
						₹	6,575.73
	Add for water charges	@	1.0%			₹	65.76
						₹	6,641.49
	Add GST (multiplying factor)		0.1405			₹	933.13
						₹	7,574.62
	Add for contractor's profit and overheads	@	15%			₹	1,136.19
						₹	8,710.81
	Add cess	@	1%			₹	87.11
	Cost of providing and laying 1 cum. of cement concrete					₹	8,797.92
	Rate per cum.	Say				₹	8,797.90

4.1	Providing and laying in position cement concicentring and shuttering -	ete of spe	ecified grad	de exclu	iding th	e co	st of			
	-All work upto plinth level:									
4.1.12	1:3:6 (1 Cement: 3 fine sand : 6 graded well burnt brick aggregate 20 mm nominal size)									
Code	Discription	Unit	Quantity	R	ate		Amount			
	Details of cost for 1 cum									
	MATERIALS									
04002	Brick aggregate 20mm	cum	0.727	₹ 3,	,957.00	₹	2,876.74			
04003	Brick aggregate 12mm	cum	0.242	₹ 3,	,880.00	₹	938.96			

Code	Discription	Unit	Quantity		Rate		Amount
02003	Fine sand	cum	0.485	₹	560.00	₹	271.60
03001	Cement	tonne	0.22	₹	5,800.00	₹	1,276.00
	CARRIAGE						
0405	Brick aggregate	cum	0.969	₹	147.57	₹	143.00
0425	Fine sand	cum	0.485	₹	131.75	₹	63.90
0421	Cement	tonne	0.22	₹	102.47	₹	22.54
	LABOUR:						
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	27.00
						₹	6,492.19
	Add for water charges	@	1.0%			₹	64.92
						₹	6,557.11
	Add GST (multiplying factor)		0.1405			₹	921.27
						₹	7,478.38
	Add for contractor's profit and overheads	@	15%			₹	1,121.76
						₹	8,600.14
	Add cess	@	1%			₹	86.00
	Cost of providing and laying 1 cum. of cement concrete					₹	8,686.14
	Rate per cum.	Say				₹	8,686.10

4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -									
	-All work upto plinth level:									
4.1.13	1:3:6 (1 Cement: 3 fine sand: 6 graded well bur	nt brick a	nggregate 40) mr	m nominal s	ize)				
Code	Discription	Unit	Quantity		Rate		Amount			
	Details of cost for 1 cum									
	MATERIALS									
04001	Brick aggregate 40mm	cum	0.672	₹	3,452.00	₹	2,319.74			
04002	Brick aggregate 20mm	cum	0.262	₹	3,957.00	₹	1,036.73			
02003	Fine sand	cum	0.485	₹	560.00	₹	271.60			
03001	Cement	tonne	0.22	₹	5,800.00	₹	1,276.00			
	CARRIAGE									
0404	Brick aggregate 40mm	cum	0.672	₹	159.56	₹	107.22			
0405	Brick aggregate 20mm	cum	0.262	₹	147.57	₹	38.66			
0425	Fine sand	cum	0.485	₹	131.75	₹	63.90			
0421	Cement	tonne	0.22	₹	102.47	₹	22.54			
	LABOUR:									
0218*	Mason	Day	0.100	₹	420.00	₹	42.00			
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30			
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00			
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50			
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65			
	Add for chute, ladders etc [L.S.]					₹	27.00			
						₹	6,035.84			
	Add for water charges	@	1.0%			₹	60.36			
	İ					₹	6,096.20			
	Add GST (multiplying factor)		0.1405			₹	856.52			
						₹	6,952.72			
	Add for contractor's profit and overheads	@	15%			₹	1,042.91			

Code	Discription	Unit	Quantity	Rate		Amount
					₹	7,995.63
	Add cess	@	1%		₹	79.96
	Cost of providing and laying 1 cum. of cement concrete				₹	8,075.59
	Rate per cum.	Say			₹	8,075.60

4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -								
	-All work upto plinth level:								
4.1.14	1:4:8 (1 Cement: 4 fine sand: 8 graded well bur	nt brick a	aggregate 40	0 mr	m nominal s	size)			
Code	Discription	Unit	Quantity		Rate A		Amount		
	Details of cost for 1 cum								
	MATERIALS								
04001	Brick aggregate 40mm	cum	0.6883	₹	3,452.00	₹	2,376.01		
04002	Brick aggregate 20mm	cum	0.275	₹	3,957.00	₹	1,088.18		
02003	Fine sand	cum	0.5	₹	560.00	₹	280.00		
03001	Cement	tonne	0.17	₹	5,800.00	₹	986.00		
	CARRIAGE								
0404	Brick aggregate 40mm	cum	0.6883	₹	159.56	₹	109.83		
0405	Brick aggregate 20mm	cum	0.275	₹	147.57	₹	40.58		
0425	Fine sand	cum	0.5	₹	131.75	₹	65.88		
0421	Cement	tonne	0.17	₹	102.47	₹	17.42		
	LABOUR:								
0218*	Mason	Day	0.100	₹	420.00	₹	42.00		
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30		
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00		
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50		
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65		
	Add for chute, ladders etc [L.S.]					₹	27.00		
						₹	5,863.35		
	Add for water charges	@	1.0%			₹	58.63		
	July 1					₹	5,921.98		
	Add GST (multiplying factor)		0.1405			₹	832.04		
	riad cor (marriphyring ractor)		0.1100			₹	6,754.02		
	Add for contractor's profit and overheads	@	15%			₹	1,013.10		
						₹	7,767.12		
	Add cess	@	1%			₹	77.67		
	Cost of providing and laying 1 cum. of cement concrete					₹	7,844.79		
	Rate per cum.	Say				₹	7,844.80		

4.1	Providing and laying in position cement conc centring and shuttering -	rete of sp	ecified grad	de e	xcluding th	e co	st of			
	-All work upto plinth level:									
4.1.7	1:5:10 (1 Cement: 5 fine sand : 10 graded well burnt brick aggregate 40 mm nominal size)									
Code	Discription	Unit	Quantity	Rate			Amount			
	Details of cost for 1 cum									
	MATERIALS									
04001	Brick aggregate 40mm	cum	0.6623	₹	3,452.00	₹	2,286.26			
04002	Brick aggregate 20mm	cum	0.2583	₹	3,957.00	₹	1,022.09			
02003	Fine sand	cum	0.475	₹	560.00	₹	266.00			
03001	Cement	tonne	0.13	₹	5,800.00	₹	754.00			
	CARRIAGE									
0404	Brick aggregate 40mm	cum	0.6623	₹	159.56	₹	105.68			
0405	Brick aggregate 20mm	cum	0.2583	₹	147.57	₹	38.12			
0425	Fine sand	cum	0.475	₹	131.75	₹	62.58			

Code	Discription	Unit	Quantity		Rate		Amount
0421	Cement	tonne	0.13	₹	102.47	₹	13.32
	LABOUR:						
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	1.63	₹	310.00	₹	505.30
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for chute, ladders etc [L.S.]					₹	27.00
						₹	5,447.50
	Add for water charges	@	1.0%			₹	54.48
						₹	5,501.98
	Add GST (multiplying factor)		0.1405			₹	773.03
						₹	6,275.01
	Add for contractor's profit and overheads	@	15%			₹	941.25
						₹	7,216.26
	Add cess	@	1%			₹	72.16
	Cost of providing and laying 1 cum. of cement concrete					₹	7,288.42
	Rate per cum.	Say				₹	7,288.40

	CEMENT CONCRETE [CAST-IN-SITU] ON	DINARY	MIX IN SUF	PERS	TRUCTURE					
4.2	Providing and laying cement concrete in retaining walls, return walls (any thick-ness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc. upto floor five level, excluding the cost of centring shuttering and finishing -									
4.2.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone ag	ggregate 2	20 mm nom	inal	size)					
Code	Discription	Unit	Quantity		Rate Amount					
	Details of cost for 1 cum									
	MATERIALS									
04006	Stone aggregate 20mm	cum	0.675	₹	4,875.00	₹	3,290.63			
04007	Stone aggregate 12mm	cum	0.225	₹	4,785.00	₹	1,076.63			
02003	Fine sand	cum	0.45	₹	560.00	₹	252.00			
03001	Cement	tonne	0.61	₹	5,800.00	₹	3,538.00			
	CARRIAGE									
0405	Stone aggregate	cum	0.9	₹	147.57	₹	132.81			
0425	Fine sand	cum	0.45	₹	131.75	₹	59.29			
0421	Cement	tonne	0.61	₹	102.47	₹	62.51			
	LABOUR:									
0218*	Mason	Day	0.120	₹	420.00	₹	50.40			
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00			
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60			
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00			
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50			
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65			
						₹	9,891.02			
	Add for Scaffoldings & sundries [LS]					₹	320.00			
	<u> </u>					₹	10,211.02			
	Add for water charges	@	1.0%			₹	102.11			
	3-2	_				₹	10,313.13			
	Add GST (multiplying factor)		0.1405	t		₹	1,448.99			
	riac con (maniprying ractor)		3.1 100			₹	11,762.12			
	Add for contractor's profit and overheads	@	15%			₹	1,764.32			

Code	Discription	Unit	Quantity	Rate		Amount
					₹	13,526.44
	Add cess	@	1%		₹	135.26
	Cost of providing and laying 1 cum. of cement concrete				₹	13,661.70
	Rate per cum.	Say			₹	13,661.70

4.2	Providing and laying cement concrete in retain attached pilasters, columns, piers, abutmets, pcourses, parapets, coping bed blocks, anchor lupto floor five level, excluding the cost of cen	oillars, po blocks, pl	sts, struts, ain windov	butt v sil	tresses, stri Is, fillets, su	ng d	or lacing				
4.2.2	2 1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)										
Code	Discription	Unit	Quantity		Rate	te Amoui					
	Details of cost for 1 cum										
	MATERIALS										
04006	Stone aggregate 20mm	cum	0.6615	₹	4,875.00	₹	3,224.81				
04007	Stone aggregate 12mm	cum	0.2205	₹	4,785.00	₹	1,055.09				
02003	Fine sand	cum	0.441	₹	560.00	₹	246.96				
03001	Cement	tonne	0.40	₹	5,800.00	₹	2,320.00				
	CARRIAGE										
0405	Stone aggregate	cum	0.882	₹	147.57	₹	130.16				
0425	Fine sand	cum	0.441	₹	131.75	₹	58.10				
0421	Cement	tonne	0.40	₹	102.47	₹	40.99				
	LABOUR:										
0218*	Mason	Day	0.120	₹	420.00	₹	50.40				
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00				
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60				
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00				
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50				
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65				
						₹	8,555.26				
	Add for Scaffoldings & sundries [LS]					₹	320.00				
	January 1, 1					₹	8,875.26				
	Add for water charges	@	1.0%			₹	88.75				
	rida for Water Grianges		1.070			₹	8,964.01				
	Add GST (multiplying factor)		0.1405			₹	1,259.44				
	rida 331 (martiprying factor)		0.1400			₹	10,223.45				
	Add for contractor's profit and overheads	@	15%			₹	1,533.52				
			†			₹	11,756.97				
	Add cess	@	1%			₹	117.57				
	Cost of providing and laying 1 cum. of cement concrete					₹	11,874.54				
	Rate per cum.	Say		Ì		₹	11,874.50				

4.2	Providing and laying cement concrete in retaining walls, return walls (any thick-ness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc. upto floor five level, excluding the cost of centring shuttering and finishing -										
4.2.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)										
Code	Discription	Unit	Quantity	Rate	Amount						
	Details of cost for 1 cum										
	MATERIALS										
04006	Stone aggregate 20mm	cum	0.705	₹ 4,875.00	₹ 3,436.88						
04007	Stone aggregate 12mm	cum	0.235	₹ 4,785.00	₹ 1,124.48						
02003	Fine sand	cum	0.47	₹ 560.00	₹ 263.20						

Code	Discription	Unit	Quantity		Rate		Amount
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Stone aggregate	cum	0.94	₹	147.57	₹	138.72
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.32	₹	102.47	₹	32.79
	LABOUR:						
0218*	Mason	Day	0.120	₹	420.00	₹	50.40
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
						₹	8,393.14
	Add for Scaffoldings & sundries [LS]					₹	320.00
						₹	8,713.14
	Add for water charges	@	1.0%			₹	87.13
						₹	8,800.27
	Add GST (multiplying factor)		0.1405			₹	1,236.44
						₹	10,036.71
	Add for contractor's profit and overheads	@	15%			₹	1,505.51
						₹	11,542.22
	Add cess	@	1%			₹	115.42
	Cost of providing and laying 1 cum. of cement concrete					₹	11,657.64
	Rate per cum.	Say				₹	11,657.60

4.2	Providing and laying cement concrete in retain attached pilasters, columns, piers, abutmets, p courses, parapets, coping bed blocks, anchor l upto floor five level, excluding the cost of cen	oillars, po olocks, pl	sts, struts, ain windov	butt v sil	tresses, stri Is, fillets, su	ng c	or lacing
4.2.4	1:2:4 (1 Cement: 2 fine sand : 4 graded stone ag	ggregate 4	0 mm nom	inal	size)		
Code	Discription	Unit	Quantity		Rate A		Amount
	Details of cost for 1 cum						
	MATERIALS						
04004	Stone aggregate 40mm	cum	0.544	₹	4,692.00	₹	2,552.45
04006	Stone aggregate 20mm	cum	0.241	₹	4,875.00	₹	1,174.88
04007	Stone aggregate 12mm	cum	0.126	₹	4,785.00	₹	602.91
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0404	Stone aggregate 40mm	cum	0.544	₹	159.56	₹	86.80
0405	Stone aggregate 20mm and 12mm	cum	0.367	₹	147.57	₹	54.16
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.32	₹	102.47	₹	32.79
	LABOUR:						
0218*	Mason	Day	0.120	₹	420.00	₹	50.40
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
						₹	8,164.26
	Add for Scaffoldings & sundries [LS]					₹	320.00
						₹	8,484.26

Code	Discription	Unit	Quantity	Rate		Amount
	Add for water charges	@	1.0%		₹	84.84
					₹	8,569.10
	Add GST (multiplying factor)		0.1405		₹	1,203.96
					₹	9,773.06
	Add for contractor's profit and overheads	@	15%		₹	1,465.96
					₹	11,239.02
	Add cess	@	1%		₹	112.39
	Cost of providing and laying 1 cum. of cement concrete				₹	11,351.41
	Rate per cum.	Say			₹	11,351.40

4.2	upto floor five level, excluding the cost of centring shuttering and finishing -									
4.2.5	1:3:6 (1 Cement: 3 fine sand: 6 graded stone ag	gregate 2	20 mm nom	inal	size)					
Code	Discription	Unit	Quantity		Rate		Amount			
	Details of cost for 1 cum									
	MATERIALS									
04006	Stone aggregate 20mm	cum	0.727	₹	4,875.00	₹	3,544.13			
04007	Stone aggregate 12mm	cum	0.242	₹	4,785.00	₹	1,157.97			
02003	Fine sand	cum	0.485	₹	560.00	₹	271.60			
03001	Cement	tonne	0.22	₹	5,800.00	₹	1,276.00			
	CARRIAGE									
0405	Stone aggregate	cum	0.969	₹	147.57	₹	143.00			
0425	Fine sand	cum	0.485	₹	131.75	₹	63.90			
0421	Cement	tonne	0.22	₹	102.47	₹	22.54			
	LABOUR:									
0218*	Mason	Day	0.120	₹	420.00	₹	50.40			
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00			
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60			
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00			
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50			
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65			
						₹	7,958.29			
	Add for Scaffoldings & sundries [LS]					₹	320.00			
	g					₹	8,278.29			
	Add for water charges	@	1.0%	1		₹	82.78			
	rida for water charges		1.070			₹	8,361.07			
	Add GST (multiplying factor)		0.1405	1		₹	1,174.73			
	Add 331 (martiplying factor)		0.1700	1		₹	9,535.80			
	Add for contractor's profit and overheads	@	15%			₹	1,430.37			
						₹	10,966.17			
	Add cess	@	1%			₹	109.66			
	Cost of providing and laying 1 cum. of cement concrete					₹	11,075.83			
	Rate per cum.	Say				₹	11,075.80			

4.2	Providing and laying cement concrete in retaining walls, return walls (any thick-ness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc. upto floor five level, excluding the cost of centring shuttering and finishing -
4.2.6	1:3:6 (1 Cement: 3 fine sand : 6 graded stone aggregate 40 mm nominal size)

Code	Discription	Unit	Quantity		Rate		Amount
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04004	Stone aggregate 40mm	cum	0.672	₹	4,692.00	₹	3,153.02
04006	Stone aggregate 20mm	cum	0.262	₹	4,875.00	₹	1,277.25
02003	Fine sand	cum	0.485	₹	560.00	₹	271.60
03001	Cement	tonne	0.22	₹	5,800.00	₹	1,276.00
00001	CARRIAGE	tornic	0.22	Ì	0,000.00	Ì	1,270.00
0404	Stone aggregate 40mm	cum	0.672	₹	159.56	₹	107.22
0405	Stone aggregate 20mm	cum	0.262	₹	147.57	₹	38.66
0425	Fine sand	cum	0.485	₹	131.75	₹	63.90
0421	Cement	tonne	0.403	₹	102.47	₹	22.54
0421	LABOUR:	tornic	0.22	`	102.47	_	22.54
0218*	Mason	Day	0.120	₹	420.00	₹	50.40
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60
0212	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
		Day		<u> </u>		\vdash	
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
						₹	7,689.34
	Add for Scaffoldings & sundries [LS]					₹	320.00
						₹	8,009.34
	Add for water charges	@	1.0%			₹	80.09
	Ĭ i					₹	8,089.43
	Add GST (multiplying factor)		0.1405			₹	1,136.56
	in the control of the					₹	9,225.99
	Add for contractor's profit and overheads	@	15%			₹	1,383.90
						₹	10,609.89
	Add cess	@	1%			₹	106.10
	Cost of providing and laying 1 cum. of cement concrete					₹	10,715.99
	Rate per cum.	Say				₹	10,716.00

4.2	Providing and laying cement concrete in retaining walls, return walls (any thick-ness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc. upto floor five level, excluding the cost of centring shuttering and finishing -									
4.2.7	1:1:2 (1 Cement: 1 fine sand : 2 graded well bu	rnt brick a	iggregate 20) mr	n nominal s	ize)				
Code	Discription	Unit	Quantity	Rate Am		Amount				
	Details of cost for 1 cum									
	MATERIALS									
04002	Brick aggregate 20mm	cum	0.675	₹	3,957.00	₹	2,670.98			
04003	Brick aggregate 12mm	cum	0.225	₹	3,880.00	₹	873.00			
02003	Fine sand	cum	0.45	₹	560.00	₹	252.00			
03001	Cement	tonne	0.61	₹	5,800.00	₹	3,538.00			
	CARRIAGE									
0405	Brick aggregate	cum	0.9	₹	147.57	₹	132.81			
0425	Fine sand	cum	0.45	₹	131.75	₹	59.29			
0421	Cement	tonne	0.61	₹	102.47	₹	62.51			
	LABOUR:									
0218*	Mason	Day	0.120	₹	420.00	₹	50.40			
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00			
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60			
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00			

Code	Discription	Unit	Quantity		Rate		Amount
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
						₹	9,067.74
	Add for Scaffoldings & sundries [LS]					₹	320.00
						₹	9,387.74
	Add for water charges	@	1.0%			₹	93.88
						₹	9,481.62
	Add GST (multiplying factor)		0.1405			₹	1,332.17
						₹	10,813.79
	Add for contractor's profit and overheads	@	15%			₹	1,622.07
						₹	12,435.86
	Add cess	@	1%			₹	124.36
	Cost of providing and laying 1 cum. of cement concrete					₹	12,560.22
	Rate per cum.	Say				₹	12,560.20

4.2	Providing and laying cement concrete in retain attached pilasters, columns, piers, abutmets, piers, parapets, coping bed blocks, anchor lupto floor five level, excluding the cost of cen	oillars, po blocks, pl	sts, struts, ain windov	butt v sil	tresses, stri Is, fillets, su	ng (or lacing
4.2.8	1:1½:3 (1 Cement: 1½ fine sand : 3 graded well	burnt bri	ck aggregat	e 20	mm nomin	ıal s	ize)
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04002	Brick aggregate 20mm	cum	0.6615	₹	3,957.00	₹	2,617.56
04003	Brick aggregate 12mm	cum	0.2205	₹	3,880.00	₹	855.54
02003	Fine sand	cum	0.441	₹	560.00	₹	246.96
03001	Cement	tonne	0.40	₹	5,800.00	₹	2,320.00
	CARRIAGE				-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
0405	Brick aggregate	cum	0.882	₹	147.57	₹	130.16
0425	Fine sand	cum	0.441	₹	131.75	₹	58.10
0421	Cement	tonne	0.40	₹	102.47	₹	40.99
	LABOUR:						
0218*	Mason	Day	0.120	₹	420.00	₹	50.40
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
						₹	7,748.46
	Add for Scaffoldings & sundries [LS]					₹	320.00
	<u> </u>					₹	8,068.46
	Add for water charges	@	1.0%	1		₹	80.68
	January States S		11212			₹	8,149.14
	Add GST (multiplying factor)		0.1405			₹	1,144.95
	indicate of (marriprying ractor)		3.1.100			₹	9,294.09
	Add for contractor's profit and overheads	@	15%			₹	1,394.11
						₹	10,688.20
	Add cess	@	1%			₹	106.88
	Cost of providing and laying 1 cum. of cement concrete					₹	10,795.08

Code	Discription	Unit	Quantity	Rate		Amount
	Rate per cum.	Say			₹	10,795.10

4.2	Providing and laying cement concrete in retain attached pilasters, columns, piers, abutmets, pcourses, parapets, coping bed blocks, anchor lupto floor five level, excluding the cost of centers.	oillars, po olocks, pl	sts, struts, ain windov	butt v sil	tresses, stri Is, fillets, su	ng d	or lacing
4.2.9	1:2:4 (1 Cement: 2 fine sand : 4 graded well bur	nt brick a	aggregate 20	0 mr	m nominal s	size)	
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04002	Brick aggregate 20mm	cum	0.705	₹	3,957.00	₹	2,789.69
04003	Brick aggregate 12mm	cum	0.235	₹	3,880.00	₹	911.80
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Brick aggregate	cum	0.94	₹	147.57	₹	138.72
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.32	₹	102.47	₹	32.79
	LABOUR:						
0218*	Mason	Day	0.120	₹	420.00	₹	50.40
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
						₹	7,533.27
	Add for Scaffoldings & sundries [LS]					₹	320.00
						₹	7,853.27
	Add for water charges	@	1.0%	1		₹	78.53
	rida for water charges		1.070			₹	7,931.80
	Add GST (multiplying factor)		0.1405	<u> </u>		₹	1,114.42
	Add 631 (multiplying factor)		0.1403			₹	9,046.22
	Add for contractor's profit and overheads	@	15%			₹	1,356.93
						₹	10,403.15
-	Add cess	@	1%			₹	104.03
	Cost of providing and laying 1 cum. of cement concrete					₹	10,507.18
	Rate per cum.	Say				₹	10,507.20

4.2	Providing and laying cement concrete in retaining walls, return walls (any thick-ness) including attached pilasters, columns, piers, abutmets, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc. upto floor five level, excluding the cost of centring shuttering and finishing -									
4.1.10	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 40 mm nominal size)									
Code	Discription	Unit	Quantity	Rate	Amount					
	Details of cost for 1 cum									
	MATERIALS									
04001	Brick aggregate 40mm	cum	0.544	₹ 3,452.00	₹ 1,877.89					
04002	Brick aggregate 20mm	cum	0.241	₹ 3,957.00	₹ 953.64					
04003	Brick aggregate 12mm	cum	0.126	₹ 3,880.00	₹ 488.88					
02003	Fine sand	cum	0.47	₹ 560.00	₹ 263.20					
03001	Cement	tonne	0.32	₹ 5,800.00	₹ 1,856.00					
	CARRIAGE									
0404	Brick aggregate 40mm	cum	0.544	₹ 159.56	₹ 86.80					

Code	Discription	Unit	Quantity		Rate		Amount
0405	Brick aggregate 20mm and 12mm	cum	0.367	₹	147.57	₹	54.16
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.32	₹	102.47	₹	32.79
	LABOUR:						
0218*	Mason	Day	0.120	₹	420.00	₹	50.40
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
						₹	7,154.43
	Add for Scaffoldings & sundries [LS]					₹	320.00
						₹	7,474.43
	Add for water charges	@	1.0%			₹	74.74
						₹	7,549.17
	Add GST (multiplying factor)		0.1405			₹	1,060.66
						₹	8,609.83
	Add for contractor's profit and overheads	@	15%			₹	1,291.47
						₹	9,901.30
	Add cess	@	1%			₹	99.01
	Cost of providing and laying 1 cum. of cement concrete					₹	10,000.31
	Rate per cum.	Say				₹	10,000.30

4.2	Providing and laying cement concrete in retain attached pilasters, columns, piers, abutmets, piecurses, parapets, coping bed blocks, anchor lupto floor five level, excluding the cost of central provided in the cost of cent	oillars, po blocks, pl	sts, struts, ain windov	but v sil	tresses, stri Is, fillets, su	ng d	r lacing
4.2.11	1:3:6 (1 Cement: 3 fine sand : 6 graded well bur	nt brick a	iggregate 20) mr	n nominal s	ize)	
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04002	Brick aggregate 20mm	cum	0.727	₹	3,957.00	₹	2,876.74
04003	Brick aggregate 12mm	cum	0.242	₹	3,880.00	₹	938.96
02003	Fine sand	cum	0.485	₹	560.00	₹	271.60
03001	Cement	tonne	0.22	₹	5,800.00	₹	1,276.00
	CARRIAGE						
0405	Brick aggregate	cum	0.969	₹	147.57	₹	143.00
0425	Fine sand	cum	0.485	₹	131.75	₹	63.90
0421	Cement	tonne	0.22	₹	102.47	₹	22.54
	LABOUR:						
0218*	Mason	Day	0.120	₹	420.00	₹	50.40
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
						₹	7,071.89
	Add for Scaffoldings & sundries [LS]					₹	320.00
						₹	7,391.89
	Add for water charges	@	1.0%			₹	73.92
	Ĭ					₹	7,465.81
	Add GST (multiplying factor)		0.1405			₹	1,048.95

Code	Discription	Unit	Quantity	Rate		Amount
					₹	8,514.76
	Add for contractor's profit and overheads	@	15%		₹	1,277.21
					₹	9,791.97
	Add cess	@	1%		₹	97.92
	Cost of providing and laying 1 cum. of cement concrete				₹	9,889.89
	Rate per cum.	Say			₹	9,889.90

4.2	Providing and laying cement concrete in retain attached pilasters, columns, piers, abutmets, pcourses, parapets, coping bed blocks, anchor bupto floor five level, excluding the cost of cen	oillars, po olocks, pl	sts, struts, ain windov	butt v sil	tresses, stri Is, fillets, su	ng o	r lacing			
4.2.12	1:3:6 (1 Cement: 3 fine sand : 6 graded well burnt brick aggregate 40 mm nominal size)									
Code	Discription	Unit	Quantity		Rate		Amount			
	Details of cost for 1 cum									
	MATERIALS									
04001	Brick aggregate 40mm	cum	0.672	₹	3,452.00	₹	2,319.74			
04002	Brick aggregate 20mm	cum	0.262	₹	3,957.00	₹	1,036.73			
02003	Fine sand	cum	0.485	₹	560.00	₹	271.60			
03001	Cement	tonne	0.22	₹	5,800.00	₹	1,276.00			
	CARRIAGE									
0404	Brick aggregate 40mm	cum	0.672	₹	159.56	₹	107.22			
0405	Brick aggregate 20mm	cum	0.262	₹	147.57	₹	38.66			
0425	Fine sand	cum	0.485	₹	131.75	₹	63.90			
0421	Cement	tonne	0.22	₹	102.47	₹	22.54			
	LABOUR:									
0218*	Mason	Day	0.120	₹	420.00	₹	50.40			
0203	Beldar (M)	Day	0.900	₹	310.00	₹	279.00			
0212	Coolie (F)	Day	2.660	₹	310.00	₹	824.60			
0205	Bhishti/Waterman	Day	0.700	₹	310.00	₹	217.00			
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50			
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65			
						₹	6,615.54			
	Add for Scaffoldings & sundries [LS]					₹	320.00			
						₹	6,935.54			
	Add for water charges	@	1.0%			₹	69.36			
	3.1					₹	7,004.90			
	Add GST (multiplying factor)		0.1405			₹	984.19			
	in and the first spring ractory		3			₹	7,989.09			
	Add for contractor's profit and overheads	@	15%			₹	1,198.36			
						₹	9,187.45			
_	Add cess	@	1%		_	₹	91.87			
	Cost of providing and laying 1 cum. of cement concrete					₹	9,279.32			
	Rate per cum.	Say				₹	9,279.30			

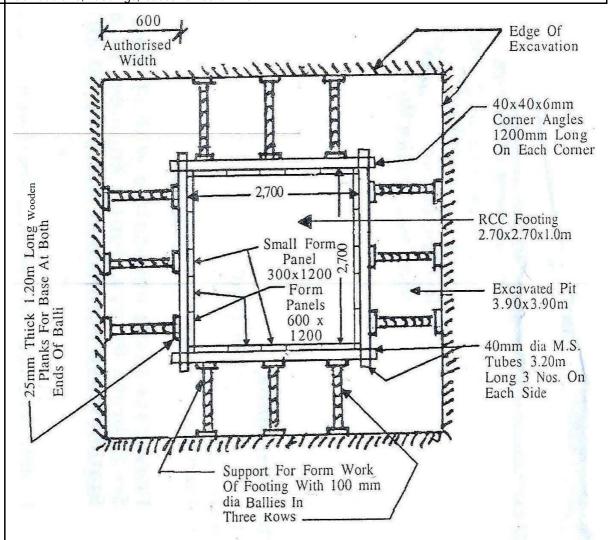
4.3	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing. 1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)								
4.3.1									
Code	Discription	Quantity	Rate	Amount					
	Details of cost for kerb: 100m long 20cm deep and 30cm wide, 100m x 0.30m x 0.20m = 6.00 cum.								

Code	Discription	Unit	Quantity		Rate		Amount
	MATERIALS						
04006	Stone aggregate 20mm	cum	3.969	₹	4,875.00	₹	19,348.88
04007	Stone aggregate 12mm	cum	1.323	₹	4,785.00	₹	6,330.56
02003	Fine sand	cum	2.646	₹	560.00	₹	1,481.76
03001	Cement	tonne	2.4	₹	5,800.00	₹	13,920.00
	CARRIAGE						
0405	Stone aggregate	cum	5.292	₹	147.57	₹	780.94
0425	Fine sand	cum	2.646	₹	131.75	₹	348.61
0421	Cement	tonne	2.4	₹	102.47	₹	245.93
	LABOUR:						
0203	Beldar (M)	Day	2.05	₹	310.00	₹	635.50
0212	Coolie (F)	Day	10.8	₹	310.00	₹	3,348.00
0205	Bhishti/Waterman	Day	4.5	₹	310.00	₹	1,395.00
0113	Add cost of hire and running charges of mixer	Day	0.420	₹	1,150.00	₹	483.00
0129	Add cost of hire and running charges of vibrator	Day	0.420	₹	395.00	₹	165.90
	Add for chute, ladders etc [L.S.]					₹	32.00
						₹	48,516.08
	Add for water charges	@	1.0%			₹	485.16
	, and the second					₹	49,001.24
	Add GST (multiplying factor)		0.1405			₹	6,884.67
	, , , , , , , , , , , , , , , , , , ,					₹	55,885.91
	Add for contractor's profit and overheads	@	15%			₹	8,382.89
						₹	64,268.80
	Add cess	@	1%			₹	642.69
	Cost of providing and laying 6 cum. of cement concrete					₹	64,911.49
	Cost of providing and laying 1 cum. of cement concrete					₹	10,818.58
	Rate per cum.	Say				₹	10,818.60

	Code	Discription	Unit	Quantity	Rate	Amount				
•	FORM WORK [CENTERING AND SHUTTERING]									

Centering shuttering including struttings, propping etc. and removal of form work for:

4.4.1 Foundations, footings, bases for columns.



1. Form Pannels: The form panels or the shuttering plates are directly in contact with concrete and in spite of best maintenance the face of forms gets dented etc. and after use of aboe 100 to 150 times the surface would be so bad that the result would be most unsatisfactory.

Hence, in calculations let us consider that we can use the form panels for 120 repetitions.

However, all other materials like MS Tubes, clamps, bolts and nuts etc. which are not in direct contact with concrete can be used 200 times or more. Hence, for all such materials let us restrict the use for 200 times.

- In any case the salvage value of all these materials can be taken as 25%.
- 2. No separate provision for maintenance is being made as the labour component for fixing and releasing the form-work would cover the same.
- 3. The calculations are based on the assumption that the form panels/shuttering plates are manufactured in a local workshop and are not the ready made materials manufactured by big factories, the cost of which would be prohibitive.
- 4. The footing box is 1.2m high and the height of casting is 1m. The quantity of concrete in the box is 9.63 cum which will exert a tremendous pressure on the sides especially when vibrated, thus, fixing a form-work for footing with just one or two pipe supports would not suffice but minimum 3 rows of supports are required to support the form-work otherwise the shutters of the form-work would bulge or even give way. Hence, to resist the pressure on the concrete surface of 1.00 m height supports at 3 places will have to be provided. Also, the pipes should project beyond the boxes so that the pipes are clamped together to make one firm unit.
- 5. However, the steel shutteing backed with pipe will not be stable because the labour will be working alround and also inspite of supporting the shutters with three rows of pipes on each side, still there is every chance of box getting twisted due to the heavy quantity of concrete. Hence, the pipes must be supported with MS pipes or ballies. Also, as the supports are being provided totally from outside the form work of footings there cannot be any objectionfrom the officials for using wooden ballies and planks.

Code	Discription	Unit	Quantity	Rate		Amount
	Hence, the shutters on all sides can be supported by ballies ballies cannot be fixed directly to the shutters on one side planks of 1 m height are provided on both sides of the ball 6. Labour component will cover fixing shutters, cleaning ar cleaning the shutters, oiling and stacking neatly in stacking	and excavat lover which nd oiling shu	ed side on the the ballies wi utters, on relea	e other side the 25 II rested. asing after every op	mm	thick timber
Code	Discription	Unit	Quantity	Rate		Amount
	Size of footing: 2.70x2.70x1.00m Contact area: 4x2.70x1.00 = 10.80 sqm					
	MATERIALS					
05041	MS sheet 14 gauge required for main forms and small forms: 4x4x0.60x1.20 = 11.52 sqm 4x1x0.30x1.00 = 1.20 sqm Total = 12.72 sqm Add for wastage = 1.28 sqm Net total = 14.00 sqm Wt. of MS sheets 14 sqm @ 15.70kg/sqm = 14x15.70 = 2.20q	q	2.200	₹ 4,800.00	₹	10,560.00
05056	40x40x6 mm Angle iron for backing: Vertical: 4x4x2x1.20 = 38.40m 4x1x2x1.00 = 8.00m Horizontals: 4x4x4x0.60 = 38.40m 4x1x4x0.30 = 4.80m Total = 89.60m @3.50kg/m =313.60kg Add for wastage = 17.90kg Net total = 331.50kg = 3.315 q	q	3.315	₹ 4,700.00	₹	15,580.50
05056	40x40x6 mm Corner Angle: 4x1.20 = 4.80m Add for wastage = 0.20m Total = 5.00m @3.50kg/m =17.50kg=0.175 q	q	0.175	₹ 4,700.00	₹	822.50
0468	Carriage of steel	tonne	0.569	₹ 102.47	₹	58.31
MR	Cost of manufacturing [form panels/shuttering plates to cover 12.72 sqm]	q	5.30	₹ 2,400.00	₹	12,720.00
					₹	39,741.31
	Considering that these items can be used 120 times. Thus cost of using once=				₹	331.18
	Considering the salvage value as 25%	75%	of	₹ 331.18	₹	248.39
04018	Net cost = MS Pipes 40 mm dia.=4x3x3.25 = 39.00m	m	39.00	₹ 300.00	₹	11,700.00
04016	Double couplers [Needed to clamp the pipes at ends = 4x3=12 Nos.]	Nos.	12	₹ 80.00		960.00
04017	Single couplers [Needed to fix the shutters (form panels) with the pipes=4x2x3=24 Nos.]	Nos.	24	₹ 62.00	₹	1,488.00
05043	6 mm bolts and nuts with washers: 30 mm long The shutters have to be bolted with each other. The bolt holes are generally provided at 150 mmc/c. Thus, bolts for each joint: 8 Nos. Total no. of bolts required =4x6x8=192Nos.	10 Nos.	192	₹ 26.00	₹	499.20

Code	Discription	Unit	Quantity		Rate		Amount
0468	Carriage: Pipes = 39mx4.43 kg/m=172.77 kg 6mm = 6.30kg Total = 179.07kg=0.179tonnes	tonne	0.179	₹	102.47	₹	18.34
						₹	14,665.54
	Considering that these items can be used 200 times. Thus cost of using once=					₹	73.33
	Considering the salvage value as 25% Net cost =	75%	of	₹	73.33	₹	55.00
	Timber planks and ballies:						
04014	a] 25 mm thick kail II planks for base: 4x2x3x3=72 Nos.=72x1x0.225x0.025 = 0.405 cum = 405 cudm	10 cudm	405.00	₹	160.00	₹	6,480.00
04010	b] 100mm Ø safeda ballies for support =4x3x3=36 Nos.=36x0.50=18.0m.	m	18.00	₹	45.00	₹	810.00
0473	Carriage planks and ballies	cum	0.545	₹	74.50	₹	40.60
						₹	7,330.60
	Considering that these items can be used 50 times. Thus cost of using once=					₹	146.61
	LABOUR:						
0216	Foreman	Day	0.20	₹	440.00	₹	88.00
0208*	Carpenter	Day	1.40	₹	420.00	₹	588.00
0212	Helper	Day	2.40	₹	310.00	₹	744.00
						₹	1,870.00
	Add for shuttering oil etc	@	1.00%			₹	18.70
						₹	1,888.70
	Add for shuttering oil and Sundries	@	3%			₹	56.66
						₹	1,945.36
	Add GST (multiplying factor)		0.1405			₹	273.32
						₹	2,218.68
	Add for contractor's profit and overheads	@	15%			₹	332.80
						₹	2,551.48
	Add cess	@	1%			₹	25.51
	Cost of formwork for footing for 10.8 sqm. Area					₹	2,576.99
	Cost of formwork per sqm					₹	238.61
-	Rate per sqm.	Say				₹	238.60

Code	Discription	Unit	Quantity	Rate	Amount
4.4	Centering shuttering including struttings, pro	pping etc.	and remov	val of form wo	rk for:
4.4.2	Retaining walls, return walls, walls (any thickne and string courses fillets etc.				
	Final Shape Of Reta When Concreted To 40 x 6mm M.S. As Spacers Fixe Top Of Shutters 12mm dia Through Bolts To Tie Th Shutters On Two Sides 40x40x6mm Angl Fixed Through T bedded Bolts To Resolution of 2nd L M.S. Brackets Fixe Top Of Shutters Of 2nd L M.S. Brackets Fixe Top Of Shutters Of 2nd L M.S. Brackets Fixe Top Of Shutters Of 2nd L M.S. Brackets Fixe Top Of 2nd L M.S. Brackets Fixe	Full Height— Flats d On he e oo e Iron oe Em- est The ift ed To s To ng To Lifts	350 1	Fix The Wall For Sussed L Bracket Conce	dia Bolts To the Spacers Shutters 2nd Lift and Railing or Brackets Used For Fix- hutters Are To Fix The testers test
	Shuttering For 1st Lift				
	Note: 1. The analysis of rates of form work of structures like reta has to examine the different items involved in arriving at cat least the basic dimension of the structure, then only we 2. For the retaining wall shown in the figure we will have to lifts except the first lift as 200 mm will go as waste (non comeasurements, the payment would be made for shuttering surface, though much more area of form-work has to be do required to cover the extra portion has to be taken into acc. 3. Also the M.S. shutters that are erected in position have be concreted is 8.0 m and it would be practically impossible alternative is to make the shutters that are fixed self support through bolts duly threaded on both ends per each shutter the full length of the wall shuttering on both sides with the tightened as shown in fig. 4. The top surfaces of the wall shutters on both sides also so out of M.S. flats of size 40x6 mm and bolted to the shutter can concrete the first lift. However for doing the form work of 2nd lift we have to make have to provide stable scaffolding for the labour to star shutters on both sides. As it is not economical to provide scan take the advantage of already embedded bolts in three 6 mm angle iron is fixed throughout the length of the wall can be easily kept and fixed to the angle iron at bottom will are manufactured and fixed to the lower two bolts. In additionary wall formwork. The procure for fixing shutters for the shutters of the surface of the workers can safely work on the scaffoldin retaining wall formwork. The procure for fixing shutters for the surface of the surface of the surface of the surface of the scaffoldin retaining wall formwork. The procure for fixing shutters for the surface of the surfa	correct analyst can base out of provide 12 ontact area) of the control of the count for analyst object of the count for analyst of the count for a	sis. To arrive a requirement 00 mm long sunder over-lap or area of shubing. Hence the alyzing the content of the supports and be done but as shown in the sprovided in the sprov	at the correct quants. hutters so that one is and according to itters in contact with the cost of the additurrect rate. In sides. The height from the two sides y providing 3 Nos. If Fig. M.S. channels in the channel to the his can be done by in Fig. Thus with the gements to fix the vide proper restinging for labour to state ordingly to the toprotect the shutters to be exets out of angle in vided with railing of sider 2nd and substitutes.	can cast 1000 mm or mode of the the concrete ional material of retaining wall to a Hence the only of 12 mm dia a rethen fixed over through bolts and providing spacers his arrangement one shutters. Because place for the nd and work, we most bolt a 40 x 40 x fixed to the 2nd lift for 40x40x 6mm ut of 16 mm dia equent lifts of the
	Dimension of Wall: Length of wall = 7900 mm Thickness at bottom = 500m Thickness at top = 350m Height from base = 8000 mm Quantity of concrete involved = 1x7.90x[0.50+0.35]/2x8.00=26.86 cum Contact area: (per lift) 2x7.90x1.00=15.80sqm 2x[0.50+0.35]/2x1.00=0.85sqm Total = 16.65 sqm				

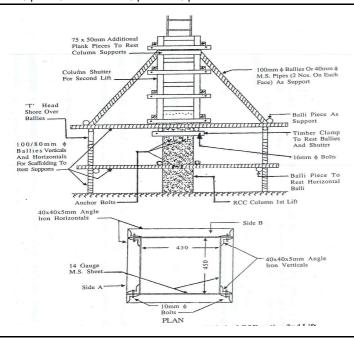
Code	Discription	Unit	Quantity		Rate		Amount
	As explained earlier we will need 1200m high shutters to cover a contact area of 1000mm height. Let us consider the wall forms of size 600x1200 as this is a very common size available in market even on hire basis. For one side we will need 13 full shutters and one small shutter of size 180x1200 which can be fixed at the central portion of the wall. The end shutters have to be altered to adjust to the slope after each lift, however, the size of shutter as one number 350x1200 and one number 150x1200 can be taken for each end.						
	MATERIALS						
05041	MS sheet 14 gauge required for main forms and small forms: 2x13x0.60x1.20 = 18.72 sqm 2x1x0.18x1.20 = 0.432 sqm 2x1x0.35x1.20 = 0.84 sqm 2x1x0.15x1.20 = 0.36 sqm Total = 20.352 sqm Add for wastage = 1.148 sqm Net total = 21.5 sqm Wt. of MS sheets 21.5 sqm @ 15.70kg/sqm = 337.55kg = 3.375q	q	3.375	₹	4,800.00	₹	16,200.00
05056	40x40x6 mm Angle iron for backing: Vertical: 2x2x13x1.20 = 62.40m 2x2x1x1.20 = 4.80m 2x2x1x1.20 = 4.80m 2x2x1x1.20 = 4.80m Horizontals: 2x4x13x0.60 = 62.40m 2x4x1x0.18 = 1.44m 2x4x1x0.35 = 2.80m 2x4x1x0.15 = 1.20m Corner angles 2x2x1.20 = 4.80m Total = 149.44m Add for wastage = 5.56m 155.00m @3.50kg/m =542.5kg = 5.425q	q	5.425	₹	4,700.00	₹	25,497.50
0468	Carriage of steel	tonne	0.88	₹	102.47	₹	90.17
MR	Cost of manufacturing [form panels/shuttering plates to cover 20.352sqm]	q	8.426	₹	1,000.00	₹	8,426.00
				<u> </u>		₹	50,213.67
	Considering that these items can be used 120 times. Thus cost of using once=					₹	418.45
	Considering the salvage value as 25% Net cost =	75%	of	₹	418.45	₹	313.84
05026	40x6 mm M.S. Flats as spacers Considering spacing of spacers at 150 mm c/c = 53x0.65 = 34.45 m Weight of spacers = 34.45@1.90 kg/m = 64.46 kg = 0.65q.	q	0.65	₹	4,725.00	₹	3,071.25

Code	Discription	Unit	Quantity		Rate		Amount
05056	40x75 mm Medium weight M.S. Channel M/S. Channel 2x3x8.2 = 49.20m 2x3x0.60 = 3.60 m. Total = 52.80 m. Weight of channels = 52.80@ 6.80 kg/m = 359.04 kg = 3.59 q	q	3.59	₹	4,700.00	₹	16,873.00
05056	40x40x6 mm Angle iron for Brackets and for base Vertical: 2x14x1.00 = 28.00m Horizontals: 2x14x1.00 = 28.00m Inclineds: 2x14x1.20 = 33.60m 2x14x0.60 = 16.80m Cross straight: 2x2x8.00 = 32.00m Railing verticals: 2x14x0.75 = 21.00 For base below shutters = 2x8.00 = 16.00 Total = 175.40m @3.50kg/m =613.90kg = 6.14q	q	6.140	₹	4,700.00	₹	28,858.00
05039	16 mm dia. M.S. bars for hand railing 2x2x8.00 = 32.00m = 50.56 kg = 0.50q	q	0.50	₹	4,620.00	₹	2,310.00
05043	10 mm dia 30 mm long bolts with nuts and washers etc. (a) For fixing spacers = 2x53 = 106 Nos. (b) For fixing railing verticals and cross angles 2x2x14 = 56 Nos. 2x2x14 = 56 Nos. Total = 112 Nos Grand total = 106+112 = 218 Nos. @ 0.092 = 20 kg.	10 Nos.	218	₹	26.00	₹	566.80
05043	6mm dia 30 mm long bolts with nuts and washers etc. (a) To fix sides of shutters = 2x15x8= 240 Nos. (b) To fix sides of bottoms = 2x14x4 = 112 Nos. Total = 352 Nos @ 0.039 kg/m = 13.72 kg.	10 Nos.	352	₹	26.00	₹	915.20
05043	12mm dia bolts with nuts and washers as tie rods per lift [average length = 0.75m] = 3x0.75 = 2.25 kg	10 Nos.	3	₹	26.00	₹	7.80
0468	Carriage for brackets channels etc. except bolts nuts etc.: 40x6 mm flats = 0.65 q 40x75 mm channels = 3.59q 40x40x6 mm Angle Iron = 6.14q 16 mm dia bars = 0.50q Total = 10.88q = 1.09tonnes	tonne	1.09	₹	102.47	₹	111.69
MR	Cost of manufacturing [MS flats, channels and brackets etc. are to be cut, holes drilled, welded etc]	q	10.880	₹	2,400.00	₹	26,112.00
	Considering that these items can be used 200					₹	78,825.74
	times. Thus cost of using once=					₹	394.13
	Considering the salvage value as 25% Net cost =	75%	of	₹	394.13	₹	295.60

Code	Discription	Unit	Quantity	Rate	Amount
	Note: No separate provision for scaffolding is made as the brackets serve the purpose of scaffolding also.				
	LABOUR:				
0208*	Carpenter	Day	3.50	₹ 420.00	₹ 1,470.00
0212	Helper	Day	5.25	₹ 310.00	₹ 1,627.50
					₹ 3,706.94
	Add for shuttering oil etc	@	0.05%		₹ 1.85
					₹ 3,708.79
	Add for Ladders, planks etc.	@	1.50%		₹ 55.63
					₹ 3,764.42
	Add for shuttering oil and Sundries	@	3%		₹ 111.26
					₹ 3,875.68
	Add GST (multiplying factor)		0.1405		₹ 544.53
					₹ 4,420.21
	Add for contractor's profit and overheads	@	15%		₹ 663.03
					₹ 5,083.24
	Add cess	@	1%		₹ 50.83
	Cost of formwork for retaining wall with 16.65 sqm. contact area				₹ 5,134.07
	Cost of formwork per sqm				₹ 308.35
	Rate per sqm.	Say			₹ 308.40

4.4 Centering shuttering including struttings, propping etc. and removal of form work for:

4.4.3 Columns, piers, abutments, pillaras, posts and struts.



Note:

1. The column shutters (column box) should be manufactured very carefully with great precision so that erecting the shutters in position quickly, in plumb and alignment should be very easy.

The length of a column bos should not be more than 2 m and has to be manufactureed out of full length shutters and not joined in apiece meal method. Two shutters of size 450 mm x 2000 mm are joined with two shutters of size 535 mm x 2000 mm to make a column box to cast a column of size 450 mm x 450 mm up to a height of 2 m. The shutters can be manufactured in any local work shop and if manufactured carefully one can get best results.

- 2. The simple way of manufacturing the column box is to make a frame with angle iron and clad the frame with 14 gauge M.S. sheet, by welding. Holes are drilled in the vertical angles to fix the shutters with each other by bolts. A shutter manufactured as above will be quite superior to do a quality job.
- 3. The weight of steel without wastage is 3.94 x 15.7 + 25.85 x 3=139.408 Kg or 1.394 q.
- 4. Instead of column clamps one can use M.S Channels of small size and in that case 2 Nos. of 16 mm diameter bolts per pair of channel length will have to be used.

Code Discription	Unit	Quantity	Rate	Amount
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Code	Discription	Unit	Quantity		Rate		Amount
	Size of column: 450mmx450mmx3.50m The 3.50 m long column will have to be cast in two lifts, as one should not have a column box of length more than 2.00m otherwise the segregation of concrete cannot be avoided. Hence contact area for first lift: 4 x 0.45 x 2.00 = 3.60 sqm For Second lift: 4 x 0.45 x 1.50 = 2.70 sqm Average contact area = {3.60+2.70}/2 = 3.15 sqm						
	MATERIALS						
05041	MS sheet 14 gauge: 2x0.535x2.00 = 2.14 sqm 2x0.45x2.00 = 1.80 sqm Total = 3.94 sqm Add for wastage = 0.21 sqm Net total = 4.15 sqm Wt. of MS sheets 4.15 sqm @ 15.70kg/sqm = 0.6515q	q	0.6515	₹	4,800.00	₹	3,127.20
05056	40x40x5 mm Angle iron for frame: Vertical: 4x2x2.00 = 16.00m Horizontals: 2x5x0.45 = 4.50m 2x5x0.535 = 5.35m Total = 25.85m Add for wastage = 1.15m 27.00m @3.00kg/m =81kg = 0.81q	q	0.810	₹	4,700.00	₹	3,807.00
0468	Carriage of steel	tonne	0.146	₹	102.47	₹	14.96
MR	Cost of fabrication [form panels including cutting, welding etc. in a local work shop]	q	1.394	₹	2,400.00	₹	3,345.60
						₹	10,294.76
	Considering that these items can be used 120 times. Thus cost of using once=					₹	85.79
	Considering the salvage value as 25% Net cost =	75%	of	₹	85.79	₹	64.34
04020	Column clamps [450-1070mm] = 5 sets	each	5	₹	1,250.00	₹	6,250.00
	Considering that these items can be used 200 times. Thus cost of using once=					₹	31.25
	Considering the salvage value as 25% Net cost =	75%	of	₹	31.25	₹	23.44
05043	10 mm dia - 30 mm long bolts with nuts and washers $4x13 = 52$ Nos.	10 Nos.	52	₹	26.00	₹	135.20
	Considering that these items can be used 20 times. Thus cost of using once=					₹	6.76
	Considering the salvage value as 25% Net cost =	75%	of	₹	6.76	₹	5.07
05053	16 mm dia bolts for brackets = 2 Nos.	each	2	₹	84.00	₹	16.80
	Considering that these items can be used 40 times. Thus cost of using once=					₹	0.42
	Considering the salvage value as 25% Net cost =	75%	of	₹	0.42	₹	0.32

Code	Discription	Unit	Quantity		Rate		Amount
04010	(i) 100mm Ø safeda ballies End verticles for staging 4x1.80=7.20m. Lower cross ballies 4x0.80 = 3.20m Top cross ballies 4x0.80 = 3.20m Horizontals 8x9.0 = 72m End inclined ballies 4x2x2.0 = 16.00m Total = 101.60m	m	101.60	₹	45.00	₹	4,572.00
04013	(ii) Timber scantlings for tee head shore and brackets (a) For tee head shore: 4x0.75x0.075x0.075 = 0.017 cum (b) Inclined members 4x2x0.50x0.075x0.05 = 0.015cum (c) Brackets to rest the shutters 2x0.75x0.075x0.05 = 0.006 Total = 0.038 cum = 38 cudm (iii) 12 mm dia - 750 mm long anchor bolts =	10 cudm		₹	150.00	₹	570.00
05053	3nos.	Each	3	₹	84.00	₹	252.00
04010	(iv) 100mm Ø safeda ballies for scaffolding Verticals 4x3.00 = 12.00m Horizontals 2x8x2.00= 32m Total = 44.00m	m	44.00	₹	45.00	₹	1,980.00
0473	Carriage planks and ballies	cum	0.545	₹	74.50	₹	40.60
						₹	7,414.60
	Considering that these items can be used 50 times. Thus cost of using once=					₹	148.29
	Considering the salvage value as 25% Net cost = LABOUR:	75%	of	₹	148.29	₹	111.22
0216	Foreman	Day	0.20	₹	440.00	₹	88.00
0208*	Carpenter	Day	0.65	₹	420.00	₹	273.00
0212	Helper	Day	0.95	₹	310.00	₹	294.50
						₹	859.89
	Add for nails, coir ropes, chalis etc	@	2.50%			₹	21.50
		_	0.500			₹	881.39
	Add for shuttering oil etc.	@	2.50%			₹	22.03
	Add for Condition of Locality		20/	-		₹	903.42
	Add for Sundries and contingencies	@	3%			₹	26.44
	Add GST (multiplying factor)	-	0.1405	1		₹	929.86 130.65
	Add GST (maniprying factor)		0.1405			₹	1,060.51
	Add for contractor's profit and overheads	@	15%			₹	159.08
						₹	1,219.59
	Add cess	@	1%			₹	12.20
	Cost of formwork for column of 3.15 sqm.					₹	1,231.79
	Cost of formwork per sqm					₹	391.04
	Rate per sqm.	Say				₹	391.00

CEMENT CONCRETE [PRE-CAST]

Code	Discription	Unit	Quantity	Rate	Amount
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General guidelines on pre-casting jobs:

- 1. Though the item requires finishing to be done, no separate plaster should be done on pre-cast items. If these items are cast in a perfect form with correct mix one need not do any extra finishing and if finishing is done on these small items the same will peel off later, hence no finishing is considered in the analysis.
- 2. As these are small works the labour component for casting on ground, finishing and curing has to be accounted for and cannot be clubbed with rates of concreting for mass work. Similarly, fixing the moulds in position is a slow process and thus the actual labour involved is to be considered.
- 3. The pre-casting work consists of three main operations:
- a) Casting concrete in moulds: This is a slow process and labour component should balance the turnover.
- b) Curing and stacking: This is the most important matter and provision of separate curing tank and stacking yard to stack finished materials very carefully for 28 days is obligatory.
- c) Fixing the precast items in position: This is also a slow process and has to be done carefully. Hence, separate labour component for fixing must be considered.

4.5	Providing and laying at or near ground level p per approved pattern and setting in position v including the cost of required centering, shutt cement plaster 1:3 (1 cement: 3 fine sand) on	vith ceme ering and	ent mortar d finishing	1 : 3 smo	(1 cement ooth with 6	: 3	fine sand)
4.5.1	1:11/2:3 (1 Cement: 11/2 fine sand: 3 graded stone	e aggrega	te 20 mm	nomi	nal size)		
	No. of kerbs = 37 Nos. Size of kerbs 450x300x200 mm Qty: 37x0.45x0.30x0.20 = 0.999 say 1.00 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.6615	₹	4,875.00	₹	3,224.81
04007	Stone aggregate 12mm	cum	0.2205	₹	4,785.00	₹	1,055.09
02003	Fine sand	cum	0.441	₹	560.00	₹	246.96
03001	Cement	tonne	0.4	₹	5,800.00	₹	2,320.00
03001	Cement for fixing and finishing	tonne	0.042	₹	5,800.00	₹	243.60
02003	Sand for fixing and finishing	cum	0.0882	₹	560.00	₹	49.39
	CARRIAGE						
0405	Stone aggregate	cum	0.8820	₹	147.57	₹	130.16
0425	Fine sand	cum	0.5292	₹	131.75	₹	69.72
0421	Cement	tonne	0.4420	₹	102.47	₹	45.29
	LABOUR [for Pre-casting on ground and						
	finishing]:						
0216	Foreman	Day	0.08	₹	440.00	₹	35.20
0218*	Mason	Day	0.200	₹	420.00	₹	84.00
0203	Beldar (M)	Day	1.00	₹	310.00	₹	310.00
0212	Coolie (F)	Day	1.00	₹	310.00	₹	310.00
0205	Bhishti/Waterman	Day	0.150	₹	310.00	₹	46.50
	LABOUR [for fixing]:						
0216	Foreman	Day	0.05	₹	440.00	₹	22.00
0218*	Mason	Day	0.500	₹	420.00	₹	210.00
0203	Beldar (M)	Day	1.00	₹	310.00	₹	310.00
0212	Coolie (F)	Day	1.00	₹	310.00	₹	310.00
0205	Bhishti/Waterman	Day	0.050	₹	310.00	₹	15.50
						₹	9,038.22
	Add cost of hire and running charges of mixer, vibrator, water pump etc.	@	2.0%			₹	180.76
						₹	9,218.98
	Add for construction of casting platform, curing tank, building paper, cost of moulds and mould oil etc.	@	5%			₹	460.95
						₹	9,679.93
	Add for Sundries and contingencies	@	3%			₹	290.40
	y		1			₹	9,970.33
	Add for water charges & electricity	@	1.5%	1		₹	149.55
	riad to. Hater driarges a crook forty	Ü		+		₹	10,119.88
	Add GST (multiplying factor)		0.1405	+		₹	1,421.84
	riad 331 (maniprying factor)		0.1700	+		₹	11,541.72
i						· ·	11,541.72

Code	Discription	Unit	Quantity	Rate		Amount
	Add for contractor's profit and overheads	@	15%		₹	1,731.26
					₹	13,272.98
	Add cess	@	1%		₹	132.73
	Cost of pre-casting kerbs of 1 cum. Quantity				₹	13,405.71
	Rate per cum.	Say			₹	13,405.70

4.6	Providing and fixing upto floor five level prec copings, bed plates, anchor blocks, plain wind including hoisting and setting in position with including the cost of required centering, shutt cement plaster 1:3 (1 cement: 3 fine sand) on	low sills, a cement ering and	shelves, lo mortar 1 : : d finishing	uver 3 (1 smc	rs, steps, stace cement : 3 ooth with 6	air o	cases, etc. e sand)
4.6.1	1:11/2:3 (1 Cement: 11/2 fine sand : 3 graded stone	e aggrega	ite 20 mm r	nomi	nal size)		
Code	Discription	Unit	Quantity		Rate		Amount
	No. of Shelves =100 Nos. Size of coping slab 500x200x100 mm Oty: 100x0.50x0.20x0.10 = 1.00 cum MATERIALS						
04006	Stone aggregate 20mm	cum	0.6615	₹	4,875.00	₹	3,224.81
04007			0.0015	_		₹	
	Stone aggregate 12mm	cum		₹	4,785.00	_	1,055.09
02003	Fine sand	cum	0.441		560.00	₹	246.96
03001	Cement	tonne	0.4	₹	5,800.00	₹	2,320.00
03001	Cement for fixing and finishing	tonne	0.060	₹	5,800.00	₹	348.00
02003	Sand for fixing and finishing CARRIAGE	cum	0.1267	₹	560.00	₹	70.95
0405	Stone aggregate	cum	0.8820	₹	147.57	₹	130.16
0405	Fine sand	cum	0.5677	₹	131.75	₹	74.79
0423	Cement	tonne	0.4600	₹	102.47	₹	47.14
0.00	LABOUR [for Pre-casting on ground and	tornie	0.4000		102.47		47.14
	finishing]:						
0216	Foreman	Day	0.08	₹	440.00	₹	35.20
0218*	Mason	Day	0.400	₹	420.00	₹	168.00
0203	Beldar (M)	Day	1.20	₹	310.00	₹	372.00
0212	Coolie (F)	Day	1.20	₹	310.00	₹	372.00
0205	Bhishti/Waterman	Day	0.050	₹	310.00	₹	15.50
	LABOUR [for fixing]:						
0216	Foreman	Day	0.08	₹	440.00	₹	35.20
0218*	Mason	Day	0.600	₹	420.00	₹	252.00
0203	Beldar (M)	Day	1.50	₹	310.00	₹	465.00
0212	Coolie (F)	Day	1.50	₹	310.00	₹	465.00
0205	Bhishti/Waterman	Day	0.040	₹	310.00	₹	12.40
						₹	9,710.20
	Add cost of hire and running charges of mixer, vibrator, water pump etc.	@	2.0%			₹	194.20
	ristator, trator pamp etc.			1		₹	9,904.40
	Add for construction of casting platform, curing tank, building paper, cost of moulds and mould oil etc.	@	5%			₹	495.22
	and modia on etc.					₹	10,399.62
	Add for hoisting arrangement including scaffolding pullies, ropes etc	@	4%			₹	415.98
	- J			1		₹	10,815.60
	Add for Sundries and contingencies	@	3%	1		₹	324.47
	Add for Surfactos and Contingencies	<u> </u>	J /0	1		₹	11,140.07
	Add for water charges & electricity	@	1.5%	1		₹	
	Aud for water charges & electricity	w	1.3%	1		_	167.10 11,307.17
	Add CCT (notimb. sing of factors)		0.1405	1		₹	
	Add GST (multiplying factor)		0.1405	1		₹	1,588.66
		1				₹	12,895.83

Code	Discription	Unit	Quantity	Rate	Amount
	Add for contractor's profit and overheads	@	15%		₹ 1,934.37
					₹ 14,830.20
	Add cess	@	1%		₹ 148.30
	Cost of pre-cast concrete for copings of 1 cum. Quantity				₹ 14,978.50
	Rate per cum.	Say			₹ 14,978.50

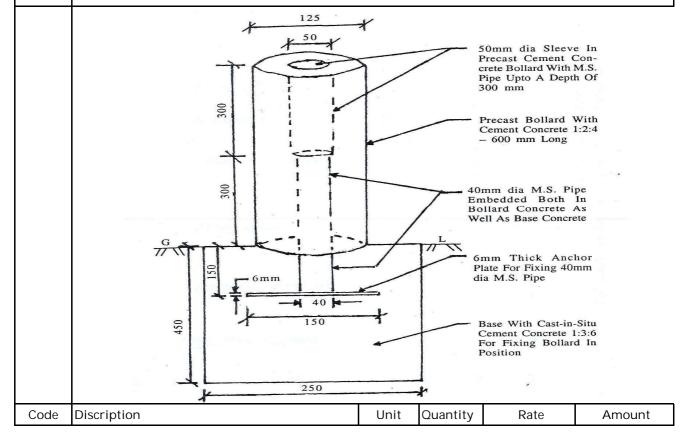
4.7	Providing and fixing upto floor five level prec and setting in position with cement mortar 1 : required centering, shuttering and finishing si cement : 3 fine sand) on exposed surface comp	3 (1 cem mooth wi	nent : 3 fine	saı	nd) includir	ng th	ne cost of
4.7.1	1:11/2:3 (1 Cement: 11/2 fine sand : 3 graded stone	e aggrega	te 20 mm n	omi	nal size)		
Code	Discription	Unit	Quantity		Rate		Amount
	No. of solid blocks =667 Nos.						
	Size of solid block 200x100x75 mm						
	Qty: 667x0.20x0.10x0.075 = 1.00 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.6615	₹	4,875.00	₹	3,224.81
04007	Stone aggregate 12mm	cum	0.2205	₹	4,785.00	₹	1,055.09
02003	Fine sand	cum	0.441	₹	560.00	₹	246.96
03001	Cement	tonne	0.4	₹	5,800.00	₹	2,320.00
03001	Cement for fixing and finishing	tonne	0.093	₹	5,800.00	₹	539.40
02003	Sand for fixing and finishing	cum	0.1953	₹	560.00	₹	109.37
	CARRIAGE						
0405	Stone aggregate	cum	0.8820	₹	147.57	₹	130.16
0425	Fine sand	cum	0.6363	₹	131.75	₹	83.83
0421	Cement	tonne	0.4930	₹	102.47	₹	50.52
	LABOUR [for Pre-casting]:						
0216	Foreman	Day	0.10	₹	440.00	₹	44.00
0218*	Mason	Day	0.250	₹	420.00	₹	105.00
0203	Beldar (M)	Day	1.00	₹	310.00	₹	310.00
0212	Coolie (F)	Day	1.00	₹	310.00	₹	310.00
0205	Bhishti/Waterman	Day	0.125	₹	310.00	₹	38.75
	LABOUR [for scaffolding, hoisting, fixing and						
	finishing blocks]:						
0216	Foreman	Day	0.1	₹	440.00	₹	44.00
0218*	Mason	Day	0.500	₹	420.00	₹	210.00
0203	Beldar (M)	Day	1.25	₹	310.00	₹	387.50
0212	Coolie (F)	Day	1.25	₹	310.00	₹	387.50
0205	Bhishti/Waterman	Day	0.050	₹	310.00	₹	15.50
						₹	9,612.39
	Add for 6 mm thick cement plaster 1:3	@	5.0%			₹	480.62
						₹	10,093.01
	Add cost of hire and running charges of mixer, table vibrator and moulds for casting, water pumpetc.	@	5.0%			₹	504.65
						₹	10,597.66
	Add for construction of casting platform, curing tank, building paper, cost of moulds and mould oil etc.	@	3%			₹	317.93
						₹	10,915.59
	Add for Hoisting arrangements including scaffolding, pullies, ropes etc.	@	4%			₹	436.62
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					₹	11,352.21
	Add for Sundries and contingencies	@	3%			₹	340.57
		J	3.0			₹	11,692.78
	Add for water charges & electricity	@	1.5%			₹	175.39
	. i.a water energes a creek forty	Ú	1.070			₹	11,868.17
			I			L `	11,000.17

Code	Discription	Unit	Quantity	Rate		Amount
	Add GST (multiplying factor)		0.1405		₹	1,667.48
					₹	13,535.65
	Add for contractor's profit and overheads	@	15%		₹	2,030.35
					₹	15,566.00
	Add cess	@	1%		₹	155.66
	Cost of 1 cum. Pre-cast solid blocks				₹	15,721.66
	Rate per cum.	Say			₹	15,721.70

4.8	Providing and fixing upto floor five level prechoisting and setting in position with cement most of required centering, shuttering and finit (1 cement: 3 fine sand) on exposed surface contents.	nortar 1 : shing sm	3 (1 cemei	nt :	3 fine sand)	inc	luding the
4.8.1	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone	e aggrega	te 20 mm n	om	inal size)		
Code	Discription	Unit	Quantity		Rate		Amount
	No. of Hollow blocks =34 Nos. Overall Size of block 500x200x300 mm Size of hollow provided 100x100x300 mm No. of hollows = 3 nos. per block Qty. of Concrete in 34 blocks excluding hollow portion = 34x0.50x0.20x0.30 = 1.02 cum say 1.00 cum. Vol. occupied by hollows = 34x3x0.1x0.1x0.3 = 0.306 cum % of hollows = 30%						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.459	₹	4,875.00	₹	2,237.63
04007	Stone aggregate 12mm	cum	0.153	₹	4,785.00	₹	732.11
02003	Fine sand	cum	0.306	₹	560.00	₹	171.36
03001	Cement	tonne	0.278	₹	5,800.00	₹	1,610.08
03001	Cement for fixing and finishing	tonne	0.0446	₹	5,800.00	₹	258.68
02003	Sand for fixing and finishing	cum	0.09366	₹	560.00	₹	52.45
	CARRIAGE						
0405	Stone aggregate	cum	0.6120	₹	147.57	₹	90.31
0425	Fine sand	cum	0.3997	₹	131.75	₹	52.66
0421	Cement	tonne	0.3222	₹	102.47	₹	33.02
	LABOUR [for Pre-casting]:						
0216	Foreman	Day	0.05	₹	440.00	₹	22.00
0218*	Mason	Day	0.250	₹	420.00	₹	105.00
0203	Beldar (M)	Day	0.55	₹	310.00	₹	170.50
0212	Coolie (F)	Day	0.55	₹	310.00	₹	170.50
0205	Bhishti/Waterman	Day	0.050	₹	310.00	₹	15.50
	LABOUR [for scaffolding, hoisting, fixing and finishing blocks]:						
0216	Foreman	Day	0.05	₹	440.00	₹	22.00
0218*	Mason	Day	0.500	₹	420.00	₹	210.00
0203	Beldar (M)	Day	1.25	₹	310.00	₹	387.50
0212	Coolie (F)	Day	1.25	₹	310.00	₹	387.50
0205	Bhishti/Waterman	Day	0.050	₹	310.00	₹	15.50
						₹	6,744.30
	Add cost of hire and running charges of mixer, table vibrator, moulds for casting, water pump etc.	@	10.0%			₹	674.43
						₹	7,418.73
	Add for construction of casting platform, curing tank, building paper, cost of moulds and mould oil etc.	@	7%			₹	519.31
						₹	7,938.04

Code	Discription	Unit	Quantity	Rate	Amount
	Add for Hoisting arrangements including scaffolding, pullies, ropes etc.	@	3%		₹ 238.14
					₹ 8,176.18
	Add for Sundries and contingencies	@	3%		₹ 245.29
					₹ 8,421.47
	Add for water charges & electricity	@	1.5%		₹ 126.32
					₹ 8,547.79
	Add GST (multiplying factor)		0.1405		₹ 1,200.96
					₹ 9,748.75
	Add for contractor's profit and overheads	@	15%		₹ 1,462.31
					₹ 11,211.06
	Add cess	@	1%		₹ 112.11
	Cost of 1 cum. Pre-cast hollow blocks				₹ 11,323.17
	Rate per cum.	Say			₹ 11,323.20

Precasting and placing in position 125 mm dia Bollards 600 mm high of required shape including providing M.S. Pipe Sleeve 50 mm dia 300 mm long in the Bollard and M.S. Pipes 40 mm dia and 450 mm long with 150x150x6mm M.S. plate welded at bottom and embedded 150mm in cement concrete 1:3:6 (1cement:3fine sand:6graded stone aggregate 20 mm nomonal size) including necessary excavation of size 250x250x450 mm deep for the same in bitumen/concrete pavement at specified spacing.



Code	Discription	Unit	Quantity		Rate		Amount
	No. of bollards 150 Nos. overall size of bollard = 125mm dia 600mm depth Mode of concrete: Precast Net quantity of precast concrete of one bollard = $\pi x 0.1252/4x 0.60=0.00736$ - [($\pi x 0.052/4x 0.30=0.000589$)+ ($\pi x 0.042/4x 0.30=0.000377$)]=0.006394 Total quantity of 150 bollards=150x0.006394=0.9591 cum say 1.00cum. Materials Note: This is a very small member in addition the pipes are embedded with the result the width available for concreting is just 35 to 40 mm or less, where using of 20mm size stone aggregate will not be feasible. Hence for this particular item only 12 mm graded stone aggretgate is propose, instead of 20 mm stone aggregate.						
	MATERIALS						
	Cement concrete 1:2:4 proportion						
04007	Stone aggregate 12mm	cum	0.94	₹	4,785.00	₹	4,497.90
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Stone aggregate	cum	0.9400	₹	147.57	₹	138.72
0425	Fine sand	cum	0.4700	₹	131.75	₹	61.92
0421	Cement	tonne	0.3200	₹	102.47	₹	32.79
	Steel items						
04019	50 mm dia MS pipes 150x0.30=45m	m	45	₹	340.00	₹	15,300.00
04018	40 mm dia MS pipes 150x0.45=67.5m	m	67.5	₹	300.00	₹	20,250.00
05041	6mm thick MS plate	q	1.59	₹	4,800.00	₹	7,632.00
	150x0.15x0.15 = 3.375sqm=1.59q CARRIAGE				-		-
0468	Steel items 50 mm dia MS pipes=45m@5.10=0.23t 40mm dia MS pipe=67.5m@3.61 =0.24t 6mm thick MS plate = 3.375sqm@47.10=0.16t	tonne	0.6300	₹	102.47	₹	64.56
MR	Cutting MS pipes, MS plate to size and welding pipe to plate for 150 bollards LABOUR [for casting and fixing]:	Nos.	150	₹	45.00	₹	6,750.00
0216	Foreman	Day	0.05	₹	440.00	₹	22.00
0218*	Mason	Day	0.600	₹	420.00	₹	252.00
0203	Beldar (M)	Day	1.00	₹	310.00	₹	310.00
0212	Coolie (F)	Day	0.75	₹	310.00	₹	232.50
0205	Bhishti/Waterman	Day	0.050	₹	310.00	₹	15.50
						₹	57,679.09
	Add cost of hire and running charges of mixer, moulds for casting, water pump etc.	@	4.0%			₹	2,307.16
						₹	59,986.25
	Add for construction of casting platform, curing tank, mould oil etc.	@	2%			₹	1,199.73
						₹	61,185.98
	Add for Sundries and contingencies	@	3%			₹	1,835.58
						₹	63,021.56
	Add for water charges & electricity	@	1.5%			₹	945.32
						₹	63,966.88
	Add GST (multiplying factor)		0.1405			₹	8,987.35
						₹	72,954.23
	Add for contractor's profit and overheads	@	15%			₹	10,943.13
						₹	83,897.36
			1%			₹	838.97

Code	Discription	Unit	Quantity	Rate		Amount
	Cost of precasting 150 nos. bollords of 1 cum quantity				₹	84,736.33
	Ancillary items for fixing 150 nos. bollards					
	Excavation in all kind of soil 150x0.25x0.25x0.30 = 2.81cum	cum	4.22	₹ 169.50	₹	715.29
	Cement Concrete (cast in situ) 1:3:6 proportion 150x0.25x0.25x0.45 = 4.22 cum	cum	4.22	₹ 9,872.10	₹	41,660.26
	Net Cost of precasting and fixing in position 150 nos. bollords of 1 cum quantity				₹	1,27,111.88
	Cost of precasting and fixing one bollard				₹	847.41
		Say			₹	847.40

	DAMP PROOF COURSE ITEMS									
4.10	4.10 Providing and laying damp-proof course with cement concrete 1:2:4 (1 cement: 2 fine sand : 4 graded stone aggregate 12.5mm nominal size).									
4.10.1	D.P.C. 40 mm thick									
Code	Discription	Unit	Quantity		Rate		Amount			
	Details of cost for 12 sqm area: Size of damp proof course 1x60.0x0.2 = 12.00 sqm MATERIALS									
04007	Stone aggregate 12.5mm	cum	0.451	₹	4,785.00	₹	2,158.04			
02003	Fine sand	cum	0.225	₹	560.00	₹	126.00			
03001	Cement	tonne	0.1535	₹	5,800.00	₹	890.30			
	CARRIAGE									
0405	Stone aggregate	cum	0.451	₹	147.57	₹	66.55			
0425	Fine sand	cum	0.225	₹	131.75	₹	29.64			
0421	Cement	tonne	0.1535	₹	102.47	₹	15.73			
	LABOUR:									
0218*	Mason	Day	0.60	₹	420.00	₹	252.00			
0203	Beldar (M)	Day	0.82	₹	310.00	₹	254.20			
0205	Bhishti/Waterman	Day	0.37	₹	310.00	₹	114.70			
0113	Add cost of hire and running charges of mixer	Day	0.050	₹	1,150.00	₹	57.50			
0129	Add cost of hire and running charges of vibrator	Day	0.050	₹	395.00	₹	19.75			
	Add for chute, ladders etc [L.S.]					₹	15.00			
						₹	3,999.41			
	Add for water charges	@	1.0%			₹	39.99			
	, and the second					₹	4,039.40			
	Add GST (multiplying factor)		0.1405			₹	567.54			
	, , , , , , , , , , , , , , , , , , ,					₹	4,606.94			
	Add for contractor's profit and overheads	@	15%			₹	691.04			
						₹	5,297.98			
	Add cess	@	1%			₹	52.98			
	Cost of 40 mm thick damp proof coarse for 12 sqm area					₹	5,350.96			
	Rate per sqm.					₹	445.91			
		Say				₹	445.90			

		Providing and laying damp-proof course with cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size).
İ	4.11.1	D.P.C. 50 mm thick

Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 12 sqm area:						
	Size of damp proof course						
	1x60.0x0.2 = 12.00 sqm						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.423	₹	4,875.00	₹	2,062.13
04007	Stone aggregate 12.5mm	cum	0.141	₹	4,785.00	₹	674.69
02003	Fine sand	cum	0.282	₹	560.00	₹	157.92
03001	Cement	tonne	0.192	₹	5,800.00	₹	1,113.60
	CARRIAGE						
0405	Stone aggregate	cum	0.564	₹	147.57	₹	83.23
0425	Fine sand	cum	0.282	₹	131.75	₹	37.15
0421	Cement	tonne	0.192	₹	102.47	₹	19.67
	LABOUR:						
0218*	Mason	Day	0.65	₹	420.00	₹	273.00
0203	Beldar (M)	Day	1.00	₹	310.00	₹	310.00
0205	Bhishti/Waterman	Day	0.45	₹	310.00	₹	139.50
0113	Add cost of hire and running charges of mixer	Day	0.050	₹	1,150.00	₹	57.50
0129	Add cost of hire and running charges of vibrator	Day	0.050	₹	395.00	₹	19.75
	Add for chute, ladders etc [L.S.]					₹	20.00
						₹	4,968.14
	Add for water charges	@	1.0%			₹	49.68
	- 1-1-1 - 1-					₹	5,017.82
	Add GST (multiplying factor)		0.1405			₹	705.00
	rad GST (martiplying factor)		0.1403			₹	5,722.82
						`	3,722.02
	Add for contractor's profit and overheads	@	15%			₹	858.42
						₹	6,581.24
	Add cess	@	1%			₹	65.81
	Cost of 50 mm thick damp proof coarse for 12 sqm area	_				₹	6,647.05
	Rate per sqm.					₹	553.92
		Say				₹	553.90

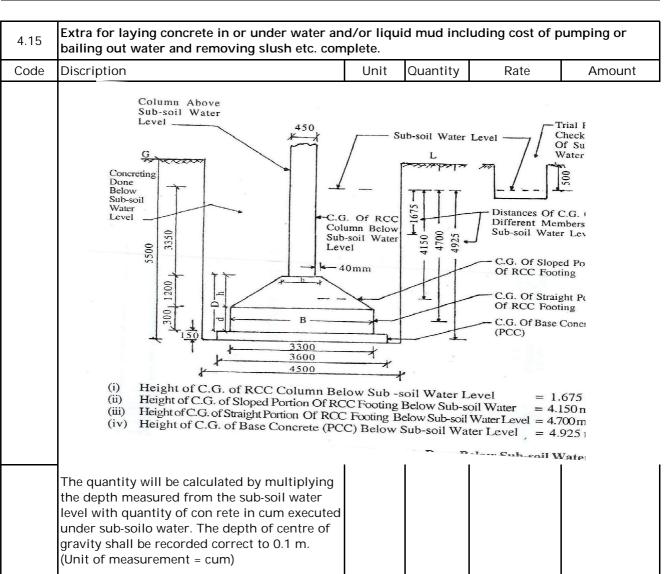
4.12	Extra for providing and mixing water proofing kg of cement.	g material i	in cement	concrete work	@ 1 kg per 50
	i) This item should not be considered for payment in case the water proofing materials in the form of liquid is used. ii)For carriage of water proofing material in the form of powder the carriage being paid for cement can be considered. iii)For doing the water proofing work perfectly the required number of cement bags for particular item should be opened and the water proofing compound mixed and the whole quantity of cement in the bag should be perfectly blended with water proofing compound only in such cases this item should be allowed. iv)Normally the contractors mix the compound directly in the mixer and this method is totally defective and will not serve any purpose.				

Code	Discription	Unit	Quantity	Rate	Amount
	MATERIALS				
04015	Water proofing materials of approved brand	kg	1.00	₹ 37.00	₹ 37.00
	CARRIAGE				
0421	Water proofing materials	tonne	0.001	₹ 102.47	₹ 0.10
	LABOUR:				
	For removing cement from bag mixing materials and refilling the bag				
0203	Beldar (M)	Day	0.03	₹ 310.00	₹ 9.30
					₹ 46.40
	Add GST (multiplying factor)		0.1405		₹ 6.52
					₹ 52.92
	Add for contractor's profit and overheads	@	15%		₹ 7.94
					₹ 60.86
	Add cess	@	1%		₹ 0.61
	Cost of mixing 1 kg water proofing powder in 50 kg cement				₹ 61.47
	Rate per kg	Say			₹ 61.50

4.13	Providing & applying a coat of residual petro using 1.7kg per square metre on damp proof finally with a piece of cloth lightly soaked in	f course af	ter cleaning				
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 10 sqm area:						
	MATERIALS						
04011	Paving bitumen VG-10 of approved quality	t	0.017	₹	39,335.00	₹	668.70
02004	Kerosene oil	litre	1.23	₹	52.00	₹	63.96
04012	Fuel (steam coal) for heating	q	0.035	₹	890.00	₹	31.15
	CARRIAGE						
0472	Bitumen fuel, kerosene etc.	t	0.017	₹	102.47	₹	1.74
	LABOUR:						
0218*	Mason	Day	0.20	₹	420.00	₹	84.00
0203	Beldar (M)	Day	0.25	₹	310.00	₹	77.50
						₹	927.05
	Add for Brushes for cleaning and applying bitumen, cloth etc.	@	1.50%			₹	13.91
						₹	940.96
	Add GST (multiplying factor)		0.1405			₹	132.20
						₹	1,073.16
	Add for contractor's profit and overheads	@	15%			₹	160.97
						₹	1,234.13
	Add cess	@	1%			₹	12.34
	Cost of applying bitumen for 10 sqm area					₹	1,246.47
	Rate per sqm.					₹	124.65
		Say				₹	124.70

Code	Discription	Unit	Quantity	Rate	Amount			
MISCELLANEOUS ITEMS								

4.14	Extra for concrete work in superstructure at thereof.	oove floor	V level for	each	four floors	s or p	art
	Details of cost for 1 cum						
	LABOUR:						
0212	Coolie (F)	Day	1.50	₹	310.00	₹	465.00
						₹	465.00
	Add for water charges	@	1.0%			₹	4.65
						₹	469.65
	Add GST (multiplying factor)		0.1405			₹	65.99
						₹	535.64
	Add for contractor's profit and overheads	@	15%			₹	80.35
						₹	615.99
	Add cess	@	1%			₹	6.16
	Additional Rate per cum of the respective items above floor five level					₹	622.15
		Say				₹	622.20



Code	Discription	Unit	Quantity	Rate	P	Amount
	Quantities of concreting done for different members below sub-soil water level i) RCC column = $1\times0.45\times0.45\times3.35 = 0.68$ cum (ii) Sloped portion of RCC footing = $1.20/3\{(3.3\times3.3)+(0.53\times0.53)+\sqrt{(10.89\times0.2809)}\}$ = 5.17 cum say 5.20 cum (iii) Bottom straight portion of footing = $1\times3.3\times3.3\times0.3 = 3.267$ cum					
	However, these are all reinforced cement concrete items which will be dealt only in the similar item under SH. RCC. Therefore in this particular chapter we are concerned only with plain cement concrete (PCC) and in this only item under PCC is laying of cement concrete for the base of footing. Hence let us calculate the cost of laying the bottom concrete for the base and the cost of laying the remaining items will be calculated in the similar item under SH. RCC section 5.00					
	Operational input for calculating extra rate for pumping water for laying cement concrete 1:3:6 under water/liquid mud for 1.944 cum per 5.00 m depth					
	Consider the column pit shown in Fig to be dewatered to lay the base Concrete: Qty. of base concrete = 1x3.6x3.6x0.15 = 1.944 cum Qty. of dewatering or pumping out liquid mud with pumps of pumping capacity 4.00 kilo litres per hour or 3500 litres per hour = 4.5x4.5x5.00 = 101.25 cum or say 101 cum i.e. 101x1000 litres /cum = 101000 litres Period required for pumps 101000 litres of water = 101000/4000 = 25.25 hours. Add extra hours for keeping pump in operation for concreting and till initial set = 4 hours (approx.) Hence, Total pumping time = 25.25+4=29.25/8 = 3.66 days say 4 days					
0117	Hire charge of Pump set of capacity 4000 litres/hour LABOUR:	day	4	₹ 720.00	₹	2,880.00
0214	•	Day	1.00	¥ 440.00	₹	440.00
0216 0203	Foreman Beldar (M)	Day	1.00 6.00	₹ 440.00 ₹ 310.00	₹	440.00 1,860.00
0203	DEIGGI (IVI)	Day	0.00	\$ 310.00	₹	5,180.00
	Add for water charges	@	1.0%		₹	51.80
	Add for water charges	<u> </u>	1.070		₹	5,231.80
	Add GST (multiplying factor)		0.1405		₹	735.07
	cor (manipiying ractor)		0.1100		₹	5,966.87
	Add for contractor's profit and overheads	@	15%		₹	895.03
			+		₹	6,861.90
	Add cess	@	1%		₹	68.62
	-		-	•		

Code	Discription	Unit	Quantity	Rate	Amount	
	Extra cost of pumping water for laying 1.944 cum cement concrete at 5.00 m depth				₹	6,930.52
	Extra rate per cum/meter depth				₹	713.02
		Say			₹	713.00

4.16	Extra for laying concrete in or under foul pos	sitions.					
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	EXTRA LABOUR:						
0218*	Mason (average)	Day	0.04	₹	420.00	₹	16.80
0203	Beldar (M)	Day	0.25	₹	310.00	₹	77.50
0212	Coolie	Day	0.15	₹	310.00	₹	46.50
						₹	140.80
	Add for water charges	@	1%			₹	1.41
						₹	142.21
	Add GST (multiplying factor)		0.1405			₹	19.98
						₹	162.19
	Add for contractor's profit and overheads	@	15%			₹	24.33
						₹	186.52
	Add cess	@	1%			₹	1.87
	Cost of laying 1 cum of concrete in foul position					₹	188.39
	Rate per cum	Say				₹	188.40

4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 fine sand : 6 graded well burnt brick aggregate 20 mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.								
Code	Discription	Unit	Quantity		Rate		Amount		
	Area of plinth protection 25.00x0.80 = 20.00 sqm								
	(i) 75 mm thick bed of dry brick ballast								
	MATERIALS								
04001	40 mm size brick ballast	cum	1.5	₹	3,452.00	₹	5,178.00		
02003	Fine sand	cum	0.1	₹	560.00	₹	56.00		
	CARRIAGE								
0404	40 mm size brick ballast	cum	1.5	₹	159.56	₹	239.34		
0425	Fine sand	cum	0.1	₹	131.75	₹	13.18		
	LABOUR:								
0216	Foreman	Day	0.10	₹	440.00	₹	44.00		
0203	Beldar (M)	Day	0.10	₹	310.00	₹	31.00		
0212	Coolie (F)	Day	0.11	₹	310.00	₹	34.10		
						₹	5,595.62		
	(ii) Cement concrete 1:3:6 with 20 mm brick aggregate 1x25.0x0.80x0.05 = 1.00 cum	cum	1.00	₹	8,686.10	₹	8,686.10		
						₹	14,281.72		
	Add for water charges [except (ii)]	@	1.5%			₹	83.93		
						₹	14,365.65		
	Add GST (multiplying factor) [except (ii)]		0.1405			₹	797.98		
						₹	15,163.63		
	Add for contractor's profit and overheads [except (ii)]	@	15%			₹	971.63		
						₹	16,135.26		
	Add cess [except (ii)]	@	1%			₹	74.49		

Code	Discription	Unit	Quantity	Rate		Amount
	Cost of plinth protection for an area of 20 sqm				₹	16,209.75
	Rate per sqm.				₹	810.49
		Say			₹	810.50

4.18	Extra for addition of synthetic Polyester triangular fibre of length 12mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement concrete/RCC /Flooring /water retaining structures 125gms of synthetic Polyester triangular fibre for 50 Kg cement used as per directions of Engineer-in-Charge.							
Code	Discription	Unit	Quantity	Rate	Amount			
	MATERIALS							
	Synthetic polyester triangular fibre of length 12mm, effective dia 10-40 microns and specific gravity of 1.34 to 1.40	kg	0.125	₹ 380.00	₹ 47.50			
					₹ 47.50			
	Add for water charges	@	1%		₹ 0.48			
					₹ 47.98			
	Add GST (multiplying factor)		0.1405		₹ 6.74			
					₹ 54.72			
	Add for contractor's profit and overheads	@	15%		₹ 8.21			
					₹ 62.93			
	Add cess	@	1%		₹ 0.63			
	Cost per bag of 50 kg of cement				₹ 63.56			
		Say			₹ 63.60			

Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. 4.19 from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. Note: 1) Excess/less cement used than specified in this item is payable/ recoverable separately. 4.19.1 All works upto plinth level: 4.19.1.1 M-15 grade plain cement concrete (cement content considered @ 240 kg/cum) Code Unit Discription Quantity Rate Amount Details of cost for 1 cum Stone aggregate 40mm nominal size 04004 (0.70 - 7.5% for voids i.e. 0.05 = 0.65 4,692.00 ₹ cum 3,049.80 0.65 cum) 0.24 04006 Stone aggregate 20mm nominal size cum 4,875.00 1,170.00 0.47 02003 Fine sand ₹ 560.00 263.20 cum 0.24 ₹ 5,800.00 1,392.00 03001 Cement tonne ₹ 05046 Plasticizer / super plasticizer 1.2 39.00 46.80 kg CARRIAGE 0404 Stone aggregate 40 mm and above 0.65 ₹ 159.56 103.71 cum Stone aggregate below 40 mm 0405 0.24 ₹ 147.57 cum 35.42 0.47 ₹ 0425 Fine sand 131.75 61.92 cum 0.24 ₹ 0421 Cement 102.47 24.59 tonne ₹ 0124 Production cost of concrete by batch mix plant. 1.00 400.00 ₹ 400.00 cum 0101 km/cum 10 ₹ 32.00 ₹ 320.00 Carriage of concrete by transit mixer.

Code	Discription	Unit	Quantity	Rate		Amount
0125	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	₹ 220.00	₹	220.00
0129	Vibrator (Needle type 40 mm)	day	0.07	₹ 395.00	₹	27.65
	LABOUR:					
0218*	Mason	Day	0.170	₹ 420.00	₹	71.40
0203	Beldar (M)	Day	2.00	₹ 310.00	₹	620.00
0205	Bhishti/Waterman	Day	0.900	₹ 310.00	₹	279.00
	Add for Sundries [LS]				₹	30.00
					₹	8,115.49
	Add for water charges	@	1.0%		₹	81.15
					₹	8,196.64
	Add GST (multiplying factor)		0.1405		₹	1,151.63
					₹	9,348.27
	Add for contractor's profit and overheads	@	15%		₹	1,402.24
					₹	10,750.51
	Add cess	@	1%		₹	107.51
	Cost of providing and laying 1 cum. of cement concrete by design mix for concrete Grade M-15				₹	10,858.02
	Rate per cum.	Say			₹	10,858.00

4.19.1.2	M-10 grade plain cement concrete (cement cont	ent consic	lered @ 220) kg	/cum)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	Stone aggregate 40mm nominal size						
04004	(0.70 - 7.5% for voids i.e. 0.05 =	cum	0.65	₹	4,692.00	₹	3,049.80
	0.65 cum)						
	Stone aggregate 20mm nominal size	cum	0.24	₹	4,875.00	₹	1,170.00
	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.22	₹	5,800.00	₹	1,276.00
05046	Plasticizer / super plasticizer	kg	1.1	₹	39.00	₹	42.90
	CARRIAGE						
0404	Stone aggregate 40 mm and above	cum	0.65	₹	159.56	₹	103.71
0405	Stone aggregate below 40 mm	cum	0.24	₹	147.57	₹	35.42
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.22	₹	102.47	₹	22.54
0124	Production cost of concrete by batch mix plant.	cum	1.00	₹	400.00	₹	400.00
0101	Carriage of concrete by transit mixer.	km/cum	10	₹	32.00	₹	320.00
0125	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	₹	220.00	₹	220.00
0129	Vibrator (Needle type 40 mm)	day	0.07	₹	395.00	₹	27.65
0	LABOUR:			₹	-		
0218*	Mason	Day	0.170	₹	420.00	₹	71.40
0203	Beldar (M)	Day	2.00	₹	310.00	₹	620.00
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
	Add for Sundries [LS]					₹	30.00
						₹	7,993.54
	Add for water charges	@	1.0%			₹	79.94
	<u> </u>					₹	8,073.48
	Add GST (multiplying factor)		0.1405			₹	1,134.32
						₹	9,207.80
	Add for contractor's profit and overheads	@	15%			₹	1,381.17
						₹	10,588.97

Code	Discription	Unit	Quantity	Rate		Amount
	Add cess	@	1%		₹	105.89
	Cost of providing and laying 1 cum. of plain cement concrete by design mix for concrete Grade M-10				₹	10,694.86
	Rate per cum.	Say			₹	10,694.90

	All works above plinth and upto floor V level :				, ,		
4.19.2.1	M-15 grade plain cement concrete (cement cont	ent consic	lered @ 240) kg	/cum)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
	Stone aggregate 40mm nominal size						
04004	(0.70 - 7.5% for voids i.e. 0.05 =	cum	0.65	₹	4,692.00	₹	3,049.80
	0.65 cum)						
04006	Stone aggregate 20mm nominal size	cum	0.24	₹	4,875.00	₹	1,170.00
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.24	₹	5,800.00	₹	1,392.00
05046	Plasticizer / super plasticizer	kg	1.2	₹	39.00	₹	46.80
	CARRIAGE						
0404	Stone aggregate 40 mm and above	cum	0.65	₹	159.56	₹	103.71
0405	Stone aggregate below 40 mm	cum	0.24	₹	147.57	₹	35.42
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.24	₹	102.47	₹	24.59
0124	Production cost of concrete by batch mix plant.	cum	1.00	₹	400.00	₹	400.00
0101	Carriage of concrete by transit mixer.	km/cum	10	₹	32.00	₹	320.00
	Pumping charges of concrete including Hire						
0125	charges of pump, piping work & accessories etc.	cum	1.00	₹	220.00	₹	220.00
0129	Vibrator (Needle type 40 mm)	day	0.07	₹	395.00	₹	27.65
	LABOUR:			₹	-		
0218*	Mason	Day	0.170	₹	420.00	₹	71.40
0203	Beldar (M)	Day	2.00	₹	310.00	₹	620.00
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0212	Coolie	Day	1.880	₹	310.00	₹	582.80
	Add for Sundries [LS]					₹	30.00
						₹	8,698.29
	Add for water charges	@	1.0%			₹	86.98
						₹	8,785.27
	Add GST (multiplying factor)		0.1405			₹	1,234.33
	, , ,					₹	10,019.60
	Add for contractor's profit and overheads	@	15%			₹	1,502.94
						₹	11,522.54
	Add cess	@	1%			₹	115.23
	Cost of providing and laying 1 cum. of cement concrete by design mix for concrete Grade M-15					₹	11,637.77
	Rate per cum.	Say				₹	11,637.80

4.19.2.2	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)									
Code	Discription	Unit	Quantity		Rate	,	Amount			
	Details of cost for 1 cum									
	MATERIALS									
04004	Stone aggregate 40mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	₹	4,692.00	₹	3,049.80			
04006	Stone aggregate 20mm nominal size	cum	0.24	₹	4,875.00	₹	1,170.00			

Code	Discription	Unit	Quantity		Rate		Amount
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.22	₹	5,800.00	₹	1,276.00
05046	Plasticizer / super plasticizer	kg	1.1	₹	39.00	₹	42.90
	CARRIAGE	J					
0404	Stone aggregate 40 mm and above	cum	0.65	₹	159.56	₹	103.71
0405	Stone aggregate below 40 mm	cum	0.24	₹	147.57	₹	35.42
0425	Fine sand	cum	0.47	₹	131.75	₹	61.92
0421	Cement	tonne	0.22	₹	102.47	₹	22.54
0124	Production cost of concrete by batch mix plant.	cum	1.00	₹	400.00	₹	400.00
0101	Carriage of concrete by transit mixer.	km/cum	10	₹	32.00	₹	320.00
0125	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	₹	220.00	₹	220.00
0129	Vibrator (Needle type 40 mm)	day	0.07	₹	395.00	₹	27.65
	LABOUR:			₹	-		
0218*	Mason	Day	0.170	₹	420.00	₹	71.40
0203	Beldar (M)	Day	2.00	₹	310.00	₹	620.00
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0212	Coolie	Day	1.880	₹	310.00	₹	582.80
	Add for Sundries [LS]					₹	30.00
						₹	8,576.34
	Add for water charges	@	1.0%			₹	85.76
						₹	8,662.10
	Add GST (multiplying factor)		0.1405			₹	1,217.03
						₹	9,879.13
	Add for contractor's profit and overheads	@	15%			₹	1,481.87
						₹	11,361.00
	Add cess	@	1%			₹	113.61
	Cost of providing and laying 1 cum. of plain cement concrete by design mix for concrete Grade M-10					₹	11,474.61
	Rate per cum.	Say				₹	11,474.60

SUB HEAD: 5.0 REINFORCED CEMENT CONCRETE WORK

- 1. Sand can be either coarse or fine as required/available. Here, provision of fine sand is considered only due to nonavailability of coarse sand in Tripura. However, design of concrete dictates for use of coarse sand, then seperate analysis may be made as per site condition.
- The quantities of Cement, sand and coarse aggregates are as per Table No. 3.2. Chapter 4
 Cement concrete with volumetric mix proportion cannot be termed as concrete of specific grade, because as per IS Code, only the design mix grades of concrete are specified as concrete grade M-15, concrete grade M-20 etc. Hence in this case it should be mix proportion 1:1:2, 1:2:4 etc. for batching with specified proportion.
- 4. The calculations are based on the assumption that 20 cum. to 25 cum. concrete would be laid in a day.
- 5. The provision of waterman is mainly for feeding water for mixing and other water requirements during concreting.
- 6. The expenses for curing will be covered by the provision of Water Charges.

	REINFORCED CEMENT CONCRETE [CA	AST-IN-S	ITU] -UPTC) PL	INTH LEVE		
5.1	Providing and laying in position specified groost of centring, shuttering, finishing and reir			cen	nent concre	te e	xcluding the
	-All work upto plinth level:						
5.1.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone ag	ggregate	20 mm noi	mina	al size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.675	₹	4,875.00	₹	3,290.63
04007	Stone aggregate 12mm	cum	0.225	₹	4,785.00	₹	1,076.63
02003	Fine sand	cum	0.45	₹	560.00	₹	252.00
03001	Cement	tonne	0.61	₹	5,800.00	₹	3,538.00
	CARRIAGE						
	Stone aggregate	cum	0.9	₹	159.75	₹	143.78
0425	Fine sand	cum	0.45	₹	142.63	₹	64.18
0421	Cement	tonne	0.61	₹	110.94	₹	67.67
	LABOUR:						
0218*	Mason	Day	0.170	₹	420.00	₹	71.40
0203	Beldar (M)	Day	2.00	₹	310.00	₹	620.00
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
						₹	9,403.29
	Add for water charges	@	1.0%			₹	94.03
	9					₹	9,497.32
	Add GST (multiplying factor)		0.1405			₹	1,334.37
	i and the control of					₹	10,831.69
	Add for contractor's profit and overheads	@	15%			₹	1,624.75
						₹	12,456.44
	Add cess	@	1%			₹	124.56
	Cost of providing and laying 1 cum. of cement concrete				_	₹	12,581.00
	Rate per cum.	Say				₹	12,581.00

5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement-									
	-All work upto plinth level:									
5.1.2	1:1½:3 (1 Cement: 1½ fine sand: 3 graded stone aggregate 20 mm nominal size)									
Code	Discription	Unit	Quantity	Rate	Amount					
	Details of cost for 1 cum									
	MATERIALS									
04006	Stone aggregate 20mm	cum	0.6615	₹ 4,875.00	₹ 3,224.81					
04007	Stone aggregate 12mm	cum	0.2205	₹ 4,785.00	₹ 1,055.09					
02003	Fine sand	cum	0.441	₹ 560.00	₹ 246.96					

03001	Cement	tonne	0.40	₹	5,800.00	₹	2,320.00
	CARRIAGE						
0405	Stone aggregate	cum	0.882	₹	159.75	₹	140.90
0425	Fine sand	cum	0.441	₹	142.63	₹	62.90
0421	Cement	tonne	0.40	₹	110.94	₹	44.38
	LABOUR:						
0218*	Mason	Day	0.170	₹	420.00	₹	71.40
0203	Beldar (M)	Day	2.00	₹	310.00	₹	620.00
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
						₹	8,202.59
	Add for water charges	@	1.0%			₹	82.03
						₹	8,284.62
	Add GST (multiplying factor)		0.1405			₹	1,163.99
						₹	9,448.61
	Add for contractor's profit and overheads	@	15%			₹	1,417.29
						₹	10,865.90
	Add cess	@	1%			₹	108.66
	Cost of providing and laying 1 cum. of cement concrete					₹	10,974.56
	Rate per cum.	Say				₹	10,974.60

5.1	Providing and laying in position specified grost of centring, shuttering, finishing and reir			cen	nent concre	te e	xcluding the
	-All work upto plinth level:						
5.1.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone ag	ggregate	20 mm noi	mina	al size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.705	₹	4,875.00	₹	3,436.88
04007	Stone aggregate 12mm	cum	0.235	₹	4,785.00	₹	1,124.48
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Stone aggregate	cum	0.94	₹	159.75	₹	150.17
0425	Fine sand	cum	0.47	₹	142.63	₹	67.04
0421	Cement	tonne	0.32	₹	110.94	₹	35.50
	LABOUR:						
0218*	Mason	Day	0.170	₹	420.00	₹	71.40
0203	Beldar (M)	Day	2.00	₹	310.00	₹	620.00
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
	• •					₹	8,040.82
	Add for water charges	@	1.0%			₹	80.41
	9					₹	8,121.23
	Add GST (multiplying factor)		0.1405			₹	1,141.03
	read of the transfer of the tr		011100			₹	9,262.26
	Add for contractor's profit and overheads	@	15%			₹	1,389.34
						₹	10,651.60
	Add cess	@	1%			₹	106.52
	Cost of providing and laying 1 cum. of cement concrete					₹	10,758.12

Rate per cum.	Sav		₹	10.758.10

5.1	Providing and laying in position specified grost of centring, shuttering, finishing and reir			cen	nent concre	te e	xcluding the			
	-All work upto plinth level:									
5.1.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)									
Code	Discription	Unit	Quantity		Rate		Amount			
	Details of cost for 1 cum									
	MATERIALS									
04002	Brick aggregate 20mm	cum	0.705	₹	3,957.00	₹	2,789.69			
04003	Brick aggregate 12mm	cum	0.235	₹	3,880.00	₹	911.80			
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20			
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00			
	CARRIAGE									
0405	Brick aggregate	cum	0.94	₹	159.75	₹	150.17			
	Fine sand	cum	0.47	₹	142.63	₹	67.04			
0421	Cement	tonne	0.32	₹	110.94	₹	35.50			
	LABOUR:									
0218*	Mason	Day	0.170	₹	420.00	₹	71.40			
0203	Beldar (M)	Day	2.00	₹	310.00	₹	620.00			
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00			
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50			
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65			
	Add for Sundries [L.S.]					₹	29.00			
						₹	7,180.95			
	Add for water charges	@	1.0%			₹	71.81			
	, table to the same goo	_				₹	7,252.76			
	Add GST (multiplying factor)		0.1405	1		₹	1,019.01			
	rad 651 (martiplying factor)		0.1100			₹	8,271.77			
	Add for contractor's profit and overheads	@	15%			₹	1,240.77			
						₹	9,512.54			
	Add cess	@	1%			₹	95.13			
	Cost of providing and laying 1 cum. of cement concrete					₹	9,607.67			
	Rate per cum.	Say				₹	9,607.70			

REINFORCED CEMENT CONCRETE [CAST-IN-SITU] ONDINARY MIX IN SUPERSTRUCTURE

Note: In multi-storeyed buildings these days concrete is lifted to the height with help of (i) Lift (ii) Crane (iii) Concrete pumps. The concrete is produced in centrally situated batching plant and trasported to site by trucks etc.

However, these calculations are made assuming that the coarse and fine aggregate are batched on volumetric basis with suitable size of measuring boxes and conventional concrete mixer with hopper is used to produce concrete and lift is used to lift the concrete to top.

The reson being if pump or crane is considered the labour component gets drastically reduced but investment on machinery will be prohibitive for general contractors.

For the proposed mix one should use 20 mm graded stone aggregate and 12 mm graded stone aggregate in proportion of 3:1 i.e. 3 parts 20 mm aggregate and 1 part 12 mm aggregate, however, the decision of structural consultant / Engineer-in-Charge would prevail for the usage of stone aggregates. In calculation, we have however, adopted 3 parts 20 mm and 1 part 12 mm aggregate.

5.2	Reinforced cement concrete work in walls buttresses, plinth and skirting courses, fille struts etc. upto floor five level excluding reinforcement-	ts, colui	mns, pillar	s, piers, abutn	nents, posts and
5.2.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone	aggregat	e 20 mm n	ominal size)	
Code	Discription	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIALS				
04006	Stone aggregate 20mm	cum	0.675	₹ 4,875.00	₹ 3,290.63
04007	Stone aggregate 12mm	cum	0.225	₹ 4,785.00	₹ 1,076.63

02003	Fine sand	cum	0.45	₹	560.00	₹	252.00
03001	Cement	tonne	0.61	₹	5,800.00	₹	3,538.00
	CARRIAGE						
0405	Stone aggregate	cum	0.9	₹	159.75	₹	143.78
0425	Fine sand	cum	0.45	₹	142.63	₹	64.18
0421	Cement	tonne	0.61	₹	110.94	₹	67.67
	LABOUR:						
0218*	Mason	Day	0.200	₹	420.00	₹	84.00
0203	Beldar (M)	Day	1.230	₹	310.00	₹	381.30
0212	Coolie (F)	Day	2.700	₹	310.00	₹	837.00
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
						₹	10,151.34
	Add for water charges	@	1.0%			₹	101.51
						₹	10,252.85
	Add GST (multiplying factor)		0.1405			₹	1,440.53
	, , , , , , , , , , , , , , , , , , ,					₹	11,693.38
	Add for contractor's profit and overheads	@	15%			₹	1,754.01
						₹	13,447.39
	Add cess	@	1%			₹	134.47
	Cost of providing and laying 1 cum. of cement concrete					₹	13,581.86
	Rate per cum.	Say				₹	13,581.90

5.2.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)									
Code	Discription	Unit	Quantity		Rate		Amount			
	Details of cost for 1 cum									
	MATERIALS									
04006	Stone aggregate 20mm	cum	0.6615	₹	4,875.00	₹	3,224.81			
	Stone aggregate 12mm	cum	0.2205	₹	4,785.00	₹	1,055.09			
02003	Fine sand	cum	0.441	₹	560.00	₹	246.96			
03001	Cement	tonne	0.40	₹	5,800.00	₹	2,320.00			
	CARRIAGE									
0405	Stone aggregate	cum	0.882	₹	159.75	₹	140.90			
	Fine sand	cum	0.441	₹	142.63	₹	62.90			
0421	Cement	tonne	0.40	₹	110.94	₹	44.38			
	LABOUR:									
0218*	Mason	Day	0.200	₹	420.00	₹	84.00			
0203	Beldar (M)	Day	1.230	₹	310.00	₹	381.30			
0212	Coolie (F)	Day	2.700	₹	310.00	₹	837.00			
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00			
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50			
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65			
	Add for Sundries [L.S.]					₹	29.00			
						₹	8,813.49			
	Add for water charges	@	1.0%			₹	88.13			
						₹	8,901.62			
	Add GST (multiplying factor)		0.1405			₹	1,250.68			
	, , ,					₹	10,152.30			
	Add for contractor's profit and overheads	@	15%			₹	1,522.85			
		1				₹	11,675.15			
	Add cess	@	1%			₹	116.75			
	Cost of providing and laying 1 cum. of cement concrete					₹	11,791.90			
	Rate per cum.	Say				₹	11,791.90			

5.2.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone	aggregat	te 20 mm n	omi	nal size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.705	₹	4,875.00	₹	3,436.88
04007	Stone aggregate 12mm	cum	0.235	₹	4,785.00	₹	1,124.48
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Stone aggregate	cum	0.94	₹	159.75	₹	150.17
0425	Fine sand	cum	0.47	₹	142.63	₹	67.04
0421	Cement	tonne	0.32	₹	110.94	₹	35.50
	LABOUR:						
0218*	Mason	Day	0.200	₹	420.00	₹	84.00
0203	Beldar (M)	Day	1.230	₹	310.00	₹	381.30
0212	Coolie (F)	Day	2.700	₹	310.00	₹	837.00
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
						₹	8,651.72
	Add for water charges	@	1.0%			₹	86.52
						₹	8,738.24
	Add GST (multiplying factor)		0.1405			₹	1,227.72
	, , ,					₹	9,965.96
	Add for contractor's profit and overheads	@	15%			₹	1,494.89
						₹	11,460.85
	Add cess	@	1%			₹	114.61
	Cost of providing and laying 1 cum. of cement concrete					₹	11,575.46
	Rate per cum.	Say				₹	11,575.50

5.2.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well b	urnt bri	ck aggregat	te 20) mm nomi	nal	size)
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04002	Brick aggregate 20mm	cum	0.705	₹	3,957.00	₹	2,789.69
	Brick aggregate 12mm	cum	0.235	₹	3,880.00	₹	911.80
	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Brick aggregate	cum	0.94	₹	159.75	₹	150.17
0425	Fine sand	cum	0.47	₹	142.63	₹	67.04
0421	Cement	tonne	0.32	₹	110.94	₹	35.50
	LABOUR:						
0218*	Mason	Day	0.100	₹	420.00	₹	42.00
0203	Beldar (M)	Day	0.750	₹	310.00	₹	232.50
0212	Coolie (F)	Day	0.750	₹	310.00	₹	232.50
0205	Bhishti/Waterman	Day	0.125	₹	310.00	₹	38.75
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
						₹	6,756.30
	Add for water charges	@	1.0%			₹	67.56

			₹	6,823.86
Add GST (multiplying factor)		0.1405	₹	958.75
			₹	7,782.61
Add for contractor's profit and overheads	@	15%	₹	1,167.39
			₹	8,950.00
Add cess	@	1%	₹	89.50
Cost of providing and laying 1 cum. of cement concrete			₹	9,039.50
Rate per cum.	Say		₹	9,039.50

	Reinforced cement concrete work in beams	, susper	nded floors	s, ro	ofs having	j slo	pe upto 15°
5.3	landings, balconies, shelves, chajjas, lintels,	bands,	plain wind	wob	sills, stair	case	s and spiral
0.0	stair cases upto floor five level excluding	the cos	st of cent	ring	, shutterin	g, f	inishing and
	reinforcement-						
5.3.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone	aggregat	te 20 mm n	omi	nal size)		
Code	Discription	Unit	Quantity	tity Rate			Amount
	Details of cost for 1 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.675	₹	4,875.00	₹	3,290.63
04007	Stone aggregate 12mm	cum	0.225	₹	4,785.00	₹	1,076.63
02003	Fine sand	cum	0.45	₹	560.00	₹	252.00
03001	Cement	tonne	0.61	₹	5,800.00	₹	3,538.00
	CARRIAGE						
0405	Stone aggregate	cum	0.9	₹	159.75	₹	143.78
0425	Fine sand	cum	0.45	₹	142.63	₹	64.18
0421	Cement	tonne	0.61	₹	110.94	₹	67.67
	LABOUR:						
0218*	Mason	Day	0.240	₹	420.00	₹	100.80
0203	Beldar (M)	Day	2.750	₹	310.00	₹	852.50
0212	Coolie (F)	Day	1.880	₹	310.00	₹	582.80
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
						₹	10,385.14
	Add for water charges	@	1.0%			₹	103.85
						₹	10,488.99
	Add GST (multiplying factor)		0.1405			₹	1,473.70
	, and the second					₹	11,962.69
	Add for contractor's profit and overheads	@	15%			₹	1,794.40
						₹	13,757.09
	Add cess	@	1%			₹	137.57
	Cost of providing and laying 1 cum. of cement concrete					₹	13,894.66
	Rate per cum.	Say				₹	13,894.70

5.3.2	1:11/2:3 (1 Cement: 11/2 fine sand : 3 graded stone aggregate 20 mm nominal size)										
Code	Discription	Unit	Quantity		Rate		Amount				
	Details of cost for 1 cum										
	MATERIALS										
04006	Stone aggregate 20mm	cum	0.6615	₹	4,875.00	₹	3,224.81				
04007	Stone aggregate 12mm	cum	0.2205	₹	4,785.00	₹	1,055.09				
02003	Fine sand	cum	0.441	₹	560.00	₹	246.96				
03001	Cement	tonne	0.40	₹	5,800.00	₹	2,320.00				
	CARRIAGE										
0405	Stone aggregate	cum	0.882	₹	159.75	₹	140.90				

0425	Fine sand	cum	0.441	₹	142.63	₹	62.90
0421	Cement	tonne	0.40	₹	110.94	₹	44.38
	LABOUR:						
0218*	Mason	Day	0.240	₹	420.00	₹	100.80
0203	Beldar (M)	Day	2.750	₹	310.00	₹	852.50
0212	Coolie (F)	Day	1.880	₹	310.00	₹	582.80
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
						₹	9,047.29
	Add for water charges	@	1.0%			₹	90.47
						₹	9,137.76
	Add GST (multiplying factor)		0.1405			₹	1,283.86
						₹	10,421.62
	Add for contractor's profit and overheads	@	15%			₹	1,563.24
						₹	11,984.86
	Add cess	@	1%			₹	119.85
	Cost of providing and laying 1 cum. of cement concrete					₹	12,104.71
	Rate per cum.	Say				₹	12,104.70

5.3.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone	aggregal	te 20 mm n	omi	nal size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.705	₹	4,875.00	₹	3,436.88
04007	Stone aggregate 12mm	cum	0.235	₹	4,785.00	₹	1,124.48
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Stone aggregate	cum	0.94	₹	159.75	₹	150.17
0425	Fine sand	cum	0.47	₹	142.63	₹	67.04
0421	Cement	tonne	0.32	₹	110.94	₹	35.50
	LABOUR:						
0218*	Mason	Day	0.240	₹	420.00	₹	100.80
0203	Beldar (M)	Day	2.750	₹	310.00	₹	852.50
0212	Coolie (F)	Day	1.880	₹	310.00	₹	582.80
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
						₹	8,885.52
	Add for water charges	@	1.0%			₹	88.86
	, and the second					₹	8,974.38
	Add GST (multiplying factor)		0.1405			₹	1,260.90
	, , ,					₹	10,235.28
	Add for contractor's profit and overheads	@	15%			₹	1,535.29
						₹	11,770.57
	Add cess	@	1%			₹	117.71
	Cost of providing and laying 1 cum. of cement concrete					₹	11,888.28
	Rate per cum.	Say				₹	11,888.30

5.3.4 1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)

Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04002	Brick aggregate 20mm	cum	0.705	₹	3,957.00	₹	2,789.69
04003	Brick aggregate 12mm	cum	0.235	₹	3,880.00	₹	911.80
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Brick aggregate	cum	0.94	₹	159.75	₹	150.17
0425	Fine sand	cum	0.47	₹	142.63	₹	67.04
0421	Cement	tonne	0.32	₹	110.94	₹	35.50
	LABOUR:						
0218*	Mason	Day	0.240	₹	420.00	₹	100.80
0203	Beldar (M)	Day	2.750	₹	310.00	₹	852.50
0212	Coolie (F)	Day	1.880	₹	310.00	₹	582.80
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
	• •					₹	8,025.65
	Add for water charges	@	1.0%			₹	80.26
	3					₹	8,105.91
	Add GST (multiplying factor)		0.1405			₹	1,138.88
	i and the control of					₹	9,244.79
	Add for contractor's profit and overheads	@	15%			₹	1,386.72
						₹	10,631.51
	Add cess	@	1%			₹	106.32
	Cost of providing and laying 1 cum. of cement concrete					₹	10,737.83
	Rate per cum.	Say				₹	10,737.80

5.4	Providing and laying upto floor five level rein the like excluding the cost of centring, shutter					kerl	os, steps and
5.4.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone	aggregat	te 20 mm n	omi	nal size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.675	₹	4,875.00	₹	3,290.63
04007	Stone aggregate 12mm	cum	0.225	₹	4,785.00	₹	1,076.63
02003	Fine sand	cum	0.45	₹	560.00	₹	252.00
03001	Cement	tonne	0.61	₹	5,800.00	₹	3,538.00
	CARRIAGE						
0405	Stone aggregate	cum	0.9	₹	159.75	₹	143.78
0425	Fine sand	cum	0.45	₹	142.63	₹	64.18
0421	Cement	tonne	0.61	₹	110.94	₹	67.67
	LABOUR:						
0218*	Mason	Day	0.080	₹	420.00	₹	33.60
0203	Beldar (M)	Day	0.440	₹	310.00	₹	136.40
0212	Coolie (F)	Day	3.680	₹	310.00	₹	1,140.80
0205	Bhishti/Waterman	Day	0.950	₹	310.00	₹	294.50
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	32.00
						₹	10,178.34
	Add for water charges	@	1.0%			₹	101.78

			₹	10,280.12
Add GST (multiplying factor)		0.1405	₹	1,444.36
			₹	11,724.48
Add for contractor's profit and overheads	@	15%	₹	1,758.67
			₹	13,483.15
Add cess	@	1%	₹	134.83
Cost of providing and laying 1 cum. of cement concrete			₹	13,617.98
Rate per cum.	Say		₹	13,618.00

5.4.2	1:11/2:3 (1 Cement: 11/2 fine sand : 3 graded sto	ne aggre	egate 20 m	m no	ominal size)	
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.6615	₹	4,875.00	₹	3,224.81
	Stone aggregate 12mm	cum	0.2205	₹	4,785.00	₹	1,055.09
02003	Fine sand	cum	0.441	₹	560.00	₹	246.96
03001	Cement	tonne	0.40	₹	5,800.00	₹	2,320.00
	CARRIAGE						
0405	Stone aggregate	cum	0.882	₹	159.75	₹	140.90
0425	Fine sand	cum	0.441	₹	142.63	₹	62.90
0421	Cement	tonne	0.40	₹	110.94	₹	44.38
	LABOUR:						
0218*	Mason	Day	0.080	₹	420.00	₹	33.60
0203	Beldar (M)	Day	0.440	₹	310.00	₹	136.40
0212	Coolie (F)	Day	3.680	₹	310.00	₹	1,140.80
0205	Bhishti/Waterman	Day	0.950	₹	310.00	₹	294.50
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	32.00
						₹	8,840.49
	Add for water charges	@	1.0%			₹	88.40
						₹	8,928.89
	Add GST (multiplying factor)		0.1405			₹	1,254.51
	i i i i i i i i i i i i i i i i i i i					₹	10,183.40
	Add for contractor's profit and overheads	@	15%			₹	1,527.51
						₹	11,710.91
	Add cess	@	1%			₹	117.11
	Cost of providing and laying 1 cum. of cement concrete					₹	11,828.02
	Rate per cum.	Say				₹	11,828.00

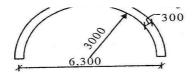
5.4.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone	aggregat	e 20 mm n	omi	nal size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.705	₹	4,875.00	₹	3,436.88
04007	Stone aggregate 12mm	cum	0.235	₹	4,785.00	₹	1,124.48
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Stone aggregate	cum	0.94	₹	159.75	₹	150.17
0425	Fine sand	cum	0.47	₹	142.63	₹	67.04
0421	Cement	tonne	0.32	₹	110.94	₹	35.50
	LABOUR:						
0218*	Mason	Day	0.080	₹	420.00	₹	33.60
0203	Beldar (M)	Day	0.440	₹	310.00	₹	136.40

0212	Coolie (F)	Day	3.680	₹	310.00	₹	1,140.80
0205	Bhishti/Waterman	Day	0.950	₹	310.00	₹	294.50
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	32.00
						₹	8,678.72
	Add for water charges	@	1.0%			₹	86.79
						₹	8,765.51
	Add GST (multiplying factor)		0.1405			₹	1,231.55
						₹	9,997.06
	Add for contractor's profit and overheads	@	15%			₹	1,499.56
						₹	11,496.62
	Add cess	@	1%			₹	114.97
	Cost of providing and laying 1 cum. of cement concrete					₹	11,611.59
	Rate per cum.	Say				₹	11,611.60

5.4.4	1:2:4 (1 Cement: 2 fine sand: 4 graded well be	urnt bri	ck aggregat	te 20) mm nomi	nal s	size)
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
	MATERIALS						
04002	Brick aggregate 20mm	cum	0.705	₹	3,957.00	₹	2,789.69
04003	Brick aggregate 12mm	cum	0.235	₹	3,880.00	₹	911.80
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Brick aggregate	cum	0.94	₹	159.75	₹	150.17
0425	Fine sand	cum	0.47	₹	142.63	₹	67.04
0421	Cement	tonne	0.32	₹	110.94	₹	35.50
	LABOUR:						
0218*	Mason	Day	0.080	₹	420.00	₹	33.60
0203	Beldar (M)	Day	0.440	₹	310.00	₹	136.40
0212	Coolie (F)	Day	3.680	₹	310.00	₹	1,140.80
0205	Bhishti/Waterman	Day	0.950	₹	310.00	₹	294.50
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	32.00
						₹	7,818.85
	Add for water charges	@	1.0%			₹	78.19
						₹	7,897.04
	Add GST (multiplying factor)		0.1405			₹	1,109.53
	riad cor (manipiying ractor)		0.1.100			₹	9,006.57
	Add for contractor's profit and overheads	@	15%			₹	1,350.99
						₹	10,357.56
	Add cess	@	1%			₹	103.58
	Cost of providing and laying 1 cum. of cement concrete					₹	10,461.14
	Rate per cum.	Say				₹	10,461.10

Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with





A semicircular arch of dimensions shown in the Fig is to be casted. Qty. of concrete involved = 22/7x6.3x2x9.00x0.30 = 26.72 cum

5.5.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone	aggregat	e 20 mm n	omi	nal size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 26.72 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	18.036	₹	4,875.00	₹	87,925.50
	Stone aggregate 12mm	cum	6.012	₹	4,785.00	₹	28,767.42
02003	Fine sand	cum	12.024	₹	560.00	₹	6,733.44
03001	Cement	tonne	16.2992	₹	5,800.00	₹	94,535.36
	CARRIAGE						
0405	Stone aggregate	cum	24.048	₹	159.75	₹	3,841.67
	Fine sand	cum	12.024	₹	142.63	₹	1,714.98
0421	Cement	tonne	16.2992	₹	110.94	₹	1,808.23
	LABOUR:						
0218*	Mason	Day	16.420	₹	420.00	₹	6,896.40
0203	Beldar (M)	Day	73.510	₹	310.00	₹	22,788.10
0212	Coolie (F)	Day	54.620	₹	310.00	₹	16,932.20
0205	Bhishti/Waterman	Day	25.560	₹	310.00	₹	7,923.60
0113	Add cost of hire and running charges of mixer	Day	2.140	₹	1,150.00	₹	2,461.00
0129	Add cost of hire and running charges of vibrator	Day	2.140	₹	395.00	₹	845.30
	Add for Sundries [L.S.]					₹	815.00
						₹	2,83,988.20
	Add for water charges	@	1.0%			₹	2,839.88
	9					₹	2,86,828.08
	Add GST (multiplying factor)		0.1405			₹	40,299.35
	that to the control of the control o					₹	3,27,127.43
	Add for contractor's profit and overheads	@	15%			₹	49,069.11
						₹	3,76,196.54
	Add cess	@	1%			₹	3,761.97
	Cost of providing and laying 26.72 cum. of cement concrete					₹	3,79,958.51
	Cost of providing and laying 1 cum. of cement concrete					₹	14,220.00
	Rate per cum.	Say				₹	14,220.00

5.5.2	1:11/2:3 (1 Cement: 11/2 fine sand : 3 graded sto	ne aggre	egate 20 mr	n no	ominal size)	
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 26.72 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	17.67528	₹	4,875.00	₹	86,166.99
04007	Stone aggregate 12mm	cum	5.89176	₹	4,785.00	₹	28,192.07
02003	Fine sand	cum	11.78352	₹	560.00	₹	6,598.77
03001	Cement	tonne	10.69	₹	5,800.00	₹	61,990.40
	CARRIAGE						
0405	Stone aggregate	cum	23.56704	₹	159.75	₹	3,764.83
0425	Fine sand	cum	11.78352	₹	142.63	₹	1,680.68
0421	Cement	tonne	10.69	₹	110.94	₹	1,185.73
	LABOUR:						
0218*	Mason	Day	16.420	₹	420.00	₹	6,896.40
0203	Beldar (M)	Day	73.510	₹	310.00	₹	22,788.10
0212	Coolie (F)	Day	54.620	₹	310.00	₹	16,932.20
0205	Bhishti/Waterman	Day	25.560	₹	310.00	₹	7,923.60

0113	Add cost of hire and running charges of mixer	Day	2.140	₹	1,150.00	₹	2,461.00
0129	Add cost of hire and running charges of vibrator	Day	2.140	₹	395.00	₹	845.30
	Add for Sundries [L.S.]					₹	815.00
						₹	2,48,241.07
	Add for water charges	@	1.0%			₹	2,482.41
						₹	2,50,723.48
	Add GST (multiplying factor)		0.1405			₹	35,226.65
						₹	2,85,950.13
	Add for contractor's profit and overheads	@	15%			₹	42,892.52
						₹	3,28,842.65
	Add cess	@	1%			₹	3,288.43
	Cost of providing and laying 26.72 cum. of cement concrete					₹	3,32,131.08
	Cost of providing and laying 1 cum. of cement concrete					₹	12,430.06
	Rate per cum.	Say			·	₹	12,430.10

5.5.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone	aggrega	te 20 mm n	omi	nal size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 26.72 cum						
	MATERIALS						
04006	Stone aggregate 20mm	cum	18.8376	₹	4,875.00	₹	91,833.30
04007	Stone aggregate 12mm	cum	6.2792	₹	4,785.00	₹	30,045.97
02003	Fine sand	cum	12.5584	₹	560.00	₹	7,032.70
03001	Cement	tonne	8.55	₹	5,800.00	₹	49,592.32
	CARRIAGE						
0405	Stone aggregate	cum	25.1168	₹	159.75	₹	4,012.41
0425	Fine sand	cum	12.5584	₹	142.63	₹	1,791.20
0421	Cement	tonne	8.55	₹	110.94	₹	948.58
	LABOUR:						
0218*	Mason	Day	16.420	₹	420.00	₹	6,896.40
0203	Beldar (M)	Day	73.510	₹	310.00	₹	22,788.10
0212	Coolie (F)	Day	54.620	₹	310.00	₹	16,932.20
0205	Bhishti/Waterman	Day	25.560	₹	310.00	₹	7,923.60
0113	Add cost of hire and running charges of mixer	Day	2.140	₹	1,150.00	₹	2,461.00
0129	Add cost of hire and running charges of vibrator	Day	2.140	₹	395.00	₹	845.30
	Add for Sundries [L.S.]					₹	815.00
						₹	2,43,918.08
	Add for water charges	@	1.0%			₹	2,439.18
	3.1					₹	2,46,357.26
	Add GST (multiplying factor)		0.1405			₹	34,613.20
	l land out (manufulgung ractur)					₹	2,80,970.46
	Add for contractor's profit and overheads	@	15%			₹	42,145.57
						₹	3,23,116.03
	Add cess	@	1%			₹	3,231.16
	Cost of providing and laying 26.72 cum. of cement concrete					₹	3,26,347.19
	Cost of providing and laying 1 cum. of cement concrete					₹	12,213.59
	Rate per cum.	Say				₹	12,213.60

5.5.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)									
Code	Discription	Unit	Quantity	Rate	Amount					
	Details of cost for 26.72 cum									
	MATERIALS									

				_			
	Brick aggregate 20mm	cum	18.8376	₹	3,957.00	₹	74,540.38
04003	Brick aggregate 12mm	cum	6.2792	₹	3,880.00	₹	24,363.30
02003	Fine sand	cum	12.5584	₹	560.00	₹	7,032.70
03001	Cement	tonne	8.55	₹	5,800.00	₹	49,592.32
	CARRIAGE						
0405	Brick aggregate	cum	25.1168	₹	159.75	₹	4,012.41
0425	Fine sand	cum	12.5584	₹	142.63	₹	1,791.20
0421	Cement	tonne	8.55	₹	110.94	₹	948.58
	LABOUR:						
0218*	Mason	Day	16.420	₹	420.00	₹	6,896.40
0203	Beldar (M)	Day	73.510	₹	310.00	₹	22,788.10
0212	Coolie (F)	Day	54.620	₹	310.00	₹	16,932.20
0205	Bhishti/Waterman	Day	25.560	₹	310.00	₹	7,923.60
0113	Add cost of hire and running charges of mixer	Day	2.140	₹	1,150.00	₹	2,461.00
0129	Add cost of hire and running charges of vibrator	Day	2.140	₹	395.00	₹	845.30
	Add for Sundries [L.S.]					₹	815.00
						₹	2,20,942.49
	Add for water charges	@	1.0%			₹	2,209.42
						₹	2,23,151.91
	Add GST (multiplying factor)		0.1405			₹	31,352.84
	, , , , , , , , , , , , , , , , , , ,					₹	2,54,504.75
	Add for contractor's profit and overheads	@	15%			₹	38,175.71
						₹	2,92,680.46
	Add cess	@	1%	1		₹	2,926.80
	Cost of providing and laying 26.72 cum. of cement concrete					₹	2,95,607.26
	Cost of providing and laying 1 cum. of cement concrete					₹	11,063.15
	Rate per cum.	Say				₹	11,063.20

5.6	Reinforced cement concrete work in chimneys of centering, shuttering, finishing and reinforce			r fiv	ve level, exc	clud	ing the cost
5.6.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone			omi	inal size)		
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
04006	Stone aggregate 20mm	cum	0.675	₹	4,875.00	₹	3,290.63
04007	Stone aggregate 12mm	cum	0.225	₹	4,785.00	₹	1,076.63
02003	Fine sand	cum	0.45	₹	560.00	₹	252.00
03001	Cement	tonne	0.61	₹	5,800.00	₹	3,538.00
	CARRIAGE						
0405	Stone aggregate	cum	0.90	₹	159.75	₹	143.78
0425	Fine sand	cum	0.45	₹	142.63	₹	64.18
0421	Cement	tonne	0.61	₹	110.94	₹	67.67
	LABOUR:						
	Mason	Day	0.200	₹	420.00	₹	84.00
0203	Beldar (M)	Day	1.230	₹	310.00	₹	381.30
0212	Coolie (F)	Day	2.960	₹	310.00	₹	917.60
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
						₹	10,231.94
	Add for water charges	@	1.0%			₹	102.32
	, , , , , , , , , , , , , , , , , , ,					₹	10,334.26
	Add GST (multiplying factor)		0.1405			₹	1,451.96
-						₹	11,786.22

Add for contractor's profit and overheads	@	15%	₹	1,767.93
			₹	13,554.15
Add cess	@	1%	₹	135.54
Cost of providing and laying 1 cum. of cement concrete			₹	13,689.69
Rate per cum.	Say		₹	13,689.70

5.6.2	1:11/2:3 (1 Cement: 11/2 fine sand : 3 graded stone aggregate 20 mm nominal size)							
Code	Discription	Unit	Quantity		Rate		Amount	
	Details of cost for 1 cum							
04006	Stone aggregate 20mm	cum	0.6615	₹	4,875.00	₹	3,224.81	
04007	Stone aggregate 12mm	cum	0.2205	₹	4,785.00	₹	1,055.09	
02003	Fine sand	cum	0.441	₹	560.00	₹	246.96	
03001	Cement	tonne	0.400	₹	5,800.00	₹	2,320.00	
	CARRIAGE							
	Stone aggregate	cum	0.882	₹	159.75	₹	140.90	
0425	Fine sand	cum	0.441	₹	142.63	₹	62.90	
0421	Cement	tonne	0.400	₹	110.94	₹	44.38	
	LABOUR:							
0218*	Mason	Day	0.200	₹	420.00	₹	84.00	
0203	Beldar (M)	Day	1.230	₹	310.00	₹	381.30	
0212	Coolie (F)	Day	2.960	₹	310.00	₹	917.60	
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00	
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50	
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65	
	Add for Sundries [L.S.]					₹	29.00	
						₹	8,894.09	
	Add for water charges	@	1.0%			₹	88.94	
						₹	8,983.03	
	Add GST (multiplying factor)		0.1405			₹	1,262.12	
						₹	10,245.15	
	Add for contractor's profit and overheads	@	15%			₹	1,536.77	
						₹	11,781.92	
	Add cess	@	1%			₹	117.82	
	Cost of providing and laying 1 cum. of cement concrete					₹	11,899.74	
	Rate per cum.	Say				₹	11,899.70	

5.6.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone	aggregat	e 20 mm n	omi	nal size)		
Code	Discription	Unit	Quantity	Rate			Amount
	Details of cost for 1 cum						
04006	Stone aggregate 20mm	cum	0.705	₹	4,875.00	₹	3,436.88
04007	Stone aggregate 12mm	cum	0.235	₹	4,785.00	₹	1,124.48
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.3200	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Stone aggregate	cum	0.94	₹	159.75	₹	150.17
0425	Fine sand	cum	0.47	₹	142.63	₹	67.04
0421	Cement	tonne	0.3200	₹	110.94	₹	35.50
	LABOUR:						
0218*	Mason	Day	0.200	₹	420.00	₹	84.00
0203	Beldar (M)	Day	1.230	₹	310.00	₹	381.30
0212	Coolie (F)	Day	2.960	₹	310.00	₹	917.60
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65

Add for Sundries [L.S.]			₹	29.00
			₹	8,732.32
Add for water charges	@	1.0%	₹	87.32
			₹	8,819.64
Add GST (multiplying factor)		0.1405	₹	1,239.16
			₹	10,058.80
Add for contractor's profit and overheads	@	15%	₹	1,508.82
			₹	11,567.62
Add cess	@	1%	₹	115.68
Cost of providing and laying 1 cum. of cement concrete			₹	11,683.30
Rate per cum.	Say		₹	11,683.30

5.6.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well be	urnt brid	ck aggregat	te 20) mm nomi	nal s	size)
Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum						
04002	Brick aggregate 20mm	cum	0.705	₹	3,957.00	₹	2,789.69
04003	Brick aggregate 12mm	cum	0.235	₹	3,880.00	₹	911.80
02003	Fine sand	cum	0.47	₹	560.00	₹	263.20
03001	Cement	tonne	0.32	₹	5,800.00	₹	1,856.00
	CARRIAGE						
0405	Brick aggregate	cum	0.94	₹	159.75	₹	150.17
0425	Fine sand	cum	0.47	₹	142.63	₹	67.04
0421	Cement	tonne	0.32	₹	110.94	₹	35.50
0.00	LABOUR:						
0218*	Mason	Day	0.200	₹	420.00	₹	84.00
0203	Beldar (M)	Day	1.230	₹	310.00	₹	381.30
0212	Coolie (F)	Day	2.960	₹	310.00	₹	917.60
0205	Bhishti/Waterman	Day	0.900	₹	310.00	₹	279.00
0113	Add cost of hire and running charges of mixer	Day	0.070	₹	1,150.00	₹	80.50
0129	Add cost of hire and running charges of vibrator	Day	0.070	₹	395.00	₹	27.65
	Add for Sundries [L.S.]					₹	29.00
	. ,					₹	7,872.45
	Add for water charges	@	1.0%			₹	78.72
	j					₹	7,951.17
	Add GST (multiplying factor)		0.1405			₹	1,117.14
	radice (manipiying ractor)		011100			₹	9,068.31
	Add for contractor's profit and overheads	@	15%			₹	1,360.25
						₹	10,428.56
	Add cess	@	1%			₹	104.29
	Cost of providing and laying 1 cum. of cement concrete					₹	10,532.85
	Rate per cum.	Say				₹	10,532.90

5.7	Reinforced cement concrete work in vertical louvers, facias and eaves boards above plinth centering, shuttering, finishing and reinforcer	n level u	p to floor t		•				
5.7.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)								
Code	Discription	Unit	Quantity	Rate	Amount				

Qty. of concrete involved in horizontal and vertical fins as shown in Fig.

Let us consider an example of fins consisting of 4 nos. verticals 4 m long and 50 mm thick at 1 m c/c and 2 nos.

horizontals 50 mm thick all projecting/clear 600 mm from face of the wall.

The qty. of concrete:

Verticals: 4x4.00x0.60x0.05 = 0.48 cum Horizontals: 3x2x095x0.60x0.05 = 0.17 cum

Total = 0.65 cum

Oty. of concrete available for single operation

This item is generally seen in multistoreyed buildings. The work is of delicate nature and has to be cast in parts. One can neither do the form work of the whole frame at a time nor can we concrete the full 4 m height at a time without segregation of concrete.

In this particular case the same would be cast in stages. 1st Stage: all verticals upto and including 1st horizontals 2nd stage: all verticals upto 150 mm below 2nd horizontals

3rd stage: all remaining portion.

Qty. of concrete involved in stages:

1st stage: Verticals =4x1.00x0.60x0.05 = 0.12, Horizontals = 3x1x0.95x0.60x0.05 = 0.086

Total = 0.206 cum

2nd Stage: Verticals = 4x1.75x0.60x0.05 = 0.210 cum

3rd Stage: 0.65x-(0.206+0.21) = 0.234 cum

Thus, it can be seen that almost equal quantity of concrete would be laid in each lift. This is very small quantity to be laid each time consuming a small quantity of bag of cement. As no vibrator can br used being a very small section, concrete would be consolidated by rodding.

Materials westage: There will be aconsiderable wastage, but as the consolidation is not done by a mechanical vibrator no wastage need be considered.

	<u>. </u>						
	Details of cost for 0.21 cum concrete						
	MATERIALS						
04006	Stone aggregate 20mm	cum	0.14175	₹	4,875.00	₹	691.03
04007	Stone aggregate 12mm	cum	0.04725	₹	4,785.00	₹	226.09
02003	Fine sand	cum	0.0945	₹	560.00	₹	52.92
03001	Cement	tonne	0.1281	₹	5,800.00	₹	742.98
	CARRIAGE						
0405	Stone aggregate	cum	0.19	₹	159.75	₹	30.19
0425	Fine sand	cum	0.0945	₹	142.63	₹	13.48
0421	Cement	tonne	0.1281	₹	110.94	₹	14.21
	LABOUR:						
0218*	Mason	Day	0.070	₹	420.00	₹	29.40
0203	Beldar (M)	Day	0.290	₹	310.00	₹	89.90
0212	Coolie (F)	Day	0.250	₹	310.00	₹	77.50
0205	Bhishti/Waterman	Day	0.250	₹	310.00	₹	77.50
0113	Add cost of hire and running charges of mixer	Day	0.020	₹	1,150.00	₹	23.00
	Add for Scafolding & Sundries [L.S.]					₹	82.00
						₹	2,150.20
	Add for water charges	@	1.0%			₹	21.50
						₹	2,171.70
	Add GST (multiplying factor)		0.1405			₹	305.12
	, , ,					₹	2,476.82
	Add for contractor's profit and overheads	@	15%			₹	371.52
-	<u>'</u>					Ļ	
			101			₹	2,848.34
	Add cess	@	1%	-		₹	28.48
	Cost of providing and laying 0.21 cum. of cement concrete					₹	2,876.82
	Rate per cum.					₹	13,699.14
		Say				₹	13,699.10

5.7.2	1:11/2:3 (1 Cement: 11/2 fine sand : 3 graded stone aggregate 20 mm nominal size)							
Code	Discription	Unit	Quantity		Rate		Amount	
	Details of cost for 1 cum							
	MATERIALS							
04006	Stone aggregate 20mm	cum	0.138915	₹	4,875.00	₹	677.21	
04007	Stone aggregate 12mm	cum	0.046305	₹	4,785.00	₹	221.57	
02003	Fine sand	cum	0.09261	₹	560.00	₹	51.86	
03001	Cement	tonne	0.084	₹	5,800.00	₹	487.20	
	CARRIAGE							
0405	Stone aggregate	cum	0.18522	₹	159.75	₹	29.59	

0425	Fine sand	cum	0.09261	₹	142.63	₹	13.21
0421	Cement	tonne	0.084	₹	110.94	₹	9.32
	LABOUR:						
0218*	Mason	Day	0.070	₹	420.00	₹	29.40
0203	Beldar (M)	Day	0.290	₹	310.00	₹	89.90
0212	Coolie (F)	Day	0.250	₹	310.00	₹	77.50
0205	Bhishti/Waterman	Day	0.250	₹	310.00	₹	77.50
0113	Add cost of hire and running charges of mixer	Day	0.020	₹	1,150.00	₹	23.00
	Add for Scafolding & Sundries [L.S.]					₹	82.00
						₹	1,869.26
	Add for water charges	@	1.0%			₹	18.69
						₹	1,887.95
	Add GST (multiplying factor)		0.1405			₹	265.26
						₹	2,153.21
	Add for contractor's profit and overheads	@	15%			₹	322.98
						₹	2,476.19
	Add cess	@	1%			₹	24.76
	Cost of providing and laying 0.21 cum. of cement concrete					₹	2,500.95
	Rate per cum.					₹	11,909.29
		Say			·	₹	11,909.30

5.7.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)							
Code	Discription	Unit	Quantity		Rate		Amount	
	Details of cost for 1 cum							
	MATERIALS							
04006	Stone aggregate 20mm	cum	0.14805	₹	4,875.00	₹	721.74	
	Stone aggregate 12mm	cum	0.04935	₹	4,785.00	₹	236.14	
02003	Fine sand	cum	0.0987	₹	560.00	₹	55.27	
03001	Cement	tonne	0.0672	₹	5,800.00	₹	389.76	
	CARRIAGE							
	Stone aggregate	cum	0.1974	₹	159.75	₹	31.53	
0425	Fine sand	cum	0.0987	₹	142.63	₹	14.08	
0421	Cement	tonne	0.0672	₹	110.94	₹	7.46	
	LABOUR:							
0218*	Mason	Day	0.070	₹	420.00	₹	29.40	
0203	Beldar (M)	Day	0.290	₹	310.00	₹	89.90	
0212	Coolie (F)	Day	0.250	₹	310.00	₹	77.50	
0205	Bhishti/Waterman	Day	0.250	₹	310.00	₹	77.50	
0113	Add cost of hire and running charges of mixer	Day	0.020	₹	1,150.00	₹	23.00	
	Add for Scafolding & Sundries [L.S.]					₹	82.00	
						₹	1,835.28	
	Add for water charges	@	1.0%			₹	18.35	
						₹	1,853.63	
	Add GST (multiplying factor)		0.1405			₹	260.44	
						₹	2,114.07	
	Add for contractor's profit and overheads	@	15%			₹	317.11	
						₹	2,431.18	
	Add cess	@	1%			₹	24.31	
	Cost of providing and laying 0.21 cum. of cement concrete					₹	2,455.49	
	Rate per cum.					₹	11,692.81	
		Say				₹	11,692.80	

5.7.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)								
Code	Code Discription Unit Quantity Rate Amount								
	Details of cost for 1 cum								

SUB HEAD: 6.0 BRICK WORK

- Manual mixing of cement mortars have been considered here. However, for using of mechanical mixer, the cost will differ with manual mixing as referred to SH:3/Mortar
- 2 Sand can be either coarse or fine as required/available. Here, provision of fine sand is considered only due to non-availability of coarse sand in Tripura. However, if design dictates for use of coarse sand, then seperate analysis may be made as per site condition.
- 3 Steel reinforcement for reinforced brick works are required to be provided separately for which the extra rates are to be added. The rate for the same has been analysed using suitable bars in this chapter.
- Bricks shall be soaked in water before use for a period for the water to just penetrate the whole depth of the bricks. Alternatively bricks may be adequately soaked in stacks by profusely spraying with clean water at regular intervals for a period not less than six hours. When the bricks are soaked they shall be removed from the tank sufficiently early so that at the time of laying they are skin-dry. Such soaked bricks shall be stacked on a clean place where they are not again spoiled by dirt earth etc.
- Green work shall be protected from the effects of sun and rain by suitable covering and also from damage, mortar dropping etc.during the execution of the work. Masonry work in cement or composite mortar shall be kept constantly moist on all faces for a minimum period of seven days. In case of masonry with fat lime mortar, curing shall commence two days after laying of masonry and shall continue for at least seven days thereafter.
- For earth quake resistance brick masonry work as specified in IS:4326-1993, the essential elements required to be constructed are: (i) RCC band of approved grade of concrete and steel at Plinth level, Sill level, Lintel level, Floor / Roof level (ii) Vertical reinforcement of approved grade & dia. at the corners and junctions of all rooms, side/jamb of openings (doors, windows etc.)
- 7 Consumption of bricks has been considered as per the sizes of the bricks available in Tripura.
- 8 Locally available well burnt 1st class bricks and 2nd class bricks with following classification & dimension will be used:-

	mension (in mm th x Breadth x De	Minimum compressive strength	Water Absorption	
Actual	Nominal	Tolerance	{Not less than}	{Not more than}
250x120x70	255x123x72	±3	105 Kgf/cm ²	20% by weight
$^{\text{nd}}$ class 250x120x70 255x123x72 ± 5 75				25% by weight
	Leng Actual 250x120x70	{Length x Breadth x December Actual Nominal 250x120x70 255x123x72	{Length x Breadth x Depth} Actual Nominal Tolerance 250x120x70 255x123x72 ±3	Actual Nominal Tolerance {Not less than} 250x120x70 255x123x72 ±3 105 Kgf/cm²

- 9 All other specification for quality, sampling and tests including efflorescence of bricks shall generally be as Chapter 6 of CPWD's specification.
- 6.1 First class brick work in foundation and plinth including cost of all materials as required complete:-
- 6.1.1 In cement mortar 1:2 (1 cement : 2 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	380	₹	12,450.00	₹	4,731.00
	Cement mortar 1:2 (Rate as per item No. 3.1.2)	Cum	0.250	₹	5,067.95	₹	1,266.99
	b. Carriage:						
0406	1st class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹	440.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹	395.00	₹	142.20
0212	Coolie	Day	1.37	₹	310.00	₹	424.70
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Total					₹	6,902.11
	Add for sundries & contingencies	@	3%			₹	207.06
	Total					₹	7,109.17
	Add for Water charges:	@	1.0%			₹	71.09
						₹	7,180.26
	Add GST (multiplying factor)		0.1405			₹	1,008.83

				₹	8,189.09
Add 15% for contractor's profit and overheads	@	15%		₹	1,228.36
				₹	9,417.45
Add cess	@	1%		₹	94.17
			Total	₹	9,511.62
Total cost for 1 Cum		·	Say,	₹	9,511.60

6.1.2 In cement mortar 1:3 (1 cement: 3 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:	ourn.					
06001	1st class bricks.	1000 Nos	380	₹	12,450.00	₹	4,731.00
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.250	₹	4,026.43	₹	1,006.61
	b. Carriage:						
0406	1st class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹	440.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹	395.00	₹	142.20
0212	Coolie	Day	1.37	₹	310.00	₹	424.70
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Total					₹	6,641.73
	Add for sundries & contingencies	@	3%			₹	199.25
	Total					₹	6,840.98
	Add for Water charges:	@	1.0%			₹	68.41
						₹	6,909.39
	Add GST (multiplying factor)		0.1405			₹	970.77
						₹	7,880.16
	Add 15% for contractor's profit and overheads	@	15%			₹	1,182.02
						₹	9,062.18
	Add cess	@	1%			₹	90.62
					Total	₹	9,152.80
	Total cost for 1 Cum				Say,	₹	9,152.80

6.1.3 In cement mortar 1:4 (1 cement: 4 fine sand).

Code	Description	Unit	Quantity	Rate		,	Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	380	₹ 12,450	0.00	₹	4,731.00
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.250	₹ 3,259	9.11	₹	814.78
	b. Carriage:						
0406	1st class bricks.	1000 Nos	380	₹ 307	7.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹ 440	0.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹ 395	5.00	₹	142.20
0212	Coolie	Day	1.37	₹ 310	0.00	₹	424.70
0205	Bhisti/ Waterman	Day	0.20	₹ 310	0.00	₹	62.00
	Total				÷	₹	6,449.90
	Add for sundries & contingencies	@	3%			₹	193.50
	Total					₹	6,643.40
	Add for Water charges:	@	1.0%			₹	66.43
						₹	6,709.83
	Add GST (multiplying factor)		0.1405			₹	942.73
						₹	7,652.56
	Add 15% for contractor's profit and overheads	@	15%			₹	1,147.88
						₹	8,800.44
	Add cess	@	1%			₹	88.00
				Tota		₹	8,888.44
	Total cost for 1 Cum			Say,	- :	₹	8,888.40

6.1.4 In cement mortar 1:5 (1 cement : 5 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	380	₹	12,450.00	₹	4,731.00
	Cement mortar 1:5 (Rate as per item No. 3.1.5)	Cum	0.250	₹	2,845.94	₹	711.49
	b. Carriage:						
0406	1st class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹	440.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹	395.00	₹	142.20
0212	Coolie	Day	1.37	₹	310.00	₹	424.70
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Total					₹	6,346.61
	Add for sundries & contingencies	@	3%			₹	190.40
	Total					₹	6,537.01
	Add for Water charges:	@	1.0%			₹	65.37
						₹	6,602.38
	Add GST (multiplying factor)		0.1405			₹	927.63
						₹	7,530.01
	Add 15% for contractor's profit and overheads	@	15%			₹	1,129.50
						₹	8,659.51
	Add cess	@	1%			₹	86.60
					Total	₹	8,746.11
	Total cost for 1 Cum				Say,	₹	8,746.10

6.1.5 In cement mortar **1:6** (1 cement : 6 fine sand).

6.1.5	in cement mortar 1:6 (i cement : 6 line sand).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	380	₹	12,450.00	₹	4,731.00
	Cement mortar 1:6 (Rate as per item No. 3.1.6)	Cum	0.250	₹	2,491.79	₹	622.95
	b. Carriage:						
0406	1st class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹	440.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹	395.00	₹	142.20
0212	Coolie	Day	1.37	₹	310.00	₹	424.70
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Total					₹	6,258.07
	Add for sundries & contingencies	@	3%			₹	187.74
	Total					₹	6,445.81
	Add for Water charges:	@	1.0%			₹	64.46
						₹	6,510.27
	Add GST (multiplying factor)		0.1405			₹	914.69
						₹	7,424.96
	Add 15% for contractor's profit and overheads	@	15%			₹	1,113.74
						₹	8,538.70
	Add cess	@	1%			₹	85.39
					Total	₹	8,624.09
	Total cost for 1 Cum				Say,	₹	8,624.10

- 6.2 Second class brick work in foundation and plinth including cost of all materials as required complete:-
- 6.2.1 In cement mortar 1:2 (1 cement : 2 fine sand).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.	Cum.			
	a. Materials:				

06002	2nd class bricks.	1000 Nos	380	₹	10,480.00	₹	3,982.40
	Cement mortar 1:2 (Rate as per item No. 3.1.2)	Cum	0.250	₹	5,067.95	₹	1,266.99
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹	440.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹	395.00	₹	142.20
0212	Coolie	Day	1.37	₹	310.00	₹	424.70
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Total					₹	6,153.51
	Add for sundries & contingencies	@	3%			₹	184.61
	Total					₹	6,338.12
	Add for Water charges:	@	1.0%			₹	63.38
						₹	6,401.50
	Add GST (multiplying factor)		0.1405			₹	899.41
						₹	7,300.91
	Add 15% for contractor's profit and overheads	@	15%			₹	1,095.14
						₹	8,396.05
	Add cess	@	1%			₹	83.96
					Total	₹	8,480.01
	Total cost for 1 Cum				Say,	₹	8,480.00

6.2.2 In cement mortar 1:3 (1 cement: 3 fine sand).

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 1 cum.	Cum.				
	a. Materials:					
06002	2nd class bricks.	1000 Nos	380	₹ 10,480.00	₹	3,982.40
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.250	₹ 4,026.43	₹	1,006.61

	b. Carriage:						
0406	2nd class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹	440.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹	395.00	₹	142.20
0212	Coolie	Day	1.37	₹	310.00	₹	424.70
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Total					₹	5,893.13
	Add for sundries & contingencies	@	3%			₹	176.79
	Total					₹	6,069.92
	Add for Water charges:	@	1.0%			₹	60.70
						₹	6,130.62
	Add GST (multiplying factor)		0.1405			₹	861.35
						₹	6,991.97
	Add 15% for contractor's profit and overheads	@	15%			₹	1,048.80
						₹	8,040.77
	Add cess	@	1%			₹	80.41
					Total	₹	8,121.18
	Total cost for 1 Cum				Say,	₹	8,121.20

6.2.3 In cement mortar 1:4 (1 cement: 4 fine sand).

6.2.3	in cement mortar 1:4 () cement : 4 fine sand).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	380	₹	10,480.00	₹	3,982.40
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.250	₹	3,259.11	₹	814.78
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹	440.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹	395.00	₹	142.20
0212	Coolie	Day	1.37	₹	310.00	₹	424.70
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Total					₹	5,701.30
	Add for sundries & contingencies	@	3%			₹	171.04
	Total					₹	5,872.34
	Add for Water charges:	@	1.0%			₹	58.72
						₹	5,931.06
	Add GST (multiplying factor)		0.1405			₹	833.31
						₹	6,764.37
	Add 15% for contractor's profit and overheads	@	15%			₹	1,014.66
						₹	7,779.03
	Add cess	@	1%			₹	77.79
					Total	₹	7,856.82
	Total cost for 1 Cum				Say,	₹	7,856.80

6.2.4 In cement mortar 1:5 (1 cement : 5 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	380	₹	10,480.00	₹	3,982.40
	Cement mortar 1:5 (Rate as per item No. 3.1.5)	Cum	0.250	₹	2,845.94	₹	711.49
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹	440.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹	395.00	₹	142.20
0212	Coolie	Day	1.37	₹	310.00	₹	424.70

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0205	Bhisti/ Waterman	Day	0.20	₹ 310.00	₹	62.00
	Total				₹	5,598.01
	Add for sundries & contingencies	@	3%		₹	167.94
	Total				₹	5,765.95
	Add for Water charges:	@	1.0%		₹	57.66
					₹	5,823.61
	Add GST (multiplying factor)		0.1405		₹	818.22
					₹	6,641.83
	Add 15% for contractor's profit and overheads	@	15%		₹	996.27
					₹	7,638.10
	Add cess	@	1%		₹	76.38
				Total	₹	7,714.48
	Total cost for 1 Cum			Say,	₹	7,714.50

6.2.5 In cement mortar 1:6 (1 cement: 6 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	380	₹	10,480.00	₹	3,982.40
	Cement mortar 1:6 (Rate as per item No. 3.1.6)	Cum	0.250	₹	2,491.79	₹	622.95
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹	440.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹	395.00	₹	142.20
0212	Coolie	Day	1.37	₹	310.00	₹	424.70
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Total					₹	5,509.47
	Add for sundries & contingencies	@	3%			₹	165.28
	Total					₹	5,674.75
	Add for Water charges:	@	1.0%			₹	56.75
						₹	5,731.50
	Add GST (multiplying factor)		0.1405			₹	805.28
						₹	6,536.78
	Add 15% for contractor's profit and overheads	@	15%			₹	980.52
						₹	7,517.30
	Add cess	@	1%			₹	75.17
					Total	₹	7,592.47
	Total cost for 1 Cum				Say,	₹	7,592.50

6.3 First class brick work in superstructure above plinth level & upto floor-five level including cost of all materials as required complete:-

6.3.1 In cement mortar 1:2 (1 cement : 2 fine sand).

0.3.1	in cement mortal 1.2 (i cement . 2 fine sand).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	380	₹	12,450.00	₹	4,731.00
	Cement mortar 1:2 (Rate as per item No. 3.1.2)	Cum	0.250	₹	5,067.95	₹	1,266.99
	b. Carriage:						
0406	1st class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.47	₹	440.00	₹	206.80
0220	Mason (brick layer) 2nd class	Day	0.47	₹	395.00	₹	185.65
0212	Coolie	Day	2.93	₹	310.00	₹	908.30
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
				Total		₹	7,477.56
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	4.20%	on	₹	7,477.56	₹	314.06
	Total					₹	7,791.62
	Add for sundries & contingencies	@	3%			₹	233.75
	Total					₹	8,025.37
	Add for Water charges:	@	1.0%			₹	80.25
						₹	8,105.62
	Add GST (multiplying factor)		0.1405			₹	1,138.84
						₹	9,244.46
	Add 15% for contractor's profit and overheads	@	15%			₹	1,386.67
						₹	10,631.13
	Add cess	@	1%			₹	106.31
					Total	₹	10,737.44
	Total cost for 1 Cum				Say,	₹	10,737.40

^{6.3.2} In cement mortar 1:3 (1 cement : 3 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	380	₹	12,450.00	₹	4,731.00
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.250	₹	4,026.43	₹	1,006.61
	b. Carriage:						
0406	1st class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.47	₹	440.00	₹	206.80
0220	Mason (brick layer) 2nd class	Day	0.47	₹	395.00	₹	185.65
0212	Coolie	Day	2.93	₹	310.00	₹	908.30
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
					Total	₹	7,217.18
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	4.20%	on	₹	7,217.18	₹	303.12
	Total					₹	7,520.30
	Add for sundries & contingencies	@	3%			₹	225.61
	Total					₹	7,745.91
	Add for Water charges:	@	1.0%			₹	77.46
						₹	7,823.37
	Add GST (multiplying factor)		0.1405			₹	1,099.18
						₹	8,922.55
	Add 15% for contractor's profit and overheads	@	15%			₹	1,338.38
						₹	10,260.93
	Add cess	@	1%		·	₹	102.61
					Total	₹	10,363.54
	Total cost for 1 Cum				Say,	₹	10,363.50

6.3.3 In cement mortar **1:4** (1 cement : 4 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	380	₹	12,450.00	₹	4,731.00
	Cement mortar 1:4(Rate as per item No. 3.1.4)	Cum	0.250	₹	3,259.11	₹	814.78
	b. Carriage:						
0406	1st class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.47	₹	440.00	₹	206.80
0220	Mason (brick layer) 2nd class	Day	0.47	₹	395.00	₹	185.65
0212	Coolie	Day	2.93	₹	310.00	₹	908.30
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
					Total	₹	7,025.35
	d. Scaffolding, lifts, challis etc.: @ 4.7% on total.	4.7%	on	₹	7,025.35	₹	330.19
					Total	₹	7,355.54
	Add for sundries & contingencies	@	3%			₹	220.67
	Total					₹	7,576.21
	Add for Water charges:	@	1.0%			₹	75.76
						₹	7,651.97
	Add GST (multiplying factor)		0.1405			₹	1,075.10
						₹	8,727.07
	Add 15% for contractor's profit and overheads	@	15%			₹	1,309.06
						₹	10,036.13
	Add cess	@	1%			₹	100.36
					Total	₹	10,136.49
	Total cost for 1 Cum				Say,	₹	10,136.49

6.3.4 In cement mortar 1:5 (1 cement : 5 fine sand).

Code	Description	Unit	Quantity	Rate	Amount
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	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	380	₹	12,450.00	₹	4,731.00
	Cement mortar 1:5(Rate as per item No. 3.1.5)	Cum	0.25	₹	2,845.94	₹	711.49
	b. Carriage:						
0406	1st class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.47	₹	440.00	₹	206.80
0220	Mason (brick layer) 2nd class	Day	0.47	₹	395.00	₹	185.65
0212	Coolie	Day	2.93	₹	310.00	₹	908.30
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
					Total	₹	6,922.06
	d. Scaffolding, lifts, challis etc.: @ 4.7% on total.	4.7%	on	₹	6,922.06	₹	325.34
					Total	₹	7,247.40
	Add for sundries & contingencies	@	3%			₹	217.42
	Total					₹	7,464.82
	Add for Water charges:	@	1.0%			₹	74.65
						₹	7,539.47
	Add GST (multiplying factor)		0.1405			₹	1,059.30
						₹	8,598.77
	Add 15% for contractor's profit and overheads	@	15%			₹	1,289.82
						₹	9,888.59
	Add cess	@	1%			₹	98.89
					Total	₹	9,987.48
	Total cost for 1 Cum				Say,	₹	9,987.50

6.3.5 In cement mortar **1:6** (1 cement : 6 fine sand).

				_			
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	380	₹	12,450.00	₹	4,731.00
	Cement mortar 1:6(Rate as per item No. 3.1.6)	Cum	0.25	₹	2,491.79	₹	622.95
	b. Carriage:						
0406	1st class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.47	₹	440.00	₹	206.80
0220	Mason (brick layer) 2nd class	Day	0.47	₹	395.00	₹	185.65
0212	Coolie	Day	2.93	₹	310.00	₹	908.30
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
					Total	₹	6,833.52
	d. Scaffolding, lifts, challis etc.: @ 4.7% on total.	4.7%	on	₹	6,833.52	₹	321.18
					Total	₹	7,154.70
	Add for sundries & contingencies	@	3%			₹	214.64
	Total					₹	7,369.34
	Add for Water charges:	@	1.0%			₹	73.69
						₹	7,443.03
	Add GST (multiplying factor)		0.1405			₹	1,045.75
						₹	8,488.78
	Add 15% for contractor's profit and overheads	@	15%			₹	1,273.32
						₹	9,762.10
	Add cess	@	1%			₹	97.62
					Total	₹	9,859.72
	Total cost for 1 Cum				Say,	₹	9,859.70

6.4 Second class brick work in superstructure above plinth level & upto floor-five level including cost of all materials as required complete:-

6.4.1 In cement mortar 1:2 (1 cement : 2 fine sand).

	1						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	380	₹	10,480.00	₹	3,982.40
	Cement mortar 1:2 (Rate as per item No. 3.1.2)	Cum	0.250	₹	5,067.95	₹	1,266.99
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.47	₹	440.00	₹	206.80
0220	Mason (brick layer) 2nd class	Day	0.47	₹	395.00	₹	185.65
0212	Coolie	Day	2.93	₹	310.00	₹	908.30
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
					Total	₹	6,728.96
	d. Scaffolding, lifts, challis etc.: @ 4.7% on total.	4.7%	on	₹	6,728.96	₹	316.26
					Total	₹	7,045.22
	Add for sundries & contingencies	@	3%			₹	211.36
	Total					₹	7,256.58
	Add for Water charges:	@	1.0%			₹	72.57
						₹	7,329.15
	Add GST (multiplying factor)		0.1405			₹	1,029.75
						₹	8,358.90
	Add 15% for contractor's profit and overheads	@	15%			₹	1,253.84
						₹	9,612.74
	Add cess	@	1%			₹	96.13
					Total	₹	9,708.87

Total cost for 1 Cum	Cov	3 0 .	708 90
lotal cost for 1 Cum	Say,	₹ 9,	708.90

6.4.2 In cement mortar 1:3 (1 cement : 3 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	380	₹	10,480.00	₹	3,982.40
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.250	₹	4,026.43	₹	1,006.61
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.47	₹	440.00	₹	206.80
0220	Mason (brick layer) 2nd class	Day	0.47	₹	395.00	₹	185.65
0212	Coolie	Day	2.93	₹	310.00	₹	908.30
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
					Total	₹	6,468.58
	d. Scaffolding, lifts, challis etc.: @ 4.7% on total.	4.7%	on	₹	6,468.58	₹	304.02
					Total	₹	6,772.60
	Add for sundries & contingencies	@	3%			₹	203.18
	Total					₹	6,975.78
	Add for Water charges:	@	1.0%			₹	69.76
						₹	7,045.54
	Add GST (multiplying factor)		0.1405			₹	989.90
						₹	8,035.44
	Add 15% for contractor's profit and overheads	@	15%			₹	1,205.32
						₹	9,240.76
	Add cess	@	1%			₹	92.41
					Total	₹	9,333.17
	Total cost for 1 Cum	•			Say,	₹	9,333.20

6.4.3 In cement mortar **1:4** (1 cement : 4 fine sand).

6.4.3	In cement mortar 1:4 (1 cement : 4 fine sand).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	380	₹	10,480.00	₹	3,982.40
	Cement mortar 1:4(Rate as per item No. 3.1.4)	Cum	0.250	₹	3,259.11	₹	814.78
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.47	₹	440.00	₹	206.80
0220	Mason (brick layer) 2nd class	Day	0.47	₹	395.00	₹	185.65
0212	Coolie	Day	2.93	₹	310.00	₹	908.30
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
					Total	₹	6,276.75
	d. Scaffolding, lifts, challis etc.: @ 4.7% on total.	4.7%	on	₹	6,276.75	₹	295.01
					Total	₹	6,571.76
	Add for sundries & contingencies	@	3%			₹	197.15
	Total					₹	6,768.91
	Add for Water charges:	@	1.0%			₹	67.69
						₹	6,836.60
	Add GST (multiplying factor)		0.1405			₹	960.54
						₹	7,797.14
	Add 15% for contractor's profit and overheads	@	15%			₹	1,169.57
						₹	8,966.71
	Add cess	@	1%			₹	89.67
					Total	₹	9,056.38
	Total cost for 1 Cum				Say,	₹	9,056.40

6.4.4 In cement mortar 1:5 (1 cement: 5 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	380	₹	10,480.00	₹	3,982.40
	Cement mortar 1:5(Rate as per item No. 3.1.5)	Cum	0.25	₹	2,845.94	₹	711.49
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.47	₹	440.00	₹	206.80
0220	Mason (brick layer) 2nd class	Day	0.47	₹	395.00	₹	185.65
0212	Coolie	Day	2.93	₹	310.00	₹	908.30
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
					Total	₹	6,173.46
	d. Scaffolding, lifts, challis etc.: @ 4.7% on total.	4.7%	on	₹	6,173.46	₹	290.15
					Total	₹	6,463.61
	Add for sundries & contingencies	@	3%			₹	193.91
	Total					₹	6,657.52
	Add for Water charges:	@	1.0%			₹	66.58
						₹	6,724.10
	Add GST (multiplying factor)		0.1405			₹	944.74
						₹	7,668.84
	Add 15% for contractor's profit and overheads	@	15%			₹	1,150.33
					<u> </u>	₹	8,819.17
	Add cess	@	1%			₹	88.19
					Total	₹	8,907.36
	Total cost for 1 Cum				Say,	₹	8,907.40

6.4.5 In cement mortar 1:6 (1 cement: 6 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.	, ,				
	a. Materials:	9 9					
06002	2nd class bricks.	1000 Nos	380	₹	10,480.00	₹	3,982.40
	Cement mortar 1:6(Rate as per item No. 3.1.6)	Cum	0.25	₹	2,491.79	₹	622.95
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	380	₹	307.42	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.47	₹	440.00	₹	206.80
0220	Mason (brick layer) 2nd class	Day	0.47	₹	395.00	₹	185.65
0212	Coolie	Day	2.93	₹	310.00	₹	908.30
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
					Total	₹	6,084.92
	d. Scaffolding, lifts, challis etc.: @ 4.7% on total.	4.7%	on	₹	6,084.92	₹	285.99
					Total	₹	6,370.91
	Add for sundries & contingencies	@	3%			₹	191.13
	Total					₹	6,562.04
	Add for Water charges:	@	1.0%			₹	65.62
						₹	6,627.66
	Add GST (multiplying factor)		0.1405			₹	931.19
						₹	7,558.85
	Add 15% for contractor's profit and overheads	@	15%			₹	1,133.83
						₹	8,692.68
	Add cess	@	1%			₹	86.93
					Total	₹	8,779.61

ı	Tatal and for 1 Orms	C -	T-	0.770.70
	lotal cost for 1 Cum	Say,	₹	8,779.60

6.5 Extra for brick masonry work in superstructure above floor-V level for each four floors or part thereof by mechanical means by lifting material using mobile crane as required complete.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 5.300 cum per four floors .[For both 1st class and 2nd class bricks with all mortars]	Cum.				
	a. Materials and T&P:					
0121	Mobile crane (hire)	Day	0.125	₹ 7,800.00	₹	975.00
01001	Fuel consumption per hour = 8 litre. Diesel oil	Ltr.	8.000	₹ 68.75	₹	550.00
	b. Carriage: Fuel	LS	5.000	₹ 1.00	₹	5.00
					₹	1,530.00
	Add for sundries & contingencies	@	3%		₹	45.90
	Total				₹	1,575.90
	Add for Water charges:	@	1.0%		₹	15.76
					₹	1,591.66
	Add GST (multiplying factor)		0.1405		₹	223.63
					₹	1,815.29
	Add 15% for contractor's profit and overheads	@	15%		₹	272.29
					₹	2,087.58
	Add cess	@	1%		₹	20.88
	Total cost for 5.3 Cum	Total	₹	2,108.46		
	Total cost for 1 Cum		₹	397.82		
		_	_	Say,	₹	397.80

6.6 Extra for brick masonry work in triangular, square and rectangular pillars including cost of all materials as required complete.

	Thaterials as required complete:		T	ı		
Code	Description	Unit	Quantity	Rate	A	4mount
	Details of cost for 1 cum.	Cum.				
	a. Labours (extra):					
0219	Mason 1st Class	Day	0.67	₹ 440.00	₹	294.80
0224	Mate	Day	0.03	₹ 310.00	₹	9.30
					₹	304.10
	Add for sundries & contingencies	@	3%		₹	9.12
	Total				₹	313.22
	Add for Water charges:	@	1.0%		₹	3.13
					₹	316.35
	Add GST (multiplying factor)		0.1405		₹	44.45
					₹	360.80
	Add 15% for contractor's profit and overheads	@	15%		₹	54.12
					₹	414.92
	Add cess	@	1%		₹	4.15
				Total	₹	419.07
	Total cost for 1 Cum		•	Say,	₹	419.10

6.7 Extra for brick masonry work in circular pillars including cost of all materials as required complete.

Code	Description	Unit	Quantity	Rate	Δ	mount
	Details of cost for 1 cum.	Cum.				
	a. Labours (extra):					
0219	Mason 1st Class	Day	1.20	₹ 440.00	₹	528.00
0224	Mate	Day	0.05	₹ 310.00	₹	15.50
					₹	543.50
	Add for sundries & contingencies	@	3%		₹	16.31
	Total				₹	559.81
	Add for Water charges:	@	1.0%		₹	5.60
					₹	565.41
	Add GST (multiplying factor)		0.1405		₹	79.44

				₹	644.85
Add 15% for contractor's profit and overheads	@	15%		₹	96.73
				₹	741.58
Add cess	@	1%		₹	7.42
			Total	₹	749.00
Total cost for 1 Cum			Say,	₹	749.00

6.8 First class brick work in plain arches in superstructure upto floor five level including centring and shuttering for span upto 6 metres as required complete:-

6.8.1 In cement mortar 1:2 (1 cement: 2 fine sand).

6.8.1	In cement mortar 1:2 (1 cement: 2 fine sand).	1	•				
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	395	₹	12,450.00	₹	4,917.75
	Cement mortar 1:2 [As per item No. 3.1.2] (A)	Cum	0.250	₹	5,067.95	₹	1,266.99
	Centering and Shuttering:						
	Taking a semi circular arch 3.6m span, 3.6m long and 0.40m thick						
	Area of centering =3.1428 x 1.8 x 3.6 = 20.37 Sqm.						
	Brick work in Arch =1/2x 3.1428x1/2x(4.4+3.6)x0.4x3.6 = 9.050 Cum.						
	Area per Cum.= 20.37/9.05 = 2.25 Sqm. [As per Item 5.8.8] (B)	Sqm.	2.25	₹	719.20	₹	1,158.08
	Scaffolding, lifts, challis etc. (C)	2%	on	₹	6,184.74	₹	123.69
	b. Carriage:						
0406	1st class bricks.	1000 Nos	395	₹	307.42	₹	121.43
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.53	₹	440.00	₹	233.20
0220	Mason (brick layer) 2nd class	Day	0.53	₹	395.00	₹	209.35
0212	Coolie	Day	3.42	₹	310.00	₹	1,060.20
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
						₹	9,152.69
	Add for sundries & contingencies	@	3%			₹	274.58
	Total					₹	9,427.27
	Add for Water charges:	@	1.0%			₹	94.27
						₹	9,521.54
	Add GST (multiplying factor)		0.1405			₹	1,337.78
		_	1=0/			₹	10,859.32
	Add 15% for contractor's profit and overheads	@	15%			₹	1,628.90
	Add coop		10/			₹	12,488.22
	Add cess	@	1%		Total	₹	124.88
	Total cost for 1 Cum		Total	₹	12,613.10 12,613.10		
	TOTAL COST TOLL CUM		Say,	1	12,013.10		

6.8.2 In cement mortar 1:3 (1 cement: 3 fine sand).

Code	Description	Unit	Quantity	Rate	Ar	Amount	
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	395	₹ 12,450.00	₹	4,917.75	
	Cement mortar 1:3 [As per item No. 3.1.3] (A)	Cum	0.250	₹ 4,026.43	₹	1,006.61	
	Centering and Shuttering:						
	Taking a semi circular arch 3.6m span, 3.6m long and 0.40m thick						
	Area of centering =3.142 x 1.8 x 3.6 = 20.37 Sqm.						
	Brick work in Arch = $1/2x$ 3.1428x1/2x(4.4+3.6)x0.4x3.6 = 9.050 Cum.						

	Area per Cum.= 20.37/9.05 = 2.25 Sqm. [As per Item 5.8.8] (B)	Sqm.	2.25	₹	719.20	₹	1,158.08
	Scaffolding, lifts, challis etc. (C)	2%	on	₹	5,924.36	₹	118.49
	b. Carriage:						
0406	1st class bricks.	1000 Nos	395	₹	307.42	₹	121.43
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.53	₹	440.00	₹	233.20
0220	Mason (brick layer) 2nd class	Day	0.53	₹	395.00	₹	209.35
0212	Coolie	Day	3.42	₹	310.00	₹	1,060.20
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
						₹	8,887.11
	Add for sundries & contingencies	@	3%			₹	266.61
	Total					₹	9,153.72
	Add for Water charges:	@	1.0%			₹	91.54
						₹	9,245.26
	Add GST (multiplying factor)		0.1405			₹	1,298.96
						₹	10,544.22
	Add 15% for contractor's profit and overheads	@	15%			₹	1,581.63
						₹	12,125.85
	Add cess	@	1%			₹	121.26
					•	₹	12,247.11
	Total cost for 1 Cum				Say,	₹	12,247.11

6.8.3 In cement mortar 1:4 (1 cement: 4 fine sand).

6.8.3	In cement mortar 1:4 (1 cement: 4 fine sand).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	395	₹	12,450.00	₹	4,917.75
	Cement mortar 1:4 [As per item No. 3.1.4] (A)	Cum	0.250	₹	3,259.11	₹	814.78
	Centering and Shuttering:						
	Taking a semi circular arch 3.6m span, 3.6m long and 0.40m thick						
	Area of centering =3.142 x 1.8 x 3.6 = 20.37 Sqm.						
	Brick work in Arch = $1/2x$ 3.1428x1/2x(4.4+3.6)x0.4x3.6 = 9.050 Cum.						
	Area per Cum.= 20.37/9.05 = 2.25 Sqm. [As per Item 5.8.8] (B)	Sqm.	2.25	₹	719.20	₹	1,158.08
	Scaffolding, lifts, challis etc. (C)	2%	on	₹	5,732.53	₹	114.65
	b. Carriage:						
0406	1st class bricks.	1000 Nos	395	₹	307.42	₹	121.43
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.53	₹	440.00	₹	233.20
0220	Mason (brick layer) 2nd class	Day	0.53	₹	395.00	₹	209.35
0212	Coolie	Day	3.42	₹	310.00	₹	1,060.20
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
						₹	8,691.44
	Add for sundries & contingencies	@	3%			₹	260.74
	Total					₹	8,952.18
	Add for Water charges:	@	1.0%			₹	89.52
						₹	9,041.70
	Add GST (multiplying factor)		0.1405			₹	1,270.36
						₹	10,312.06
	Add 15% for contractor's profit and overheads	@	15%			₹	1,546.81
			40/			₹	11,858.87
	Add cess	@	1%	_	T. I. I	₹	118.59
	Total cost for 1 Com-				Total	₹	11,977.46
	Total cost for 1 Cum				Say,	₹	11,977.50

- 6.9 First class brick work in gauged arches in superstructure upto floor five level including centring and shuttering complete for span upto 6 metres as required complete:-
- **6.9.1** In cement mortar 1:2 (1 cement: 2 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	399	₹	12,450.00	₹	4,967.55
	Cement mortar 1:2 [As per item No. 3.1.2] (A)	Cum	0.250	₹	5,067.95	₹	1,266.99
	Centering and Shuttering:						
	Taking a semi circular arch 3.6m span, 3.6m long and 0.40m thick						
	Area of centering =3.142 x 1.8 x 3.6 = 20.37 sqm.						
	Brick work in Arch =1/2x						
	3.1428x1/2x(4.4+3.6)x0.4x3.6 = 9.050 Cum.						
	Area per Cum.= 20.37/9.05 = 2.25 Sqm. [As per Item 5.8.8] (B)	Sqm.	2.25	₹	719.20	₹	1,158.08
	Scaffolding, lifts, challis etc. (C)	2%	on	₹	6,234.54	₹	124.69
	b. Carriage:						
0406	1st class bricks.	1000 Nos	399	₹	307.42	₹	122.66
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	1.13	₹	440.00	₹	497.20
0220	Mason (brick layer) 2nd class	Day	1.13	₹	395.00	₹	446.35
0212	Coolie	Day	5.55	₹	310.00	₹	1,720.50
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
						₹	10,366.02
	Add for sundries & contingencies	@	3%			₹	310.98
	Total					₹	10,677.00
	Add for Water charges:	@	1.0%			₹	106.77
						₹	10,783.77
	Add GST (multiplying factor)		0.1405			₹	1,515.12
						₹	12,298.89
	Add 15% for contractor's profit and overheads	@	15%			₹	1,844.83
			40/			₹	14,143.72
	Add cess	@	1%		T	₹	141.44
	Tatal and for 4.0				Total	₹	14,285.16
	Total cost for 1 Cum				Say,	₹	14,285.20

6.9.2 In cement mortar 1:3 (cement:3 fine sand).

	5						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	399	₹	12,450.00	₹	4,967.55
	Cement mortar 1:3 [As per item No. 3.1.3] (A)	Cum	0.250	₹	4,026.43	₹	1,006.61
	Centering and Shuttering:						
	Taking a semi circular arch 3.6m span, 3.6m long and						
	0.40m thick						
	Area of centering =3.142 x 1.8 x 3.6 = 20.37 sqm.						
	Brick work in Arch =1/2x						
	3.1428x1/2x(4.4+3.6)x0.4x3.6 = 9.050 Cum.						
	Area per Cum.= 20.37/9.05 = 2.25 Sqm. [As per Item 5.8.8] (B)	Sqm.	2.25	₹	719.20	₹	1,158.08
	Scaffolding, lifts, challis etc. (C)	2%	on	₹	5,974.16	₹	119.48
	b. Carriage:				•		
0406	1st class bricks.	1000 Nos	399	₹	307.42	₹	122.66
_	c. Labours:						

0219	Mason (brick layer) 1st class	Day	1.13	₹ 440.00	₹	497.20
0220	Mason (brick layer) 2nd class	Day	1.13	₹ 395.00	₹	446.35
0212	Coolie	Day	5.55	₹ 310.00	₹	1,720.50
0205	Bhisti/ Waterman	Day	0.20	₹ 310.00	₹	62.00
					₹	10,100.43
	Add for sundries & contingencies	@	3%		₹	303.01
	Total				₹	10,403.44
	Add for Water charges:	@	1.0%		₹	104.03
					₹	10,507.47
	Add GST (multiplying factor)		0.1405		₹	1,476.30
					₹	11,983.77
	Add 15% for contractor's profit and overheads	@	15%		₹	1,797.57
					₹	13,781.34
	Add cess	@	1%		₹	137.81
				Total	₹	13,919.15
	Total cost for 1 Cum	·		Say,	₹	13,919.20

6.9.3	In cement mortar 1:4 (cement:4 fine sand).		_				
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	399	₹	12,450.00	₹	4,967.55
	Cement mortar 1:4 [As per item No. 3.1.4] (A)	Cum	0.250	₹	3,259.11	₹	814.78
	Centering and Shuttering:						
	Taking a semi circular arch 3.6m span, 3.6m long and 0.40m thick						
	Area of centering =3.142 x 1.8 x 3.6 = 20.37 sqm.						
	Brick work in Arch =1/2x 3.1428x1/2x(4.4+3.6)x0.4x3.6 = 9.050 Cum.						
	Area per Cum.= 20.37/9.05 = 2.25 Sqm. [As per Item 5.8.8] (B)	Sqm.	2.25	₹	719.20	₹	1,158.08
	Scaffolding, lifts, challis etc. (C)	2%	on	₹	5,782.33	₹	115.65
	b. Carriage:						
0406	1st class bricks.	1000 Nos	399	₹	307.42	₹	122.66
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	1.13	₹	440.00	₹	497.20
0220	Mason (brick layer) 2nd class	Day	1.13	₹	395.00	₹	446.35
0212	Coolie	Day	5.55	₹	310.00	₹	1,720.50
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
						₹	9,904.77
	Add for sundries & contingencies	@	3%			₹	297.14
	Total					₹	10,201.91
	Add for Water charges:	@	1.0%			₹	102.02
						₹	10,303.93
	Add GST (multiplying factor)		0.1405			₹	1,447.70
		_	1=0/			₹	11,751.63
	Add 15% for contractor's profit and overheads	@	15%			₹	1,762.74
			40/			₹	13,514.37
	Add cess	@	1%		Total	₹	135.14
	Total cost for 1 Corre				Total	₹	13,649.51
	Total cost for 1 Cum		Say,	₹	13,649.50		

Half brick masonry with first class bricks in foundation and plinth including cost of all materials as 6.10 required complete:-

6.10.1 In cement mortar 1:2 (1 cement : 2 fine sand).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	Sqm.			
	a. Materials:				

06001	1st class bricks.	1000 Nos	520	₹	12,450.00	₹	6,474.00
	Cement mortar 1:2 (Rate as per item No. 3.1.2)	Cum	0.280	₹	5,067.95	₹	1,419.03
	b. Carriage:						
0406	1st class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.45	₹	440.00	₹	198.00
0220	Mason (brick layer) 2nd class	Day	0.45	₹	395.00	₹	177.75
0212	Coolie	Day	1.55	₹	310.00	₹	480.50
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00
						₹	9,126.14
	Add for sundries & contingencies	@	3%			₹	273.78
	Total					₹	9,399.92
	Add for Water charges:	@	1.0%			₹	94.00
						₹	9,493.92
	Add GST (multiplying factor)		0.1405			₹	1,333.90
						₹	10,827.82
	Add 15% for contractor's profit and overheads	@	15%			₹	1,624.17
						₹	12,451.99
	Add cess	@	1%			₹	124.52
					Total	₹	12,576.51
_	Total cost for 1 Sqm					₹	1,257.65
					Say,	₹	1,257.70

6.10.2 In cement mortar 1:3 (1 cement: 3 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	520	₹	12,450.00	₹	6,474.00
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.280	₹	4,026.43	₹	1,127.40
	b. Carriage:						
0406	1st class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.45	₹	440.00	₹	198.00
0220	Mason (brick layer) 2nd class	Day	0.45	₹	395.00	₹	177.75
0212	Coolie	Day	1.55	₹	310.00	₹	480.50
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00
						₹	8,834.51
	Add for sundries & contingencies	@	3%			₹	265.04
	Total					₹	9,099.55
	Add for Water charges:	@	1.0%			₹	91.00
						₹	9,190.55
	Add GST (multiplying factor)		0.1405			₹	1,291.27
						₹	10,481.82
	Add 15% for contractor's profit and overheads	@	15%			₹	1,572.27
						₹	12,054.09
	Add cess	@	1%			₹	120.54
					Total	₹	12,174.63
	Total cost for 1 Sqm					₹	1,217.46
					Say,	₹	1,217.50

6.10.3 In cement mortar 1:4 (1 cement : 4 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	520	₹	12,450.00	₹	6,474.00
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.280	₹	3,259.11	₹	912.55
	b. Carriage:						
0406	1st class bricks.	1000 Nos	520	₹	307.42	₹	159.86

	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.45	₹	440.00	₹	198.00
0220	Mason (brick layer) 2nd class	Day	0.45	₹	395.00	₹	177.75
0212	Coolie	Day	1.55	₹	310.00	₹	480.50
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00
						₹	8,619.66
	Add for sundries & contingencies	@	3%			₹	258.59
	Total					₹	8,878.25
	Add for Water charges:	@	1.0%			₹	88.78
						₹	8,967.03
	Add GST (multiplying factor)		0.1405			₹	1,259.87
						₹	10,226.90
	Add 15% for contractor's profit and overheads	@	15%			₹	1,534.04
						₹	11,760.94
	Add cess	@	1%			₹	117.61
					Total	₹	11,878.55
	Total cost for 1 Sqm					₹	1,187.86
					Say,	₹	1,187.90

6.10.4 In cement mortar **1:5** (1 cement : 5 fine sand).

6.10.4	In cement mortar 1:5 (1 cement : 5 fine sand).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	520	₹	12,450.00	₹	6,474.00
	Cement mortar 1:5 (Rate as per item No. 3.1.5)	Cum	0.280	₹	2,845.94	₹	796.86
	b. Carriage:						
0406	1st class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.45	₹	440.00	₹	198.00
0220	Mason (brick layer) 2nd class	Day	0.45	₹	395.00	₹	177.75
0212	Coolie	Day	1.55	₹	310.00	₹	480.50
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00
						₹	8,503.97
	Add for sundries & contingencies	@	3%			₹	255.12
	Total					₹	8,759.09
	Add for Water charges:	@	1.0%			₹	87.59
						₹	8,846.68
	Add GST (multiplying factor)		0.1405			₹	1,242.96
						₹	10,089.64
	Add 15% for contractor's profit and overheads	@	15%			₹	1,513.45
						₹	11,603.09
	Add cess	@	1%			₹	116.03
	Total cost for 10 Sqm					₹	11,719.12
	Total cost for 1 Sqm					₹	1,171.91
					Say,	₹	1,171.90

6.11 Half brick masonry with second class bricks in foundation and plinth including cost of all materials required as required complete:-

6.11.1 In cement mortar 1:2 (1 cement : 2 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	520	₹	10,480.00	₹	5,449.60
	Cement mortar 1:2 (Rate as per item No. 3.1.2)	Cum	0.280	₹	5,067.95	₹	1,419.03
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.45	₹	440.00	₹	198.00

0220	Mason (brick layer) 2nd class	Day	0.45	₹ 395.00) ₹	177.75
0212	Coolie	Day	1.55	₹ 310.00) ₹	480.50
0205	Bhisti/ Waterman	Day	0.70	₹ 310.00) ₹	217.00
					₹	8,101.74
	Add for sundries & contingencies	@	3%		₹	243.05
	Total				₹	8,344.79
	Add for Water charges:	@	1.0%		₹	83.45
					₹	8,428.24
	Add GST (multiplying factor)		0.1405		₹	1,184.17
					₹	9,612.41
	Add 15% for contractor's profit and overheads	@	15%		₹	1,441.86
					₹	11,054.27
	Add cess	@	1%		₹	110.54
				Total	₹	11,164.81
	Total cost for 1 Sqm				₹	1,116.48
				Say,	₹	1,116.50

6.11.2 In cement mortar 1:3 (1 cement : 3 fine sand).

6.11.2	In cement mortar 1:3 (1 cement : 3 fine sand).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	520	₹	10,480.00	₹	5,449.60
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.280	₹	4,026.43	₹	1,127.40
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.45	₹	440.00	₹	198.00
0220	Mason (brick layer) 2nd class	Day	0.45	₹	395.00	₹	177.75
0212	Coolie	Day	1.55	₹	310.00	₹	480.50
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00
						₹	7,810.11
	Add for sundries & contingencies	@	3%			₹	234.30
	Total					₹	8,044.41
	Add for Water charges:	@	1.0%			₹	80.44
						₹	8,124.85
	Add GST (multiplying factor)		0.1405			₹	1,141.54
						₹	9,266.39
	Add 15% for contractor's profit and overheads	@	15%			₹	1,389.96
						₹	10,656.35
	Add cess	@	1%			₹	106.56
					Total	₹	10,762.91
	Total cost for 1 Sqm		1			₹	1,076.29
					Say,	₹	1,076.30

6.11.3 In cement mortar 1:4 (1 cement: 4 fine sand).

Code	Description	Unit	Quantity		Rate		Amount	
	Details of cost for 10 Sqm.	Sqm.						
	a. Materials:							
06002	2nd class bricks.	1000 Nos	520	₹	10,480.00	₹	5,449.60	
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.280	₹	3,259.11	₹	912.55	
	b. Carriage:							
0406	2nd class bricks.	1000 Nos	520	₹	307.42	₹	159.86	
	c. Labours:							
0219	Mason (brick layer) 1st class	Day	0.45	₹	440.00	₹	198.00	
0220	Mason (brick layer) 2nd class	Day	0.45	₹	395.00	₹	177.75	
0212	Coolie	Day	1.55	₹	310.00	₹	480.50	
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00	
						₹	7,595.26	
	Add for sundries & contingencies	@	3%		·	₹	227.86	

Total				₹	7,823.12
Add for Water charges:	@	1.0%		₹	78.23
				₹	7,901.35
Add GST (multiplying factor)		0.1405		₹	1,110.14
				₹	9,011.49
Add 15% for contractor's profit and overheads	@	15%		₹	1,351.72
				₹	10,363.21
Add cess	@	1%		₹	103.63
			Total	₹	10,466.84
Total cost for 1 Sqm				₹	1,046.68
			Say,	₹	1,046.70

6.11.4 In cement mortar 1:5 (1 cement: 5 fine sand).

6.11.4	in cement mortar 1:5 () cement : 5 fine sand).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	520	₹	10,480.00	₹	5,449.60
	Cement mortar 1:5 (Rate as per item No. 3.1.5)	Cum	0.280	₹	2,845.94	₹	796.86
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.45	₹	440.00	₹	198.00
0220	Mason (brick layer) 2nd class	Day	0.45	₹	395.00	₹	177.75
0212	Coolie	Day	1.55	₹	310.00	₹	480.50
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00
						₹	7,479.57
	Add for sundries & contingencies	@	3%			₹	224.39
	Total					₹	7,703.96
	Add for Water charges:	@	1.0%			₹	77.04
						₹	7,781.00
	Add GST (multiplying factor)		0.1405			₹	1,093.23
						₹	8,874.23
	Add 15% for contractor's profit and overheads	@	15%			₹	1,331.13
						₹	10,205.36
	Add cess	@	1%			₹	102.05
					Total	₹	10,307.41
	Total cost for 1 Sqm	-	1			₹	1,030.74
					Say,	₹	1,030.70

6.12 Half brick masonry with first class bricks in superstructure upto floor five level including cost of all materials as required complete:-

6.12.1 In cement mortar 1:2 (1 cement : 2 fine sand).

	() ;						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	520	₹	12,450.00	₹	6,474.00
	Cement mortar 1:2 (Rate as per item No. 3.1.2)	Cum	0.280	₹	5,067.95	₹	1,419.03
	b. Carriage:						
0406	1st class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	395.00	₹	237.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00
						₹	9,790.79
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	4%	on	₹	9,790.79	₹	411.21
	Total					₹	10,419.00

Add for sundries & contingencies	@	3%		₹ 312.57
Total				₹ 10,731.57
Add for Water charges:	@	1.0%		₹ 107.32
				₹ 10,838.89
Add GST (multiplying factor)		0.1405		₹ 1,522.86
				₹ 12,361.75
Add 15% for contractor's profit and overheads	@	15%		₹ 1,854.26
				₹ 14,216.01
Add cess	@	1%		₹ 142.16
			Total	₹ 14,358.17
Total cost for 1 Sqm			•	₹ 1,435.82
			Say,	₹ 1,435.80

6.12.2 In cement mortar 1:3 (1 cement: 3 fine sand).

6.12.2	In cement mortar 1:3 (1 cement : 3 fine sand).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	520	₹	12,450.00	₹	6,474.00
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.280	₹	4,026.43	₹	1,127.40
	b. Carriage:						
0406	1st class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	395.00	₹	237.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00
						₹	9,499.16
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	4%	on	₹	9,499.16	₹	398.96
	Total					₹	10,115.12
	Add for sundries & contingencies	@	3%			₹	303.45
	Total					₹	10,418.57
	Add for Water charges:	@	1.0%			₹	104.19
						₹	10,522.76
	Add GST (multiplying factor)		0.1405			₹	1,478.45
						₹	12,001.21
	Add 15% for contractor's profit and overheads	@	15%			₹	1,800.18
						₹	13,801.39
	Add cess	@	1%			₹	138.01
	T. I. I. C. 10				Total	₹	13,939.40
	Total cost for 1 Sqm	ı	I			₹	1,393.94
					Say,	₹	1,393.90

6.12.3 In cement mortar 1:4 (1 cement : 4 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	520	₹	12,450.00	₹	6,474.00
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.280	₹	3,259.11	₹	912.55
	b. Carriage:						
0406	1st class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	395.00	₹	237.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00
						₹	9,284.31
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	4.2%	on	₹	9,284.31	₹	389.94
	Total					₹	9,891.25

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Add for sundries & contingencies	@	3%		₹	296.74
Total				₹	10,187.99
Add for Water charges:	@	1.0%		₹	101.88
				₹	10,289.87
Add GST (multiplying factor)		0.1405		₹	1,445.73
				₹	11,735.60
Add 15% for contractor's profit and overheads	@	15%		₹	1,760.34
				₹	13,495.94
Add cess	@	1%		₹	134.96
			Total	₹	13,630.90

Total cost for 1 Sqm			₹	1,363.09
		Say,	₹	1,363.10

6.12.4 In cement mortar 1:5 (1 cement: 5 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	520	₹	12,450.00	₹	6,474.00
	Cement mortar 1:5 (Rate as per item No. 3.1.5)	Cum	0.280	₹	2,845.94	₹	796.86
	b. Carriage:						
0406	1st class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	395.00	₹	237.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.70	₹	310.00	₹	217.00
						₹	9,168.62
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	4.2%	on	₹	9,168.62	₹	385.08
	Total					₹	9,770.70
	Add for sundries & contingencies	@	3%			₹	293.12
	Total					₹	10,063.82
	Add for Water charges:	@	1.0%			₹	100.64
						₹	10,164.46
	Add GST (multiplying factor)		0.1405			₹	1,428.11
						₹	11,592.57
	Add 15% for contractor's profit and overheads	@	15%			₹	1,738.89
						₹	13,331.46
	Add cess	@	1%			₹	133.31
					Total	₹	13,464.77
	Total cost for 1 Sqm					₹	1,346.48
					Say,	₹	1,346.50

6.13 Half brick masonry with second class bricks in superstructure upto floor five level including cost of all materials as required complete:-

6.13.1 In cement mortar 1:2 (1 cement : 2 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	520	₹	10,480.00	₹	5,449.60
	Cement mortar 1:2 (Rate as per item No. 3.1.2)	Cum	0.280	₹	5,067.95	₹	1,419.03
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	395.00	₹	237.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
						₹	8,611.39
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	4.2%	on	₹	8,611.39	₹	361.68
	Total					₹	9,035.07
	Add for sundries & contingencies	@	3%			₹	271.05
	Total					₹	9,306.12
	Add for Water charges:	@	1.0%			₹	93.06
						₹	9,399.18
	Add GST (multiplying factor)		0.1405			₹	1,320.58
						₹	10,719.76

Add 15% for contractor's profit and overheads	@	15%		₹	1,607.96
				₹	12,327.72
Add cess	@	1%		₹	123.28
			Total	₹	12,451.00
Total cost for 1 Sqm				₹	1,245.10
			Say,	₹	1,245.10

6.13.2 In cement mortar 1:3 (1 cement: 3 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	520	₹	10,480.00	₹	5,449.60
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.280	₹	4,026.43	₹	1,127.40
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	395.00	₹	237.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
						₹	8,319.76
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	4.2%	on	₹	8,319.76	₹	349.43
	Total					₹	8,731.19
	Add for sundries & contingencies	@	3%			₹	261.94
	Total					₹	8,993.13
	Add for Water charges:	@	1.0%			₹	89.93
						₹	9,083.06
	Add GST (multiplying factor)		0.1405			₹	1,276.17
						₹	10,359.23
	Add 15% for contractor's profit and overheads	@	15%			₹	1,553.88
						₹	11,913.11
	Add cess	@	1%			₹	119.13
					Total	₹	12,032.24
	Total cost for 1 Sqm		1			₹	1,203.22
					Say,	₹	1,203.20

6.13.3 In cement mortar 1:4 (1 cement : 4 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	520	₹	10,480.00	₹	5,449.60
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.280	₹	3,259.11	₹	912.55
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	520	₹	307.42	₹	159.86
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	395.00	₹	237.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
						₹	8,104.91
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	4.2%	on	₹	8,104.91	₹	340.41
	Total					₹	8,507.32
	Add for sundries & contingencies	@	3%			₹	255.22
	Total					₹	8,762.54
	Add for Water charges:	@	1.0%		<u> </u>	₹	87.63
						₹	8,850.17
	Add GST (multiplying factor)		0.1405			₹	1,243.45

				₹	10,093.62
Add 15% for contractor's profit and overheads	@	15%		₹	1,514.04
				₹	11,607.66
Add cess	@	1%		₹	116.08
			Total	₹	11,723.74
Total cost for 1 Sqm				₹	1,172.37
			Say,	₹	1,172.40

6.13.4 In cement mortar 1:5 (1 cement : 5 fine sand).

0.13.4	in cement mortal 1:5 (i cement : 5 fine sand).		1	1					
Code	Description	Unit	Quantity		Rate		Amount		
	Details of cost for 10 Sqm.	Sqm.							
	a. Materials:								
06002	2nd class bricks.	1000 Nos	520	₹	10,480.00	₹	5,449.60		
	Cement mortar 1:5 (Rate as per item No. 3.1.5)	Cum	0.280	₹	2,845.94	₹	796.86		
	b. Carriage:								
0406	2nd class bricks.	1000 Nos	520	₹	307.42	₹	159.86		
	c. Labours:								
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00		
0220	Mason (brick layer) 2nd class	Day	0.60	₹	395.00	₹	237.00		
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90		
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00		
						₹	7,989.22		
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	4.2%	on	₹	7,989.22	₹	335.55		
	Total					₹	8,386.77		
	Add for sundries & contingencies	@	3%			₹	251.60		
	Total					₹	8,638.37		
	Add for Water charges:	@	1.0%			₹	86.38		
						₹	8,724.75		
	Add GST (multiplying factor)		0.1405			₹	1,225.83		
						₹	9,950.58		
	Add 15% for contractor's profit and overheads	@	15%			₹	1,492.59		
						₹	11,443.17		
	Add cess	@	1%			₹	114.43		
					Total	₹	11,557.60		
	Total cost for 1 Sqm		1			₹	1,155.76		
					Say,	₹	1,155.80		

6.14 Extra for half brick masonry work in superstructure above floor-V level for each four floors or part thereof by mechanical means by lifting material using mobile crane as required complete.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 42.40 Sqm per four floors .[For both 1st class and 2nd class bricks with all mortars]	Sqm.					
	a. T&P:						
0121	Mobile crane (hire)	Day	0.125	₹	7,800.00	₹	975.00
01001	Fuel consumption per hour = 8 litre. Diesel oil	Ltr.	8.000	₹	68.75	₹	550.00
	b. Carriage: Fuel	LS	5.000	₹	1.00	₹	5.00
						₹	1,530.00
	d. Scaffolding, lifts, challis etc.: @ 4.20% on total.	@	4%			₹	64.26
	Total					₹	1,599.26
	Add for sundries & contingencies	@	3%			₹	47.98
	Total					₹	1,647.24
	Add for Water charges:	@	1.0%			₹	16.47
						₹	1,663.71

Add GST (multiplying factor)		0.1405		₹	233.75
				₹	1,897.46
Add 15% for contractor's profit and overheads	@	15%		₹	284.62
				₹	2,182.08
Add cess	@	1%		₹	21.82
			Total	₹	2,203.90
Total cost for 1 Sqm				₹	51.98
			Say,	₹	52.00

6.15 1st class brick work 75mm thick in superstructure upto floor five level including cost of all materials as required complete:-

In cement mortar 1:3 (1 cement: 3 fine sand).

Codo	Description	l lm:+	Ougatitu		Data		Λ 100 0 1 110 t
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06001	1st class bricks.	1000 Nos	312	₹	12,450.00	₹	3,884.40
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.181	₹	4,026.43	₹	728.78
	b. Carriage:						
0406	1st class bricks.	1000 Nos	312	₹	307.42	₹	95.92
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.72	₹	440.00	₹	316.80
0220	Mason (brick layer) 2nd class	Day	0.72	₹	395.00	₹	284.40
0212	Coolie	Day	3.05	₹	310.00	₹	945.50
0205	Bhisti/ Waterman	Day	0.36	₹	310.00	₹	111.60
						₹	6,367.40
	Add for sundries & contingencies	@	3%			₹	191.02
	Total					₹	6,558.42
	Add for Water charges:	@	1.0%			₹	65.58
						₹	6,624.00
	Add GST (multiplying factor)		0.1405			₹	930.67
						₹	7,554.67
	Add 15% for contractor's profit and overheads	@	15%			₹	1,133.20
						₹	8,687.87
	Add cess	@	1%			₹	86.88
					Total	₹	8,774.75
	Total cost for 1 Sqm					₹	877.48
					Say,	₹	877.50

6.16 2nd class brick masonry work 75mm thick in superstructure upto floor five level including cost of all materials as required complete:-

6.16.1 In cement mortar 1:3 (1 cement: 3 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials:						
06002	2nd class bricks.	1000 Nos	312	₹	10,480.00	₹	3,269.76
	Cement mortar 1:3 (Rate as per item No. 3.1.4)	Cum	0.181	₹	4,026.43	₹	728.78
	b. Carriage:						
0406	2nd class bricks.	1000 Nos	312	₹	307.42	₹	95.92
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.72	₹	440.00	₹	316.80
0220	Mason (brick layer) 2nd class	Day	0.72	₹	395.00	₹	284.40
0212	Coolie	Day	3.05	₹	310.00	₹	945.50
0205	Bhisti/ Waterman	Day	0.36	₹	310.00	₹	111.60
						₹	5,752.76
	Add for sundries & contingencies	@	3%			₹	172.58
	Total					₹	5,925.34
	Add for Water charges:	@	1.0%			₹	59.25

				₹	5,984.59
Add GST (multiplying factor)		0.1405		₹	840.84
				₹	6,825.43
Add 15% for contractor's profit and overheads	@	15%		₹	1,023.81
				₹	7,849.24
Add cess	@	1%		₹	78.49
			Total	₹	7,927.73
Total cost for 1 Sqm				₹	792.77
			Say,	₹	792.80

6.17 Extra for 75mm thick brick masonry work in superstructure above floor-V level for each four floors or part thereof by mechanical means by lifting material using mobile crane etc. as required complete.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 69.75Sqm per four floors .[For both 1st class and 2nd class bricks with all mortars]	Sqm.				
	a. Materials and T&P:					
0121	Mobile crane (hire)	Day	0.125	₹ 7,800.00	₹	975.00
01001	Fuel consumption per hour = 8 litre. Diesel oil	Ltr.	8.000	₹ 68.75	₹	550.00
	b. Carriage: Fuel	LS	5.000	₹ 1.00	₹	5.00
					₹	1,530.00
	Add for sundries & contingencies	@	3%		₹	45.90
	Total				₹	1,575.90
	Add for Water charges:	@	1.0%		₹	15.76
					₹	1,591.66
	Add GST (multiplying factor)		0.1405		₹	223.63
					₹	1,815.29
	Add 15% for contractor's profit and overheads	@	15%		₹	272.29
					₹	2,087.58
	Add cess	@	1%		₹	20.88
				Total	₹	2,108.46
	Total cost for 1 Sqm				₹	30.23
				Say,	₹	30.20

- 6.18 Extra for providing & placing in position 2 nos 6mm dia MS bars at every 6th course of full brick masonry work including anchorage in joints of 75mm in each side in superstructure for all level including cost of all materials as required complete:-
- 6.18.1 In cement mortar 1:2 (1 cement: 2 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 3 cum.	Cum.					
	a. Materials:						
05038	2 nos 6mm dia. reinf.= 2x5.8 Kg. =11.60 Kg.	QtI.	0.116	₹	4,725.00	₹	548.10
	Cement mortar (extra) 1:2	Cum	0.200	₹	5,067.95	₹	1,013.59
	b. Carriage:						
0468	2 nos 6mm dia. reinf.=2x5.8 Kg. =11.60 Kg.	Tonne	0.01160	₹	102.47	₹	1.19
	c. Labours (extra):						
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.10	₹	310.00	₹	31.00
						₹	1,640.98
	Add for sundries & contingencies	@	3%			₹	49.23
	Total					₹	1,690.21
	Add for Water charges:	@	1.0%			₹	16.90
						₹	1,707.11
	Add GST (multiplying factor)		0.1405			₹	239.85
						₹	1,946.96
	Add 15% for contractor's profit and overheads	@	15%			₹	292.04

				₹	2,239.00
Add cess	@	1%		₹	22.39
			Total	₹	2,261.39
Total cost for 1 Cum				₹	753.80
			Say,	₹	753.80

6.18.2 In cement mortar 1:3 (1 cement : 3 fine sand).

Code	Description	Unit	Quantity		Rate	1	Amount
	Details of cost for 3 cum.	Cum.					
	a. Materials:						
05038	2 nos 6mm dia. reinf.= 2x5.8 Kg. =11.60 Kg.	QtI.	0.116	₹	4,725.00	₹	548.10
	Cement mortar (extra) 1:3	Cum	0.200	₹	4,026.43	₹	805.29
	b. Carriage:						
0468	2 nos 6mm dia. reinf.=2x5.8 Kg. =11.60 Kg.	Tonne	0.01160	₹	102.47	₹	1.19
	c. Labours (extra):						
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.10	₹	310.00	₹	31.00
						₹	1,432.68
	Add for sundries & contingencies	@	3%			₹	42.98
	Total					₹	1,475.66
	Add for Water charges:	@	1.0%			₹	14.76
						₹	1,490.42
	Add GST (multiplying factor)		0.1405			₹	209.40
						₹	1,699.82
	Add 15% for contractor's profit and overheads	@	15%			₹	254.97
						₹	1,954.79
	Add cess	@	1%			₹	19.55
					Total	₹	1,974.34
	Total cost for 1 Cum	· ·				₹	658.11
					Say,	₹	658.10

6.18.3 In cement mortar 1:4 (1 cement : 4 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 3 cum.	Cum.					
	a. Materials:						
05038	2 nos 6mm dia. reinf.= 2x5.8 Kg. =11.60 Kg.	QtI.	0.116	₹	4,725.00	₹	548.10
	Cement mortar (extra) 1:4	Cum	0.200	₹	3,259.11	₹	651.82
	b. Carriage:						
0468	2 nos 6mm dia. reinf.=2x5.8 Kg. =11.60 Kg.	Tonne	0.01160	₹	102.47	₹	1.19
	c. Labours (extra):						
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.10	₹	310.00	₹	31.00
						₹	1,279.21
	Add for sundries & contingencies	@	3%			₹	38.38
	Total					₹	1,317.59
	Add for Water charges:	@	1.0%			₹	13.18
						₹	1,330.77
	Add GST (multiplying factor)		0.1405			₹	186.97
						₹	1,517.74
	Add 15% for contractor's profit and overheads	@	15%			₹	227.66
						₹	1,745.40
	Add cess	@	1%			₹	17.45
					Total	₹	1,762.85
	Total cost for 1 Cum					₹	587.62
					Say,	₹	587.60

6.18.4 In cement mortar 1:5 (1 cement: 5 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 3 cum.	Cum.					
	a. Materials:						
05038	2 nos 6mm dia. reinf.= 2x5.8 Kg. =11.60 Kg.	QtI.	0.1160	₹	4,725.00	₹	548.10
	Cement mortar (extra) 1:5	Cum	0.200	₹	2,845.94	₹	569.19
	b. Carriage:						
0468	2 nos 6mm dia. reinf.=2x5.8 Kg. =11.60 Kg.	Tonne	0.01160	₹	102.47	₹	1.19
	c. Labours (extra):						
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.10	₹	310.00	₹	31.00
						₹	1,196.58
	Add for sundries & contingencies	@	3%			₹	35.90
	Total					₹	1,232.48
	Add for Water charges:	@	1.0%			₹	12.32
						₹	1,244.80
	Add GST (multiplying factor)		0.1405			₹	174.89
						₹	1,419.69
	Add 15% for contractor's profit and overheads	@	15%			₹	212.95
						₹	1,632.64
	Add cess	@	1%			₹	16.33
					Total	₹	1,648.97
	Total cost for 1 Cum					₹	549.66
					Say,	₹	549.70

6.18.5 In cement mortar 1:6 (1 cement : 6 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
Oodc	Details of cost for 3 cum.	Cum.	Quaritity		Nate	-	rinoant
	a. Materials:	Cuiii.					
05038	2 nos 6mm dia. reinf.= 2x5.8 Kg. =11.60 Kg.	QtI.	0.1160	₹	4,725.00	₹	548.10
03036	Cement mortar (extra) 1:6	Cum	0.1100	₹	2,491.79	₹	498.36
	· /	Culli	0.2000	<	2,491.79	<	490.30
04/0	b. Carriage:	Tonno	0.011/0	x	100.47	x	1 10
0468	2 nos 6mm dia. reinf.=2x5.8 Kg. =11.60 Kg.	Tonne	0.01160	₹	102.47	₹	1.19
0010	c. Labours (extra):		0.10	_	110.00	_	11.00
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.10	₹	310.00	₹	31.00
						₹	1,125.75
	Add for sundries & contingencies	@	3%			₹	33.77
	Total					₹	1,159.52
	Add for Water charges:	@	1.0%			₹	11.60
						₹	1,171.12
	Add GST (multiplying factor)		0.1405			₹	164.54
						₹	1,335.66
	Add 15% for contractor's profit and overheads	@	15%			₹	200.35
	,					₹	1,536.01
	Add cess	@	1%			₹	15.36
		1			Total	₹	1,551.37
	Total cost for 1 Cum					₹	517.12
					Say,	₹	517.10

6.19 Extra for providing & placing in position 2 nos 6mm dia MS bars at every 4th course of half brick masonry work including anchorage in joints of 75mm in each side in superstructure for all level including cost of all materials as required complete:-

6.19.1 In cement mortar 1:2 (1 cement : 2 fine sand).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.	Sqm.			

	a. Materials:						
05038	2 nos 6mm dia. reinf.	QtI.	0.14520	₹	4,725.00	₹	686.07
	Cement mortar (extra) 1:2	Cum	0.200	₹	5,067.95	₹	1,013.59
	b. Carriage:						
0468	2 nos 6mm dia. reinf.= 14.52 Kg.	Tonne	0.01452	₹	102.47	₹	1.49
	c. Labours (extra):						
0219	Mason 1st Class	Day	0.12	₹	440.00	₹	52.80
0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.12	₹	310.00	₹	37.20
						₹	1,794.25
	Add for sundries & contingencies	@	3%			₹	53.83
	Total					₹	1,848.08
	Add for Water charges:	@	1.0%			₹	18.48
						₹	1,866.56
	Add GST (multiplying factor)		0.1405			₹	262.25
						₹	2,128.81
	Add 15% for contractor's profit and overheads	@	15%			₹	319.32
						₹	2,448.13
	Add cess	@	1%			₹	24.48
					Total	₹	2,472.61
	Total cost for 1 Sqm.					₹	247.26
					Say,	₹	247.30

6.19.2 In cement mortar 1:3 (1 cement : 3 fine sand).

Code	Description	Unit	Quantity		Rate	,	Amount
	Details of cost for 10 sqm.	Sqm.					
	a. Materials:						
05038	2 nos 6mm dia. reinf.	QtI.	0.1452	₹	4,725.00	₹	686.07
	Cement mortar (extra) 1:3	Cum	0.200	₹	4,026.43	₹	805.29
	b. Carriage:						
0468	2 nos 6mm dia. reinf.= 14.52 Kg.	Tonne	0.01452	₹	102.47	₹	1.49
	c. Labours (extra):						
0219	Mason 1st Class	Day	0.12	₹	440.00	₹	52.80
0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.12	₹	310.00	₹	37.20
						₹	1,585.95
	Add for sundries & contingencies	@	3%			₹	47.58
	Total					₹	1,633.53
	Add for Water charges:	@	1.0%			₹	16.34
						₹	1,649.87
	Add GST (multiplying factor)		0.1405			₹	231.81
						₹	1,881.68
	Add 15% for contractor's profit and overheads	@	15%			₹	282.25
						₹	2,163.93
	Add cess	@	1%			₹	21.64
					Total	₹	2,185.57
	Total cost for 1 Sqm.					₹	218.56
					Say,	₹	218.60

6.19.3 In cement mortar 1:4 (1 cement : 4 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sqm.	Sqm.					
	a. Materials:						
05038	2 nos 6mm dia. reinf.	QtI.	0.1452	₹	4,725.00	₹	686.07
	Cement mortar (extra) 1:4	Cum	0.200	₹	3,259.11	₹	651.82
	b. Carriage:						
0468	2 nos 6mm dia. reinf.= 14.52 Kg.	Tonne	0.01452	₹	102.47	₹	1.49
	c. Labours (extra):						
0219	Mason 1st Class	Day	0.12	₹	440.00	₹	52.80

0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.12		310.00	₹	37.20
						₹	1,432.48
	Add for sundries & contingencies	@	3%			₹	42.97
	Total					₹	1,475.45
	Add for Water charges:	@	1.0%			₹	14.75
						₹	1,490.20
	Add GST (multiplying factor)		0.1405			₹	209.37
						₹	1,699.57
	Add 15% for contractor's profit and overheads	@	15%			₹	254.94
						₹	1,954.51
	Add cess	@	1%			₹	19.55
				To	tal	₹	1,974.06
	Total cost for 1 Sqm.	•				₹	197.41
				Sa	ay,	₹	197.40

6.19.4 In cement mortar 1:5(1 cement: 5 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sqm.	Sqm.					
	a. Materials:						
05038	2 nos 6mm dia. reinf.	QtI.	0.1452	₹	4,725.00	₹	686.07
	Cement mortar (extra) 1:5	Cum	0.200	₹	2,845.94	₹	569.19
	b. Carriage:						
0468	2 nos 6mm dia. reinf.= 14.52 Kg.	Tonne	0.01452	₹	102.47	₹	1.49
	c. Labours (extra):						
0219	Mason 1st Class	Day	0.12	₹	440.00	₹	52.80
0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.12	₹	310.00	₹	37.20
						₹	1,349.85
	Add for sundries & contingencies	@	3%			₹	40.50
	Total					₹	1,390.35
	Add for Water charges:	@	1.0%			₹	13.90
						₹	1,404.25
	Add GST (multiplying factor)		0.1405			₹	197.30
						₹	1,601.55
	Add 15% for contractor's profit and overheads	@	15%			₹	240.23
						₹	1,841.78
	Add cess	@	1%			₹	18.42
					Total	₹	1,860.20
	Total cost for 1 Sqm.					₹	186.02
					Say,	₹	186.00

6.19.5 In cement mortar 1:6 (1 cement : 6 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sqm.	Sqm.					
	a. Materials:						
05038	2 nos 6mm dia. reinf.	QtI.	0.1452	₹	4,725.00	₹	686.07
	Cement mortar (extra) 1:6	Cum	0.200	₹	2,491.79	₹	498.36
	b. Carriage:						
0468	2 nos 6mm dia. reinf.= 14.52 Kg.	Tonne	0.01452	₹	102.47	₹	1.49
	c. Labours (extra):						
0219	Mason 1st Class	Day	0.12	₹	440.00	₹	52.80
0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.12	₹	310.00	₹	37.20
						₹	1,279.02
	Add for sundries & contingencies	@	3%			₹	38.37
	Total					₹	1,317.39
	Add for Water charges:	@	1.0%			₹	13.17
						₹	1,330.56

Add GST (multiplying factor)		0.1405		₹	186.94
				₹	1,517.50
Add 15% for contractor's profit and overheads	@	15%		₹	227.63
				₹	1,745.13
Add cess	@	1%		₹	17.45
			Total	₹	1,762.58
Total cost for 1 Sqm.				₹	176.26
			Say,	₹	176.30

- 6.20 Extra for providing & placing in position 2 nos 6mm dia reinforcement at every 3rd course of 75mm thick brick masonry work including anchorage in joints of 75mm in each side in superstructure for all level including cost of all materials as required complete:-
- 6.20.1 In cement mortar 1:3 (1 cement: 3 fine sand).

0.20.1	The certain the tail 1.6 (I certain the saile).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sqm.	Sqm.					
	a. Materials:						
05038	2 nos 6mm dia. reinf.	QtI.	0.1900	₹	4,725.00	₹	897.75
	Cement mortar (extra) 1:3	Cum	0.160	₹	4,026.43	₹	644.23
	b. Carriage:						
0468	2 nos 6mm dia. reinf.= 12.76 Kg.	Tonne	0.0190	₹	102.47	₹	1.95
	c. Labours (extra):						
0219	Mason 1st Class	Day	0.09	₹	440.00	₹	39.60
0220	Mate	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.09	₹	310.00	₹	27.90
						₹	1,614.53
	Add for sundries & contingencies	@	3%			₹	48.44
	Total					₹	1,662.97
	Add for Water charges:	@	1.0%			₹	16.63
						₹	1,679.60
	Add GST (multiplying factor)		0.1405			₹	235.98
						₹	1,915.58
	Add 15% for contractor's profit and overheads	@	15%			₹	287.34
						₹	2,202.92
	Add cess	@	1%			₹	22.03
					Total	₹	2,224.95
	Total cost for 1 Sqm.					₹	222.49
					Say,	₹	222.50

6.21 Extra for laying brick work in or under water and/ or liquid mud including cost of pumping and/ or boiling out water and removing slush etc. as required complete.

Code	Description	Unit	Quantity		Rate	,	Amount
	Details of cost for depth of water = 0.30Mtr. & Quantity of concrete = 14 Cum.	Cum per Mtr.depth					
	Pumping hours = 3 hrs. or 0.375 working day.						
0117	a. Machinary : Hire charge of pump set of capacity 4000 ltr/hr.	Day	0.375	₹	720.00	₹	270.00
0203	b. Labour: Beldar (for cleaning slush)	Day	4.00	₹	310.00	₹	1,240.00
						₹	1,510.00
	Add for sundries & contingencies	@	3%			₹	45.30
	Total					₹	1,555.30
	Add for Water charges:	@	1.0%			₹	15.55
						₹	1,570.85
	Add GST (multiplying factor)		0.1405			₹	220.70
						₹	1,791.55
	Add 15% for contractor's profit and overheads	@	15%			₹	268.73
						₹	2,060.28
	Add cess	@	1%			₹	20.60

	[Cost of	14 cum.	Total	₹	2,080.88
	Cost of 1 C	ltr. depth	₹	495.45	
			Say,	₹	495.50

Note:- The quantity will be calculated by multiplying the depth of the bottom of concrete below sub-soil water level with quantity of concrete in Cum. for the same depth. In case of varying depth (of bottom of concrete) respective depth shall be multiplied with corresponding quantities of concrete.

6.22 Extra for forming cavity 50mm to 75mm wide in cavity walls with necessary weep and vent holes in superstructure for all level including use of cores and cost of providing and fixing bitumastic coated M .S. ties 300mm long of 25x3mm section at not less than 4 ties per sqm as per approved design & as required complete.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10sqm. [Area of one of the two leaves of the cavity wall]	Sqm.					
	a. Materials :						
05026	Mild steel 25mm x 3mm section 300mm long 30nos. [Total 9 metres @ 0.6kg/m = 5.4 kg]	Quintal	0.054	₹	4,725.00	₹	255.15
	Painting the steel Bitumen	L.S	18.00	₹	1.00	₹	18.00
	Add for use of Core	L.S	6.00	₹	1.00	₹	6.00
	b. Carriage:						
0468	Mild steel	Tonne	0.0054	₹	102.47	₹	0.55
	c. Labours: [Extra labour for keeping cavity clear and fixing wall ties and delay caused:]						
0219	Mason 1st class	Day	0.37	₹	440.00	₹	162.80
0220	Mason 2nd Class	Day	0.37	₹	395.00	₹	146.15
0203	Beldar	Day	0.92	₹	310.00	₹	285.20
						₹	873.85
	Add for sundries & contingencies	@	3%			₹	26.22
	Total					₹	900.07
	Add for Water charges:	@	1.0%			₹	9.00
						₹	909.07
	Add GST (multiplying factor)		0.1405			₹	127.72
						₹	1,036.79
	Add 15% for contractor's profit and overheads	@	15%			₹	155.52
						₹	1,192.31
	Add cess	@	1%			₹	11.92
			10 sqm.		Total	₹	1,204.23
		Cost of	1 sqm.		=	₹	120.42
					Say,	₹	120.40

Note: Cavity walls shall not normally be built more than 7.5 metre in height and 9 metre in length. Where large lengths and heights are desired, the wall shall be divided into panels with strengthening measures such as pillars etc. Cavity shall be covered at the top with at least two courses of masonry unit and/or a coping over it. Metal ties/bonding units shall be spaced not more than 900 mm apart horizontally and 450 mm vertically and staggered in each course. Additional ties shall be used near openings. Otherwise, RCC (preferably precast) units shall be provided with 2 no. 6 mm mild steel reinforcement bars tied with 2 no. 3 mm. dia. M.S. wire/hard drawn wire cross bars placed in the centre of units where cement concrete used shall not be leaner than 1:3:6 (1 cement : 3 fine sand : 6 graded stone aggregate 20 mm nominal size).

6.23 Providing half brick masonry with 1st class bricks in cement mortar 1:3 (1 cement : 3 fine sand) in superstructure for all level for closing cavity 50 to 75 mm wide in cavity wall complete with 100mm / 114mm wide bitumen felt type 3 grade 1 as per approved design & as required complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10m.	Mtr.			
	a. Materials :				

	Half brick masonry 1:3 [(average) 1 x 10 x 0.29 = 2.9 Sqm.] Rate as per item No.6.12.1 ['A']	Sqm	2.90	₹	1,419.90	₹	4,117.71
06003	Bitumen felt type- 3 grade 1 [I/c wastage & overlaping : I x I0m x 0.114m x 1.05 =1.14 sqm.x1.05 = 1.20 sqm.]	Sqm	1.20	₹	73.00	₹	87.60
	b. Carriage:						
0472	Bitumen felt type- 3 grade 1 = 1.20 sqm.]	Tonne	0.0054	₹	102.47	₹	0.55
	c. Labour:						
0219	Mason 1st class	Day	0.12	₹	440.00	₹	52.80
0220	Mason 2nd class	Day	0.12	₹	395.00	₹	47.40
0203	Beldar	Day	0.06	₹	310.00	₹	18.60
						₹	4,324.66
	Add for sundries & contingencies [excluding A]	@	3%			₹	6.21
	Total					₹	4,330.87
	Add for Water charges: [excluding A]	@	1.0%			₹	2.13
						₹	4,333.00
	Add GST (multiplying factor) [excluding A]		0.1405			₹	30.25
						₹	4,363.25
	Add 15% for contractor's profit and overheads [excluding A]	@	15%			₹	36.83
						₹	4,400.08
	Add cess [excluding A]	@	1%			₹	2.82
					Total	₹	4,402.90
	Cost of 1 m.				=	₹	440.29
					Say,	₹	440.30

6.24 Honey comb brick work of half brick thickness with first class bricks in superstructure for all level including cost of all materials as required complete:-

6.24.1 In cement mortar 1:2 (1 cement : 2 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials etc.:						
06001	1st class bricks.	1000 Nos	347	₹	12,450.00	₹	4,320.15
	Cement mortar 1:2 (Rate as per item No. 3.1.2)	Cum	0.190	₹	5,067.95	₹	962.91
	b. Carriage:						
0406	1st class bricks.	1000 Nos	347	₹	307.42	₹	106.67
	c. Labours (extra):						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	440.00	₹	264.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Extra for delay due to fine work LS					₹	40.00
				То	tal	₹	7,039.63
	d. Scaffolding etc @ 04.29% on total.	4.29%	on	₹	7,039.63	₹	302.00
						₹	7,341.63
	Add for sundries & contingencies	@	3%			₹	220.25
	Total					₹	7,561.88
	Add for Water charges:	@	1.0%			₹	75.62
						₹	7,637.50
	Add GST (multiplying factor)		0.1405			₹	1,073.07
						₹	8,710.57
	Add 15% for contractor's profit and overheads	@	15%			₹	1,306.59
	·					₹	10,017.16
	Add cess	@	1%			₹	100.17
					Total	₹	10,117.33
	Total cost for 1 Sqm		•			₹	1,011.73
					Say,	₹	1,011.70

6.24.2 In cement mortar 1:3 (1 cement : 3 fine sand).

6.24.2	in cement mortar 1:3 () cement : 3 fine sand).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials etc.:						
06001	1st class bricks.	1000 Nos	347	₹	12,450.00	₹	4,320.15
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.190	₹	4,026.43	₹	765.02
	b. Carriage:						
0406	1st class bricks.	1000 Nos	347	₹	307.42	₹	106.67
	c. Labours (extra):						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	440.00	₹	264.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Extra for delay due to fine work LS					₹	40.00
						₹	6,841.74
	d. Scaffolding etc @ 04.29% on total.	4.29%	on	₹	6,841.74	₹	293.51
						₹	7,135.25
	Add for sundries & contingencies	@	3%			₹	214.06
	Total					₹	7,349.31
	Add for Water charges:	@	1.0%			₹	73.49
						₹	7,422.80
	Add GST (multiplying factor)		0.1405			₹	1,042.90
						₹	8,465.70
	Add 15% for contractor's profit and overheads	@	15%			₹	1,269.85
						₹	9,735.55
	Add cess	@	1%			₹	97.36
					Total	₹	9,832.91
	Total cost for 1 Sqm	1	1			₹	983.29
					Say,	₹	983.30

6.24.3 In cement mortar 1:4 (1 cement: 4 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.	_				
	a. Materials etc.:	·					
06001	1st class bricks.	1000 Nos	347	₹	12,450.00	₹	4,320.15
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.190	₹	3,259.11	₹	619.23
	b. Carriage:						
0406	1st class bricks.	1000 Nos	347	₹	307.42	₹	106.67
	c. Labours (extra):						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	440.00	₹	264.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Extra for delay due to fine work LS					₹	40.00
						₹	6,695.95
	d. Scaffolding etc @ 4.29% on total.	4.29%	on	₹	6,695.95	₹	287.26
						₹	6,983.21
	Add for sundries & contingencies	@	3%			₹	209.50
	Total					₹	7,192.71
	Add for Water charges:	@	1.0%			₹	71.93
						₹	7,264.64
	Add GST (multiplying factor)		0.1405			₹	1,020.68
						₹	8,285.32
	Add 15% for contractor's profit and overheads	@	15%			₹	1,242.80
						₹	9,528.12
	Add cess	@	1%			₹	95.28
					Total	₹	9,623.40
	Total cost for 1 Sqm		1			₹	962.34
					Say,	₹	962.30

6.24.4 In cement mortar 1:5 (1 cement: 5 fine sand).

0.24.4	in cement mortar 1.5 (i cement . 5 inte sand).	1				ī	
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Sqm.	Sqm.					
	a. Materials etc.:						
06001	1st class bricks.	1000 Nos	347	₹	12,450.00	₹	4,320.15
	Cement mortar 1:5 (Rate as per item No. 3.1.5)	Cum	0.190	₹	2,845.94	₹	540.73
	b. Carriage:						
0406	1st class bricks.	1000 Nos	347	₹	307.42	₹	106.67
	c. Labours (extra):						
0219	Mason (brick layer) 1st class	Day	0.60	₹	440.00	₹	264.00
0220	Mason (brick layer) 2nd class	Day	0.60	₹	440.00	₹	264.00
0212	Coolie	Day	3.29	₹	310.00	₹	1,019.90
0205	Bhisti/ Waterman	Day	0.20	₹	310.00	₹	62.00
	Extra for delay due to fine work LS					₹	40.00
						₹	6,617.45
	d. Scaffolding etc @ 4.29% on total.	4.29%	on	₹	6,617.45	₹	283.89
						₹	6,901.34
	d. Scaffolding etc @ 0.55% on total.	0.55%	on	₹	6,901.34	₹	37.96
						₹	6,939.30
	Add for sundries & contingencies	@	3%			₹	208.18
	Total					₹	7,147.48
	Add for Water charges:	@	1.0%			₹	71.47
						₹	7,218.95
	Add GST (multiplying factor)		0.1405			₹	1,014.26
						₹	8,233.21
	Add 15% for contractor's profit and overheads	@	15%			₹	1,234.98
						₹	9,468.19
	Add cess	@	1%			₹	94.68

		Total	₹	9,562.87
Total cost for 1 Sqm			₹	956.29
		Say,	₹	956.30

6.25 Moulding and cornices with first class brick masonry, girth to be measured in centimetre and length in metre in superstructure for all level including cost of all materials as required complete:-

6.25.1 In cement mortar 1:2 (1 cement: 2 fine sand).

0.25.1	in cement mortal 1.2 (i cement . 2 mile sand).	1				
Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 10 Mtr length & 62 Cm girth	Mtr / Cm				
	a. Materials, carriage etc.:					
	1st class B.W. in C.M.1:2 in super structure item Rate as per item No. ['A']	Cum	0.560	₹ 10,737.40	₹	6,012.94
	b. Labours (extra & i/c 1/6 th day efficiency) :					
0219	Mason 1st Class	Day	1.85	₹ 440.00	₹	814.00
0220	Mason 2nd Class	Day	0.15	₹ 395.00	₹	59.25
0224	Mate	Day	0.15	₹ 310.00	₹	46.50
0203	Belder(Male)	Day	1.85	₹ 310.00	₹	573.50
					₹	1,493.25
	c. Scaffolding etc @ 2% on total ex/c "A".	2.00%	on	₹ 1,493.25	₹	29.87
					₹	7,536.06
	Add for sundries & contingencies [excluding A]	@	3%		₹	45.69
	Total				₹	7,581.75
	Add for Water charges: [excluding A]	@	1.0%		₹	15.69
					₹	7,597.44
	Add GST (multiplying factor) [excluding A]		0.1405		₹	222.62
					₹	7,820.06
	Add 15% for contractor's profit and overheads [excluding A]	@	15%		₹	271.07
					₹	8,091.13
	Add cess [excluding A]	@	1%		₹	20.78
				Total	₹	8,111.91
	Total cost for 1 Mtr/ Cm				₹	13.08
				Say,	₹	13.10

6.25.2 In cement mortar 1:3 (1 cement: 3 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Mtr length & 62 Cm girth	Mtr / Cm					
	a. Materials, carriage etc.:						
	1st class B.W. in C.M.1:3 in super structure Rate as per item No. ['A']	Cum	0.560	₹	10,363.50	₹	5,803.56
	b. Labours (extra & i/c 1/6 th day efficiency):						
0219	Mason 1st Class	Day	1.85	₹	440.00	₹	814.00
0220	Mason 2nd Class	Day	0.15	₹	395.00	₹	59.25
0224	Mate	Day	0.15	₹	310.00	₹	46.50
0203	Belder(Male)	Day	1.85	₹	310.00	₹	573.50
						₹	1,493.25
	c. Scaffolding etc @ 2% on total ex/c "A".	2.00%	on	₹	1,493.25	₹	29.87
						₹	7,326.68
	Add for sundries & contingencies [excluding A]	@	3%			₹	45.69
	Total					₹	7,372.37
	Add for Water charges: [excluding A]	@	1.0%			₹	15.69
						₹	7,388.06
	Add GST (multiplying factor) [excluding A]		0.1405			₹	222.62
					•	₹	7,610.68
	Add 15% for contractor's profit and overheads [excluding A]	@	15%			₹	271.07
						₹	7,881.75

Add cess [excluding A]	@	1%		₹	20.78
			Total	₹	7,902.53
Total cost for 1 Mtr/ Cm				₹	12.75
			Say,	₹	12.80

6.25.3 In cement mortar 1:4 (1 cement : 4 fine sand).

Code	Description	Unit	Quantity		Rate	,	Amount
	Details of cost for 10 Mtr length & 62 Cm girth	Mtr / Cm					
	a. Materials, carriage etc.:						
	1st class B.W. in C.M.1:4 in super structure Rate as per item No. ['A']	Cum	0.560	₹	10,136.49	₹	5,676.43
	b. Labours (extra & i/c 1/6 th day efficiency):						
0219	Mason 1st Class	Day	1.85	₹	440.00	₹	814.00
0220	Mason 2nd Class	Day	0.15	₹	395.00	₹	59.25
0224	Mate	Day	0.15	₹	310.00	₹	46.50
0203	Belder(Male)	Day	1.85	₹	310.00	₹	573.50
						₹	1,493.25
	c. Scaffolding etc @ 2% on total ex/c "A".	2.00%	on	₹	1,493.25	₹	29.87
						₹	7,199.55
	Add for sundries & contingencies [excluding A]	@	3%			₹	45.69
	Total					₹	7,245.24
	Add for Water charges: [excluding A]	@	1.0%			₹	15.69
						₹	7,260.93
	Add GST (multiplying factor) [excluding A]		0.1405			₹	222.62
						₹	7,483.55
	Add 15% for contractor's profit and overheads [excluding A]	@	15%			₹	271.07
						₹	7,754.62
	Add cess [excluding A]	@	1%			₹	20.78
					Total	₹	7,775.40
	Total cost for 1 Mtr/ Cm					₹	12.54
					Say,	₹	12.50

6.25.4 In cement mortar 1:5 (1 cement: 5 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Mtr length & 62 Cm girth	Mtr / Cm					
	a. Materials, carriage etc.:						
	1st class B.W. in C.M.1:5 in super structure item "A"	Cum	0.560	₹	9,987.50	₹	5,593.00
	b. Labours (extra & i/c 1/6 th day efficiency):						
0219	Mason 1st Class	Day	1.85	₹	440.00	₹	814.00
0220	Mason 2nd Class	Day	0.15	₹	395.00	₹	59.25
0224	Mate	Day	0.15	₹	310.00	₹	46.50
0203	Belder(Male)	Day	1.85	₹	310.00	₹	573.50
	c. Scaffolding etc @ 2% on total ex/c "A".	2.00%	on	₹	1,493.25	₹	29.87
						₹	7,116.12
	Add for sundries & contingencies [excluding A]	@	3%			₹	45.69
	Total					₹	7,161.81
	Add for Water charges: [excluding A]	@	1.0%			₹	15.69
						₹	7,177.50
	Add GST (multiplying factor) [excluding A]		0.1405			₹	222.62
						₹	7,400.12
	Add 15% for contractor's profit and overheads [excluding A]	@	15%			₹	271.07
						₹	7,671.19
	Add cess [excluding A]	@	1%			₹	20.78
					Total	₹	7,691.97
	Total cost for 1 Mtr/ Cm					₹	12.41
					Say,	₹	12.40

6.26 Providing and laying gypsum panel partitions 100 mm thick with water proof gypsum panels / blocks of size 666 x 500 x 100 mm having minimum compressive strength of 9.3 kg / sq.cm., made of calcite phosphor gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturers specifications in super structure above plinth level upto floor five level including cost of all materials required complete.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sqm.	Sqm.					
	a. Materials:						
06004	Gypsum panel 666 X 500 X 100 mm size.	Sqm.	10.00	₹	620.00	₹	6,200.00
06005	Bonding plaster for gypsum panel.	Kg.	25.00	₹	52.00	₹	1,300.00
	b. Labours:						
0219	Mason 1st Class	Day	0.50	₹	440.00	₹	220.00
0203	Belder	Day	1.00	₹	310.00	₹	310.00
						₹	8,030.00
	Add for sundries & contingencies	@	3%			₹	240.90
	Total					₹	8,270.90
	Add for Water charges:	@	1.0%			₹	82.71
						₹	8,353.61
	Add GST (multiplying factor)		0.1405			₹	1,173.68
						₹	9,527.29
	Add 15% for contractor's profit and overheads	@	15%			₹	1,429.09
						₹	10,956.38
	Add cess	@	1%			₹	109.56
					Total	₹	11,065.94
	Total cost for 1 sqm.					₹	1,106.59
					Say,	₹	1,106.60

6.27 Extra for providing & laying gypsum panel partitions in superstructure above floor five level for every four floors or part thereof including cost of all materials required complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.	Sqm.			
	b. Labours: (Extra labour element for lifting of materials etc.)				
0212	Coolie	Day	1.73	₹ 310.00	₹ 536.30
					₹ 536.30
	Add for sundries & contingencies	@	3%		₹ 16.09
	Total				₹ 552.39
	Add for Water charges:	@	1.0%		₹ 5.52
					₹ 557.91
	Add GST (multiplying factor)		0.1405		₹ 78.39
					₹ 636.30
	Add 15% for contractor's profit and overheads	@	15%		₹ 95.44
					₹ 731.74
	Add cess	@	1%		₹ 7.32
				Total	₹ 739.06
	Total cost for 1 sqm.				₹ 73.91
				Say,	₹ 73.90

6.28 Providing and laying precast cement concrete solid blocks (Grey brick: conforming to IS 2185) masonary in boundary wall, retaining wall in cement mortar 1 : 4 (1 cement : 4 fine sand).

6.28.1 Size: 235 mm x 115 mm x 75 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06006	Cement concrete solid blocks	1000 Nos	517	₹	10,500.00	₹	5,428.50
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.150	₹	2,845.94	₹	426.89
	b. Carriage:						
0406	Bricks.	1000 Nos	517	₹	307.42	₹	158.94
	c. Labours:						
0219	Mason 1st Class	Day	0.40	₹	440.00	₹	176.00
0224	Mate	Day	0.06	₹	310.00	₹	18.60
0203	Belder	Day	0.50	₹	310.00	₹	155.00
0212	Coolie (female)	Day	0.50	₹	310.00	₹	155.00
0205	Waterman	Day	0.20	₹	310.00	₹	62.00
						₹	6,580.93
	Add for sundries & contingencies	@	3%			₹	197.43
	Total					₹	6,778.36
	Add for Water charges:	@	1.0%			₹	67.78
						₹	6,846.14
	Add GST (multiplying factor)		0.1405			₹	961.88
						₹	7,808.02
	Add 15% for contractor's profit and overheads	@	15%			₹	1,171.20
						₹	8,979.22
	Add cess	@	1%			₹	89.79
					Total	₹	9,069.01
	Total cost for 1 Cum				Say,	₹	9,069.00

6.29 Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all omplete as per direction of Engineer-in-Charge. (The payment of RCC band and einforcement shall be made for seperately).

Code	Description	Unit	Quantity		Rate	,	Amount
	Details of cost for 1 cum.	Cum.					
	a. Materials:						
06007	Autoclaved areated cement (AAC) blocks		1	₹	4,460.00	₹	4,460.00
06008	Polymer modified adhesive mortar	Kg	30.000	₹	15.00	₹	450.00
	b. Carriage:						
0406	Autoclaved areated cement (AAC) blocks	cum	1	₹	116.82	₹	116.82
	c. Labours:						
0219	Mason (brick layer) 1st class	Day	0.36	₹	440.00	₹	158.40
0220	Mason (brick layer) 2nd class	Day	0.36	₹	395.00	₹	142.20
0212	Coolie /Bhisti/ Waterman	Day	2.50	₹	310.00	₹	775.00
	Total					₹	6,102.42
	Add for sundries & contingencies	@	3%			₹	183.07
	Total					₹	6,285.49
	Add for Water charges:	@	1.0%			₹	62.85
						₹	6,348.34
	Add GST (multiplying factor)		0.1405			₹	891.94
						₹	7,240.28
	Add 15% for contractor's profit and overheads	@	15%			₹	1,086.04

SH:06/BRICK WORK

				₹	8,326.32
Add cess	@	1%		₹	83.26
			Total	₹	8,409.58
Total cost for 1 Cum			Say,	₹	8,409.60

SUB HEAD: 7.0 CLADDING WORK

- All marble stones shall be wetted before placing in position. These shall then be floated on mortar and bedded properly in position with wooden mallets without the use of chips or under pinning of any sort. Green work shall be protected from the effects of sun and rain by suitable covering.
- After the marble work is cured, it shall be rubbed with carborandum stone of different grades no. 60, 120 and 320 in succession or with electrical rubbing machines rubbed with carborandum items 0 to 6 nos.in succession, so as to give a plane true and highly smooth surface. It shall then be cleaned with a solution of oxalic acid, washed and finished clean.
- 3 All other specification for quality, sampling and tests etc. shall generally be as per chapter 8 of CPWD's specification.

7.1	Marble work gang saw cut (polished and mac (veneer work), backing filled with a grout of average sand) including pointing with white cement mortal admixture of pigment to match the marble shad cramps, which shall be paid for separately), including required:-	e 12 mm r 1:2 (1 le: (to b ling rub	thick ceme white ceme e secured bing, curing	ent mortar 1:3 (1 ent : 2 marble to the backing g etc. complete	cement : 3 fine dust) with an by means of at all levels as
7.1.1	18 mm thick Raj Nagar Plain white marble/ Udaipu duly approved:-	r green	marble/ Ze	bra black marb	le or equivalent
7.1.1.1	Area of slab upto 0.50 sqm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 0.50 sqm. Rajnagar plain white marble (polished and machine cut) etc.= 0.50 sqm.+20% for wastage 0.10 sqm.= 0.60sqm a. Materials:	Sqm.			
07006	Rajnagar plain white marble (polished and machine cut) etc. 18 mm thick upto 0.50 sqm	Sqm.	0.60	R700.00	R 420.00
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.008	R4026.43	R 32.21
	White cement mortar 1:2 (Rate as per item No. 3.4.1)	Cum	0.0012	R12362.22	R 14.83
	b. Carriage:				
0469	Rajnagar plain white marble (polished and machine cut) etc.18 mm thick upto 0.500sqm	Tonne	0.03	R102.47	R 3.07
0221	c. Labours: Stone Mason (ornamental)	Day	0.335	R500.00	R 167.50
0221	Bandhani	Day	0.335	R310.00	R 107.30
0203	Beldar	Day	0.335	R310.00	R 103.85
0212	Coolie	Day	0.335	R310.00	R 103.85
0205	Bhishti	Day	0.335	R310.00	R 103.85
0224	Mate	Day	0.165	R310.00	R 51.15
0206	Blacksmith 1st class	Day	0.135	R440.00	R 59.40
	Add for sundries (scaffolding etc.) and contingencies [Lumpsum]	@	3.00%	R1163.56	R 1163.56 R 34.91
					R 1198.47
	Add for water charges	@	1.00%	R1198.47	R 11.98
					R 1210.45
	Add GST (multiplying factor)		0.1405	R1210.45	R 170.07
					R 1380.52
	Add for contractor's profit and overheads	@	15.00%	R1380.52	R 207.08
	Add east	6	1.000/	R1587.60	R 1587.60 R 15.88
	Add cess	@	1.00%		
	Total cost for 1 Sqm.			Total	R 1603.48 R 3206.96
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7.1.1.2	Area of slab over 0.50 sqm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 sqm.	Sqm.			
	Rajnagar plain white marble (polished and machine	•			
	cut) etc.=1.00 sqm.+ 20 % for wastage 0.20 sqm.=				
	1.20sqm				
	a. Materials:				
07005	Rajnagar plain white marble (polished and machine cut) etc. 18 mm thick over 0.50sqm	Sqm.	1.20	R800.00	R 960.00
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.014	R4026.43	R 56.37
	White cement mortar 1:2 (Rate as per item No. 3.4.1)	Cum	0.0025	R12362.22	R 30.91
	b. Carriage:				
0469	Rajnagar plain white marble (polished and machine cut) etc. 18 mm thick over 0.50sqm	Tonne	0.06	R102.47	R 6.15
	c. Labours:				
0221	Stone Mason (ornamental)	Day	0.67	R500.00	R 335.00
0201	Bandhani	Day	0.67	R310.00	R 207.70
0203	Beldar	Day	0.67	R310.00	R 207.70
0212	Coolie	Day	0.67	R310.00	R 207.70
0205	Bhishti	Day	0.67	R310.00	R 207.70
0224	Mate	Day	0.33	R310.00	R 102.30
0206	Blacksmith 1st class	Day	0.27	R440.00	R 118.80
					R 2440.33
	Add for sundries (scaffolding etc.) and contingencies [Lumpsum]	@	3.00%	R2440.33	R 73.21
					R 2513.54
	Add for water charges	@	1.00%	R2513.54	R 25.14
					R 2538.68
	Add GST (multiplying factor)		0.1405	R2538.68	R 356.68
					R 2895.36
	Add for contractor's profit and overheads	@	15.00%	R2895.36	R 434.30
					R 3329.66
	Add cess	@	1.00%	R3329.66	R 33.30
	Total cost for 1 Sqm.			Total	R 3362.96
				Say,	R 3363.00

7.1.2	14 mm thick Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble or equivalent duly approved:-						
7.1.2.1	Area of slab upto 0.50 sqm.						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 0.50 sqm.	Sqm.					
	Rajnagar plain white marble (polished and machine cut) etc.= 0.50 sqm.+20% for wastage 0.10 sqm.= 0.60sqm						
	a. Materials:						
07013	Raj nagar plain white marble (table rubbed and polished) 14 mm thick upto 0.50 sqm	Sqm.	0.60	R550.00	R 330.00		
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.008	R4026.43	R 32.21		
	White cement mortar 1:2 (Rate as per item No. 3.4.1)	Cum	0.0012	R12362.22	R 14.83		
	b. Carriage:						
0469	Rajnagar plain white marble (polished and machine cut) etc.14 mm thick upto 0.500sqm	Tonne	0.03	R102.47	R 3.07		
	c. Labours:						
0221	Stone Mason (ornamental)	Day	0.335	R500.00	R 167.50		
0201	Bandhani	Day	0.335	R310.00	R 103.85		
0203	Beldar	Day	0.335	R310.00	R 103.85		
0212	Coolie	Day	0.335	R310.00	R 103.85		
0205	Bhishti	Day	0.335	R310.00	R 103.85		
0224	Mate	Day	0.165	R310.00	R 51.15		
0206	Blacksmith 1st class	Day	0.135	R440.00	R 59.40		

				R 1073.56
Add for sundries (scaffolding etc.) and contingencies [Lumpsum]	@	3.00%	R1073.56	R 32.21
				R 1105.77
Add for water charges	@	1.00%	R1105.77	R 11.06
				R 1116.83
Add GST (multiplying factor)		0.1405	R1116.83	R 156.91
				R 1273.74
Add for contractor's profit and overheads	@	15.00%	R1273.74	R 191.06
				R 1464.80
Add cess	@	1.00%	R1464.80	R 14.65
Total cost for 0.50 Sqm.			Total	R 1479.45
Total cost for 1 Sqm.				R 2958.90
		_	Say,	R 2958.90

7.1.2.2	Area of slab over 0.50 sqm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 sqm.	Sqm.			
	Rajnagar plain white marble (polished and machine				
	cut) etc.=1.00 sqm.+ 20 % for wastage 0.20 sqm.=				
	1.20sqm				
	a. Materials:				
07014	Raj nagar plain white marble (table rubbed and	Sqm.	1.20	R650.00	R 780.00
07014	polished) 14 mm thick above 0.50 sqm	oqiii.	1.20		K 760.00
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.0144	R4026.43	R 57.98
	White cement mortar 1:2 (Rate as per item No. 3.4.1)	Cum	0.0025	R12362.22	R 30.91
	b. Carriage:				
0469	Rajnagar plain white marble (polished and machine	Tonne	0.06	R102.47	R 6.15
0409	cut) etc. 14 mm thick over 0.50sqm	Torine	0.06	K102.47	K 0.15
	c. Labours:				
0221	Stone Mason (ornamental)	Day	0.67	R500.00	R 335.00
0201	Bandhani	Day	0.67	R310.00	R 207.70
0203	Beldar	Day	0.67	R310.00	R 207.70
0212	Coolie	Day	0.67	R310.00	R 207.70
0205	Bhishti	Day	0.67	R310.00	R 207.70
0224	Mate	Day	0.33	R310.00	R 102.30
0206	Blacksmith 1st class	Day	0.27	R440.00	R 118.80
					R 2261.94
	Add for sundries (scaffolding etc.) and contingencies [Lumpsum]	@	3.00%	R2261.94	R 67.86
					R 2329.80
	Add for water charges	@	1.00%	R2329.80	R 23.30
	, ,				R 2353.10
	Add GST (multiplying factor)		0.1405	R2353.10	R 330.61
					R 2683.71
	Add for contractor's profit and overheads	@	15.00%	R2683.71	R 402.56
					R 3086.27
	Add cess	@	1.00%	R3086.27	R 30.86
	Total cost for 1 Sqm.			Total	R 3117.13
				Say,	R 3117.10

	Providing and fixing gang saw cut of approved thickness mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base of cement mortar 1:4 (1 cement: 4 fine sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels:-
7.2.1	18 mm thick Rajnagar Plain white marble/ Udaipur green marble/ Zebra black marble or equivalent duly approved:-

7.2.1.1	Area	of	slab	upto	0.50	sqm.

Code	Description	Unit	Quantity	Rate	Amount

	Details of cost for 0.50 sqm.	Sqm.			
	Rajnagar plain white marble (polished and machine				
	cut) etc.= 0.50 sqm.+5% for wastage 0.025 sqm.=				
	0.525sqm				
	a. Materials:				
07006	Rajnagar plain white marble (polished and machine cut) etc. 18 mm thick upto 0.50sqm	Sqm.	0.525	R700.00	R 367.50
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.012	R3259.11	R 39.11
	b. Carriage:				
0469	Rajnagar plain white marble (polished and machine cut) etc. 18 mm thick upto 0.500sqm	Tonne	0.03	R102.47	R 2.66
	c. Labours:				
0219	Mason (brick layer) 1st class	Day	0.48	R500.00	R 240.00
0203	Beldar	Day	0.20	R310.00	R 62.00
0212	Coolie	Day	0.20	R310.00	R 62.00
					R 773.27
	Add for sundries (Moulding and edge polishing, apoxy resin & cutting machine etc. etc.) and contingencies [Lumpsum]	@	3.00%	R773.27	R 23.20
					R 796.47
	Add for water charges	@	1.00%	R796.47	R 7.96
					R 804.43
	Add GST (multiplying factor)		0.1405	R804.43	R 113.02
					R 917.45
	Add for contractor's profit and overheads	@	15.00%	R917.45	R 137.62
					R 1055.07
	Add cess	@	1.00%	R1055.07	R 10.55
	Total cost for 0.50 Sqm.			Total	R 1065.62
	Total cost for 1 Sqm.				R 2131.24
				Say,	R 2131.20

7.2.1.2	Area of slab over 0.50 sqm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 sqm.	Sqm.			
	Rajnagar plain white marble (polished and machine cut) etc.=1.00 sqm.+5% for wastage 0.05 sqm.= 1.05sqm				
	a. Materials:				
07005	Rajnagar plain white marble (polished and machine cut) etc. 18 mm thick over 0.500 sqm	Sqm.	1.05	R800.00	R 840.00
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.024	R3259.11	R 78.22
	b. Carriage:				
0469	Rajnagar plain white marble (polished and machine cut) etc. 18 mm thick over 0.500 sqm	Tonne	0.05	R102.47	R 5.43
	c. Labours:				
0219	Mason (brick layer) 1st class	Day	0.72	R500.00	R 360.00
0203	Beldar	Day	0.30	R310.00	R 93.00
0212	Coolie	Day	0.30	R310.00	R 93.00
					R 1469.65
	resin & cutting machine etc. etc.) and contingencies	@	3.00%	R1469.65	R 44.09
					R 1513.74
	Add for water charges	@	1.00%	R1513.74	R 15.14
					R 1528.88
	Add GST (multiplying factor)		0.1405	R1528.88	R 214.81
					R 1743.69
	Add for contractor's profit and overheads	@	15.00%	R1743.69	R 261.55
					R 2005.24
	Add cess	@	1.00%	R2005.24	R 20.05
	Total cost for 1 Sqm.			Total	R 2025.29

Say, R 2025.30

7.2.2	14 mm thick Rajnagar Plain white marble/ Udaipui	green	marble/ Ze	bra black marb	le or equivalent
	duly approved:-				
7.2.2.1	Area of slab upto 0.50 sqm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 0.50 sqm.	Sqm.			
	Rajnagar plain white marble (polished and machine				
	cut) etc.= 0.50 sqm.+5% for wastage 0.025 sqm.=				
	0.525sqm				
	a. Materials:				
07013	Rajnagar plain white marble (polished and machine	Sqm.	0.525	R550.00	R 288.75
07013	cut) etc. 14 mm thick upto 0.50sqm	·			
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.01	R3259.11	R 39.11
	b. Carriage:				
0469	Rajnagar plain white marble (polished and machine	Tonne	0.03	R102.47	R 2.66
0407	cut) etc. 14 mm thick upto 0.500sqm	TOTITIC	0.03	1(102.47	1 2.00
	c. Labours:				
0219	Mason (brick layer) 1st class	Day	0.48	R500.00	R 240.00
0203	Beldar	Day	0.20	R310.00	R 62.00
0212	Coolie	Day	0.20	R310.00	R 62.00
					R 694.52
	Add for sundries (Moulding and edge polishing, apoxy				
	resin & cutting machine etc. etc.) and contingencies	@	3.00%	R694.52	R 20.84
	{Lumpsum]				
					R 715.36
	Add for water charges	@	1.00%	R715.36	R 7.15
					R 722.51
	Add GST (multiplying factor)		0.1405	R722.51	R 101.51
					R 824.02
	Add for contractor's profit and overheads	@	15.00%	R824.02	R 123.60
					R 947.62
	Add cess	@	1.00%	R947.62	R 9.48
	Total cost for 0.50 Sqm.			Total	R 957.10
	Total cost for 1 Sqm.				R 1914.20
				Say,	R 1914.20

7.2.2.2	Area of slab over 0.50 sqm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 sqm.	Sqm.			
	Rajnagar plain white marble (polished and machine				
	cut) etc.=1.00 sqm.+5% for wastage 0.05 sqm.=				
	1.05sqm				
	a. Materials:				
07014	Rajnagar plain white marble (polished and machine	Sqm.	1.05	R650.00	R 682.50
07014	cut) etc. 14 mm thick over 0.500 sqm				
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.024	R3259.11	R 78.22
	b. Carriage:				
0469	Rajnagar plain white marble (polished and machine	Tonne	0.05	R102.47	R 5.43
0409	cut) etc. 14 mm thick over 0.500 sqm	TOTILE	0.05	102.47	17 3.43
	c. Labours:				
0219	Mason (brick layer) 1st class	Day	0.72	R500.00	R 360.00
0203	Beldar	Day	0.30	R310.00	R 93.00
0212	Coolie	Day	0.30	R310.00	R 93.00
					R 1312.15
	Add for sundries (Moulding and edge polishing, apoxy				
	resin & cutting machine etc. etc.) and contingencies	@	3.00%	R1312.15	R 39.36
	[Lumpsum]				
					R 1351.51
	Add for water charges	@	1.00%	R1351.51	R 13.52
					R 1365.03
	Add GST (multiplying factor)		0.1405	R1365.03	R 191.79
					R 1556.82
	Add for contractor's profit and overheads	@	15.00%	R1556.82	R 233.52

				R 1790.34
Add cess	@	1.00%	R1790.34	R 17.90
Total cost for 1 Sqm.			Total	R 1808.24
			Say,	R 1808.20

7.2.3	18 mm thick Granite of any colour and shade duly approved:-								
7.2.3.1	Area of slab upto 0.50 sqm.								
Code	Description	Unit	Quantity	Rate	Amount				
	Details of cost for 0.50 sqm.	Sqm.							
	Mirror polished granite= 0.50 sqm.+5% for wastage 0.025 sqm.= 0.525sqm								
	a. Materials:								
07003	Granite 18 mm thick slab, upto 0.50 sqm etc.	Sqm.	0.525	R1650.00	R 866.25				
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.012	R3259.11	R 39.11				
	b. Carriage:								
0469	Granite 18 mm thick slab, upto 0.50 sqm etc.	Tonne	0.03	R102.47	R 2.66				
	c. Labours:								
0219	Mason (brick layer) 1st class	Day	0.48	R500.00	R 240.00				
0203	Beldar	Day	0.20	R310.00	R 62.00				
0212	Coolie	Day	0.20	R310.00	R 62.00				
					R 1272.02				
	Add for sundries (Moulding and edge polishing, apoxy resin & cutting machine etc. etc.) and contingencies [Lumpsum]	@	3.00%	R1272.02	R 38.16				
					R 1310.18				
	Add for water charges	@	1.00%	R1310.18	R 13.10				
	i i				R 1323.28				
	Add GST (multiplying factor)		0.1405	R1323.28	R 185.92				
					R 1509.20				
	Add for contractor's profit and overheads	@	15.00%	R1509.20	R 226.38				
					R 1735.58				
	Add cess	@	1.00%	R1735.58	R 17.36				
	Total cost for 0.50 Sqm.			Total	R 1752.94				
	Total cost for 1 Sqm.				R 3505.88				
				Say,	R 3505.90				

7.2.3.2	Area of slab over 0.50 sqm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 2.00 sqm.	Sqm.			
	Mirror polished granite=2.00 sqm.+5% for wastage 0.1 sqm.= 2.1sqm				
	a. Materials:				
07002	Granite 18 mm thick slab, over 0.50 sqm etc.	Sqm.	2.100	R1850.00	R 3885.00
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.048	R3259.11	R 156.44
	b. Carriage:				
0469	Granite 18 mm thick slab, over 0.50 sqm etc.	Tonne	0.11	R102.47	R 10.76
	c. Labours:				
0219	Mason (brick layer) 1st class	Day	1.44	R500.00	R 720.00
0203	Beldar	Day	0.60	R310.00	R 186.00
0212	Coolie	Day	0.60	R310.00	R 186.00
					R 5144.20
	Add for sundries (Moulding and edge polishing, apoxy resin & cutting machine etc. etc.) and contingencies [Lumpsum]	@	3.00%	R5144.20	R 154.33
					R 5298.53
	Add for water charges	@	1.00%	R5298.53	R 52.99
					R 5351.52
	Add GST (multiplying factor)		0.1405	R5351.52	R 751.89
					R 6103.41
	Add for contractor's profit and overheads	@	15.00%	R6103.41	R 915.51
					R 7018.92
	Add cess	@	1.00%	R7018.92	R 70.19

Total cost for 2 Sqm.		Total	R 7089.11
Total cost for 1 Sqm.			R 3544.56
		Say,	R 3544.60

7.2.4	14 mm thick Granite of any colour and shade duly approved:-					
7.2.4.1	Area of slab upto 0.50 sqm.					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 0.50 sqm.	Sqm.				
	Mirror polished granite= 0.50 sqm.+5% for wastage					
	0.025 sqm.= 0.525sqm					
	a. Materials:					
07015	Granite 14 mm thick slab, upto 0.50 sqm etc.	Sqm.	0.525	R1600.00	R 840.00	
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.012	R3259.11	R 39.11	
	b. Carriage:					
0469	Granite 14 mm thick slab, upto 0.50 sqm etc.	Tonne	0.03	R102.47	R 2.66	
	c. Labours:					
0219	Mason (brick layer) 1st class	Day	0.48	R500.00	R 240.00	
0203	Beldar	Day	0.20	R310.00	R 62.00	
0212	Coolie	Day	0.20	R310.00	R 62.00	
					R 1245.77	
	Add for sundries (Moulding and edge polishing, apoxy resin & cutting machine etc. etc.) and contingencies [Lumpsum]	@	3.00%	R1245.77	R 37.37	
					R 1283.14	
	Add for water charges	@	1.00%	R1283.14	R 12.83	
					R 1295.97	
	Add GST (multiplying factor)		0.1405	R1295.97	R 182.08	
					R 1478.05	
	Add for contractor's profit and overheads	@	15.00%	R1478.05	R 221.71	
					R 1699.76	
	Add cess	@	1.00%	R1699.76	R 17.00	
	Total cost for 0.50 Sqm.			Total	R 1716.76	
	Total cost for 1 Sqm.				R 3433.52	
				Say,	R 3433.50	

7040	IA 6.1.1 0.50				
7.2.4.2	Area of slab over 0.50 sqm.		I = I		
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 2.00 sqm.	Sqm.			
	Mirror polished granite=2.00 sqm.+5% for wastage 0.1				
	sqm.= 2.1sqm				
	a. Materials:				
07016	Granite 14 mm thick slab, over 0.50 sqm etc.	Sqm.	2.100	R1620.00	R 3402.00
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.048	R3259.11	R 156.44
	b. Carriage:				
0469	Granite 14 mm thick slab, over 0.50 sqm etc.	Tonne	0.11	R102.47	R 10.76
	c. Labours:				
0219	Mason (brick layer) 1st class	Day	1.44	R500.00	R 720.00
0203	Beldar	Day	0.60	R310.00	R 186.00
0212	Coolie	Day	0.60	R310.00	R 186.00
					R 4661.20
	Add for sundries (Moulding and edge polishing, apoxy resin & cutting machine etc. etc.) and contingencies [Lumpsum]	@	3.00%	R4661.20	R 139.84
					R 4801.04
	Add for water charges	@	1.00%	R4801.04	R 48.01
	, , , , , , , , , , , , , , , , , , ,				R 4849.05
	Add GST (multiplying factor)		0.1405	R4849.05	R 681.29
					R 5530.34
	Add for contractor's profit and overheads	@	15.00%	R5530.34	R 829.55
					R 6359.89
	Add cess	@	1.00%	R6359.89	R 63.60
	Total cost for 2 Sqm.			Total	R 6423.49
	Total cost for 1 Sqm.				R 3211.75
				Say,	R 3211.80

7.3	Providing edge moulding to approved thickness polishing to edge to give high gloss finish etc. co by the Engineer-in-charge:-				
7.3.1	18 mm Marble work.				
Code	Description	Unit	Quantity	Rate	Amoun
	Details of cost for 10 mtr.	Mtr.			
	a. T&P and materials:				
0105	Hire charge of Hand Grinder for-mirror-polish	Day	1.50	R260.00	R 390.00
	b. Labours:				
0203	Beldar	Day	2.00	R310.00	R 620.00
	c. Blades & polish etc. (LS)	15%	on	R1010.00	R 151.50
					R 1161.50
	Add for sundries and contingencies	@	3.00%	R1161.50	R 34.8
					R 1196.3
	Add for water charges	@	1.00%	R1196.35	R 11.90
					R 1208.3
	Add GST (multiplying factor)		0.1405	R1208.31	R 169.7
					R 1378.08
	Add for contractor's profit and overheads	@	15.00%	R1378.08	R 206.7
					R 1584.79
	Add cess	@	1.00%	R1584.79	R 15.85
	Total cost for 10 Mtr.			Total	R 1600.64
	Total cost for 1 Mtr.				R 160.06
				Say,	R 160.10

7.3.2	14 mm Marble work.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 mtr.	Mtr.			
	a. T&P and materials:				
0105	Hire charge of Hand Grinder for-mirror-polish	Day	1.00	R260.00	R 260.00
	b. Labours:			R0.00	
0203	Beldar	Day	1.50	R310.00	R 465.00
	c. Blades & polish etc. (LS)	12%	on	R725.00	R 87.00
					R 812.00
	Add for sundries and contingencies	@	3.00%	R812.00	R 24.36
					R 836.36
	Add for water charges	@	1.00%	R836.36	R 8.36
					R 844.72
	Add GST (multiplying factor)		0.1405	R844.72	R 118.68
					R 963.40
	Add for contractor's profit and overheads	@	15.00%	R963.40	R 144.51
					R 1107.91
	Add cess	@	1.00%	R1107.91	R 11.08
	Total cost for 10 Mtr.			Total	R 1118.99
	Total cost for 1 Mtr.				R 111.90
				Say,	R 111.90

7.3.3	18 mm thick Granite work.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 mtr.	Mtr.			
	a. T&P and materials:				
0105	Hire charge of Hand Grinder for-mirror-polish	Day	2.50	R260.00	R 650.00
	b. Labours:				
0203	Beldar	Day	3.5	R310.00	R 1085.00
	c. Blades & polish etc. (LS)	15%	on	R1735.00	R 260.25
		i			R 1995.25
	Add for sundries and contingencies	@	3.00%	R1995.25	R 59.86
					R 2055.11
	Add for water charges	@	1.00%	R2055.11	R 20.55
					R 2075.66

Add GST (multiplying factor)		0.1405	R2075.66	R 291.63
				R 2367.29
Add for contractor's profit and overheads	@	15.00%	R2367.29	R 355.09
				R 2722.38
Add cess	@	1.00%	R2722.38	R 27.22
Total cost for 10 Mtr.			Total	R 2749.60
Total cost for 1 Mtr.				R 274.96
			Say,	R 275.00

7.3.4	14 mm thick Granite work.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 mtr.	Mtr.			
	a. T&P and materials:				
0105	Hire charge of Hand Grinder for-mirror-polish	Day	2.00	R260.00	R 520.00
	b. Labours:				
0203	Beldar	Day	3.00	R310.00	R 930.00
	c. Blades & polish etc. (LS)	12%	on	R1735.00	R 208.20
					R 1658.20
	Add for sundries and contingencies	@	3.00%	R1658.20	R 49.75
					R 1707.95
	Add for water charges	@	1.00%	R1707.95	R 17.08
					R 1725.03
	Add GST (multiplying factor)		0.1405	R1725.03	R 242.37
					R 1967.40
	Add for contractor's profit and overheads	@	15.00%	R1967.40	R 295.11
					R 2262.51
	Add cess	@	1.00%	R2262.51	R 22.63
	Total cost for 10 Mtr.			Total	R 2285.14
	Total cost for 1 Mtr.				R 228.51
				Say,	R 228.50

7.4	Extra for fixing marble / granite stone over and about width upto 150 mm with epoxy resin based adhesive				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for facia 1.5m long and 0.15m wide.	Mtr.			
	a.Materials:				
	Cement mortar 1:4 (1 Cement: 4 fine sand)(Rate as per item No. 3.1.4) 1.5x0.15x0.02 = 0.005 cum	Cum.	0.005	R3259.11	R 16.30
	b. Labours:				
0221	Stone Mason (ornamental)	Day	0.30	R500.00	R 150.00
0203	Beldar	Day	0.30	R310.00	R 93.00
	c. Expoxy resin etc. (LS)	0.30	on	R259.30	R 77.79
					R 337.09
	Add for sundries and contingencies	@	3.00%	R337.09	R 10.1
					R 347.20
	Add for water charges	@	1.00%	R347.20	R 3.47
					R 350.67
	Add GST (multiplying factor)		0.1405	R350.67	R 49.27
					R 399.94
	Add for contractor's profit and overheads	@	15.00%	R399.94	R 59.99
					R 459.93
	Add cess	@	1.00%	R459.93	R 4.60
<u> </u>	Total cost for 1.5 Mtr.			Total	R 464.53
-	Total cost for 1 Mtr.				R 309.69
				Sav	P 200 70

^{7.5} Mirror polishing on marble work/granite work /stone work wherever, required to give high gloss finish complete at all levels as required as per direction of the Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	Sqm.			
	a. T&P and materials:				
0120	Hire charge of Floor grinder machine (Granite)	Day	1.00	R320.00	R 320.00
	b. Labours:				
0203	Beldar	Day	2.50	R310.00	R 775.00
0205	Bhishti	Day	1.50	R310.00	R 465.00
	c. Grease, mop grinding stones etc (LS)	5%	on	R1560.00	R 78.00
					R 1638.00
	Add for sundries and contingencies	@	3.00%	R1638.00	R 49.14
					R 1687.14
	Add for water charges	@	1.00%	R1687.14	R 16.87
					R 1704.01
	Add GST (multiplying factor)		0.1405	R1704.01	R 239.41
					R 1943.42
	Add for contractor's profit and overheads	@	15.00%	R1943.42	R 291.51
					R 2234.93
	Add cess	@	1.00%	R2234.93	R 22.35
	Total cost for 10 Sqm.			Total	R 2257.28
	Total cost for 1 Sqm.				R 225.73
				Say,	R 225.70

7.6	vanity counter and similar location in marble/ Granite/ stone work, including necessary hotaps etc. including moulding, rubbing and polishing of cut edges etc. complete						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for providing an opening of required size and shape						
	a. Labours:						
0221	Stone Mason (ornamental)	Day	0.40	R500.00	R 200.00		
0203	Beldar	Day	0.40	R310.00	R 124.00		
					R 324.00		
	Add for sundries and contingencies	@	3.00%	R324.00	R 9.72		
					R 333.72		
	Add for water charges	@	1.00%	R333.72	R 3.34		
					R 337.06		
	Add GST (multiplying factor)		0.1405	R337.06	R 47.36		
					R 384.42		
	Add for contractor's profit and overheads	@	15.00%	R384.42	R 57.66		
					R 442.08		
	Add cess	@	1.00%	R442.08	R 4.42		
				Total	R 446.50		
·	Cost of each			·	R 446.50		

7.7	Providing and fixing cramps of required size and shape in RCC/CC/ Brick masonry backing with cement mortar 1:2 (1 cement : 2 fine sand) including drilling necessary holes in stones and embedding the cramp in the hole (fastener to be paid separately) complete at all levels as required:-						
7.7.1	Gun metal cramps.						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 cramps	No.					
	a Matorials:						

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cramps	No.			
	a. Materials:				
07004	Gun metal cramp 10 x 0.064 x 0.025 x 0.006 = 9.6 x 10^5 10 x 0.025 x 0.025 x 0.006 = 3.7 x 10^5 = 13.3 x 10^5 less hole 10 x 0.024 x 0.010 x 0.006 = 1.4 x 10^5 = 11.9 x 10^5 x 8640 = 1.03 kg Add wastage @ 5% = 0.051kg. Total = 1.08 kg. Gun metal cramp	Ka	1.08	R320.00	R 345.60

R 446.50

Say

Cement mortar 1:2 (1 cement:2 fine sand) (Rate as per item No. 3.1.2)	Cum.	0.001	R5067.95	R 5.07
b. Carriage:				
Gun metal cramp (LS)	Kg.	1.08	R0.10	R 0.11
c. Labours:				
For fixing in position (LS)	20%	on	R350.78	R 70.16
				R 420.94
Add for sundries and contingencies	@	3.00%	R420.94	R 12.63
				R 433.57
Add for water charges	@	1.00%	R433.57	R 4.34
				R 437.91
Add GST (multiplying factor)		0.1405	R437.91	R 61.53
				R 499.44
Add for contractor's profit and overheads	@	15.00%	R499.44	R 74.92
				R 574.36
Add cess	@	1.00%	R574.36	R 5.74
Total cost for 1.03 kg			Total	R 580.10
Total cost for 1 kg				R 563.20
			Say,	R 563.20

7.7.2	Stainless steel cramps.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 cramps	No.			
	a. Materials:				
07007	Stainless steel cramp 10 x 0.064 x 0.025 x 0.006 = 9.6 x 10^5 10 x 0.025 x 0.025 x 0.006 = 3.7 x 10^5 = 13.3 x 10^5 less hole 10 x 0.024 x 0.010 x 0.006 = 1.4 x 10^5 = 11.9 x 10^5 x 7850 = 0.934 kg Add wastage @ 5% = 0.047kg. Total = 0.981 kg Stainless steel cramp	Kg.	0.981	R300.00	R 294.30
	Cement mortar 1:2 (1 cement:2 fine sand) (Rate as per item No. 3.1.2)	Cum.	0.001	R5067.95	R 5.07
	b. Carriage:				
	Stainless steel cramp	Kg.	0.98	R0.10	R 0.10
	c. Labours:				
	For fixing in position (LS)	20%	on	R299.47	R 59.89
					R 359.36
	Add for sundries and contingencies	@	3.00%	R359.36	R 10.78
					R 370.14
	Add for water charges	@	1.00%	R370.14	R 3.70
					R 373.84
	Add GST (multiplying factor)		0.1405	R373.84	R 52.52
					R 426.36
	Add for contractor's profit and overheads	@	15.00%	R426.36	R 63.95
					R 490.31
	Add cess	@	1.00%	R490.31	R 4.90
	Total cost for 0.934 kg			Total	R 495.21
	Total cost for 1 kg				R 530.20
				Say,	R 530.20

7.8	Providing and fixing expansion hold fasteners on C.C./R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete at all levels as required.:-					
7.8.1	Wedge expansion type:-					
7.8.1.1	Fastener with threaded dia 6 mm.					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 30nos. W.E.H. fastener	No.				
	a. Materials and T&P:					

07011	Wedge expansion hold fastener size 6mm, 36.5mm length	Each	30	R13.00	R 390.00
05017	Bolt 6mm dia. Length (36.5+10mm)	QtI	0.0045	R5040.00	R 22.68
	Hire and running charges for hand drill machine	LS	22.00	R1.00	R 22.00
	Drilling bit, scaffolding etc.	LS	2.5	R1.00	R 2.50
	b. Carriage:				
	Wedge expansion hold fastener size 6mm, 36.5mm length & Bolt 6mm dia. Length (36.5+10mm) (LS)	LS	0.50	R1.00	R 0.50
	c. Labours:				
0215	Fitter Grade-I	Day	0.25	R440.00	R 110.00
0203	Beldar	LS	0.25	R310.00	R 77.50
					R 625.18
	Add for sundries and contingencies	@	3.00%	R625.18	R 18.76
					R 643.94
	Add for water charges	@	1.00%	R643.94	R 6.44
					R 650.38
	Add GST (multiplying factor)		0.1405	R650.38	R 91.38
					R 741.76
	Add for contractor's profit and overheads	@	15.00%	R741.76	R 111.26
					R 853.02
	Add cess	@	1.00%	R853.02	R 8.53
	Total cost for 30 nos.			Total	R 861.55
<u> </u>	Total cost for 1 no.				R 28.72
				Say,	R 28.70

7.8.1.2	Fastener with threaded dia 10 mm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30nos. W.E.H. fastener	No.			
	a. Materials and T&P:				
07012	Wedge expansion hold fastener size 10mm, 44.5mm length	Each	30	R14.00	R 420.00
05017	Bolt 10mm dia. Length (44.5+10mm)	QtI	0.006	R5040.00	R 30.24
	Hire and running charges for hand drill machine	LS	24.00	R1.00	R 24.00
	Drilling bit, scaffolding etc.	LS	3.0	R1.00	R 3.00
	b. Carriage:				
	Wedge expansion hold fastener size 10mm, 44.5mm length Bolt 10mm dia. Length (44.5+10mm) (LS)	LS	0.75	R1.00	R 0.75
	c. Labours:				
0215	Fitter Grade-I	Day	0.25	R440.00	R 110.00
0203	Beldar	Day	0.25	R310.00	R 77.50
					R 665.49
	Add for sundries and contingencies	@	3.00%	R665.49	R 19.96
					R 685.45
	Add for water charges	@	1.00%	R685.45	R 6.85
					R 692.30
	Add GST (multiplying factor)		0.1405	R692.30	R 97.27
			15.00%	D700 57	R 789.57
	Add for contractor's profit and overheads	@	15.00%	R789.57	R 118.44
	Add assa		1.00%	R908.01	R 908.01
	Add cess	@	1.00%		R 9.08 R 917.09
	Total cost for 30 nos. Total cost for 1 no.			Total	R 30.57
	Total cost for 1 flo.			Say,	R 30.60

7.8.1.3	Fastener with threaded dia 12 mm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30nos. W.E.H. fastener	No.			
	a. Materials and T&P:				

07010	Wedge expansion hold fastener size 12mm, 58.7mm length	Each	30	R28.00	R 840.00
05017	Bolt 12mm dia. Length (58.7+10mm) @ 0.05 kg./each	QtI	0.0075	R5040.00	R 37.80
	Hire and running charges for hand drill machine	LS	25.50	R1.00	R 25.50
	Drilling bit, scaffolding etc.	LS	3.5	R1.00	R 3.50
	b. Carriage:				
	Wedge expansion hold fastener size 12mm, 58.7mm length & Bolt 12mm dia. Length (58.7+10mm) (LS)	LS	1.00	R1.00	R 1.00
	c. Labours:				
0215	Fitter Grade-I	Day	0.25	R440.00	R 110.00
0203	Beldar	Day	0.25	R310.00	R 77.50
					R 1095.30
	Add for sundries and contingencies	@	3.00%	R1095.30	R 32.86
					R 1128.16
	Add for water charges	@	1.00%	R1128.16	R 11.28
					R 1139.44
	Add GST (multiplying factor)		0.1405	R1139.44	R 160.09
					R 1299.53
	Add for contractor's profit and overheads	@	15.00%	R1299.53	R 194.93
					R 1494.46
	Add cess	@	1.00%	R1494.46	R 14.94
	Total cost for 30 nos.			Total	R 1509.40
	Total cost for 1 no.				R 50.31
				Say,	R 50.30

7.9	Stone tile (polished) work for wall lining over 12mm sand) and cement slurry @ 3.3 kg/sqm including policuring etc. complete at all levels as required:-				
7.9.1	8 mm thick				
7.9.1.1	Raj Nagar Plain white marble/ Udaipur green marble	Zebra k	olack marble	e or equivalent	duly aproved.
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 8mm thick marble tiles 1 Sqm.	Sqm.			
	Qty. = 1.00 sqm. + Add wastage @ 2.5% = 0.025 Sqm, Total = 1.025 Sqm.				
	a. Materials:				
10002	8 mm thick marble tiles (mirror polished of all shades)	Sqm.	1.025	R400.00	R 410.00
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.014	R4026.43	R 56.37
	White cement mortar 1:2 (Rate as per item No. 3.4.1)	Cum	0.0033	R12362.22	R 41.29
03001	Cement for slurry	Tonne	0.0033	R5800.00	R 19.14
	b. Carriage:				
0469	8 mm thick marble tiles (mirror polished of all shades)	Tonne	0.023	R102.47	R 2.36
0421	Cement for slurry	Tonne	0.0033	R102.47	R 0.34
	c. Labours:				
0221	Mason 1st class	Day	1.00	R500.00	R 500.00
0203	Beldar	Day	1.00	R310.00	R 310.00
					R 1339.50
	Add for sundries (Mortar for pointing etc.) and contingencies [Lumpsum]	@	3.00%	R1339.50	R 40.19
					R 1379.69
_	Add for water charges	@	1.00%	R1379.69	R 13.80
					R 1393.49
	Add GST (multiplying factor)		0.1405	R1393.49	R 195.79
					R 1589.28
	Add for contractor's profit and overheads	@	15.00%	R1589.28	R 238.39
			1.00%	D.100= 0=	R 1827.67
	Add cess	@	1.00%	R1827.67	R 18.28

Total cost for 1 Sqm.		Total	R 1845.95
		Say,	R 1846.00

7.9.1.2	Granite of any colour and shade duly approved .		l I	_	_
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 8mm thick Granite tiles 1 Sqm.	Sqm.			
	Oty. = 1.00 sqm. + Add wastage .@ 2.5% = 0.025sqm, Total = 1.025 sqm.				
	a. Materials:				
07001	8 mm thick granite stone tiles (mirror polished of all shades)	Sqm.	1.025	R800.00	R 820.00
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.01	R4026.43	R 56.37
	White cement mortar 1:2 (Rate as per item No. 3.4.1)	Cum	0.00	R12362.22	R 41.29
03001	Cement for slurry	Tonne	0.00	R5800.00	R 19.14
	b. Carriage:				
0469	8 mm thick granite stone tiles (mirror polished of all shades)	Tonne	0.02	R102.47	R 2.36
0421	Cement for slurry	Tonne	0.00	R102.47	R 0.34
	c. Labours:				
0221	Mason 1st class	Day	1.00	R500.00	R 500.00
0203	Beldar	Day	1.00	R310.00	R 310.00
					R 1749.50
	Add for sundries (Mortar for pointing etc.) and contingencies [Lumpsum]	@	3.00%	R1749.50	R 52.49
					R 1801.99
	Add for water charges	@	1.00%	R1801.99	R 18.02
					R 1820.01
	Add GST (multiplying factor)		0.1405	R1820.01	R 255.71
					R 2075.72
	Add for contractor's profit and overheads	@	15.00%	R2075.72	R 311.36
					R 2387.08
	Add cess	@	1.00%	R2387.08	R 23.87
	Total cost for 1 Sqm.			Total	R 2410.95
				Say,	R 2411.00

7.10 Providing and fixing stone slab with table rubbed, edges rounded and polished of size 75x50 cm deep and approved thickness fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 fine sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth including rubbing, curing etc. complete at all levels as required (measurement should be of exposed finished work):-

	required (measurement should be or exposed finished	u work):	-				
7.10.1	White Agaria Marble Stone of approved shade of 18 mm thick (75 x 50 cm).						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for one No or 0.375 sqm.	Sqm.					
	Agaria Marble Stone 1 x $0.75 \times 0.50 = 0.375 + add$ wastage @ $20\% = 0.075 \text{ sqm}$. Total = 0.45sqm .						
	a. Materials:						
07008	Agaria Marble Stone	Sqm.	0.45	R1700.00	R 765.00		
	Cement concrete 1:2:4 for filling (LS)	LS	25.00	R1.25	R 31.25		
	b. Carriage:						
0469	Agaria Marble Stone	Tonne	0.02	R102.47	R 2.36		
	c. Labours:						
	Labour for fixing, edge rounding and final polishing [LS]	5%	on	R798.61	R 39.93		
					R 838.54		
	Add for sundries and contingencies	@	3.00%	R838.54	R 25.16		
					R 863.70		
	Add for water charges	@	1.00%	R863.70	R 8.64		

				R 872.34
Add GST (multiplying factor)		0.1405	R872.34	R 122.56
				R 994.90
Add for contractor's profit and overheads	@	15.00%	R994.90	R 149.24
				R 1144.14
Add cess	@	1.00%	R1144.14	R 11.44
Total cost for 0.375 Sqm.			Total	R 1155.58
Total cost for 1 Sqm.				R 3081.55
			Say,	R 3081.60

7.10.2	1.10.2 White Agaria Marble Stone of approved shade of 14 mm thick (75 x 50 cm).					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for one No or 0.375 sqm.	Sqm.				
	Agaria Marble Stone 1 x 0.75 x0.50 = 0.375 + add wastage @ 20% = 0.075 sqm. Total = 0.45sqm.					
	a. Materials:					
07017	Agaria Marble Stone	Sqm.	0.45	R1500.00	R 675.00	
	Cement concrete 1:2:4 for filling (LS)	LS	25.00	R1.25	R 31.25	
	b. Carriage:					
0469	Agaria Marble Stone	Tonne	0.023	R102.47	R 2.36	
	c. Labours:					
	Labour for fixing, edge rounding and final polishing	5%	on	R708.61	R 35.43	
					R 744.04	
	Add for sundries and contingencies	@	3.00%	R744.04	R 22.32	
					R 766.36	
	Add for water charges	@	1.00%	R766.36	R 7.66	
					R 774.02	
	Add GST (multiplying factor)		0.1405	R774.02	R 108.75	
					R 882.77	
	Add for contractor's profit and overheads	@	15.00%	R882.77	R 132.42	
					R 1015.19	
	Add cess	@	1.00%	R1015.19	R 10.15	
	Total cost for 0.375 Sqm.			Total	R 1025.34	
	Total cost for 1 Sqm.				R 2734.24	
				Say,	R 2734.20	

7.10.3	Granite of any colour and shade duly approved of 18	mm thi	ck (75 x 50 c	cm).	
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one No or 0.375 sqm.	Sqm.			
	Granite Stone 1 x 0.75 x 0.50 = 0.375 + add wastage @				
	20% = 0.075 sqm. Total = 0.45sqm.				
	a. Materials:				
07009	Granite Stone	Sqm.	0.45	R1700.00	R 765.00
	Cement concrete 1:2:4 for filling	LS	25.00	R1.25	R 31.25
	b. Carriage:				
2201	Granite Stone	Tonne	0.023	R102.47	R 2.36
	c. Labours:				
	Labour for fixing, edge rounding and final polishing [LS]	5%	on	R798.61	R 39.93
					R 838.54
	Add for sundries and contingencies	@	3.00%	R838.54	R 25.16
					R 863.70
	Add for water charges	@	1.00%	R863.70	R 8.64
					R 872.34
	Add GST (multiplying factor)		0.1405	R872.34	R 122.56
					R 994.90
	Add for contractor's profit and overheads	@	15.00%	R994.90	R 149.24
					R 1144.14
	Add cess	@	1.00%	R1144.14	R 11.44
	Total cost for 0.375 Sqm.			Total	R 1155.58
	Total cost for 1 Sqm.				R 3081.55

	Say,	R 3081.60
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7.10.4	10.4 Granite of any colour and shade duly approved of 14 mm thick (75 x 50 cm).					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for one No or 0.375 sqm.	Sqm.				
	Granite Stone 1 x 0.75 x 0.50 = 0.375 + add wastage @					
	20% = 0.075 sqm. Total = 0.45sqm.					
	a. Materials:					
07018	Granite Stone	Sqm.	0.45	R1500.00	R 675.00	
	Cement concrete 1:2:4 for filling	LS	25.00	R1.25	R 31.25	
	b. Carriage:					
2201	Granite Stone	Tonne	0.023	R102.47	R 2.36	
	c. Labours:					
	Labour for fixing, edge rounding and final polishing	5%	on	R708.61	R 35.43	
	[LS]	5%	on	K700.01	K 35.43	
					R 744.04	
	Add for sundries and contingencies	@	3.00%	R744.04	R 22.32	
					R 766.36	
	Add for water charges	@	1.00%	R766.36	R 7.66	
					R 774.02	
	Add GST (multiplying factor)		0.1405	R774.02	R 108.75	
					R 882.77	
	Add for contractor's profit and overheads	@	15.00%	R882.77	R 132.42	
					R 1015.19	
	Add cess	@	1.00%	R1015.19	R 10.15	
	Total cost for 0.375 Sqm.			Total	R 1025.34	
	Total cost for 1 Sqm.				R 2734.24	
				Say,	R 2734.20	

7.11 Providing and fixing machine cut, mirror/ eggshell polished, Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 fine sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge.

7.11.1 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 0.50 sqm.	Sqm.			
	Marble Stone = 0.50 + add wastage @ 20% = 0.1 sqm.				
	Total = 0.60sqm.				
	a. Materials:				
07019	18 mm thick Italian Marble stone slab, Perlato (slab	Sqm.	0.60	R3360.00	R 2016.00
07019	area up to 0.5 sqm)	oqiii.	0.00	13300.00	1 2010.00
	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.033	R4026.43	R 132.87
	White cement mortar 1:2 (Rate as per item No. 3.4.1)	Cum	0.033	R12362.22	R 407.95
	b. Carriage:				
2201	Marble Stone	Tonne	0.03	R102.47	R 3.07
	c. Labours:				
0221	Mason (for ornamental	day	0.335	R500.00	R 167.50
0203	Beldar	day	0.335	R310.00	R 103.85
0212	Coolie	day	0.335	R310.00	R 103.85
0205	Bhisti	day	0.335	R310.00	R 103.85
0224	Mate	day	0.165	R310.00	R 51.15
0206	Blaksmith 1st class	day	0.135	R440.00	R 59.40
					R 3149.49
	Add for sundries (Mortar for pointing in white cement) and contingencies	@	3.00%	R3149.49	R 94.48
					R 3243.97
	Add for water charges	@	1.00%	R3243.97	R 32.44
					R 3276.41
	Add GST (multiplying factor)		0.1405	R3276.41	R 460.34

				R 3736.75
Add for contractor's profit and overheads	@	15.00%	R3736.75	R 560.51
				R 4297.26
Add cess	@	1.00%	R4297.26	R 42.97
Total cost for 0.5 Sqm.			Total	R 4340.23
Total cost for 1 Sqm.				R 8680.46
			Say,	R 8680.50

7.12	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as
	well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm
	thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 fine sand) laid and
	jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching
	shade including rubbing, curing and polishing etc. all complete as specified and as directed by the
	Engineer-in-Charge.
7 1 2	1 Flowed finish growite stone clob let Block Charmy Ded Flite Drown Cet Five or equivalent

	Liigineer-in-orial ge.						
7.12.1	7.12.1 Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalen						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 sqm.	Sqm.					
	18mm thick - Flamed finish granite slab 10.00 sqm Add for wastage 15% =1.50 sqm, Total 11.50 sqm						
	a. Materials:						
07020	18 mm thick Flamed finish granite stone slab	Sqm.	11.50	R1400.00	R 16100.00		
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.224	R3259.11	R 730.04		
	White cement mortar 1:2 (Rate as per item No. 3.4.1)	Cum	0.033	R12362.22	R 407.95		
	b. Carriage:						
2201	Stone	Tonne	0.67	R102.47	R 68.65		
	c. Labours:						
0221	Mason (for ornamental	day	1.200	R500.00	R 600.00		
0203	Beldar	day	1.000	R310.00	R 310.00		
0212	Coolie	day	1.000	R310.00	R 310.00		
0228	Skilled Belder (for floor rubbing etc.)	day	5.000	R440.00	R 2200.00		
	d. Black colour dark shade Pigment: @ 1% on total.	1.0%	on	R20726.64	R 207.27		
					R 20933.91		
	Add for sundries (Mortar for pointing in white cement) and contingencies	@	3.00%	R20933.91	R 628.02		
					R 21561.93		
	Add for water charges	@	1.00%	R21561.93	R 215.62		
					R 21777.55		
	Add GST (multiplying factor)		0.1405	R21777.55	R 3059.75		
					R 24837.30		
	Add for contractor's profit and overheads	@	15.00%	R24837.30	R 3725.60		
					R 28562.90		
	Add cess	@	1.00%	R28562.90	R 285.63		
	Total cost for 10 Sqm.			Total	R 28848.53		
	Total cost for 1 Sqm.				R 2913.42		
				Say,	R 2913.40		

7.13	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as
	curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick
	stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 fine sand) laid and
	jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching
	shade including rubbing, curing and polishing etc. all complete as specified and as directed by the
	Engineer-in-Charge.

7 13 1	Polished Granite	e stone slab jet Black, Cherry Red, Flite Brown, Cat Eye or equivalent

7.13.1	Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 10 sqm.	Sqm.				
	18mm thick - granite slab 10.00 sqm Add for wastage					
	15% =1.50 sqm, Total 11.50 sqm					
	a. Materials:					
07002	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	Sqm.	11.50	R1850.00	R 21275.00	
	Cement mortar 1:4 (Rate as per item No. 3.1.4)	Cum	0.224	R3259.11	R 730.04	

					DEL WORK
	White cement mortar 1:2 (Rate as per item No. 3.4.1)	Cum	0.033	R12362.22	R 407.95
	b. Carriage:				
2201	Stone	Tonne	0.67	R102.47	R 68.65
	c. Labours:				
0221	Mason (for ornamental	day	1.200	R500.00	R 600.00
0203	Beldar	day	1.000	R310.00	R 310.00
0212	Coolie	day	1.000	R310.00	R 310.00
0228	Skilled Belder (for floor rubbing etc.)	day	2.000	R440.00	R 880.00
0105	Hand Grinder for mirror polish	day	2.000	R260.00	R 520.00
	d. Black colour dark shade Pigment: @ 1% on total.	1.0%	on	R25101.64	R 251.02
					R 25352.66
	Add for sundries (Mortar for pointing in white cement) and contingencies	@	3.00%	R25352.66	R 760.58
	, , , , , , , , , , , , , , , , , , ,				R 26113.24
	Add for water charges	@	1.00%	R26113.24	R 261.13
					R 26374.37
	Add GST (multiplying factor)		0.1405	R26374.37	R 3705.60
					R 30079.97
	Add for contractor's profit and overheads	@	15.00%	R30079.97	R 4512.00
					R 34591.97
	Add cess	@	1.00%	R34591.97	R 345.92
	Total cost for 10 Sqm.			Total	R 34937.89
	Total cost for 1 Sqm.				R 3528.38
· · · ·			_	Say,	R 3528.40

SUB HEAD: 8.0

WOOD WORK & PVC WORK

8.1	Providing wood work in fi wrought framed and fixed		, windo	ws, cleresto	ry w	vindows and	d ot	ther frames,
8.1.1	Sal Wood							
Code	Description		Unit	Quantity		Rate		Amount
	Details of cost for Chowkl	nat of a door						
	206. Materials	75 × 117.5 cm						
	Sal Wood							
	2×206.75×9.5×7.0 cm cum.+	= 0.028						
	1×117.5×9.5×7.0 cm cum.	= 0.008						
		= 0.036						
	cum.+ Add for wastage @ 5% cum.	= 0.002						
	Grand Total cum.	= 0.038						
08288	Sal wood		10 cudm	38.00	₹	670.00	₹	2,546.00
0473	Carriage of material (timb Labour:	oer)	cum	0.038	₹	74.50	₹	2.83
0208	Carpenter (avg.)		Day	0.72	₹	420.00	₹	302.40
0203	Beldar TOTAL		Day	0.07	₹	310.00	₹ ₹	21.70 2,872.93
	Add for sundries & contin	ngencies	@	3%			₹	86.19
	Total Add for electricity charge	ς	@	0.5%			₹	2,959.12 14.80
							₹	2,973.92
	Add GST (multiplying fact			0.1405			₹ ₹	417.84 3,391.76
	Add 15% for contractor's overheads	profit and	@	15%			₹	508.76
	Add cess		@	1%			₹ ₹	3,900.52 39.01
	Cost of 36 cudm.						₹	3,939.53
	Cost per cum. Say						₹ ₹	1,09,431.39 1,09,431.40
	July							1,07,401.40

8.1 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position :

8.1.2 Karai wood

Code Description Unit Quantity Rate Amount

Details of cost for Chowkhat of a door

206.75 × 117.5 cm

Materials

	2x206.75x9.5x7.0cm	= 0.028						
	cum.+ 1x117.5x9.5x7.0cm	= 0.008						
	cum.	0.027						
	cum.+	= 0.036						
	Add for wastage @ 5% cum.	= 0.002						
	Grand Total cum.	= 0.038						
08289	Karai wood		10 cudm	38.00	₹	550.00	₹	2,090.00
0473	Carriage of material (tim Labour:	ber)	cum	0.038	₹	74.50	₹	2.83
0208	Carpenter (avg.)		Day	0.72	₹	420.00	₹	302.40
0203	Beldar		Day	0.07	₹	310.00	₹	21.70
	TOTAL						₹	2,416.93
	Add for sundries & cont	ingencies	@	3%			₹	73.00
	Total Add for electricity charg	06	@	0.5%			₹	2,489.93 12.45
	Add for electricity charg	63	<u>w</u>	0.5%			₹	2,502.38
	Add GST (multiplying fac	ctor)		0.1405			₹	351.58 2,853.96
	Add 15% for contractor's overheads	profit and	@	15%			₹	428.09
	A -1-1			4.0/			₹	3,282.05
	Add cess Cost of 36 cudm.		@	1%			₹ ₹	32.82 3,314.87
	Cost per cum.						₹	92,079.72
	Say						₹	92,079.70
8.1 8.1.3	Providing wood work in wrought framed and fixe Local Teak Wood		s, windov	ws, cleresto	ory w	indows and	d oth	ner frames,
Code	Description		Unit	Quantity		Rate		Amount
	Details of cost for Chowle	khat of a door						
	206	.75 × 117.5 cm						
	Materials	70 77 777.0 0111						
	Local Teak Wood 2x206.75x9.5x7.0cm	= 0.028						
	cum.+ 1x117.5x9.5x7.0cm	= 0.008						
	cum.	= 0.036						
	cum.+							
	Add for wastage @ 5%	= 0.002 cum.						
	Grand Total cum.	= 0.038						
08290	Local Teak Wood wood		10 cudm	38.00	₹	520.00	₹	1,976.00
			Jaarii					

cum

Day

Day

0.72

0.07

₹

Karai wood

0473 Carriage of timber

0208 Carpenter (average)

Labour:

TOTAL

0203 Beldar

21.70 2,302.93

302.40

0.038 ₹ 74.50 ₹ 2.83

420.00 ₹

310.00 ₹

₹

A 1 1 6 11 0 11 1		0.07	_	40.00
Add for sundries & contingencies	@	3%	₹	69.09
Total			₹	2,372.02
Add for electricity charges	@	0.5%	₹	11.86
			₹	2,383.88
Add GST (multiplying factor)		0.1405	₹	334.94
			₹	2,718.82
Add 15% for contractor's profit and overheads	@	15%	₹	407.82
			₹	3,126.64
Add cess	@	1%	₹	31.27
Cost of 36 cudm.			₹	3,157.91
Cost per cum.			₹	87,719.72
Say			₹	87,719.70

8.2 Extra for additional labour for circular works, such as in frames of fan light:

8.2.1 Sal Wood

Code Description Unit Quantity Rate Amount

Details of cost for Chowkhat of a door

206.75 × 117.5 cm

Extra Materials and labour for wastage @ 10% on quantity of item no 8.1.1

Materials:

08288 0473 0208	Sal wood Carriage of material (timber) Labour: Carpenter (avg.)	10 cudm cum	3.80 0.0038 0.072	₹₹	670.00 74.50 420.00	₹₹	254.60 0.28 30.24
0203	Beldar	Day	0.007	₹	310.00	₹	2.17
0203	TOTAL	Day	0.007		310.00	₹	287.29
	Add for sundries & contingencies	@	3%			₹	8.62
	Total					₹	295.91
	Add for electricity charges	@	0.5%			₹	1.48
						₹	297.39
	Add GST (multiplying factor)		0.1405			₹	41.78
						₹	339.17
	Add 15% for contractor's profit and overheads	@	15%			₹	50.88
						₹	390.05
	Add cess	@	1%			₹	3.90
	Cost of 36 cudm.					₹	393.95
	Cost per cum.					₹	10,943.06
	Say					₹	10,943.06

8.2 Extra for additional labour for circular works, such as in frames of fan light:

8.2.2 Karai wood

Code Description Unit Quantity Rate Amount

Details of cost for Chowkhat of a door

206.75 × 117.5 cm

Extra Materials and labour for wastage @ 10% on quantity of item no 8.1.2

	Materials :						
08289	Karai Wood	10 cudm	3.80	₹	550.00	₹	209.00
0473	Carriage of material (timber) Labour:	cum	0.0038	₹	74.50	₹	0.28
0208	Carpenter (avg.)	Day	0.072	₹	420.00	₹	30.24
0203	Beldar	Day	0.007	₹	310.00	₹	2.17
	TOTAL					₹	241.69
	Add for sundries & contingencies	@	3%			₹	7.25
	Total					₹	248.94
	Add for electricity charges	@	0.5%			₹	1.24
						₹	250.18
	Add GST (multiplying factor)		0.1405			₹	35.15
						₹	285.33
	Add 15% for contractor's profit and overheads	@	15%			₹	42.80
						₹	328.13
	Add cess	@	1%			₹	3.28
	Cost of 36 cudm.					₹	331.41
	Cost per cum.					₹	9,205.83
	Say					₹	9,205.80

8.2 Extra for additional labour for circular works, such as in frames of fan light:

8.2.3 Local Teak Wood

	Description	Unit	Quantity		Rate		Amount	
	Details of cost for Chowkhat of a door							
	206.75 x 117.5 cm							
	Extra Materials and labour for wastage @ 10% on quantity of item no 8.1.3							
	Materials :							
08290	Local Teak Wood	10 cudm	3.80	₹	520.00	₹	197.60	
0473	Carriage of timber Labour:	cum	0.0038	₹	74.50	₹	0.28	
0208 0203	Carpenter (avg.) Beldar TOTAL	Day Day	0.072 0.007	₹	420.00 310.00	₹ ₹	30.24 2.17 230.29	
	Add for sundries & contingencies	@	3%			₹	6.91	
	Total Add for electricity charges	@	0.5%			₹ ₹	237.20 1.19 238.39	
	Add GST (multiplying factor)		0.1405			₹	33.49 271.88	
	Add 15% for contractor's profit and overheads	@	15%			₹	40.78	
	Add cess Cost of 36 cudm. Cost per cum. Say	@	1%			₹ ₹ ₹ ₹	312.66 3.13 315.79 8,771.94 8,771.94	

Providing laminated veneer lumber conforming to IS: 14616 and TAD -15: 2001(Part B) in factory made frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position as per directions of Engineer-in-charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for Chowkhat of a door 206.75x117.5cm Materials Laminated veneer lumber including wastage @5% 2x206.75x9.5x7.0cm = 0.028 cum.+ 1x117.50x9.5x7.0cm = 0.008 cum. = 0.036 cum.+ Add for wastage @ 5% = 0.002 cum. Grand Total = 0.038 cum.						
08195	Laminated veneer lumber	10	38.00	₹	700.00	₹	2,660.00
0473	Carriage of timber Labour:	cudm cum	0.038	₹	74.50	₹	2.83
0209 0210 0203	Carpenter Ist Class Carpenter IInd Class Beldar TOTAL	Day Day Day	0.20 0.20 0.20	₹ ₹	440.00 395.00 310.00	₹ ₹ ₹	88.00 79.00 62.00 2,891.83
	Add for sundries & contingencies	@	3%			₹	86.75
	Total Add for electricity charges	@	0.5%			₹ ₹	2,978.58 14.89 2,993.47
	Add GST (multiplying factor)		0.1405			₹	420.58 3,414.05
	Add 15% for contractor's profit and overheads	@	15%			₹	512.11
	Add cess Cost of 36 cudm. Cost per cum.	@	1%			₹	3,926.16 39.26 3,965.42 1,10,150.56 1,10,150.56 1,10,150.56
	-						
8.4	Providing wood work in frames of false:	e ceiling,	partitions e	tc. sa	wn and pu	ıt u	p in position
8.4.1	Sal wood						
Code	Description Details of cost for ceiling for a room 3x3m Materials: Salwood 6x3.30x(50/1000)x(125/1000) = 0.1238 cum. + Cross battens 60mm centre to center 38x50mm. 6x3x(38/1000)x(50/1000) = 0.0342 cum. + 0.0079 cum.	Unit	Quantity		Rate		Amount
	= 0.1659 cum.						

	Say cudm.	166					
08288	Salwood	10	166.00	₹	670.00	₹	11,122.00
0473	Carriage of timber Labour:	cudm cum	0.166	₹	74.50	₹	12.37
0210 0203	Carpenter II nd Class Beldar TOTAL	Day Day	1.00 1.00	₹	395.00 310.00	₹ ₹	395.00 310.00 11,839.37
	Add for sundries & contingencies	@	3%			₹	355.18
	Total Add for electricity charges	@	0.5%			₹ ₹	12,194.55 60.97 12,255.52
	Add GST (multiplying factor)		0.1405			₹	1,721.90 13,977.42
	Add 15% for contractor's profit and overheads	d @	15%			₹	2,096.61 16,074.03
	Add cess Cost of 158 cudm. Cost per cum. Say	@	1%			₹ ₹ ₹	16,074.03 160.74 16,234.77 1,02,751.71 1,02,751.70
8.4	Providing wood work in frames of :	false ceiling,	partitions	etc. s	awn and pu	ut u	p in position
8.4.2	Karai Wood						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for ceiling for a room 3x3m Materials: Karai Wood 6x3.30x(50/1000)x(125/1000) 0.1238 cum. + Cross battens 60mm centre to cent 38x50mm. 6x3x(38/1000)x(50/1000) 0.0342 cum. 0.1580 cum.+) =					
	Add for wastage @ 5% 0.0079 cum.	=					
	0.1659 cum. Say 166 cudm.	=					
08289	Karai Wood	10 cudm	166.00	₹	550.00	₹	9,130.00
0473	Carriage of timber Labour:	cum	0.166	₹	74.50	₹	12.37
0210 0203	Carpenter II nd Class Beldar TOTAL	Day Day	1.00 1.00	₹	395.00 310.00	₹ ₹	395.00 310.00 9,847.37
	Add for sundries & contingencies	@	3%			₹	295.42
	Total Add for electricity charges	@	0.5%			₹ ₹	10,142.79 50.71 10,193.50
	Add GST (multiplying factor)		0.1405			₹ ₹	1,432.19 11,625.69

	Add 15% for contractor's profit and overheads	@	15%			₹	1,743.85
	Add cess Cost of 158 cudm. Cost per cum. Say	@	1%			₹ ₹ ₹ ₹	13,369.54 133.70 13,503.24 85,463.54 85,463.54
8.4	Providing wood work in frames of fals	e ceiling,	partitions e	tc. s	awn and pu	ut up	o in position
8.4.3	Local Teak Wood						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for ceiling for a room 3x3m Materials: Local Teak Wood	=					
	0.1450 gum						
	0.1659 cum. Say 166 cudm.						
08290	Local Teak Wood	10	166.00	₹	520.00	₹	8,632.00
0473	Carriage of timber Labour:	cudm cum	0.166	₹	74.50	₹	12.37
0210 0203	Carpenter II nd Class Beldar TOTAL	Day Day	1.00 1.00	₹	395.00 310.00	₹ ₹	395.00 310.00 9,349.37
	Add for sundries & contingencies	@	3%			₹	280.48
	Total Add for electricity charges	@	0.5%			₹ ₹	9,629.85 48.15 9,678.00
	Add GST (multiplying factor)		0.1405			₹ ₹	1,359.76 11,037.76
	Add 15% for contractor's profit and overheads	@	15%			₹	1,655.66
	Add cess Cost of 158 cudm. Cost per cum. Say	@	1%			₹ ₹ ₹	12,693.42 126.93 12,820.35 81,141.46 81,141.50
8.4	Providing wood work in frames of fals	e ceiling,	partitions e	tc. s	awn and pu	ut up	o in position
8.4.4	: Other Wood (Jam, Garjan, Chamal)						
Code	Description	Unit	Quantity		Rate		Amount
3040	Details of cost for ceiling for a room 3x3m Materials:	Sint	Lucitory				
	Other Wood (Jam, Garjan, Chamal)						

	6x3.30x(50/1000)x(125/1000) = 0.1238 cum. + Cross battens 60mm centre to center 38x50mm. 6x3x(38/1000)x(50/1000) = 0.0342 cum.						
	0.1580 cum.+ Add for wastage @ 5% = 0.0079 cum.						
	0.1659 cum. Say						
	166 cudm.						
08281	Other Wood (Jam, Garjan, Chamal)	10 cudm	166.00	₹	285.00	₹	4,731.00
0473	Carriage of timber Labour:	cum	0.166	₹	74.50	₹	12.37
0210	Carpenter II nd Class	Day	1.00	₹	395.00	₹	395.00
0203	Beldar TOTAL	Day	1.00	₹	310.00	₹	310.00 5,448.37
	Add for sundries & contingencies	@	3%			₹	163.45
	Total Add for electricity charges	@	0.5%			₹	5,611.82 28.06
	Add GST (multiplying factor)		0.1405			₹ ₹	5,639.88 792.40 6,432.28
	Add 15% for contractor's profit and overheads	@	15%			₹	964.84
	Add cess Cost of 158 cudm. Cost per cum. Say	@	1%			₹ ₹ ₹	7,397.12 73.97 7,471.09 47,285.38 47,285.40
8.4	Providing wood work in frames of false:	e ceiling,	partitions e	etc. sa	awn and pu	ıt up	o in position
8.4.5	Soft Wood						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for ceiling for a room 3x3m Materials: Soft Wood 6x3.30x(50/1000)x(125/1000) = 0.1238 cum. + Cross battens 60mm centre to center 38x50mm. 6x3x(38/1000)x(50/1000) = 0.0342 cum. = 0.1580 cum.+ Add for wastage @ 5% = 0.0079 cum. = 0.1659 cum. Say						
00000	166 cudm.	10	1// 00	-	250.00	-	4.150.00
08282 0473	Soft Wood Carriage of timber	cudm	166.00	₹	250.00	₹	4,150.00
	Carriage of timber	cum	0.166	₹	74.50	₹	12.37

	Labour:						
0210	Carpenter II nd Class	Day	1.00	₹	395.00	₹	395.00
0203	Beldar	Day	1.00	₹	310.00	₹	310.00
	TOTAL	_				₹	4,867.37
	Add for sundries & contingencies	@	3%			₹	146.02
	Total					₹	5,013.39
	Add for electricity charges	@	0.5%			₹	25.07
						₹	5,038.46
	Add GST (multiplying factor)		0.1405			₹	707.90
						₹	5,746.36
	Add 15% for contractor's profit and overheads	@	15%			₹	861.95
						₹	6,608.31
	Add cess	@	1%			₹	66.08
	Cost of 158 cudm.					₹	6,674.39
	Cost per cum.					₹	42,242.97
	Say					₹	42,242.97

Providing and fixing panelled / or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked bright finished / black enamelled M.S butt hinges with necessary screws excluding panelling and or glazing, which will be paid for separately but including the wooden beading of 20 × 12 mm for fixing panelling and or glazing as per direction of Engineer-In-Charge.

8.5.1 Local Teak wood 8.5.1.1 35 mm thick shutters

hinges-100x58x1.90 mm

8.5.1.1	35 mm thick shutters						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for shutters of a Door						
	(I/3rd glazed and 2/3rd panelled) 200 \times 108 cm						
	2.16 sqm Materials: Local Teak wood Styles 4×200×10.0×3.5cm = 0.028cum+ Rails: Top rails = 0.004cum.+ Bottom rails = 0.008cum+ Lock rails 0.006cum+ Beadings 0.001cum. Total 0.047 cum+ Add for wastage @ 10% 0.005cum Grand Total = 2.16 sqm 4×200×10.0×3.5cm = 1.×110.5×10.0×3.5cm = 1.×110.5×20×3.5cm = 2.×186.1×1.9×1.2cm = 0.005cum						
00000	0.051 cum.	10	F4 00	_	400.00	_	0.4.40.00
08280	Local Teak wood	cudm	51.00	₹	420.00	₹	2,142.00
0473	Carriage of timber	cum	0.051	₹	74.50	₹	3.80
08061	Black enemelled M.S. Butt	10 Nos	6.00	₹	90.00	₹	54.00

08063	Black enemelled M.S. Butt	10 Nos	2.00	₹	68.00	₹	13.60
	hinges-50x37xI.5mm						
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0208 0203	Labour: Carpenter (average) Beldar TOTAL	Day Day	1.83 0.76	₹	420.00 310.00	₹₹	768.60 235.60 3,250.40
	Add for sundries & contingencies	@	3%			₹	97.51
	Total Add for electricity charges	@	0.5%			₹ ₹	3,347.91 16.74 3,364.65
	Add GST (multiplying factor)		0.1405			₹	472.73 3,837.38
	Add 15% for contractor's profit and overheads	@	15%			₹	575.61
	Add cess	@	1%			₹ ₹	4,412.99 44.13
	Cost of 2.16 sqm. Cost per Sqm Say					₹ ₹	4,457.12 2,063.48 2,063.50

Providing and fixing panelled / or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked bright finished / black enamelled M.S butt hinges with necessary screws excluding panelling and or glazing, which will be paid for separately but including the wooden beading of 20 × 12 mm for fixing panelling and or glazing as per direction of Engineer-In-Charge.

8.5.1 Local Teak Wood

8.5.1.2 30 mm thick shutters

Code Description Unit Quantity Rate Amount

Details of cost for shutters of a Door

(I/3rd glazed and 2/3rd panelled) 200

× 108 cm

= 2.16 sqm Materials:

Local Teak wood

Styles

4×200×10.0×3.0cm =

0.024 cum+

Rails:

Top rails $1 \times 110.5 \times 9.5 \times 3.0$ cm =

0.003 cum.+

Bottom rails $1 \times 110.5 \times 19.7 \times 3.0$ cm =

0.007 cum+

Lock rails $1 \times 110.5 \times 15 \times 3.0$ cm =

0.005 cum+

Beadings $2 \times 186.1 \times 1.9 \times 1.2 \text{cm} =$

0.001 cum.

Total

0.040 cum+ Add for wastage @ 10%

0.004 cum

Grand Total

orana rotar

0.044 cum.

		10					
08280	Local Teak wood	cudm	44.00	₹	420.00	₹	1,848.00
0473	Carriage of timber	cum	0.044	₹	74.50	₹	3.28
08061	Bright finished or black enamelled mild steel	10 Nos	6.00	₹	90.00	₹	54.00
08063	butt hinges - 100×58×1.90 mm Bright finished or black enamelled mild steel butthinges - 50×37×I.50 mm	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0208 0203	Labour: Carpenter (avg) Beldar TOTAL	Day Day	1.83 0.76	₹	420.00 310.00	₹ ₹	768.60 235.60 2,955.88
	Add for sundries & contingencies	@	3%			₹	88.68
	Total Add for electricity charges	@	0.5%			₹ ₹	3,044.56 15.22 3,059.78
	Add GST (multiplying factor)		0.1405			₹ ₹	429.90 3,489.68
	Add 15% for contractor's profit and overheads	@	15%			₹	523.45
	Add cess Cost of 2.16 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	4,013.13 40.13 4,053.26 1,876.51 1,876.50

Providing and fixing panelled / or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked bright finished / black enamelled M.S butt

8.5 hinges with necessary screws excluding panelling and or glazing, which will be paid for separately but including the wooden beading of 20 × 12 mm for fixing panelling and or glazing as per direction of Engineer-In-Charge.

8.5.2 Gamair Wood

8.5.2.1 35 mm thick shutters

Code Description Unit Quantity Rate Amount

Details of cost for shutters of a Door

(I/3rd glazed and 2/3rd panelled) 200

× 108 cm

2.16 sqm Materials: Gamair Wood Styles

 $4 \times 200 \times 10.0 \times 3.5$ cm =

0.028 cum+ Rails:

Top rails $1 \times 110.5 \times 10.0 \times 3.5$ cm =

0.004 cum.+

Bottom rails $1 \times 110.5 \times 20 \times 3.5$ cm =

0.008 cum+

Lock rails $1 \times 110.5 \times 15 \times 3.5$ cm =

0.006 cum+

	Beadings 0.001 cum. Total 0.047 cum+ Add for wastage 0.005 cum Grand Total 0.051 cum.	2×186.1×1.9×1.2cm = = = = = = = = ==						
08283	Gamair Wood		10	51.00	₹	480.00	₹	2,448.00
0473	Carriage of timb	er	cudm cum	0.051	₹	74.50	₹	3.80
08061	Black enamelled	M.S. Butt	10 Nos.	6.00	₹	90.00	₹	54.00
	hinges-100x58xI	.9mm						
08063	Black enamelled		10 Nos.	2.00	₹	68.00	₹	13.60
	hinges-50x37xl .							
08066	M.S. Screws 40m		100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20m	m	100 Nos	8.00	₹	32.00	₹	2.56
0208 0203	Labour: Carpenter (Avg.) Beldar TOTAL		Day Day	1.83 0.76	₹	420.00 310.00	₹ ₹	768.60 235.60 3,556.40
	Add for sundrie	s & contingencies	@	3%			₹	106.69
	Total Add for electrici	ty charges	@	0.5%			₹ ₹	3,663.09 18.32
	Add GST (multip	lying factor)		0.1405			₹ ₹	3,681.41 517.24 4,198.65
	Add 15% for con overheads	tractor's profit and	@	15%			₹	629.80
	Add cess Cost of 2.16 sqm Cost of 1 sqm. Say Providing and fix	n. king panelled / or pane	@ elled and (1% glazed shu	ıtters	for doors,	₹ ₹ ₹ ₹ wind	4,828.45 48.28 4,876.73 2,257.75 2,257.80 ows and
8.5 8.5.2	clerestory windo hinges with nece separately but in glazing as per di Gamair Wood	ws including ISI mark essary screws excluding acluding the wooden be rection of Engineer-In-	ed bright g panelling eading of	finished / g and or g	black lazing	c enamelled g, which wi	d M.S ill be	butt paid for
8.5.2.2	30 mm thick shu	ıtters						
Code	Description		Unit	Quantity		Rate	,	Amount
	Details of cost for	or shutters of a Door						
	(I/3rd glazed and x 108 cm	d 2/3rd panelled) 200						
	= 2.16 sqm Materials: Gamair wood Styles							
	0.024 cum+	4×200×10.0×3.0cm =						
	Rails:	1×110 5×9 5×3 0cm						

Top rails $1 \times 110.5 \times 9.5 \times 3.0$ cm

= 0.003 cum.+

	Bottom rails = 0.007 cum+ Lock rails 0.005 cum+ Beadings 0.001 cum. Total 0.040 cum+ Add for wastage 0.004 cum Grand Total 0.044 cum.	1×110.5×19.7×3.0cm 1×110.5×15×3.0cm 2×186.1×1.9×1.2cm = = = @ 10% =	=					
08283	Gamair Wood		10 cudm	44.00	₹	480.00	₹	2,112.00
0473	Carriage of timb	er	cum	0.044	₹	74.50	₹	3.28
08061	Black enemelled	M.S. Butt	10 Nos.	6.00	₹	90.00	₹	54.00
	hinges-100x58xl	I.9mm						
08063	Black enemelled	M.S. Butt	10 Nos.	2.00	₹	68.00	₹	13.60
	hinges-50x37xI.	5mm						
08066	M.S. Screws 40m	ım	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20m	ım	100 Nos	8.00	₹	32.00	₹	2.56
0208 0203	Labour: Carpenter (Avg.) Beldar TOTAL		Day Day	1.83 0.76	₹	420.00 310.00	₹ ₹	768.60 235.60 3,219.88
	Add for sundrie	es & contingencies	@	3%			₹	96.60
	Total Add for electrici		@	0.5%			₹ ₹	3,316.48 16.58 3,333.06
	Add GST (multip	olying factor)		0.1405			₹	468.29 3,801.35
	Add 15% for coroverheads	ntractor's profit and	@	15%			₹	570.20
	Add cess Cost of 2.16 sqn Cost of 1 sqm. Say	n.	@	1%			₹₹₹₹	4,371.55 43.72 4,415.27 2,044.11 2,044.10

Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for paneled or paneled and glazed shutters 25 to 40 mm thick.

8.6.1 Local Teak Wood 16 mm thick

Code Description Unit Quantity Rate Amount Details of cost for shutters of a door with 2/3rd panelling 200 \times 108 cm = 2.16 sqm. Panel area $4 \times 45.10 \times 36.55$ cm

= 0.67 sqm. Materials:

Panels $4\times47.2\times38.65\times1.6$ cm

= 0.0117 cum+

	Add for wastage @ 10% 0.0012 cum.	=					
	Total 0.0129 cum.	=					
08280	Local Teak wood	10	12.90	₹	420.00	₹	541.80
0473	Carriage of timber Labour:	cudm cum	0.0129	₹	74.50	₹	0.96
0209	Carpenter 1st class TOTAL	Day	0.57	₹	440.00	₹ ₹	250.80 793.56
	Add for sundries & contingencies	@	3%			₹	23.81
	Total Add for electricity charges	@	0.5%			₹ ₹	817.37 4.09 821.46
	Add GST (multiplying factor)		0.1405			₹	115.42 936.88
	Add 15% for contractor's profit and overheads	@	15%			₹	140.53
		_				₹	1,077.41
	Add cess Cost of 0.67 sqm.	@	1%			₹ ₹	10.77 1,088.18
	Cost of 1 sqm. Say					₹	1,624.15 1,624.20
8.6.2 Code	Gamair Wood 16 mm Thick Description	Unit	Quantity		Rate		Amount
Code	Description	Ullit	Qualitity		Rate		Amount
	Details of cost for shutters of a door						
	2/3rd panelling cm = 2.16 sqm. Panel area $4 \times 45.10 \times 36.55$ cm = 0.67 sqm. Materials: Gamair Wood	m					
	Panels $4 \times 47.2 \times 38.65 \times 1.6 \text{ cm}$ = 0.0117 cum+	n					
	Add for wastage @ 10% 0.0012 cum. Total	=					
08283	0.0129 cum.	10				-	
0473	Gamair Wood		12.90	₹	480.00	₹	619.20
0209	Gamair Wood Carriage of timber	cudm	12.90 0.0129	₹	480.00 74.50	₹	619.20 0.96
	Gamair Wood	cudm					
	Gamair Wood Carriage of timber Labour & sundries Carpenter 1 st class	cudm cum	0.0129	₹	74.50	₹	0.96 250.80
	Gamair Wood Carriage of timber Labour & sundries Carpenter 1 st class TOTAL	cudm cum Day	0.0129	₹	74.50	₹ ₹	0.96 250.80 870.96

Add 15% for contractor's profit and overheads	@	15%	₹	154.24
			₹	1,182.49
Add cess	@	1%	₹	11.82
Cost of 0.67 sqm.			₹	1,194.31
Cost of 1 sqm.			₹	1,782.55
Say			₹	1,782.60

Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for paneled or paneled and glazed shutters 25 to 40 mm thick.

8.6.3 Ply wood 5 ply, 9 mm thick:

8.6.3.1 Decorative plywood both side decorative veneer (Type -1) conforming to IS 1328 BWR type.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for shutters of a door with 2/3rd panelling 200 × 108 cm = 2.16 sqm. Panel area 4 × 45.10 × 36.55 cm = 0.67 sqm. Materials: Plywood (9mm thick) 4×47.2×38.65 cm = 0.73 sqm+ Add for wastage @ 10% = 0.07 sqm. Total = =						
	0.80 sqm.						
08163	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	0.80	₹	890.00	₹	712.00
0473	Carriage of Plywood	Cum	0.0072	₹	74.50	₹	0.54
	Labour:						
0209	Carpenter 1 st class TOTAL	Day	0.57	₹	440.00	₹	250.80 963.34
	Add for sundries & contingencies	@	3%			₹	28.90
	Total Add for electricity charges	@	0.5%			₹	992.24 4.96
	Add GST (multiplying factor)		0.1405			₹ ₹	997.20 140.11 1,137.31
	Add 15% for contractor's profit and overheads	@	15%			₹	170.60
	Add cess Cost of 0.67 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	1,307.91 13.08 1,320.99 1,971.63 1,971.60

Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for paneled or paneled and glazed shutters 25 to 40 mm thick.

8.6.3 Ply wood 5 ply, 9 mm thick:

8.6.3.2 Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for shutters of a door with 2/3rd panelling 200 × 108				
	cm = 2.16 sqm.				
	Panel area $4 \times 45.10 \times 36.55$ cm = 0.67 sqm.				
	Materials: Plywood (9mm thick)				
	$4 \times 47.2 \times 38.65$ cm = 0.73 sqm+				
	Add for wastage @ 10% =				
	0.07 sqm. Total =				
	0.80 sqm.				
08164	Ply wood 5 ply with teak ply on one face and commercial ply on another	sqm	0.80	₹ 880.00	₹ 704.00
0473	Carriage of Plywood Labour:	Cum	0.0072	₹ 74.50	₹ 0.54
0209	Carpenter 1 st class TOTAL	Day	0.57	₹ 440.00	₹ 250.80 ₹ 955.34
	Add for sundries & contingencies	@	3%		₹ 28.66
	Total				₹ 984.00
	Add for electricity charges	@	0.5%		₹ 4.92 ₹ 988.92
	Add GST (multiplying factor)		0.1405		₹ 138.94 ₹ 1,127.86
	Add 15% for contractor's profit and overheads	@	15%		₹ 169.18
	Add cess	@	1%		₹ 1,297.04 ₹ 12.97
	Cost of 0.67 sqm.	w.	1 /0		₹ 1,310.01
Say	Cost of 1 sqm.				₹ 1,955.24 ₹ 1,955.20
Say					1,733.20
8.6	Providing and fixing panelling or panel shutters for doors, windows and cleres excluding portion inside grooves or rel paneled and glazed shutters 25 to 40 m	tory wind ates to b	dows (Area e measured	of opening for	panel inserts
8.6.4	Ply wood 7 ply, 9 mm thick:				
8.6.4.1	Decorative plywood both side decorative	/e veneer	(Type -1) c	onforming to IS	S 1328 BWR type.
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for shutters of a door with				
	2/3rd panelling 200 × 108				
	cm = 2.16 sqm. Panel area $4 \times 45.10 \times 36.55$ cm				
	= 0.67 sqm.				
	Materials: Plywood (9mm thick)				
	4×47.2×38.65 cm				
	= 0.73 sqm+ Add for wastage @ 10% =				
	0.07 sqm.				

Total 0.80 sqm.

08284	Ply wood 7 ply with teak ply on both faces 9 mm thick	sqm	0.80	₹	720.00	₹	576.00
0473	Carriage of Plywood Labour:	Cim	0.0072	₹	74.50	₹	0.54
0209	Carpenter 1 st class TOTAL	Day	0.57	₹	440.00	₹	250.80 827.34
	Add for sundries & contingencies	@	3%			₹	24.82
	Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and	@	0.5% 0.1405 15%			₹₹₹₹₹	852.16 4.26 856.42 120.33 976.75
	Add cess	@	1%			₹	1,123.26 11.23
Say	Cost of 0.67 sqm. Cost of 1 sqm.					₹ ₹	1,134.49 1,693.27 1,693.30

8.6 Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for paneled or paneled and glazed shutters 25 to 40 mm thick.

8.6.4 Ply wood 7 ply, 9 mm thick:

Code Description

8.6.4.2 Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type

Unit Quantity

Rate

Amount

Code	Description	Offit	Quaritity		Nato		7 tillouitt
	Details of cost for shutters of a door with						
	$2/3$ rd panelling 200×108 cm = 2.16 sqm.						
	Panel area $4 \times 45.10 \times 36.55$ cm = 0.67 sqm. Materials:						
	Plywood (9mm thick)						
	4×47.2×38.65 cm						
	= 0.73 sqm +						
	Add for wastage @ 10% =						
	0.07 sqm.						
	Total =						
	0.80 sqm.						
08165	Ply wood 7 ply with teak ply on both faces 9 mm thick	sqm	0.80	₹	950.00	₹	760.00
0473	Carriage of Plywood	Cum	0.0072	₹	74.50	₹	0.54
	Labour:						
0209	Carpenter 1 st class	Day	0.57	₹	440.00	₹	250.80
0207	TOTAL	Zuj	3.37			₹	1,011.34
	Add for sundries & contingencies	@	3%			₹	30.34
	Total					₹	1,041.68
	Add for electricity charges	@	0.5%			₹	5.21
	Add for electricity charges	e e	0.5%			₹	1,046.89
	Add GST (multiplying factor)		0.1405			₹	147.09
	Add G51 (multiplying factor)		0.1405			₹	1,193.98
	Add 15% for contractor's profit and						1,193.90
	Add 15% for contractor's profit and	@	15%			₹	179.10
	overheads					x	1 272 00
						₹	1,373.08

Say	Add cess Cost of 0.67 sqm. Cost of 1 sqm.	@	1%		₹ ₹ ₹	13.73 1,386.81 2,069.87 2,069.90
8.6	Providing and fixing panelling or panel shutters for doors, windows and clerest excluding portion inside grooves or repaneled and glazed shutters 25 to 40 in	story wind bates to b	dows (Area do e measured	of opening for	panel i	nserts
8.6.5	Particle Board 12 mm thick					
8.6.5.1	Plain particle board flat pressed, 3 layer Grade I, IS: 3087 marked.	er or grad	ed wood pa	rticle board me	edium (density
Code	Description	Unit	Quantity	Rate	A	mount
	Details of cost for shutters of a door with $2/3$ rd panelling 200×108 cm = 2.16 sqm. Panel area $4 \times 45.10 \times 36.55$ cm = 0.67 sqm. Materials: Partical Board	n				
	4×47.2×38.65 cm					
	= 0.73 sqm+ Add for wastage @ 10% 0.07 sqm. Total	=				
	0.80 sqm.					
08002 0473	Particle board 12mm thick Carriage of Plywood Labour:	sqm Cum	0.80 0.0096	₹ 342.00 ₹ 74.50	₹	273.60 0.72
0209	Carpenter 1st class TOTAL	Day	0.57	₹ 440.00	₹	250.80 525.12
	Add for sundries & contingencies	@	3%		₹	15.75
	Total				₹	540.87
	Add for electricity charges	@	0.5%		₹	2.70 543.57
	Add GST (multiplying factor)		0.1405		₹	76.37
	Add 15% for contractor's profit and				₹	619.94
	Add 15% for contractor's profit and overheads	@	15%		₹	92.99
	Add cess	@	1%		₹	712.93 7.13
	Cost of 0.67 sqm.	e	1 70		₹	720.06
	Cost of 1 sqm.				₹	1,074.72
	Say				₹	1,074.70
8.6	Providing and fixing panelling or panel shutters for doors, windows and cleres excluding portion inside grooves or re paneled and glazed shutters 25 to 40 i	story wind bates to b	dows (Area does measured	of opening for	panel i	nserts
8.6.5	Particle Board 12 mm thick					
8.6.5.2	Veneered flat pressed three layer or gr veneering on both sides conforming to			oard with com	mercia	I
Code	Description	Unit	Quantity	Rate	Α	mount
	Details of cost for shutters of a door with $2/3$ rd panelling 200×108					
	cm = 2.16 sqm.					

	Panel area $4 \times 45.10 \times 36.55$ cm = 0.67 sqm. Materials: Particle Board 12 mm thick $4 \times 47.2 \times 38.65$ cm = 0.73 sqm+ Add for wastage @ 10% =						
	0.07 sqm. =						
	0.80 sqm.						
08214	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	0.80	₹	500.00	₹	400.00
0473	Carriage of Plywood Labour:	Cum	0.0096	₹	74.50	₹	0.72
0209	Carpenter 1st class TOTAL	Day	0.57	₹	440.00	₹ ₹	250.80 651.52
	Add for sundries & contingencies	@	3%			₹	19.55
	Total Add for electricity charges	@	0.5%			₹ ₹	671.07 3.36
	Add GST (multiplying factor)		0.1405			₹ ₹	674.43 94.76 769.19
	Add 15% for contractor's profit and overheads	@	15%			₹	115.38
	Add cess Cost of 0.67 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	884.57 8.85 893.42 1,333.46 1,333.50
8.6 8.6.5 8.6.5.3	Providing and fixing panelling or panell shutters for doors, windows and clerest excluding portion inside grooves or reb paneled and glazed shutters 25 to 40 m Particle Board 12 mm thick Prelaminated particle board with decord lamination on other side, Grade I, Type	tory win ates to nm thick ative lar	ndows (Area be measured k. mination on	of op d). Pa one s	pening for pelling for	pane pane	l inserts eled or
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for shutters of a door with 2/3rd panelling 200 \times 108 cm = 2.16 sqm. Panel area $4 \times 45.10 \times 36.55$ cm = 0.67 sqm. Materials: Partical Board $4 \times 47.2 \times 38.65$ cm = 0.73 sqm+ Add for wastage @ 10% = 0.07 sqm. Total = 0.80 sqm. Prelaminated particle board with one						
08215	side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS: 12823 (exterior grade)12 mm thick	sqm	0.80	₹	700.00	₹	560.00

0473	Carriage of Plywood Labour:	Cum	0.0096	₹	74.50	₹	0.72
0209	Carpenter 1st class	Day	0.57	₹	440.00	₹	250.80
	TOTAL					₹	811.52
	Add for sundries & contingencies	@	3%			₹	24.35
	Total					₹	835.87
	Add for electricity charges	@	0.5%			₹	4.18
						₹	840.05
	Add GST (multiplying factor)		0.1405			₹	118.03
						₹	958.08
	Add 15% for contractor's profit and overheads	@	15%			₹	143.71
						₹	1,101.79
	Add cess	@	1%			₹	11.02
	Cost of 0.67 sqm.					₹	1,112.81
	Cost of 1 sqm.					₹	1,660.90
	Say					₹	1,660.90

Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for paneled or paneled and glazed shutters 25 to 40 mm thick.

8.6.5 Particle Board 12 mm thick

8.6.5.4 Prelaminated particle board with decorative lamination on both sides, Grade I, Type II, IS: 12823 marked.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for shutters of a door with						
	$2/3$ rd panelling 200×108 cm = 2.16 sqm.						
	Panel area $4 \times 45.10 \times 36.55$ cm = 0.67 sqm.						
	Materials: Partical Board						
	4×47.2×38.65 cm						
	= 0.73 sqm+						
	Add for wastage @ 10% =						
	0.07 sqm.						
	Total = 0.80 sqm.						
	Prelaminated particle board with both						
	sides decorative lamination, flat						
08218	pressed 3 layer & graded (medium	cam	0.80	₹	810.00	₹	648.00
06216	density) Grade I, Type II conforming to	sqm	0.80	<	810.00	•	046.00
	IS: 12823 (exterior grade)12 mm thick						
0473	Carriage of Plywood	Cum	0.0096	₹	74.50	₹	0.72
0209	Labour:	Dov	0.57	₹	440.00	₹	250.80
0209	Carpenter 1st class TOTAL	Day	0.57	<	440.00	₹	899.52
			00/				
	Add for sundries & contingencies	@	3%			₹	26.99
	Total					₹	926.51
	Add for electricity charges	@	0.5%			₹	4.63
	Add CCT (moultiplying footon)		0.1405			₹	931.14
	Add GST (multiplying factor)		0.1405			₹	130.82 1,061.96
	Add 15% for contractor's profit and						
	overheads	@	15%			₹	159.29

	Add cess Cost of 0.67 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	1,221.25 12.21 1,233.46 1,840.98 1,841.00
8.7	Providing and fixing glazed shutters for mm thick float glass (weight not less to marked MS butt hinges with necessary	han 10ks/					
8.7.1 8.7.1.1	Local Teak wood 35 mm thick						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for shutter of a door (glazed)						
	200×108cm = 2.16 sqm Materials : (i) Teak wood Styles :						
	4×200×9.5×3.5cm = 0.027 cum Rails : Top & intermediate rails						
	2×110.5×9.5×3.5cm = 0.008 cum Lock and bottom rails						
	2×110.5×19.7×3.5cm = 0.015 cum Beadings: Total = 0.053 cum Add for wastage @ 10% = 0.005 cum Grand Total = 0.058 cum						
08280	Local Teak wood	10 cudm	58.00	₹	420.00	₹	2,436.00
08146	(ii) Float glasses 4.0mm thick	sqm	1.27	₹	400.00	₹	508.00
08061	(iii) Black enamelled M.S. butt	10 Nos	6.00	₹	90.00	₹	54.00
	hinges-100x58x1.90mm						
08063	Black enamelled M.S. butt	10 Nos	2.00	₹	68.00	₹	13.60
	hinges-50x37xI .50mm						
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0473	Carriage of Timber Labour:	cum	0.058	₹	74.50	₹	4.32
0208 0217 0203	Carpenter (Avg.) Glazier Beldar TOTAL	Day Day Day	1.83 0.23 0.77	₹ ₹	420.00 440.00 310.00	₹ ₹ ₹	768.60 101.20 238.70 4,157.22
	Add for sundries & contingencies	@	3%			₹	124.72
	Total Add for electricity charges	@	0.5%			₹	4,281.94 21.41
	Add GST (multiplying factor)		0.1405			₹	4,303.35 604.62

						₹	4,907.97
	Add 15% for contractor's profit and overheads	@	15%			₹	736.20
	Add cess Cost of 2.16 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹ ₹	5,644.17 56.44 5,700.61 2,639.17 2,639.20
8.7	Providing and fixing glazed shutters fo mm thick float glass (weight not less the marked MS butt hinges with necessary	nan 10ks/					
8.7.1 8.7.1.2	Local Teak wood 30 mm thick						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for shutter of a door (glazed)						
	200×108 cm = 2.16 sqm Materials: (i) Teak wood Styles:						
08280	Local Teak wood	10 cudm	50.00	₹	420.00	₹	2,100.00
08146	(ii) Float glasses 4.0mm thick	sqm	1.27	₹	400.00	₹	508.00
08061	(iii) Black enamelled M.S. butt	10 Nos	6.00	₹	90.00	₹	54.00
	hinges-100x58x1.90mm						
08063	Black enamelled M.S. butt	10 Nos	2.00	₹	68.00	₹	13.60
	hinges-50x3 7x 1.50mm						
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0473	Carriage of timber	cum	0.05	₹	74.50	₹	3.73
0208 0217 0203	Labour: Carpenter (Avg.) Glazier Beldar	Day Day Day	1.83 0.23 0.77	₹ ₹	420.00 440.00 310.00	₹ ₹	768.60 101.20 238.70

	TOTAL					₹	3,820.63
	Add for sundries & contingencies	@	3%			₹	114.62
	Total					₹	3,935.25
	Add for electricity charges	@	0.5%			₹	19.68 3,954.93
	Add GST (multiplying factor)		0.1405			₹	555.67
	Add 15% for contractor's profit and					₹	4,510.60
	overheads	@	15%			₹	676.59
	Add cess	<u>@</u>	1%			₹	5,187.19 51.87
	Cost of 2.16 sqm.	C	170			₹	5,239.06
	Cost of 1 sqm. Say					₹ ₹	2,425.49 2,425.50
	Say						2,423.30
8.7	Providing and fixing glazed shutters for mm thick float glass (weight not less the marked MS butt hinges with necessary	nan 10ks/			•		_
8.7.2 8.7.2.1	Gamair Wood 35 mm thick						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for shutter of a door						
	(glazed) 200×108						
	Materials: (i) Gamair Styles: Rails: Top & intermediate rails Lock and bottom rails Beadings: Total = 0.053 cum Add for wastage @ 10% = 0.005 cum Grand Total = 0.058 cum						
08283	Gamair Wood	10 cudm	58.00	₹	480.00	₹	2,784.00
08146 08061	Float glassess 4.0 mm thick Black enamelled M.S. Butt hinges-	sqm	1.27	₹	400.00	₹	508.00
	100x58x1.90mm	10 Nos	6.00	₹	90.00	₹	54.00
	Black enamelled M.S. Butt hinges-						
08063	50x37x 1.50mm	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0473 0	Carriage of timber Labour:	cum	0.058	₹	74.50	₹	4.32
0208	Carpenter (Avg.)	Day	1.83	₹	420.00	₹	768.60
0217 0203	Glazier Beldar	Day Day	0.23 0.77	₹ ₹	440.00 310.00	₹ ₹	101.20 238.70
0203	TOTAL	Day	0.77		310.00	₹	4,505.22
	Add for sundries & contingencies	@	3%			₹	135.16
	Total					₹	4,640.38

	Add for electricity charges	@	0.5%			₹	23.20
	Add GST (multiplying factor)		0.1405			₹	4,663.58 655.23
	Add 15% for contractor's profit and	@	15%			₹	5,318.81 797.82
	overheads	w	15%			₹	6,116.63
	Add cess Cost of 2.16 sqm.	@	1%			₹	61.17 6,177.80
	Cost of 1 sqm.					₹	2,860.09
	Say					₹	2,860.10
8.7	Providing and fixing glazed shutters for mm thick float glass (weight not less the marked MS butt hinges with necessary	nan 10ks/					
8.7.2 8.7.2.2	Gamair Wood 30 mm thick	3010003.					
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for shutter of a door		3				
	(glazed) 200×108						
	cm = 2.16 sqm						
	Materials : (i) Gamair wood						
	Styles: 4×200×9.5×3.0 cm						
	= 0.023 cum + Rails						
	Top & intermediate rails 2×110.5×9.5×3.0 cm						
	= 0.006 cum+ Lock and bottom rails						
	2×110.5×19.7×3.0 cm						
	= 0.013 cum+						
	Beadings- 2×186.1×1.9×1.2 cm						
	= 0.001 cum+ $4 \times 171.70 \times 1.9 \times 1.2$						
	cm = 0.002 cum						
	Total = 0.045 cum+						
	Add for wastage @ 10% = 0.005 cum						
	Grand Total						
00000	= 0.050 cum	10	F0.00	-	400.00	•	2 400 00
08283 08146	Gamair Wood Float glassess 4.0 mm thick	cudm	50.00 1.27	₹	480.00 400.00	₹	2,400.00 508.00
08061	Black enamelled M.S. Butt hinges-	sqm 10 Nos		₹	90.00	₹	54.00
00001	100x58x1.90mm	10 1103	0.00		70.00		34.00
08063	Black enamelled M.S. Butt hinges-	10 Nos	2.00	₹	68.00	₹	13.60
	50x37x 1.50mm						
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0473	Carriage of timber Labour:	cum	0.05	₹	74.50	₹	3.73

0208	Carpenter (Avg.)	Day	1.83	₹	420.00	₹	768.60
0217	Glazier	Day	0.23	₹	440.00	₹	101.20
0203	Beldar	Day	0.77	₹	310.00	₹	238.70
	TOTAL					₹	4,120.63
	Add for sundries & contingencies	@	3%			₹	123.62
	Total					₹	4,244.25
	Add for electricity charges	@	0.5%			₹	21.22
						₹	4,265.47
	Add GST (multiplying factor)		0.1405			₹	599.30
						₹	4,864.77
	Add 15% for contractor's profit and overheads	@	15%			₹	729.72
						₹	5,594.49
	Add cess	@	1%			₹	55.94
	Cost of 2.16 sqm.					₹	5,650.43
	Cost of 1 sqm.					₹	2,615.94
	Say					₹	2,615.90

Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS 14616 and TADS 15:2001 (Part B), using 4mm thick float glass panes for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws as per direction of Engineer-in-charge.

8.8.1 30 mm thick shutters

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost of one shutter $220 \times 108 \text{ cm} = 2.38 \text{ sqm}.$						
	Materials:						
08192	Factory, made shutters glazed laminated veneer lumber door shutter	sqm	2.38	₹	1,620.00	₹	3,855.60
0473	Carriage of shutters Fittings:	Cum	0.0714	₹	74.50	₹	5.32
08061	Black enamelled M.S. Butt hinges-	10 Nos	6.00	₹	90.00	₹	54.00
	100x58x1.90mm						
08063	Black enamelled M.S. Butt hinges-	10 Nos	2.00	₹	68.00	₹	13.60
	50x37x 1.50mm						
08066	M.S. Screws-40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws-20mm	100 Nos	8.00	₹	32.00	₹	2.56
	Labour:	_					
0208 0203	Carpenter (Avg.) Beldar	Day Day	0.52 0.60	₹ ₹	420.00 310.00	₹	218.40 186.00
0203	TOTAL	Day	0.00		310.00	₹	4,365.72
	Add for sundries & contingencies	@	3%			₹	130.97
	Total					₹	4,496.69
	Add for electricity charges	@	0.5%			₹	22.48 4,519.17
	Add GST (multiplying factor)		0.1405			₹	634.94
						₹	5,154.11
	Add 15% for contractor's profit and overheads	@	15%			₹	773.12
			4.07			₹	5,927.23
	Add cess Cost of 2.38 sqm.	@	1%			₹	59.27 5,986.50
	Cost of 1 sqm.					₹	2,515.34

Say ₹ 2,515.30

Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, window and clereslory window shutters (Area of opening of glass panes excluding portion inside rebate shall be measured)

8.9.1	5.5mm	thick	instead	of 4	1mm	thick.
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Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one sqm. Materials:						
08147	Glasse Panes of 13.75 kg per sqm.	sqm	1.00	₹	550.00	₹	550.00
08146	Deduct panels of 10 kg per sqm. Net Cost	sqm	1.00	₹	400.00	₹ ₹	400.00 150.00
	Add for sundries & contingencies	@	3%			₹	4.50
	Total Add for electricity charges	@	0.5%			₹	154.50 0.77
	Add GST (multiplying factor)		0.1405			₹ ₹	155.27 21.82 177.09
	Add 15% for contractor's profit and overheads	@	15%			₹	26.56
	Add cess Cost of 1 sqm.	@	1%			₹ ₹ ₹	203.65 2.04 205.69
	Say					₹	205.70

Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).

Description	Unit	Quantity		Rate		Amount
Cost for 1 sqm. Materials:						
Froasted glass panes (4.0mm)	sqm	1.00	₹	460.00	₹	460.00
Deduct cost of ordinary glass panes (4.0mm thick)	sqm	1.00	₹	400.00	₹	400.00
Net Cost					₹	60.00
Add for sundries & contingencies	@	3%			₹	1.80
Total					₹	61.80
Add for electricity charges	@	0.5%			₹	0.31
					₹	62.11
Add GST (multiplying factor)		0.1405			₹	8.73
					₹	70.84
Add 15% for contractor's profit and overheads	@	15%			₹	10.63
					₹	81.47
Add cess	@	1%			₹	0.81
Cost of 1 sqm.					₹	82.28
Say					₹	82.30
	Cost for 1 sqm. Materials: Froasted glass panes (4.0mm) Deduct cost of ordinary glass panes (4.0mm thick) Net Cost Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 1 sqm.	Cost for 1 sqm. Materials: Froasted glass panes (4.0mm) Deduct cost of ordinary glass panes (4.0mm thick) Net Cost Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 1 sqm.	Cost for 1 sqm. Materials: Froasted glass panes (4.0mm) Deduct cost of ordinary glass panes (4.0mm thick) Net Cost Add for sundries & contingencies Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 1 sqm.	Cost for 1 sqm. Materials: Froasted glass panes (4.0mm) Deduct cost of ordinary glass panes (4.0mm thick) Net Cost Add for sundries & contingencies Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 1 sqm.	Cost for 1 sqm. Materials: Froasted glass panes (4.0mm) Deduct cost of ordinary glass panes (4.0mm thick) Net Cost Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 1 sqm.	Cost for 1 sqm. Materials: Froasted glass panes (4.0mm)

Deduct for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory windows, shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).

Code	Description	Unit	Quantity		Rate		Amount
	Cost for 1 sqm. Materials:						
08213	Pin headed glass panes (4.0 mm)	sqm	1.00	₹	380.00	₹	380.00

08146	Deduct cost of ordinary glass panes (4.0 mm thick) Net Cost	sqm	1.00	₹	400.00	₹	400.00
	Add for sundries & contingencies	@	3%			₹	0.60
	Total Add for electricity charges	@	0.5%			₹	20.60
	Add GST (multiplying factor)		0.1405			₹ ₹	20.70
	Add 15% for contractor's profit and overheads	@	15%			₹	23.61 3.54
	Add cess Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	27.15 0.27 27.42 27.40
8.12	Extra for providing ISI marked Stainless		•			enar	nelled M.S.
	butt hinges with necessary screws. (Shu			sured	•		
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one door shutter of a door						
	$200 \times 108 \text{ cm} = 2.16 \text{ sqm}.$ Stainless steel butt hinges-						
08248	100 × 60 × 2.5 mm	10 Nos	6.00	₹	260.00	₹	156.00
08246	50 × 37 × 1.5 mm	10 Nos	2.00	₹	140.00	₹	28.00
08240	Stainless steel screws 40 mm	100 Nos	48.00	₹	215.00	₹	103.20
08242	Stainless steel screws 20 mm	100 Nos	8.00	₹	125.00	₹	10.00
	Deduct Black enameled butt hinges						
08061	100 × 58 × 1.90 mm	10 Nos	6.00	₹	90.00	₹	-54.00
08063	50 × 37 × 1.50 mm	10 Nos	2.00	₹	68.00	₹	-13.60
	Black enameled Iron						
08066	Screws-40mm	100 Nos	48.00	₹	63.00	₹	-30.24
08069	Screws-20mm	100 Nos	8.00	₹	32.00	₹	-2.56
	TOTAL					₹	196.80
	Add for sundries & contingencies	@	3%			₹	5.90
	Total Add for electricity charges	@	0.5%			₹ ₹	202.70
	Add GST (multiplying factor)		0.1405			₹	203.71 28.62
	Add 15% for contractor's profit and overheads	@	15%			₹	232.33 34.85
						₹	267.18
	Add cess Cost of 2.16 sqm.	@	1%			₹	2.67 269.85
	Cost of 1 sqm. Say					₹ ₹	124.93 124.93

Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS: 14616 and TADS 15:2001 (Part B) including ISI marked black enamelled M.S. butt hinges with necessary screws as per directions of Engineer-in-charge and panelling with panels of:

12mm thick plain grade - 1, medium density flat pressed three layer particle board FPT - I 8.13.1 or graded wood particle board FPT - I, IS : 3087 marked bonded with BWP type synthetic resin adhesive as per IS : 848 :

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost of one shutter $220 \times 108 \text{ cm} = 2.38 \text{ sqm}.$						
	Materials: Factory made shutters LVL syles, rails and panels						
08189	Plain particle board	sqm	2.38	₹	1,620.00	₹	3,855.60
0473	Carriage of shutters Fittings:	Cum	0.0833	₹	74.50	₹	6.21
08061	Black enamelled M.S. Butt hinges- 100 \times 58 \times 1.9 mm	10 Nos	6.00	₹	90.00	₹	54.00
08063	Black enamelled M.S. Butt hinges - 50 \times 37 \times 1.5	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0208 0203	Labour: Carpenter Average Beldar TOTAL	Day Day	0.52 0.60	₹	420.00 310.00	₹ ₹	218.40 186.00 4,366.61
	Add for sundries & contingencies	@	3%			₹	131.00
	Total Add for electricity charges	@	0.5%			₹ ₹	4,497.61 22.49 4,520.10
	Add GST (multiplying factor)		0.1405			₹	635.07 5,155.17
	Add 15% for contractor's profit and overheads	@	15%			₹	773.28
	Add cess	@	1%			₹	5,928.45 59.28
	Extra cost of 2.38 sqm. of shutter area					₹	5,987.73
	Extra cost of 1 sqm. of shutter area					₹	2,515.85
	Say					₹	2,515.90

Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS: 14616 and TADS 15:2001 (Part B) including ISI marked black enamelled M.S. butt hinges with necessary screws as per directions of Engineer-in-charge and panelling with panels of:

8.13.2 12 mm thick prelaminated (with particle board decorative lamination on both sides) grade - 1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT - 1, conforming to IS: 3087 bonded with BWP type synthetic resin adhesive as per IS:848 and prelamination confirming to IS: 12823 Grade 1, Type - II marked:

Code Description Unit Quantity Rate Amount

Details of cost of one shutter

 $220 \times 108 \text{ cm} = 2.38 \text{ sqm}.$

Materials:

	Factory made shutters LVL styles, rails and panels						
08190 0473	Plain particle board Carriage of shutters	sqm Cum	2.38 0.0833	₹	1,720.00 74.50	₹	4,093.60 6.21
	Fittings:						
08061	Black enamelled M.S. Butt hinges- 100 × 58 × 1.9 mm	10 Nos	6.00	₹	90.00	₹	54.00
08063	Black enamelled M.S. Butt hinges - $50 \times 37 \times 1.5$ mm	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0208 0203	Labour: Carpenter Average Beldar TOTAL	Day Day	0.52 0.60	₹	420.00 310.00	₹ ₹	218.40 186.00 4,604.61
	Add for sundries & contingencies	@	3%			₹	138.14
	Total Add for electricity charges	@	0.5%			₹ ₹	4,742.75 23.71 4,766.46
	Add GST (multiplying factor)		0.1405			₹	669.69 5,436.15
	Add 15% for contractor's profit and overheads	@	15%			₹	815.42
	Add cess Cost of 2.38 sqm. Cost of 1 sqm.	@	1%			₹₹₹₹	6,251.57 62.52 6,314.09 2,652.98
	Say					₹	2,653.00

Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS: 14616 and TADS 15:2001 (Part B) including ISI marked black enamelled M.S. butt hinges with necessary screws as per directions of Engineer-in-charge and panelling with panels of:

12 mm thick one side prelaminated (with particle board decorative lamination on other sides) and balancing lamination grade - 1 medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS: 3087 bonded with BWP type synthetic resin adhesive as per IS: 848 and prelamination conforming to IS: 12823 Grade - 1, Type II marked:

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost of one shutter 220xl08cm = 2.38sqm. Materials: Factory made shutters LVL syles, rails						
08191	and panels Plain particle board	sgm	2.38	₹	1,910.00	₹	4,545.80
0473	Carriage of shutters Fittings:	Cum	0.0833	₹	74.50	₹	6.21
08061	Black enamelled M.S. Butt hinges- 100 × 58 × 1.9 mm	10 Nos	6.00	₹	90.00	₹	54.00
08063	Black enamelled M.S. Butt hinges - 50 \times 37 \times 1.5 mm	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
	Labour:						

0203 Beldar TOTAL Nos Day 0.60 ₹ 310.00 ₹ 5,056.81 Add for sundries & contingencies @ 3% ₹ 151.70
Add for sundries & contingencies @ 3% ₹ 151.70
Total ₹ 5,208.51
Add for electricity charges @ 0.5% ₹ 26.04
₹ 5,234.55
Add GST (multiplying factor) 0.1405 ₹ 735.45
₹ 5,970.00
Add 15% for contractor's profit and overheads @ 15% ₹ 895.50
₹ 6,865.50
Add cess @ 1% ₹ 68.66
Cost of 2.38 sqm. ₹ 6,934.16
Cost of 1 sqm. ₹ 2,913.51
Say ₹ 2,913.50

8.14 Providing and fixing 25 mm thick shutters for cup board etc. :

8.14.1 Panelled or panelled & glazed shutters :

8.14.1.1 Local teak wood including ISI marked anodised aluminium butt hinges with necessary screws.

	301 0 1 3 5						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for shutters of a cupboard (half glazed and half panelled) 200×108 cm = 2.16 sqm. Materials: Styles- $4 \times 200 \times 8.0 \times 2.5$ cm = 0.016 cum+ Rails-Top rail- $1 \times 110.5 \times 8.0 \times 2.5$ cm = 0.0022 cum+ Lock and bottom rail- $2 \times 110.5 \times 8.0 \times 2.5$ cm = 0.0044 cum.+ Panels- $2 \times 48 \times 41 \times 1.6$ cm = 0.006 cum+ Sash bars- $2 \times 114 \times 3.8 \times 2.5$ cm = 0.003 cum+ $6 \times 48 \times 3.8 \times 2.5$ cm = 0.003 cum+ Beading- $16 \times 92 \times 1.4 \times 1.2$ cm = 0.002 cum Total = 0.0366 cum Add for wastage @ 10% = 0.0037 cum. Grand Total = 0.0403 cum or 40 cudm						
08280	Local Teak Wood- scantling	10 cudm	40.00	₹	420.00	₹	1,680.00
0473	Carriage of timber	cum	0.04	₹	74.50	₹	2.98
08146	Float glasses 4.0mm thick	sqm	0.99	₹	400.00	₹	396.00
	Fittings-	•					
08112	Anodised aluminium butt hinges- 75×45×3.2 mm	10 Nos	6.00	₹	210.00	₹	126.00
08053	C.P. brass screws 40mm	100 Nos	48.00	₹	305.00	₹	146.40
0209	Labour- Carpenter 1st class	Day	2.40	₹	440.00	₹	1,056.00

0217 0203	Glazier Beldar TOTAL	Day Day	0.18 0.77	₹	440.00 310.00	₹ ₹	79.20 238.70 3,725.28
	Add for sundries & contingencies	@	3%			₹	111.76
	Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and	@	0.5% 0.1405 15%			₹₹₹₹₹	3,837.04 19.19 3,856.23 541.80 4,398.03 659.70
	overheads	C	1370			` ₹	5,057.73
	Add cess Cost of 2.16 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	50.58 5,108.31 2,364.96 2,365.00

8.14 Providing and fixing 25 mm thick shutters for cup board etc. :

8.14.1 Glazed shutters:

8.14.1.2 Local teak wood including ISI marked anodised aluminium butt hinge with necessary screws.

Code Description Unit Quantity Rate Amount

Details of cost for shutter of cup-board

 200×108 cm = 2.16 sqm.

Materials:

Local Teak Wood- scantling

Styles: $4 \times 200 \times 9.5 \times 2.5$

cm = 0.019 cum

Rails

Top & intermediate rails

 $2 \times 110.5 \times 9.5 \times 2.5 \text{ cm} = 0.006 \text{ cum}$

Lock and bottom rails

 $2 \times 110.5 \times 19.7 \times 2.5 \text{ cm} = 0.011 \text{ cum}$

Beadings-

 $2 \times 186.1 \times 1.9 \times 1.2 \text{ cm} = 0.001 \text{ cum} +$

 $4 \times 171.70 \times 1.9 \times 1.2 \text{ cm} = 0.002 \text{ cum}.$

Total = 0.039 cum.

Add for wastage @ 10% = 0.004 cum.

Grand Total = 0.043 cum = 43 cudm

08280	Local Teak Wood- scantling	10 cudm	43.00	₹	420.00	₹	1,806.00
08146	(ii) Glasses (10kg/sqm) 4.0mm thick	sqm	1.27	₹	400.00	₹	508.00
08064	(iii) Piano hinges 75×45×3.2 mm	metre	0.60	₹	42.00	₹	25.20
08068	(iv)M.S. screws 25 mm	100 Nos	48.00	₹	38.00	₹	18.24
0473	(v) Carriage of timber Labour:	cum	0.043	₹	74.50	₹	3.20
0208	Carpenter (Avg.)	Day	1.83	₹	420.00	₹	768.60
0217	Glazier	Day	0.23	₹	440.00	₹	101.20
0203	Beldar	Day	0.77	₹	310.00	₹	238.70
	TOTAL					₹	3,469.14

Add for sundries & contingencies	@	3%	₹	104.07
Total			₹	3,573.21
Add for electricity charges	@	0.5%	₹	17.87
			₹	3,591.08
Add GST (multiplying factor)		0.1405	₹	504.55
			₹	4,095.63
Add 15% for contractor's profit and overheads	@	15%	₹	614.34
			₹	4,709.97
Add cess	@	1%	₹	47.10
Cost of 2.16 sqm.			₹	4,757.07
Cost of 1 sqm.			₹	2,202.35
Say			₹	2,202.40

Providing and fixing flat pressed 3 layer particle board medium density exterior grade 8.15 (Grade I) or graded wood particle board IS: 3087 marked to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately):

8.15.1 12 mm thick

Code	Description		Unit	Quantity		Rate		Amount
	Details of cost for cm = 7.00 sqm. Materials- 12mm thick particle boar = 7.00 sqm.+ Add wastage @ 5% = 0.35 sqm.	350 × 200 d						
08002	Total = 7.35 sqm.		sqm	7.35	₹	342.00	₹	2,513.70
0473	Carriage of particle board Labour-		Cum	0.0882	₹	74.50	₹	6.57
0210 0203	Carpenter 2nd class Beldar TOTAL		Day Day	0.90 1.00	₹	395.00 310.00	₹ ₹	355.50 310.00 3,185.77
	Add for sundries & conti	ngencies	@	3%			₹	95.57
	Total Add for electricity charge Add GST (multiplying fact		@	0.5%			₹₹₹₹	3,281.34 16.41 3,297.75 463.33 3,761.08
	Add 15% for contractor's overheads	profit and	@	15%			₹	564.16
	Add cess Cost of 7 sqm. Cost of 1 sqm. Say		@	1%			₹ ₹ ₹ ₹	4,325.24 43.25 4,368.49 624.07 624.10

Providing and fixing flat pressed 3 layer particle board medium density exterior grade 8.15 (Grade I) or graded wood particle board IS: 3087 marked to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately):

8.15.2 18 mm thick

Code Description Unit Quantity Rate Amount

Details of cost for 350×200

cm = 7.00 sqm. Materials-

	12mm thick particle board = 7.00 sqm.+ Add wastage @ 5% = 0.35 sqm.						
08182	Total = 7.35 sqm.	sqm	7.35	₹	480.00	₹	3,528.00
0473	Carriage of particle board Labour-	Cum	0.1323	₹	74.50	₹	9.86
0210	Carpenter 2nd class	Day	0.90	₹	395.00	₹	355.50
0203	Beldar	Day	1.00	₹	310.00	₹	310.00
	TOTAL					₹	4,203.36
	Add for sundries & contingencies	@	3%			₹	126.10
	Total					₹	4,329.46
	Add for electricity charges	@	0.5%			₹	21.65
						₹	4,351.11
	Add GST (multiplying factor)		0.1405			₹	611.33
						₹	4,962.44
	Add 15% for contractor's profit and overheads	@	15%			₹	744.37
						₹	5,706.81
	Add cess	@	1%			₹	57.07
	Cost of 7 sqm.					₹	5,763.88
	Cost of 1 sqm.					₹	823.41
	Say					₹	823.40

Providing and fixing prelaminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS: 3087 marked with one side decorative and other side balancing lamination Grade I,Type II exterior grade IS: 12823 marked in shelves with screws and fittings wherever required, edges to be painted with polyurethene primer (fittings to be paid separately)

8.16.1 18mm thick

Description	Unit	Quantity		Rate		Amount
Details of cost for 4 nos 75× 20 cm shelves = 0.60 sqm Materials- 18mm thick particle board = 4×75×20 cm = 0.60 sqm.+ Wastage @ 5% = 0.03 sqm						
	sqm	0.63	₹	850.00	₹	535.50
Carriage of board Labour-	Cum	0.01134	₹	74.50	₹	0.84
Carpenter 2nd class	Day	0.11	₹	395.00	₹	43.45
Beldar TOTAL	Day	0.06	₹	310.00	₹ ₹	18.60 598.39
Add for sundries & contingencies	@	3%			₹	17.95
Total Add for electricity charges	@	0.5%			₹ ₹ ∌	616.34 3.08 619.42
Add GST (multiplying factor)		0.1405			₹	87.03
Add 15% for contractor's profit and					₹	706.45
overheads	@	15%			₹	105.97
Add cess Cost of 0.60 sqm. Cost per sqm. Say	@	1%			₹ ₹ ₹ ₹	812.42 8.12 820.54 1,367.57 1,367.60
	Details of cost for 4 nos 75× 20 cm shelves = 0.60 sqm Materials- 18mm thick particle board = 4×75×20 cm = 0.60 sqm.+ Wastage @ 5% = 0.03 sqm Total = 0.63 sqm. Carriage of board Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 0.60 sqm. Cost per sqm.	Details of cost for 4 nos 75× 20 cm shelves = 0.60 sqm Materials- 18mm thick particle board = 4×75×20 cm = 0.60 sqm.+ Wastage @ 5% = 0.03 sqm Total	Details of cost for 4 nos 75× 20 cm shelves = 0.60 sqm Materials- 18mm thick particle board = 4×75×20 cm = 0.60 sqm.+ Wastage @ 5% = 0.03 sqm Total	Details of cost for 4 nos 75× 20 cm shelves = 0.60 sqm Materials- 18mm thick particle board = 4×75×20 cm = 0.60 sqm.+ Wastage @ 5% = 0.03 sqm Total	Details of cost for 4 nos 75× 20 cm shelves = 0.60 sqm Materials- 18mm thick particle board = 4×75×20 cm = 0.60 sqm.+ Wastage @ 5% = 0.03 sqm Total	Details of cost for 4 nos 75× 20 cm shelves = 0.60 sqm Materials- 18mm thick particle board = 4×75×20 cm = 0.60 sqm.+ Wastage @ 5% = 0.03 sqm Total = 0.63 sqm. Carriage of board Cum 0.01134 ₹ 74.50 ₹ 1.25

Providing and fixing prelaminated flat pressed 3 layer (medium densitly) particle board or graded wood particle board IS: 3087 marked with one side decorative and other side blancing lamination Grade I, Type II exterior grade IS: 12823 marked in shelves with screws and fittings wherever required, edges to be painted with polyurethene primer (fittings to be paid separately).

8.16.2 25 mm thick

Code	Discription	Unit	Quantity		Rate		Amount
	Details of cost for 4 nos 75 × 20 cm shelves = 0.60 sqm Materials- 25mm thick particle board = 4 × 75 × 20 cm = 0.60 sqm.+ Wastage @ 5% = 0.03 sqm						
08217	Total = 0.63 sqm.	sqm	0.63	₹	930.00	₹	585.90
0473	Carriage of board Labour-	Cum	0.01575	₹	74.50	₹	1.17
0210	Carpenter 2nd class	Day	0.11	₹	395.00	₹	43.45
0203	Beldar TOTAL	Day	0.06	₹	310.00	₹	18.60 649.12
	Add for sundries & contingencies	@	3%			₹	19.47
	Total Add for electricity charges	@	0.5%			₹₹	668.59 3.34 671.93
	Add GST (multiplying factor)		0.1405			₹ ₹	94.41 766.34
	Add 15% for contractor's profit and overheads	@	15%			₹	114.95
	Add cess Cost of 0.60 sqm. Cost per sqm. Say	@	1%			₹ ₹ ₹ ₹	881.29 8.81 890.10 1,483.50 1,483.50

8.17 Providing and fixing 25 mm thick shutters for cupboards etc. including ISI marked black enamelled M.S. butt hinges with necessary screws :

8.17.1 Panelled or panelled and glazed

shutters

8.17.1.1 Gamair Wood

Code	Description	Unit Quanti	ity Rate	Amount
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Details of cost for shutters of a cup board (half panelled and half glazed)

 $200 \times 108 \text{ cm} = 2.16 \text{ sqm}.$

Materials-Gamair wood

0.016 = 0.006 cum.

Sash bars

 $(2 \times 1.14 = 2.28) + (6 \times 0.48 = 2.88)$

=5.16 m

 $5.16 \times 0.038 \times 0.025 = 0.005$ cum. Beadings $16 \times 0.92 \times 0.014 \times$ 0.012 = 0.002 cum. Total = 0.036 cum Add wastage @ 10% = 0.004 cumTotal = 0.040 cumSay 40 cudm 10 08283 Gamair Wood 40.00 480.00 ₹ 1,920.00 cudm 0473 Carriage of timber cum 0.04 74.50 ₹ 2.98 08062 Iron hinges- $75 \times 47 \times 1.70$ mm 68.00 ₹ 40.80 10 Nos 6.00 08067 Screws 30mm 47.00 ₹ 22.56 100 Nos 48.00 ₹ 08146 Glasses 10kg/sqm (4.0mm thick) 0.99 ₹ 400.00 ₹ 396.00 sqm Labour-0208 Carpenter (Average) 2.40 ₹ 420.00 ₹ 1,008.00 Dav 0203 Beldar Day 0.77 ₹ 310.00 ₹ 238.70 0217 Glazier Day 0.18 ₹ 440.00 ₹ 79.20 ₹ **TOTAL** 3,708.24 ₹ Add for sundries & contingencies 111.25 3% Total ₹ 3,819,49 @ 0.5% ₹ Add for electricity charges 19.10 ₹ 3,838.59 ₹ Add GST (multiplying factor) 0.1405 539.32 ₹ 4,377.91 Add 15% for contractor's profit and 15% ₹ 656.69 overheads ₹ 5,034.60 Add cess **@** ₹ 1% 50.35 ₹ Cost of 2.16sqm. 5,084.95 ₹ Cost of 1 sqm. 2,354.14 Say ₹ 2,354.10 Providing and fixing 25 mm thick shutters for cupboards etc. including ISI marked black enamelled M.S. butt hinges with necessary screws: 8.17.1 Glazed shutters 8.17.1.2 Gamair Wood Code Description Unit Quantity Rate **Amount** Details of cost for shutter of a door (glazed) $200 \times 108 \text{ cm} = 2.16 \text{ sqm}.$ Materials: (i) Gamair Wood Styles: $4 \times 200 \times 9.5 \times 2.5$ cm = 0.019 cum +Rails Top & intermediate rails $2 \times 110.5 \times 9.5 \times 2.5$ cm = 0.006 cum+ Lock and bottom rails $2 \times 110.5 \times 19.7 \times 2.5$ cm = 0.011cum+ Beadings- $2 \times 186.1 \times 1.9 \times 1.2 \text{ cm} = 0.001 \text{cum} +$

 $4 \times 171.70 \times 1.9 \times 1.2$ cm = 0.002cum.

Total

= 0.039 cum.+

Add for wastage @ 10%

= 0.004 cum.

Grand Total = 0.043 cum.Say 43 cudm

08283	(i) Gamair Wood	10 cudm	43.00	₹	480.00	₹	2,064.00
08146	(ii) Glasses (10 kg/sqm) 4.0mm thick	sqm	1.27	₹	400.00	₹	508.00
08061	(iii) Black enamelled M.S. butt hinges $100 \times 58 \times 1.90 \text{ mm}$	10 Nos	6.00	₹	90.00	₹	54.00
08063	Black enamelled M.S. butt hinges $50 \times 37 \times 1.50 \text{ mm}$	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0473	(iv) Carriage of timber Labour:	cum	0.043	₹	74.50	₹	3.20
0208	Carpenter (Avg.)	Day	1.83	₹	420.00	₹	768.60
0217	Glazier	Day	0.23	₹	440.00	₹	101.20
0203	Beldar TOTAL	Day	0.77	₹	310.00	₹	238.70 3,784.10
	Add for sundries & contingencies	@	3%			₹	113.52
	Total					₹	3,897.62
	Add for electricity charges	@	0.5%			₹	19.49 3,917.11
	Add GST (multiplying factor)		0.1405			₹	550.35
	riad cor (maniprymy ractor)		0.1.100			₹	4,467.46
	Add 15% for contractor's profit and overheads	@	15%			₹	670.12
						₹	5,137.58
	Add cess	@	1%			₹	51.38 F 100.04
	Cost of 2.16 sqm. Cost of 1 sqm.					₹ ₹	5,188.96 2,402.30
	Say					₹	2,402.30

Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and 8.18 well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.

8.18.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 2.20 sqm. Materials-						
08124	35mm thick door shutters	sqm	2.20	₹	1,890.00	₹	4,158.00
0473	Carriage of door	Cum	0.077	₹	74.50	₹	5.74
08248	Stainless steel butt hinges (heavy weight)	10 Nos	6.00	₹	260.00	₹	156.00
	100 × 60 × 2.5 mm IS : 12817 marked						
08240	Stainless steel screws 40 mm	100 Nos	48.00	₹	215.00	₹	103.20

0208 0203	Labour- For fixing shutter and fittings Carpenter (Average) Beldar	Day Day	0.55 0.55	₹	420.00 310.00	₹	231.00 170.50
0200	TOTAL	Day	0.00		010.00	₹	4,824.44
	Add for sundries & contingencies	@	3%			₹	144.73
	Total					₹	4,969.17
	Add for electricity charges	@	0.5%			₹	24.85
						₹	4,994.02
	Add GST (multiplying factor)		0.1405			₹	701.66
						₹	5,695.68
	Add 15% for contractor's profit and overheads	@	15%			₹	854.35
						₹	6,550.03
	Add cess	@	1%			₹	65.50
	Cost for 2.2 sqm.					₹	6,615.53
	Cost of 1 sqm.					₹	3,007.06
	Say					₹	3,007.10

Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.

8.18.2 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 2.2 sqm. Materials-						
08125	30mm thick door shutters	sqm	2.20	₹	1,680.00	₹	3,696.00
0473	Carriage of door	Cum	0.066	₹	74.50	₹	4.92
08248	Stainless steel butt hinges (heavy weight)	10 Nos	6.00	₹	260.00	₹	156.00
	100×60×2.5 mm IS : 12817 marked						
08240	Stainless steel screws 40 mm	100 Nos	48.00	₹	215.00	₹	103.20
	Labour- For fixing shutter and fittings.						
0208	Carpenter (Average)	Day	0.55	₹	420.00	₹	231.00
0203	Beldar	Day	0.55	₹	310.00	₹	170.50
	TOTAL					₹	4,361.62
	Add for sundries & contingencies	@	3%			₹	130.85
	Total					₹	4,492.47
	Add for electricity charges	@	0.5%			₹	22.46
						₹	4,514.93
	Add GST (multiplying factor)		0.1405			₹	634.35
	A 1145% C					₹	5,149.28
	Add 15% for contractor's profit and overheads	@	15%			₹	772.39
						₹	5,921.67
	Add cess	@	1%			₹	59.22
	Cost for 2.2 sqm.					₹	5,980.89
	Cost of 1 sqm.					₹	2,718.59
	Say					₹	2,718.60

Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.

8.18.3 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S.Piano hinges IS: 3818 marked with necessary screws.

Code	Description	Unit	Quantity		Rate		Amount
08126 0473	Details of cost for 2.2 sqm. Materials- 25mm thick door shutters Carriage of door Fittings-For a door 2.2×1.00m = 2.20 sqm.	sqm Cum	2.20 0.055	₹	1,470.00 74.50	₹	3,234.00 4.10
08064	Nickel plated bright finished M.S. Piano hinges	metre	4.40	₹	42.00	₹	184.80
08068	Screws 25mm	100 Nos	125.00	₹	38.00	₹	47.50
0208 0203	Labour- For fixing shutter and fittings. Carpenter (Average) Beldar TOTAL	Day Day	0.55 0.55	₹	420.00 310.00	₹₹	231.00 170.50 3,871.90
	Add for sundries & contingencies	@	3%			₹	116.16
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5% 0.1405			₹₹₹₹	3,988.06 19.94 4,008.00 563.12 4,571.12
	Add 15% for contractor's profit and overheads	@	15%			₹	685.67
	Add cess Cost for 2.2 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹ ₹	5,256.79 52.57 5,309.36 2,413.35 2,413.40

Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veeners on both faces of shutters.

8.19.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 2.2 sqm. Materials-						
08127	35mm thick door shutters	sqm	2.20	₹	1,000.00	₹	2,200.00
0473	Carriage of door	Cum	0.077	₹	74.50	₹	5.74
	Fittings-For a door 2.2×1.0m = 2.20 sqm.						
08248	Stainless steel butt hinges (heavy	10 Nos	6.00	₹	260.00	₹	156.00
	weight) 100 × 60 × 2.5 mm IS : 12817 marked						
08240	Stainless steel screws 40 mm	100 Nos	48.00	₹	215.00	₹	103.20
	Labour- For fixing shutter and fittings.						
0208	Carpenter (Average)	Day	0.55	₹	420.00	₹	231.00
0203	Beldar	Day	0.55	₹	310.00	₹	170.50
	TOTAL					₹	2,866.44
	Add for sundries & contingencies	@	3%			₹	85.99
	Total					₹	2,952.43

Add for electricity charges	@	0.5%	₹	14.76
			₹	2,967.19
Add GST (multiplying factor)		0.1405	₹	416.89
			₹	3,384.08
Add 15% for contractor's profit and overheads	@	15%	₹	507.61
			₹	3,891.69
Add cess	@	1%	₹	38.92
Cost for 2.2 sqm.			₹	3,930.61
Cost of 1 sqm.			₹	1,786.64
Say			₹	1,786.60

Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veeners on both faces of shutters.

8.19.2 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.

Code	Description	Unit	Quantity		Rate		Amount
08128 0473	Details of cost for 2.2 sqm. Materials- 30mm thick door shutters Carriage of door Fittings-For a door 2.2×1.0m = 2.20	sqm Cum	2.20 0.066	₹	940.00 74.50	₹	2,068.00 4.92
08248	sqm. Stainless steel butt hinges (heavy weight) 100×60×2.5 mm IS: 12817 marked	10 Nos	6.00	₹	260.00	₹	156.00
08240	Stainless steel screws 40 mm	100 Nos	48.00	₹	215.00	₹	103.20
0208 0203	Labour- For fixing shutter and fittings. Carpenter (Average) Beldar TOTAL	Day Day	0.55 0.55	₹	420.00 310.00	₹₹	231.00 170.50 2,733.62
	Add for sundries & contingencies	@	3%			₹	82.01
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5%			₹₹₹₹	2,815.63 14.08 2,829.71 397.57 3,227.28
	Add 15% for contractor's profit and overheads	@	15%			₹	484.09
	Add cess Cost for 2.2 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹ ₹	3,711.37 37.11 3,748.48 1,703.85 1,703.90

Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veeners on both faces of shutters.

8.19.3 25mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.

Code Description Unit Quantity Rate Amount

Details of cost for 2.2 sqm.

Materials-

08129 0473	25mm thick door shutters Carriage of door	sqm Cum	2.20 0.055	₹	930.00 74.50	₹	2,046.00 4.10
	Fittings-For a door 2.2x1.0m = 2.20 sqm.						
08064	Nickel plated bright finished M.S. Piano hinges	metre	4.40	₹	42.00	₹	184.80
08068	Screws 25mm	100 Nos	125.00	₹	38.00	₹	47.50
0208 0203	Labour- For fixing shutter and fittings. Carpenter (Average) Beldar TOTAL	Day Day	0.55 0.55	₹	420.00 310.00	₹₹	231.00 170.50 2,683.90
	Add for sundries & contingencies	@	3%			₹	80.52
	Total Add for electricity charges	@	0.5%			₹ ₹	2,764.42 13.82 2,778.24
	Add GST (multiplying factor)		0.1405			₹	390.34 3,168.58
	Add 15% for contractor's profit and overheads	@	15%			₹	475.29
	Add cess Cost for 2.2 sqm. Cost of 1 sqm. Say	@	1%			₹₹₹₹	3,643.87 36.44 3,680.31 1,672.87 1,672.90
8.20 8.20.1	Extra for Providing and fixing flush doo On one side in item no. 8.19	rs with d	ecorative v	/enee	ering		
	Description	Unit	Quantity		Rate		Amount
08200	Details of cost for 1 sqm. Extra for providing teak veneering on one side instead of commercial veneering TOTAL	sqm	1.00	₹	330.00	₹	330.00
	Add for sundries & contingencies	@	3%			₹	9.90
	Total Add for electricity charges	@	0.5%			` ₹	339.90 1.70
	Add GST (multiplying factor)		0.1405			₹	341.60 47.99
	Add 15% for contractor's profit and overheads	@	15%			₹	389.59 58.44
	Add cess Cost for one sqm. Say	@	1%			₹ ₹ ₹	448.03 4.48 452.51 452.50

Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured) Over item no. 8.18 and 8.19

	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 sqm. of door area						
08130	Door area	sqm of door area.	1.00	₹	310.00	₹	310.00

TOTAL			₹	310.00
Add for sundries & contingencies	@	3%	₹	9.30
Total Add for electricity charges	@	0.5%	₹ ₹	319.30 1.60 320.90
Add GST (multiplying factor)		0.1405	₹	45.09 365.99
Add 15% for contractor's profit and overheads	@	15%	₹	54.90
Add cess Cost for one sqm. of door area Say	@	1%	₹ ₹ ₹	420.89 4.21 425.10 425.10

8.22 Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):

8.22.1 Rectangular or square.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 sqm. of door area						
08131	Rectangular or square per panel door area	sqm of door area	1.00	₹	130.00	₹	130.00
	TOTAL					₹	130.00
	Add for sundries & contingencies	@	3%			₹	3.90
	Total					₹	133.90
	Add for electricity charges	@	0.5%			₹	0.67
						₹	134.57
	Add GST (multiplying factor)		0.1405			₹	18.91
						₹	153.48
	Add 15% for contractor's profit and overheads	@	15%			₹	23.02
						₹	176.50
	Add cess	@	1%			₹	1.77
	Cost for one sqm. of door area					₹	178.27
	Say					₹	178.30

8.22 Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):

8.22.2 Circular.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 sqm. of door area						
08132	Circular panel door area	sqm of door area	1.00	₹	135.00	₹	135.00
	TOTAL					₹	135.00
	Add 1% for water charges					₹	1.35
	TOTAL					₹	136.35
	Add 3% for sundries & contingencies					₹	4.09
	Total					₹	140.44
	Add 15% for contractor's profit and overheads					₹	21.07
	Cost for one sqm. of door area					₹	161.51
	Say					₹	161.50

8.23 Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured).

8.23.1 Decorative type door.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 sqm. of door area						
08133	Decorative type door	sqm of door area	1.00	₹	265.00	₹	265.00
	TOTAL					₹	265.00
	Add for sundries & contingencies	@	3%			₹	7.95
	Total Add for electricity charges	@	0.5%			₹	272.95 1.36
	Add GST (multiplying factor)		0.1405			₹ ₹	274.31 38.54
	Add 15% for contractor's profit and overheads	@	15%			₹	312.85 46.93
	Add cess	@	1%			₹	359.78 3.60
	Cost for one sqm. of door area Say	G	1 /0			₹	363.38 363.40

8.24 Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 sqm. of door area						
08134	Door area	sqm of door area	1.00	₹	75.00	₹	75.00
	TOTAL					₹	75.00
	Add for sundries & contingencies	@	3%			₹	2.25
	Total					₹	77.25
	Add for electricity charges	@	0.5%			₹	0.39
	Add CCT (south states a factor)		0.1.105			₹	77.64
	Add GST (multiplying factor)		0.1405			₹	10.91
	Add 15% for contractor's profit and					₹	88.55
	overheads	@	15%			₹	13.28
						₹	101.83
	Add cess	@	1%			₹	1.02
	Cost for one sqm. of door area					₹	102.85
	Say					₹	102.90

Providing and fixing 35mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4 mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked bright finished or/and black enamelled M.S. butt hinges with necessary screws.

8.25.1 Gamair Wood

Code Description Unit Quantity Rate Rate

Details of cost for door shutters

 2.00×1.08 m = 2.16 sqm.

Materials -

Gamair Wood

	Styles 4 × 200 × 9.5 × 3.5 cm = 0.0266 cum+ Top Rail - 1 × 110.5 × 9.5 × 3.5 cm = 0.0036 cum+ Lock and bottom rail 2 × 110.5 × 19.7 × 3.5 cm = 0.0152 cum.+ Beadings - (2 × 312 + 2 × 150)×(1.2)×(1.2)cm = 0.001 cum. Total 0.0464 cum.+ Add for wastage @ 10% 0.005 cum. Total 0.0514 cum.						
08283	Say Gamair Wood	10	51.40	₹	480.00	₹	2,467.20
	Wire gauge 2 × 160 × 40 cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.	cudm					_,
08173	Wire gauge	sqm	1.41	₹	260.00	₹	366.60
08061	M.S. butt hinges $100 \times 58 \times 1.90$ mm	10 Nos	6.00	₹	90.00	₹	54.00
08063	M.S. butt hinges $50 \times 37 \times 1.50 \text{ mm}$	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. screws 40 mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. screws 20 mm	100 Nos	8.00	₹	32.00	₹	2.56
0473	Carriage of timber Labour-	cum	0.0514	₹	74.50	₹	3.83
0209 0210 0203 0225	Carpenter 1st class Carpenter 2nd class Beldar Mistry TOTAL	Day Day Day Day	1.30 0.90 1.05 0.105	₹₹₹	440.00 395.00 310.00 395.00	₹ ₹ ₹	572.00 355.50 325.50 41.48 4,232.51
	Add for sundries & contingencies	@	3%			₹	126.98
	Total Add for electricity charges	@	0.5%			₹ ₹	4,359.49 21.80 4,381.29
	Add GST (multiplying factor)		0.1405			₹	615.57 4,996.86
	Add 15% for contractor's profit and overheads	@	15%			₹	749.53
	Add cess Cost of 2.16 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹ ₹	5,746.39 57.46 5,803.85 2,686.97 2,687.00

Providing and fixing 35mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked bright finished or/and black enamelled M.S. butt hinges with necessary screws.

^{8.25.2} Local Teak Wood- scantling

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for door shutters						
	$2.00 \times 1.08 \text{m} = 2.16 \text{ sqm}.$ Materials - Local Teak Wood- scantling Styles $4 \times 200 \times 9.5 \times 3.5 \text{ cm} = 0.0266 \text{ cum} + \text{Top Rail} - 1 \times 110.5 \times 9.5 \times 3.5 \text{ cm} = 0.0036 \text{ cum} + \text{Lock and bottom rail}$ $2 \times 110.5 \times 19.7 \times 3.5 \text{ cm} = 0.0152 \text{ cum}. + \text{Beadings} - (2 \times 312 + 2 \times 150) \times (1.2) \times (1.2) \text{cm} = 0.001 \text{ cum}.$						
	Total = 0.0464 cum.+						
	Add for wastage @ 10% = 0.005 cum.						
	Total = 0.0514 cum.						
08280	Say Local Teak Wood- scantling	10	51.40	₹	420.00	₹	2,158.80
0473	Carriage of timber	cudm cum	0.0514	₹	74.50	₹	3.83
	Wire gauge $2 \times 160 \times 40 \text{ cm} = 1.28 \text{ sqm.+}$						
	Add wastage @ 10% = 0.13						
	sqm. Total = 1.41						
08173	sqm. Wire gauge	sqm	1.41	₹	260.00	₹	366.60
08061	M.S. butt hinges 100 × 58 × 1.90 mm	10 Nos	6.00	₹	90.00	₹	54.00
08063	M.S. butt hinges $50 \times 37 \times 1.50 \text{ mm}$	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. screws 40 mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. screws 20 mm	100 Nos	8.00	₹	32.00	₹	2.56
0209	Labour- Carpenter 1st class	Day	1.30	₹	440.00	₹	572.00
0210 0203	Carpenter 2nd class Beldar	Day	0.90 1.05	₹	395.00 310.00	₹ ₹	355.50 325.50
0203	Mistry	Day Day	0.105	₹	395.00	₹	41.48
	TOTAL					₹	3,924.11
	Add for sundries & contingencies	@	3%			₹	117.72
	Total Add for electricity charges	@	0.5%			₹	4,041.83
	Add GST (multiplying factor)		0.1405			₹ ₹	4,062.04 570.72 4,632.76
	Add 15% for contractor's profit and overheads	@	15%			₹	694.91
			10/			₹	5,327.67
	Add cess Cost of 2.16 sqm.	@	1%			₹ ₹	53.28 5,380.95
	Cost of 1 sqm.					₹ ₹	2,491.18 2,491.20
	Say						2,471.20

Providing and fixing 35mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked stainless steel butt hinges with necessary screws.

8.26.1	Gamair Wood						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for door shutters $2.00 \times 1.08 m = 2.16 \text{ sqm.}$ Materials - Gamair Wood Styles $4 \times 200 \times 9.5 \times 3.5 \text{ cm} = 0.0266 \text{ cum+}$ Top Rail - $1 \times 110.5 \times 9.5 \times 3.5 \text{ cm} = 0.0036 \text{ cum+}$ Lock and bottom rail $2 \times 110.5 \times 19.7 \times 3.5 \text{ cm} = 0.0152 \text{ cum.+}$ Beadings - $(2 \times 312 + 2 \times 150) \times (1.2) \times (1.2) \text{cm}$ = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum.						
08283	Say Gamair Wood	10	51.40	₹	480.00	₹	2,467.20
	Wire gauge $2 \times 160 \times 40 \text{ cm} = 1.28$ sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.	cudm					
08173	Wire gauge Stainless Steel butt hinges (heavy	sqm	1.41	₹	260.00	₹	366.60
08248	weight) $100\times60\times2.5~\text{mm IS}:$ 12817 marked	10 Nos	6.00	₹	260.00	₹	156.00
08246	Stainless Steel butt hinges (heavy weight) $50 \times 37 \times 1.5 \text{ mm IS}$: 12817 marked	10 Nos	2.00	₹	140.00	₹	28.00
08240	Stainless steel screws 40 mm	100 Nos	48.00	₹	215.00	₹	103.20
08242	Stainless steel screws 20 mm	100 Nos	8.00	₹	125.00	₹	10.00
0473	Carriage of timber Labour-	cum	0.0514	₹	74.50	₹	3.83
0209 0210 0203 0225	Carpenter 1st class Carpenter 2nd class Beldar Mistry TOTAL	Day Day Day Day	1.30 0.90 1.05 0.105	₹₹₹	440.00 395.00 310.00 395.00	₹₹₹₹	572.00 355.50 325.50 41.48 4,429.31
	Add for sundries & contingencies	@	3%			₹	132.88
	Total Add for electricity charges	@	0.5%			₹ ₹	4,562.19 22.81

			₹	4,585.00
Add GST (multiplying factor)		0.1405	₹	644.19
			₹	5,229.19
Add 15% for contractor's profit and overheads	@	15%	₹	784.38
			₹	6,013.57
Add cess	@	1%	₹	60.14
Cost of 2.16 sqm.			₹	6,073.71
Cost of 1 sqm.			₹	2,811.90
Say			₹	2,811.90

Providing and fixing 35mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked stainless steel butt hinges with necessary screws

8.26.2 Local Teak Wood- scantling

8.26.2	Local Teak Wood- scantling						
Code	Description	Unit	Quantity		Rate		Amount
Code	Details of cost for door shutters $2.00 \times 1.08 \text{m} = 2.16 \text{ sqm}.$ Materials - Local Teak Wood- scantling Styles $4 \times 200 \times 9.5 \times 3.5 \text{ cm} = 0.0266 \text{ cum} + \text{Top Rail} - 1 \times 110.5 \times 9.5 \times 3.5 \text{ cm} = 0.0036 \text{ cum} + \text{Lock and bottom rail}$ $2 \times 110.5 \times 19.7 \times 3.5 \text{ cm} = 0.0152 \text{ cum.} + \text{Beadings} - (2 \times 312 + 2 \times 150) \times (1.2) \times (1.2) \text{ cm}$ $= 0.001 \text{ cum.}$ Total $= 0.0464 \text{ cum.} + \text{Add for wastage @ 10\%}$ $= 0.005 \text{ cum.}$ Total $= 0.0514 \text{ cum.}$ Say		Cuantity		Kate		Amount
	51.4 cudm.	10					
08280	Local Teak Wood- scantling	cudm	51.40	₹	420.00	₹	2,158.80
	Wire gauge $2 \times 160 \times 40 \text{ cm} = 1.28$ sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.						
08173	Wire gauge Stainless Steel butt hinges (heavy	sqm	1.41	₹	260.00	₹	366.60
08248	weight) $100\times60\times2.5 \text{ mm IS}:$	10 Nos	6.00	₹	260.00	₹	156.00
08246	12817 marked Stainless Steel butt hinges (heavy weight) $50 \times 37 \times 1.5 \;\; \text{mm IS}:$ 12817 marked	10 Nos	2.00	₹	140.00	₹	28.00
08240	Stainless steel screws 40 mm	100 Nos	48.00	₹	215.00	₹	103.20

08242	Stainless steel screws 20 mm	100 Nos	8.00	₹	125.00	₹	10.00
0473	Carriage of timber Labour-	cum	0.0514	₹	74.50	₹	3.83
0209	Carpenter 1st class	Day	1.30	₹	440.00	₹	572.00
0210	Carpenter 2nd class	Day	0.90	₹	395.00	₹	355.50
0203	Beldar	Day	1.05	₹	310.00	₹	325.50
0225	Mistry	Day	0.105	₹	395.00	₹	41.48
	TOTAL					₹	4,120.91
	Add for sundries & contingencies	@	3%			₹	123.63
	Total					₹	4,244.54
	Add for electricity charges	@	0.5%			₹	21.22
						₹	4,265.76
	Add GST (multiplying factor)		0.1405			₹	599.34
						₹	4,865.10
	Add 15% for contractor's profit and overheads	@	15%			₹	729.77
						₹	5,594.87
	Add cess	@	1%			₹	55.95
	Cost of 2.16 sqm.					₹	5,650.82
	Cost of 1 sqm.					₹	2,616.12
	Say					₹	2,616.10

Providing and fixing 30mm thick wire gauge shutters using galvanised M.S. wire gauge of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked Stainless Steel butt hinges with necessary screws.

8.27.1 Gamair Wood

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for door shutters $2.00 \times 1.08 \text{ m} = 2.16 \text{ sqm}.$ Materials - Gamair Wood Styles $4 \times 200 \times 9.5 \times 3.0 \text{ cm} = 0.0230 \text{ cum}+$ Top Rail - $1 \times 110.5 \times 9.5 \times 3.0 \text{ cm} = 0.0030 \text{ cum}+$ Lock and bottom rail $2 \times 110.5 \times 19.7 \times 3.0 \text{ cm} = 0.0130 \text{ cum}.+$ Beadings - $(2 \times 312 + 2 \times 150) \times (1.2) \times (1.2) \text{ cm}$ = 0.001 cum. Total = 0.040 cum.+ Add for wastage @ 10% = 0.004 cum. Total = 0.044 cum. Say 44 cudm.						
08283	Gamair Wood	10 cudm	44.00	₹	480.00	₹	2,112.00
0473	Carriage of timber Wire gauge $2 \times 160 \times 40 \text{ cm} = 1.28$ sqm.+ Add wastage @ 10% = 0.13 sqm.	cum	0.044	₹	74.50	₹	3.28

08173	Total = 1.41 sqm. Wire gauge	cam	1.41	₹	260.00	₹	366.60
08249	Stainless steel butt hinges (heavy	sqm 10 Nos	6.00	₹	210.00	₹	126.00
00249	weight)	10 1103	0.00		210.00		120.00
	75 × 50 × 2.5 mm IS : 12817 market	d					
08240	Stainless steel screws 40 mm	100 Nos	48.00	₹	215.00	₹	103.20
	Labour-						
0209	Carpenter 1st class	Day	1.20	₹	440.00	₹	528.00
0210	Carpenter 2nd class	Day	0.80	₹	395.00	₹	316.00
0203 E 0225 M	Beldar	Day	0.95	₹	310.00	₹	294.50
	Mistry	Day	0.08	₹	395.00	₹	31.60
	TOTAL					₹	3,881.18
	Add for sundries & contingencies	@	3%			₹	116.44
	Total					₹	3,997.62
	Add for electricity charges	@	0.5%			₹	19.99
						₹	4,017.61
	Add GST (multiplying factor)		0.1405			₹	564.47
						₹	4,582.08
	Add 15% for contractor's profit and overheads	@	15%			₹	687.31
						₹	5,269.39
	Add cess	@	1%			₹	52.69
	Cost of 2.16 sqm.					₹	5,322.08
	Cost of 1 sqm.					₹	2,463.93
	Say					₹	2,463.90
	Providing and fixing 30mm thick wire	gauge sh	utters usi	ng gal	Ivanised M	.S. w	ire gauge of

8.27 average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked Stainless Steel butt hinges with necessary screws.

8.27.2 Local Teak Wood- scantling

44 cudm.

08280 Local Teak Wood- scantling

Code Description Unit Quantity Rate Rate Details of cost for door shutters $2.00 \times 1.08 \text{ m} = 2.16 \text{ sqm}.$ Materials -Local Teak Wood- scantling Styles $4 \times 200 \times 9.5 \times 3.0 \text{ cm} =$ 0.0230 cum+ Top Rail - $1 \times 110.5 \times 9.5 \times 3.0 \text{ cm} =$ 0.0030 cum+ Lock and bottom rail $2 \times 110.5 \times 19.7 \times 3.0 \text{ cm} =$ 0.0130 cum.+ Beadings - $(2 \times 312 + 2 \times$ 150)×(1.2)×(1.2)cm 0.001 cum. Total 0.040 cum.+ Add for wastage @ 10% 0.004 cum. Total 0.044 cum. Say

10

cudm

44.00 ₹ 420.00 ₹ 1,848.00

0473	Carriage of timber Wire gauge $2 \times 160 \times 40$ cm = 1.28	cum	0.044	₹	74.50	₹	3.28
	sqm.+ Add wastage @ 10% = 0.13						
	sqm.						
	Total = 1.41						
08173	sqm. Wire gauge	sqm	1.41	₹	260.00	₹	366.60
08249	Stainless steel butt hinges (heavy weight)	10 Nos	6.00	₹	210.00	₹	126.00
	75 × 50 × 2.5 mm IS : 12817 marked						
08240	Stainless steel screws 40 mm	100 Nos	48.00	₹	215.00	₹	103.20
	Labour-						
0209	Carpenter 1st class	Day	1.20	₹	440.00	₹	528.00
0210	Carpenter 2nd class	Day	0.80	₹	395.00	₹	316.00
0203	Beldar	Day	0.95	₹	310.00	₹	294.50
0225	Mistry	Day	0.08	₹	395.00	₹	31.60
	TOTAL					₹	3,617.18
	Add for sundries & contingencies	@	3%			₹	108.52
	Total					₹	3,725.70
	Add for electricity charges	@	0.5%			₹	18.63
						₹	3,744.33
	Add GST (multiplying factor)		0.1405			₹	526.08
						₹	4,270.41
	Add 15% for contractor's profit and overheads	@	15%			₹	640.56
						₹	4,910.97
	Add cess	@	1%			₹	49.11
	Cost of 2.16 sqm.					₹	4,960.08
	Cost of 1 sqm.					₹	2,296.33
	Say					₹	2,296.30
	Description and finite a 20mm that the color					C	

Providing and fixing 30mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia 0.63 mm for doors, windows and clerestory windows including ISI marked bright finished or /and black enamelled M.S. butt hinges with necessary screws.

8.28.1 Gamair Wood

Code Description Unit Quantity Rate Rate

Details of cost for door shutters

 $2.00 \times 1.08 \text{ m} = 2.16 \text{ sqm}.$

Materials -

Gamair Wood

Styles $4 \times 200 \times 9.5 \times 3.0 \text{ cm} =$

0.0230 cum+

Top Rail - $1 \times 110.5 \times 9.5 \times 3.0 \text{ cm} =$

0.0030 cum+

Lock and bottom rail

 $2 \times 110.5 \times 19.7 \times 3.0 \text{ cm} =$

0.0130 cum.+

Beadings - $(2 \times 312 + 2 \times$

150)×(1.2)×(1.2)cm

0.001 cum.

Total

0.040 cum.+

Add for wastage @ 10% =

0.004 cum.

	Total = 0.044 cum. Say 44 cudm.						
08283	Gamair Wood	10 cudm	44.00	₹	480.00	₹	2,112.00
0473	Carriage of timber Wire gauge $2 \times 160 \times 40 \text{ cm} = 1.28$ sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.	cum	0.044	₹	74.50	₹	3.28
08173	Wire gauge	sqm	1.41	₹	260.00	₹	366.60
08061	Iron butt hinges 100×58×1.90 mm	10 Nos	6.00	₹	90.00	₹	54.00
08063	Iron butt hinges 50×37×1.50 mm	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. screws 40 mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. screws 20 mm	100 Nos	8.00	₹	32.00	₹	2.56
0209 0210 0203 0225	Labour- Carpenter 1st class Carpenter 2nd class Beldar Mistry TOTAL	Day Day Day Day	1.20 0.80 1.00 0.10	₹₹₹	440.00 395.00 310.00 395.00	₹₹₹	528.00 316.00 310.00 39.50 3,775.78
	Add for sundries & contingencies	@	3%			₹	113.27
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5%			₹ ₹ ₹ ₹	3,889.05 19.45 3,908.50 549.14 4,457.64
	Add 15% for contractor's profit and overheads	@	15%			₹	668.65
	Add cess Cost of 2.16 sqm. Cost of 1 sqm. Say	@	1%		h san ta a d M	₹ ₹ ₹ ₹	5,126.29 51.26 5,177.55 2,397.01 2,397.00
0.20	Providing and fixing 30mm thick wire average width of aperture 1.4mm w						

8.28 Providing and fixing 30mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia 0.63 mm for doors, windows and clerestory windows including ISI marked bright finished or/and black enamelled M.S. butt hinges with necessary screws.

8.28.2 Local Teak Wood- scantling

Code Description Unit Quantity Amount Rate

Details of cost for door shutters

 $2.00 \times 1.08 \text{ m} = 2.16 \text{ sqm}.$

Materials -

Local Teak Wood- scantling

Styles $4 \times 200 \times 9.5 \times 3.0 \text{ cm} =$

0.0230 cum+

Top Rail - $1 \times 110.5 \times 9.5 \times 3.0 \text{ cm} =$

0.0030 cum+

Lock and bottom rail

 $2 \times 110.5 \times 19.7 \times 3.0 \text{ cm} =$

0.0130 cum.+

	Beadings - (2 × 312 + 2 × 150)×(1.2)×(1.2)cm						
	0.001 cum. Total = 0.040 cum.+ Add for wastage @ 10% = 0.004 cum. Total = 0.044 cum. Say 44 cudm.						
08280	Local Teak Wood- scantling	10 cudm	44.00	₹	420.00	₹	1,848.00
0473	Carriage of timber Wire gauge $2 \times 160 \times 40 \text{ cm} = 1.28$ sqm.+	cum	0.044	₹	74.50	₹	3.28
	Add wastage @ 10% = 0.13 sqm. = 1.41						
08173	sqm. Wire gauge	sqm	1.41	₹	260.00	₹	366.60
08061		10 Nos	6.00	₹	90.00	*	54.00
08001	Iron butt hinges 100×58×1.90 mm	10 1105	0.00		90.00	•	34.00
08063	Iron butt hinges 50×37×1.50 mm	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. screws 40 mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. screws 20 mm	100 Nos	8.00	₹	32.00	₹	2.56
0209 0210 0203 0225	Labour- Carpenter 1st class Carpenter 2nd class Beldar Mistry TOTAL	Day Day Day Day	1.20 0.80 1.00 0.10	₹₹₹	440.00 395.00 310.00 395.00	₹ ₹ ₹ ₹	528.00 316.00 310.00 39.50 3,511.78
	Add for sundries & contingencies	@	3%			₹	105.35
	Total Add for electricity charges	@	0.5%			₹ ₹	3,617.13 18.09 3,635.22
	Add GST (multiplying factor)		0.1405			₹	510.75
	Add 15% for contractor's profit and overheads	@	15%			₹	4,145.97 621.90
	Add cess Cost of 2.16 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹ ₹	4,767.87 47.68 4,815.55 2,229.42 2,229.40

Providing and fixing wire gauze laminated veneer lumber shutters conforming to IS: 14616, and as per TADS 15:2001 (Part B) using galvanised wire gauze with average width of aperture 1.4mm in both directions with wire of dia 0.63mm as per IS: 1568 for doors, windows and clerestory windows including ISI marked bright finished or/and black enemelled M.S. butt hinges with necessary screws as per directions of Engineer-in-charge.

8.29.1 35 mm thick shutters

Code Description Unit Quantity Rate Rate

Details of cost of one shutter $220 \times 108 \text{ cm} = 2.38 \text{ sqm}.$

	⁺ia	

08193	Factory made shutters LVL syles, rails and panels of galvanised wire gauge	sqm	2.38	₹	1,620.00	₹	3,855.60
0473	Carriage of shutters Fittings:	Cum	0.0833	₹	74.50	₹	6.21
08061	Black enamelled M.S. Butt hinges- 100 × 58 × 1.9 mm	10 Nos	6.00	₹	90.00	₹	54.00
08063	Black enamelled M.S. Butt hinges- $50 \times 37 \times 1.5 \text{ mm}$	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
	Labour:						
0208	Carpenter Average	Day	0.52	₹	420.00	₹	218.40
0203	Beldar	Day	0.60	₹	310.00	₹	186.00
	TOTAL					₹	4,366.61
	Add for sundries & contingencies	@	3%			₹	131.00
	Total					₹	4,497.61
	Add for electricity charges	@	0.5%			₹	22.49
						₹	4,520.10
	Add GST (multiplying factor)		0.1405			₹	635.07
						₹	5,155.17
	Add 15% for contractor's profit and overheads	@	15%			₹	773.28
						₹	5,928.45
	Add cess	@	1%			₹	59.28
	Cost of 2.38 sqm.					₹	5,987.73
	Cost of 1 sqm.					₹	2,515.85
	Say					₹	2,515.90

Providing and fixing wire gauze laminated veneer lumber shutters conforming to IS: 14616, and as per TADS 15:2001 (Part B) using galvanised wire gauze with average width of aperture 1.4mm in both directions with wire of dia 0.63mm as per IS: 1568 for doors, windows and clerestory windows including ISI marked bright finished or/and black enemelled M.S. butt hinges with necessary screws as per directions of Engineer-in-charge.

8.29.2 30 mm thick shutters

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost of one shutter $220 \times 108 \text{ cm} = 2.38 \text{ sqm}.$						
	Materials:						
08194	Factory made shutters LVL syles, rails and panels of galvanised wire gauge	sqm	2.38	₹	1,430.00	₹	3,403.40
0473	Carriage of shutters Fittings:	Cum	0.0714	₹	74.50	₹	5.32
08061	Black enamelled M.S. Butt hinges-100 × 58 × 1.9 mm	10 Nos	6.00	₹	90.00	₹	54.00
08063	Black enamelled M.S. Butt hinges- 50×37×1.5 mm	10 Nos	2.00	₹	68.00	₹	13.60
08066	M.S. Screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. Screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0208 0203	Labour: Carpenter Average Beldar TOTAL	Day Day	0.52 0.60	₹	420.00 310.00	₹₹	218.40 186.00 3,913.52
	101712					•	0,710.02

	Add for sundries & contingencies	@	3%	₹	117.41
	Total			₹	4,030.93
	Add for electricity charges	@	0.5%	₹	20.15
	3			₹	4,051.08
	Add GST (multiplying factor)		0.1405	₹	569.18
	() () () () ()			₹	4,620.26
	Add 15% for contractor's profit and overheads	@	15%	₹	693.04
				₹	5,313.30
	Add cess	@	1%	₹	53.13
	Cost of 2.38 sqm.			₹	5,366.43
	Cost of 1 sqm.			₹	2,254.80
Say	•			₹	2,254.80

8.30 Providing $50 \times 50 \times 50$ mm Gamair wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand) and making good the walls etc.

Code	Description	Unit	Quantity		Rate		
	Details of cost for 100 Nos. Materials: Gamair Wood 100 × (50 × 50 × 50) mm = 0.125 cum. Add wastage @ 10% = 0.0013 cum. Total = 0.0138 cum. Say 14 cudm.						
00000		10	14.00	~	400.00	-	/70.00
08283	Gamair Wood	cudm	14.00	₹	480.00	₹	672.00
0473	Carriage of timber	cum	0.014	₹	74.50	₹	1.04
	Cement mortar 1:3 (1 cement: 3 fine sand)	cum	0.002	₹	4,026.43	₹	8.05
	(Rate as per item No. 3.1.3) Labour:						
0210	Carpenter 2nd class	Day	0.75	₹	395.00	₹	296.25
0220	Mason 2nd class	Day	0.75	₹	395.00	₹	296.25
0203	Beldar TOTAL	Day	0.75	₹	310.00	₹	232.50
			00/				
	Add for sundries & contingencies	@	3%			₹	45.18
	Total					₹	1,551.27
	Add for electricity charges	@	0.5%			₹	7.76
	Add GST (multiplying factor)		0.1405			₹	1,559.03 219.04
	Add 031 (maitiplying factor)		0.1403			₹	1,778.07
	Add 15% for contractor's profit and overheads	@	15%			₹	266.71
						₹	2,044.78
	Add cess	@	1%			₹	20.45
	Cost of 100 nos.					₹	2,065.23
	Cost of 1 no.					₹ ₹	20.65 20.70
	Say						20.70

Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work/CC/R.C.C. and making good etc. complete.

8.31.1 25 mm long

Code Description Unit Quantity Rate Rate

	Details of cost of 10 nos. Materials:						
08201	Expandable fastner 25 mm long with plastic sleeve and M.S. screws	each	10.00	₹	10.00	₹	100.00
0208	Carpenter (average) TOTAL	Day	0.15	₹	420.00	₹	63.00 163.00
	Add for sundries & contingencies	@	3%			₹	4.89
	Total					₹	167.89
	Add for electricity charges	@	0.5%			₹ ₹	0.84 168.73
	Add GST (multiplying factor)		0.1405			₹	23.71 192.44
	Add 15% for contractor's profit and overheads	@	15%			₹	28.87
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	221.31 2.21 223.52 22.35 22.40
8.31	Providing and fixing expandable fasten and galvanised M.S. screws including making good etc. complete.					.	
8.31.2	32 mm long						
Code	Description Details of cost of 10 nos. Materials:	Unit	Quantity		Rate		Rate
08202	Expandable fastner 32 mm long with plastic sleeve and M.S. screws	each	10.00	₹	12.00	₹	120.00
0208	Carpenter (average) TOTAL	Day	0.18	₹	420.00	₹	75.60 195.60
	Add for sundries & contingencies	@	3%			₹	5.87
	Total					₹	201.47
	Add for electricity charges	@	0.5%			₹	1.01 202.48
	Add GST (multiplying factor)		0.1405			₹	28.45
	Add 15% for contractor's profit and overheads	@	15%			₹	230.93 34.64
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹ ₹	265.57 2.66 268.23 26.82 26.80
8.31 8.31.3	Providing and fixing expandable fasten and galvanised M.S. screws including dr 40 mm long						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost of 10 nos. Materials:						
08203	Expandable fastner 40 mm long with plastic sleeve and M.S. screws	each	10.00	₹	13.00	₹	130.00
0208	Carpenter (average) TOTAL	Day	0.18	₹	420.00	₹ ₹	75.60 205.60

	Add for sundries & contingencies	@	3%			₹	6.17
	Total					₹	211.77
	Add for electricity charges	@	0.5%			₹	1.06
						₹	212.83
	Add GST (multiplying factor)		0.1405			₹	29.90
	A 1.1 450/ 6-11 - 11 - 11 - 11 - 11 - 11 - 11 - 1					₹	242.73
	Add 15% for contractor's profit and	@	15%			₹	36.41
	overheads					₹	279.14
	Add cess	@	1%			₹	2.79
	Cost of 10 nos.		1 70			₹	281.93
	Cost of 1 no.					₹	28.19
	Say					₹	28.20
8.31	Providing and fixing expandable faste						
	and galvanised M.S. screws including o	drilling ho	les in masc	nry	work /CC/F	R.C.C	c. and
8.31.4	50 mm long						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost of 10 nos. Materials:						
08204	Expandable fastner 50 mm long wit	h each	10.00	₹	14.00	₹	140.00
	plastic sleeve and M.S. screws						
0208	Carpenter (average)	Day	0.18	₹	420.00	₹	75.60
	TOTAL					₹	215.60
	Add for sundries & contingencies	@	3%			₹	6.47
	Total					₹	222.07
	Add for electricity charges	@	0.5%			₹	1.11
	rad for electricity charges		0.070			₹	223.18
	Add GST (multiplying factor)		0.1405			₹	31.36
	, , ,					₹	254.54
	Add 15% for contractor's profit and	@	15%			₹	38.18
	overheads	•	1370				
						₹	292.72
	Add cess	@	1%			₹	2.93
	Cost of 1 no.					₹	295.65
	Cost of 1 no.					₹ ₹	29.57 29.60
	Say						29.00
8.32	Providing and fixing Gamair Wood p wooden plugs complete with necessary				•		•
8.32.1	40 mm thick.						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 sqm. Materials:						
	Gamair wood 10×0.04						
	m = 0.40 cum +						
	Add wastage @ 10%						
	= 0.04 cum.						
	- 0.44 cum						
	= 0.44 cum. Say						
	440 cudm.						
00000		10	4.40.00	_	400.00	_	04.460.00
08283	Gamair Wood	cudm	440.00	₹	480.00	₹	21,120.00

08285	Extra for selected planks of Gamair wood	10 cudm	440.00	₹	52.00	₹	2,288.00
	Gamair wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)						
	(A) (Rate as per item no 8.30 of SH: 8)	each	55.00	₹	15.06	₹	828.35
	(B) Priming coat (Rate as per item no 12.33.1) excluding GST,CP etc	sqm	10.00	₹	28.62	₹	286.20
0473	Carriage of timber Labour:	cum	0.44	₹	74.50	₹	32.78
0209	For planning and fixing Carpenter 1st class	Day	2.15	₹	440.00	₹	946.00
0203	Beldar TOTAL	Day	1.62	₹	310.00	₹ ₹	502.20 26,003.53
	Add for sundries & contingencies	@	3%			₹	780.11
	Total					₹	26,783.64
	Add for electricity charges	@	0.5%			₹	133.92 26,917.56
	Add GST (multiplying factor)		0.1405			₹	3,781.92 30,699.48
	Add 15% for contractor's profit and overheads	@	15%			₹	4,604.92
			4.07			₹	35,304.40
	Add cess Cost of 10 sqm.	@	1%			₹	353.04 35,657.44
	Cost of 1 sqm.					₹ ₹	3,565.74 3,565.70
	Say						
8.32	Providing and fixing Gamair wood pla wooden plugs complete with necessary						nd including
8.32.2	Providing and fixing Gamair wood pla wooden plugs complete with necessary 25 mm thick.	screws a	nd priming		t on unexp		nd including I surface.
	Providing and fixing Gamair wood pla wooden plugs complete with necessary						nd including
8.32.2	Providing and fixing Gamair wood play wooden plugs complete with necessary 25 mm thick. Description Details of cost for 10 sqm. Materials: Gamair Wood 10 × 0.025 = 0.25 cum+ Add wastage @ 10%	screws a	nd priming		t on unexp		nd including I surface.
8.32.2	Providing and fixing Gamair wood pla wooden plugs complete with necessary 25 mm thick. Description Details of cost for 10 sqm. Materials: Gamair Wood 10 × 0.025 = 0.25 cum+ Add wastage @ 10% = 0.025 cum. = 0.275 cum. Say	Unit	nd priming		t on unexp		nd including I surface.
8.32.2 Code	Providing and fixing Gamair wood pla wooden plugs complete with necessary 25 mm thick. Description Details of cost for 10 sqm. Materials: Gamair Wood 10 × 0.025 = 0.25 cum+ Add wastage @ 10% = 0.025 cum. = 0.275 cum. Say 275 cudm.	unit	nd priming Quantity	g coa	Rate	osed	nd including I surface. Rate
8.32.2 Code	Providing and fixing Gamair wood play wooden plugs complete with necessary 25 mm thick. Description Details of cost for 10 sqm. Materials: Gamair Wood 10 × 0.025 = 0.25 cum+ Add wastage @ 10% = 0.025 cum. = 0.275 cum. Say 275 cudm. Gamair Wood Extra for selected planks of Gamair	Unit 10 cudm 10	Quantity 275.00	₹	Rate 480.00	₹	nd including I surface. Rate
8.32.2 Code 08283 08285	Providing and fixing Gamair wood pla wooden plugs complete with necessary 25 mm thick. Description Details of cost for 10 sqm. Materials: Gamair Wood 10 × 0.025 = 0.25 cum+ Add wastage @ 10% = 0.025 cum. = 0.275 cum. Say 275 cudm. Gamair Wood Extra for selected planks of Gamair wood	Unit 10 cudm 10 cudm	Quantity 275.00 275.00	ţ coa	t on unexp Rate 480.00 52.00	₹ ₹	nd including I surface. Rate 13,200.00 1,430.00
8.32.2 Code 08283 08285	Providing and fixing Gamair wood play wooden plugs complete with necessary 25 mm thick. Description Details of cost for 10 sqm. Materials: Gamair Wood 10 × 0.025 = 0.25 cum+ Add wastage @ 10% = 0.025 cum. = 0.275 cum. Say 275 cudm. Gamair Wood Extra for selected planks of Gamair wood Carriage of timber Gamair wood plugs including cutting brick work and fixing in cement	Unit 10 cudm 10 cudm	Quantity 275.00 275.00	ţ coa	t on unexp Rate 480.00 52.00	₹ ₹	nd including I surface. Rate 13,200.00 1,430.00

					311. (5/ VVC	JOD & FVC WOR
0209	Carpenter 1 st class	Day	2.15	₹	440.00	₹	946.00
0203	Beldar TOTAL	Day	1.62	₹	310.00	₹	502.20 17,213.24
	Add for sundries & contingencies	@	3%			₹	516.40
	Total					₹	17,729.64
	Add for electricity charges	@	0.5%			₹	88.65
						₹	17,818.29
	Add GST (multiplying factor)		0.1405			₹	2,503.47
						₹	20,321.76
	Add 15% for contractor's profit and overheads	@	15%			₹	3,048.26
						₹	23,370.02
	Add cess	@	1%			₹	233.70
	Cost of 10 sqm.					₹	23,603.72
	Cost of 1 sqm.					₹	2,360.37
	Say					₹	2,360.40
8.32	Providing and fixing Gamair wood pwooden plugs complete with necessar						
8.32.3	20 mm thick						
Code	Description	Unit	Quantity	F	Rate		Rate
	Details of cost for 10 sqm. Materials:						

8

0.32.3	20 mm trick						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 sqm. Materials: Gamair wood 10×0.02 m = 0.20 cum.+ Add wastage @ 10% = 0.02 cum.						
	= 0.22 cum. Say 220 cudm.						
08283	Gamair Wood	10 cudm	220.00	₹	480.00	₹	10,560.00
08285	Extra for selected planks of Gamair wood	10 cudm	220.00	₹	52.00	₹	1,144.00
0473	Carriage of timber	cum	0.22	₹	74.50	₹	16.39
	Gamair wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)						
	(A) (Rate as per item no 8.30 of SH: 8)	each	55.00	₹	15.06	₹	828.35
	(B) Priming coat (Rate as per item no 12.33.1) excluding GST,CP etc Labour:	sqm	10.00	₹	28.62	₹	286.20
0209	Carpenter 1 st class	Day	1.08	₹	440.00	₹	475.20
0210	Carpenter 2nd class	Day	0.80	₹	395.00	₹	316.00
0203	Beldar TOTAL	Day	1.08	₹	310.00	₹	105.60 13,731.74
	Add for sundries & contingencies	@	3%			₹	411.95
	Total					₹	14,143.69
	Add for electricity charges	@	0.5%			₹	70.72
	Add CCT (southball to a factor)		0.1.405			₹	14,214.41
	Add GST (multiplying factor)		0.1405			₹ ₹	1,997.12 16,211.53
	Add 15% for contractor's profit and	@	15%			₹	2,431.73
	overheads	_				*	18,643.26
							10,043.20

	Add cess Cost of 10 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	186.43 18,829.69 1,882.97 1,883.00
8.32	Providing and fixing Gamair wood plugs complete with necessary						
8.32.4	12 mm thick						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 sqm. Gamair wood 10×0.012 $m = 0.12$ cum+ Add wastage @ 10% $= 0.012$ cum.						
	= 0.132 cum. Say 132 cudm.						
08283	Gamair Wood	10	132.00	₹	480.00	₹	6,336.00
08285	Extra for selected planks of Gamair	cudm 10	132.00	₹	52.00	₹	686.40
0473	wood Carriage of timber	cudm cum	0.132	₹	74.50	₹	9.83
0473	Gamair wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)	cum	0.102		74.50	Ì	7.00
	(A) (Rate as per item no 8.30 of SH: 8)	each	55.00	₹	15.06	₹	828.35
	(B) Priming coat (Rate as per item no 12.33.1) excluding GST,CP etc Labour:	sqm	10.00	₹	28.62	₹	286.20
0209	Carpenter 1 st class	Day	1.08	₹	440.00	₹	475.20
0210 0203	Carpenter 2nd class Beldar TOTAL	Day Day	0.80 1.08	₹	395.00 310.00	₹ ₹	316.00 334.80 9,272.78
	Add for sundries & contingencies	@	3%			₹	278.18
	Total		0.5%			₹	9,550.96
	Add for electricity charges	@	0.5%			₹	47.75 9,598.71
	Add GST (multiplying factor)		0.1405			₹ ₹	1,348.62 10,947.33
	Add 15% for contractor's profit and overheads	@	15%			₹	1,642.10
	Add cess Cost of 10 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	12,589.43 125.89 12,715.32 1,271.53 1,271.50
8.33	Providing and fixing in wall lining flat or graded wood prelaminated one si lamination Grade I,Type II, IS: 128: surface, with necessary fixing arranger	ide decor 23 marke	ative lamir ed includir	natio ng pi	n on other	r sic	le balancing
8.33.1	12 mm thick						
Code	Description	Unit	Quantity		Rate		Rate

	Details of cost for 10 sqm. Materials- Particle board (three layer medium density) 12mm thick = 10 sqm.+ Add wastage @ 10% = 1 sqm. Toatal						
08215	= 11 sqm. Particle board (three layer medium density)	sqm	11.00	₹	700.00	₹	7,700.00
0473	Carriage of particle board Priming coat (A) Priming coat (Rate as per item no	Cum	10.00	₹	74.50	₹	9.83
	12.33.1)	94		•	20.02	·	200.20
0210 0203	Labour: Carpenter 2nd class Beldar	Day Day	1.28 1.43	₹	395.00 310.00	₹ ₹	505.60 443.30
05050	Rawl plug 50 mm (designation 10 no)	each	55.00	₹	7.00	₹	385.00
	TOTAL		20/			₹	9,329.93
	Add for sundries & contingencies	@	3%			₹	279.90
	Total Add for electricity charges	@	0.5%			₹ ₹	9,609.83 48.05 9,657.88
	Add GST (multiplying factor)		0.1405			₹ ₹	1,356.93 11,014.81
	Add 15% for contractor's profit and overheads	@	15%			₹	1,652.22
	Add cess Cost of 10 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	12,667.03 126.67 12,793.70 1,279.37 1,279.40
8.33 8.33.2	Providing and fixing in wall lining flat or graded wood prelaminated one si lamination Grade I, Type II, IS: 128 surface, with necessary fixing arranger 18 mm thick	ide decor 323 mark	ative lami ed includi	nation ng pr	n on other iming coa	sic	de balancing
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 sqm. Materials- Particle board (three layer medium density) 18mm thick = 10 sqm.+ Add wastage @ 10% = 1 sqm. Toatal = 11 sqm.						
08216	Particle board (three layer medium	sqm	11.00	₹	850.00	₹	9,350.00
0473	density) Carriage of particle board Priming coat	Cum	0.198	₹	74.50	₹	14.75
	(A) Priming coat (Rate as per item no 12.33.1)	sqm	10.00	₹	28.62	₹	286.20
0210	Labour: Carpenter 2nd class	Day	1.28	₹	395.00	₹	505.60

0203	Beldar	Day	1.43	₹	310.00	₹	443.30
05050	Rawl plug 50 mm (designation 10 no)	each	55.00	₹	7.00	₹	385.00
	TOTAL					₹	10,984.85
	Add for sundries & contingencies	@	3%			₹	329.55
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5%			₹₹₹	11,314.40 56.57 11,370.97 1,597.62
	rida ser (manipijing laster)		011100			₹	12,968.59
	Add 15% for contractor's profit and overheads	@	15%			₹	1,945.29
						₹	14,913.88
	Add cess	@	1%			₹	149.14
	Cost of 10 sqm.					₹	15,063.02
	Cost of 1 sqm.					₹	1,506.30
	Say					₹	1,506.30

Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood prelaminated one side decorative lamination on other side balancing lamination Grade I, Type II, IS: 12823 marked including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete.

8.33.3 25 mm thick

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 sqm. Materials- Particle board (three layer medium density) 25 mm thick = 10 sqm.+ Add wastage @ 10% = 1 sqm. Toatal = 11 sqm.						
08217	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS: 12823 (exterior grade) 25 mm thick	sqm	11.00	₹	930.00	₹	10,230.00
0473	Carriage of particle board	Cum	0.275	₹	74.50	₹	20.49
	Priming coat (A) Priming coat (Rate as per item no 12.33.1) Labour:	sqm	10.00	₹	28.62	₹	286.20
0210	Carpenter 2nd class Beldar	Day	1.28	₹	395.00	₹	505.60
0203 05050	Rawl plug 50 mm (designation 10 no)	Day each	1.43 55.00	₹	310.00 7.00	₹	443.30 385.00
03030	TOTAL	еасп	55.00		7.00	₹	11,870.59
	Add for sundries & contingencies	@	3%			₹	356.12
	Total	e	370			₹	12,226.71
	Add for electricity charges	@	0.5%			₹	61.13
	Add GST (multiplying factor)		0.1405			₹	12,287.84 1,726.44
			0.1100			₹	14,014.28
	Add 15% for contractor's profit and overheads	@	15%			₹	2,102.14

	Add cess Cost of 10 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹ ₹	16,116.42 161.16 16,277.58 1,627.76 1,627.80
8.34	Providing and fixing specified wood fr with rawl plug and drilling necessary complete.						
8.34.1 Code	Gamair Wood Description	Unit	Quantity		Rate		Rate
	Details of cost for 5 no. battens of size $500cm \times 50mm \times 25mm$ (31.25 cudm)						
	Materials- Gamair wood-5 × 5.00 × 0.50 × 0.025 = 0.03125 cum+ Add wastage @ 5% = 0.00156 cum. Total = 0.03281 cum. Say 33 cudm.						
08283	Gamair Wood	10 cudm	33.00	₹	480.00	₹	1,584.00
0473	Carriage of timber	cum	0.033	₹	74.50	₹	2.46
0209 0203	Labour: Carpenter 1 st class Beldar Painting with ready mixed priming coat on ground	Day Day	1.00 0.25	₹	440.00 310.00	₹	440.00 77.50
	$5 \times 500 \times 15$ cm = 3.75 sqm (A) Priming coat (Rate as per item no	1					
	12.33.1)	sqm	3.75	₹	28.62	₹	107.33
05050	Rawl plug 50 mm (designation 10 no)	each	55.00	₹	7.00	₹	385.00
	TOTAL Add for sundries & contingencies	@	3%			₹	2,596.29
	Add for sundries & contingencies Total	w	3%			₹	77.89 2,674.18
	Add for electricity charges	@	0.5%			₹	13.37
	Add GST (multiplying factor)		0.1405			₹	2,687.55 377.60
	Add 15% for contractor's profit and	@	15%			₹	3,065.15 459.77
	overheads	C	1070			` ₹	3,524.92
	Add cess Cost of 31.25 cudm.	@	1%			₹	35.25 3,560.17
	Cost of 1 cum.					₹	1,13,925.44
	Say					₹	1,13,925.40
8.35	priming coat on unexposed surface wit	for plai					ative veneer ssary screws,
8.35.1	Decorative veneer facings of approved manufacture.						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 sqm. Materials-						

08135	Teak ply wood = 10 sqm.+ Add for wastage @ 20% = 2 sqm. Total = 12 sqm. teak ply wood	sqm	12.00	₹	370.00	₹	4,440.00
0473	Carriage of ply wood Painting with ready mixed priming coat (A) Priming coat (Rate as per item no	Cum	0.048	₹	74.50	₹	3.58
	12.31.2) Wooden plugs including cutting brick work and fixing in cement mortar	sqm	10.00	₹	32.30	₹	323.00
	(B) (Rate as per item no 8.30 of SH : Wood work) Labour-	each	55.00	₹	15.06	₹	828.35
0209	Carpenter 1st class	Day	3.80	₹	440.00	₹	1,672.00
0203	Beldar	Day	4.60	₹	310.00	₹	1,426.00
0225	Mistry TOTAL	Day	0.60	₹	395.00	₹	237.00 8,929.93
	Add for sundries & contingencies	@	3%			₹	267.90
	Total Add for electricity charges	@	0.5%			₹	9,197.83 45.99
	Add for electricity charges	<u> </u>	0.570			₹	9,243.82
	Add GST (multiplying factor)		0.1405			₹	1,298.76
			311 133			₹	10,542.58
	Add 15% for contractor's profit and overheads	@	15%			₹	1,581.39
						₹	12,123.97
	Add cess	@	1%			₹	121.24
	Cost of 10 sqm.					₹	12,245.21
	Cost of 1 sqm.					₹	1,224.52
	Say					₹	1,224.50

8.36 Providing and fixing 4mm thick coir veneer board, ISI marked IS: 14842 Plain lining with necessary screws, priming coat on unexposed surface etc., complete.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 sqm. Materials- Coir veneered board 4mm thick Add for wastage @ 20% Total						
08228	Coir veneered board 4mm thick	sqm	12.00	₹	300.00	₹	3,600.00
0473	Carriage of Coir veneered board Painting with ready mixed priming coat	Cum	0.048	₹	74.50	₹	3.58
	(A) Priming coat (Rate as per item no 12.33.1)	sqm	10.00	₹	28.62	₹	286.20
	Wooden plugs including cutting brick work and fixing in cement mortar						
	(B) (Rate as per item no 8.30 of SH : Wood work)	each	55.00	₹	15.06	₹	828.35
0209 0203 0225	Labour- Carpenter 1st class Beldar Mistry	Day Day Day	3.80 4.60 0.60	₹ ₹	440.00 310.00 395.00	₹ ₹	1,672.00 1,426.00 237.00

TOTAL			₹	8,053.13
Add for sundries & contingencies	@	3%	₹	241.59
Total			₹	8,294.72
Add for electricity charges	@	0.5%	₹	41.47
			₹	8,336.19
Add GST (multiplying factor)		0.1405	₹	1,171.23
			₹	9,507.42
Add 15% for contractor's profit and overheads	@	15%	₹	1,426.11
			₹	10,933.53
Add cess	@	1%	₹	109.34
Cost of 10 sqm.			₹	11,042.87
Cost of 1 sqm.			₹	1,104.29
Say			₹	1,104.30

Providing and fixing skirting of prelaminated with (one side decorative and other side balancing lamination) flat pressed, 3 layer or graded particle board (medium density) 3.37 Grade I, Type II, IS: 12823 marked, with necessary fixing arrangements and screws including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete.

8.37.1 18 mm thick

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for skirting 200 mm wide and						
	30 m long Area = 0.2 × 30 = 6 sqm.						
	Area = 0.2						
	× 30 = 6 sqm. Materials-						
	Teak shade prelaminated Particle						
	(three lever medium density)						
	(three layer medium density) = 6.0 sqm.+						
	Add wastage @ 10%						
	= 0.6 sqm. Total						
	= 6.6 sqm.						
08216 0473	Particle board 18 mm thick	sqm Cum	6.60	₹	850.00 74.50	₹	5,610.00 8.85
	Carriage of particle board		0.1188	₹			
05050	Rawl plug 50 mm (designation 10 no)	each	102.00	₹	7.00	₹	714.00
	Labour:- For dressing and fixing particle board to skirting						
0210	Carpenter 2nd class	Day	0.77	₹	395.00	₹	304.15
0203	Beldar Beighting with good was in a line in a	Day	0.86	₹	310.00	₹	266.60
	Painting with ready mixed priming coat at back						
	(A) Priming coat (Rate as per item no 12.33.1)	sqm	6.00	₹	28.62	₹	171.72
	TOTAL					₹	7,075.32
	Add for sundries & contingencies	@	3%			₹	212.26
	Total					₹	7,287.58
	Add for electricity charges	@	0.5%			₹ ₹	36.44 7,324.02
	Add GST (multiplying factor)		0.1405			₹	1,029.02
						₹	8,353.04
	Add 15% for contractor's profit and overheads	@	15%			₹	1,252.96

			₹	9,606.00
Add cess	@	1%	₹	96.06
Cost of 6 sqm.			₹	9,702.06
Cost of 1 sqm.			₹	1,617.01
Say			₹	1,617.00
Providing and fixing skirting balancing lamination) flat pre Grade I, Type II, IS: 12823 including drilling necessary burface complete.	essed, 3 layer or 3 marked, with r	graded par necessary fix	ticle board (medi ing arrangements	um density) and screws
and the second s				

Q	27	2	25	mm	thi	ck

8.37

8.37.2	25 mm thick						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for skirting 200 mm wide and 30m long Area = 0.2 × $30 = 6$ sqm. Materials-						
	Teak shade prelaminated Particle board (three layer medium density) = 6.0 sqm.+						
	Add wastage @ 10% = 0.6 sqm. Total = 6.6 sqm.						
08217	Particle board 25 mm thick	sqm	6.60	₹	930.00	₹	6,138.00
0473	Carriage of particle board	Cum	0.165	₹	74.50	₹	12.29
05050	Rawl plug 50 mm (designation 10 no)	each	102.00	₹	7.00	₹	714.00
	Labour:- For dressing and fixing particle board to skirting						
0210	Carpenter 2nd class	Day	0.77	₹	395.00	₹	304.15
0203	Painting with ready mixed priming coat at back	Day	0.86	₹	310.00	₹	266.60
	(A) Priming coat (Rate as per item no 12.33.1)	sqm	6.00	₹	28.62	₹	171.72
	TOTAL					₹	7,606.76
	Add for sundries & contingencies	@	3%			₹	228.20
	Total Add for electricity charges	@	0.5%			₹ ₹	7,834.96 39.17 7,874.13
	Add GST (multiplying factor)		0.1405			₹	1,106.32 8,980.45
	Add 15% for contractor's profit and overheads	@	15%			₹	1,347.07
	Add cess Cost of 6 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹ ₹	10,327.52 103.28 10,430.80 1,738.47 1,738.50

^{8.38} Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete:

8.38.1 Gamair Wood

^{8.38.1.1 50×12} mm

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for beading for a window of size 140×110 cm i.e. 500 cm long (5 metre) Materials-Gamair wood in planks $500 \times 5 \times 1.2 \text{ cm}$						
	= 0.003 cum+ Add for wastage @ 10% = 0.0003 cum. Total = 0.0033 cum. Say						
	3.3 cudm.	10					
08283	Gamair Wood	10 cudm	3.30	₹	480.00	₹	158.40
0473	Carriage of timber	cum	0.0033	₹	74.50	₹	0.25
08066	Iron screws 40 mm	100 Nos	36.00	₹	63.00	₹	22.68
	Painting with priming coat Area = $(5 + 1.2 + 1.2) = 0.37$ sqm (A) Priming coat (Rate as per item no		0.27	<u>.</u>	20.72	.	10.50
	12.33.1) Labour-	sqm	0.37	₹	28.62	₹	10.59
	For plaining, fixing and making design						
0209	Carpenter 1st class TOTAL	Day	0.53	₹	440.00	₹	233.20 425.12
	Add for sundries & contingencies except A	@	3%			₹	12.44
	Total					₹	437.56
	Add for electricity charges except A	@	0.5%			₹	2.13
						₹	439.69
	Add GST (multiplying factor) except A		0.1405			₹	60.29
						₹	499.98
	Add 15% for contractor's profit and overheads except A	@	15%			₹	73.41
	Add cess except A	@	1%			₹ ₹	573.39 5.63
	Cost of 5 m.					₹	579.02
	Cost of 1m Say					₹ ₹	115.80 115.80
8.38 8.38.1 8.38.1.2	Providing and fixing wooden moulded screws, plugs and priming coat on unex Gamair Wood 50 × 20 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for beading of a window of size $140 \times 110 \mathrm{cm}$ i.e. 500cm. long (5metre) Materials-Gamair Wood in planks $500 \times 5 \times 2.0 \mathrm{cm}$ = $0.005 \mathrm{cum}$ +						

	Add for wastage @ 10% = 0.0005 cum. Total = 0.0055 cum. Say 5.5 cudm.						
08283	Gamair Wood	10 cudm	5.50	₹	480.00	₹	264.00
0473	Carriage of timber	cum	0.0055	₹	74.50	₹	0.41
08066	Iron screws 40 mm	100 Nos	36.00	₹	63.00	₹	22.68
	Painting with priming coat Area = $500 (5 + 2 + 2) = 0.45 \text{ sqm}$ (A) Priming coat (Rate as per item no	sqm	0.45	₹	28.62	₹	12.88
	12.33.1) Labour-	34111	0.10		20.02		12.00
	For plaining, fixing and making design						
0209	Carpenter 1 st class TOTAL	Day	0.53	₹	440.00	₹	233.20 533.17
	Add for sundries & contingencies except A	@	3%			₹	15.61
	Total					₹	548.78
	Add for electricity charges except A	@	0.5%			₹	2.68
						₹	551.46
	Add GST (multiplying factor) except A		0.1405			₹	75.67
	Add 150/ for contractor/s profit and					₹	627.13
	Add 15% for contractor's profit and overheads except A	@	15%			₹	92.14
	Add cooperat A		10/			₹	719.27
	Add cess except A Cost of 5 m.	@	1%			₹	7.06 726.33
	Cost of 1m					₹	145.27
	Say					₹	145.30
8.38	Providing and fixing wooden moulded screws, plugs and priming coat on unex					ame	s with iron
8.38.2 8.38.2.1	Local Teak Wood- scantling 50 × 12 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for beading for a window of size 140×110 cm i.e. 500 cm long (5 metre) Materials-Local Teak wood in planks $500 \times 5 \times 1.2 \text{ cm}$						
	= 0.003 cum+ Add for wastage @ 10% = 0.0003 cum. Total = 0.0033 cum. Say 3.3 cudm.						
08280	Local Teak Wood- scantling	10	3.30	₹	420.00	₹	138.60
0473	Carriage of timber	cudm cum	0.0033	₹	74.50	₹	0.25

08066	Iron screws 40 mm	100 Nos	36.00	₹	63.00	₹	22.68
	Painting with priming coat Area =						
	(A) Priming coat (Rate as per item no $12.33.1$) Labour-	sqm	0.37	₹	28.62	₹	10.59
	For plaining, fixing and making design						
0209	Carpenter 1st class TOTAL	Day	0.53	₹	440.00	₹ ₹	233.20 405.32
	Add for sundries & contingencies except A	@	3%			₹	11.84
	Total					₹	417.16
	Add for electricity charges except A	@	0.5%			₹	2.03 419.19
	Add GST (multiplying factor) except A		0.1405			₹	57.41
	Add 15% for contractor's profit and overheads except A	@	15%			₹	476.60 69.90
	Add cess except A Cost of 5 m. Cost of 1m Say	@	1%			₹ ₹ ₹ ₹	546.50 5.36 551.86 110.37 110.40
	Providing and fixing wooden moulded	d beading	g to door		window fi	rame	es with iron
8.38 8.38.2 8.38.2.2	screws, plugs and priming coat on unex Local Teak Wood- scantling 50×20 mm	posed su	rface etc. o	comp			
8.38.2	screws, plugs and priming coat on unex Local Teak Wood- scantling	posed su Unit	rface etc. o	comp			Rate
8.38.2 8.38.2.2	screws, plugs and priming coat on unex Local Teak Wood- scantling 50×20 mm	Unit		comp	olete :		
8.38.2 8.38.2.2 Code	screws, plugs and priming coat on unex Local Teak Wood- scantling 50×20 mm Description Details of cost for beading of a window of size 140×110 cm i.e. 500 cm. long (5metre) Materials-Local Teak Wood in planks $500\times5\times2.0$ cm = 0.005 cum+ Add for wastage @ 10% = 0.0005 cum. Total = 0.0055 cum.	Unit		₹	olete :	₹	
8.38.2 8.38.2.2 Code	screws, plugs and priming coat on unex Local Teak Wood- scantling 50×20 mm Description Details of cost for beading of a window of size 140 × 110 cm i.e. 500cm. long (5metre) Materials-Local Teak Wood in planks 500 × 5 × 2.0 cm = 0.005cum+ Add for wastage @ 10% = 0.0005 cum. Total = 0.0055 cum. Say 5.5 cudm.	Unit	Quantity		olete : Rate	₹₹	Rate
8.38.2 8.38.2.2 Code	screws, plugs and priming coat on unex Local Teak Wood- scantling 50×20 mm Description Details of cost for beading of a window of size 140 × 110 cm i.e. 500cm. long (5metre) Materials- Local Teak Wood in planks 500 × 5 × 2.0 cm = 0.005cum+ Add for wastage @ 10% = 0.0005 cum. Total = 0.0055 cum. Say 5.5 cudm. Local Teak Wood- scantling	Unit 10 cudm	Quantity 5.50 0.0055	₹	Rate 420.00		Rate 231.00
8.38.2 8.38.2.2 Code 08280 0473	screws, plugs and priming coat on unex Local Teak Wood- scantling 50×20 mm Description Details of cost for beading of a window of size 140 × 110 cm i.e. 500cm. long (5metre) Materials- Local Teak Wood in planks 500 × 5 × 2.0 cm = 0.005cum+ Add for wastage @ 10% = 0.0005 cum. Total = 0.0055 cum. Say 5.5 cudm. Local Teak Wood- scantling Carriage of timber	Unit 10 cudm cum	Quantity 5.50 0.0055	₹₹	A20.00 74.50	₹	231.00 0.41
8.38.2 8.38.2.2 Code 08280 0473	screws, plugs and priming coat on unex Local Teak Wood- scantling 50×20 mm Description Details of cost for beading of a window of size 140×110 cm i.e. 500 cm. long (5metre) Materials- Local Teak Wood in planks $500 \times 5 \times 2.0$ cm = 0.005 cum+ Add for wastage @ 10% = 0.0005 cum. Total = 0.0055 cum. Say 5.5 cudm. Local Teak Wood- scantling Carriage of timber Iron screws 40 mm Painting with priming coat Area = 500 ($5 + 2 + 2$) = 0.45 sqm (A) Priming coat (Rate as per item no $12.33.1$)	Unit 10 cudm cum 100 Nos	5.50 0.0055 36.00	₹₹₹	A20.00 74.50 63.00	₹	231.00 0.41 22.68

	TOTAL					₹	500.17
	Add for sundries & contingencies except A	@	3%			₹	14.62
	Total					₹	514.79
	Add for electricity charges except A	@	0.5%			₹	2.51
						₹	517.30
	Add GST (multiplying factor) except A		0.1405			₹	70.87
						₹	588.17
	Add 15% for contractor's profit and	@	15%			₹	86.29
	overheads except A					₹	674.46
	Add cess except A	@	1%			₹	6.62
	Cost of 5 m. Cost of 1m					₹	681.08 136.22
	Say					₹	136.20
8.39 8.39.1	Providing and fixing plain jaffri of 35 paid separately) including fixing 50 × 1 Gamair Wood	2 mm be	ading comp		with:	ırt (f	
Code	Description	Unit	Quantity		Rate		Rate
00000	Details of cost of a jaffri 200 × 110 cm = 2.20 Sqm Materials- Gamair Wood Jaffri 210 × 120 × 1.0 cm = 0.025 cum.+ Beading 660 × 5 × 1.2 cm = 0.004 cum. Total = 0.029 cum.+ Add wastage @ 10% = 0.003 cum. Total = 0.032 cum. Say 32 cudm.	10	22.00		400.00		1.527.00
08283	Gamair Wood	cudm	32.00	₹	480.00	₹ -	1,536.00
0473	Carriage of timber Labour-	cum	0.032	₹	74.50	₹	2.38
0209	Carpenter 1 st class	Day	0.75	₹	440.00	₹	330.00
0210 0203	Carpenter 2nd class Beldar	Day	1.00	₹ ₹	395.00 310.00	₹	395.00 155.00
0203	Mistry	Day Day	0.50 0.10	₹	395.00	₹	39.50
	TOTAL	,				₹	2,457.88
	Add for sundries & contingencies	@	3%			₹	73.74
	Total					₹	2,531.62
	Add for electricity charges	@	0.5%			₹ ₹	12.66 2,544.28
	Add GST (multiplying factor)		0.1405			₹	357.47
	Add 150/ for contrastorio mostit and					₹	2,901.75
	Add 15% for contractor's profit and overheads	@	15%			₹	435.26
	Add see		10/			₹	3,337.01
	Add cess Cost of 2.2 sqm.	@	1%			₹	33.37 3,370.38
	Cost of 1 sqm.					₹	1,531.99

Say ₹ 1,532.00

Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS: 3087 marked including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plated M.S. pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets including fixing with 25 × 3 mm M.S. flat 10 cm long and rawl plugs 50 mm long (designation 10 no.) etc. all complete.

Code	Description Details of cost for a pelmet 2.00 m		Unit	(Quantity		Rate
08182	long Materials- (i) 18 mm thick particle board (medium density exterior grade) Front- $1 \times 1.7 \times 0.15$ $= 0.255 \text{ sqm.+}$ Sides- $2 \times 0.15 \times 0.15 =$						
	0.045 sqm. Total						
	= 0.300 sqm.+ Add wastage @ 5% = 0.015 sqm. Total						
	= 0.315 sqm. Say 0.32 sqm.	Sqm	0.32	₹	480.00	₹	153.60
	6mm thick commercial ply wood Top- 1 × 1.7 × 0.15 = 0.255 sqm.+ Add wastage @ 5% =						
	O.013 sqm. Total = 0.268 sqm. Say						
08148	0.27 sqm. Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	0.27	₹	350.00	₹	94.50
08175	Nickle plated M.S. pipe 20 mm dia.	metre	1.65	₹	75.00	₹	123.75
08176	Nickle plated M.S. Brackets for curtain rod 20 mm	each	2.0	₹	7.00	₹	14.00
5026	M.S. flat 25×3 mm and 10 cm long over brackets	QtI	0.0059	₹	4,725.00	₹	27.88
05050	Rawl plug 50 mm (designation 10 no)	each	2.0	₹	7.00	₹	14.00
0210 0203 0225	Labour- Carpenter 2nd class Beldar Mistry TOTAL	Day Day Day	0.18 0.18 0.11	₹ ₹	395.00 310.00 395.00	₹₹₹	71.10 55.80 43.45 598.08
	Add for sundries & contingencies	@	3%			₹	17.94
	Total Add for electricity charges	@	0.5%			₹	616.02 3.08
	Add GST (multiplying factor)		0.1405			₹ ₹	619.10 86.98 706.08
	Add 15% for contractor's profit and overheads	@	15%			₹	105.91
	Add cess	@	1%			₹	811.99 8.12

Cost of 2 m	₹	820.11
Cost of 1 m.	₹	410.06
Say	₹	410.10

Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842 - 2000, including top cover of 6 mm coir veneer board, nickel plated M.S. Pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets including fixing with 25×3 mm M.S. flat 10 cm long and rawl plugs 50 mm long (designation 10 no.) etc. all complete.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for a pelmet 2m long						
	Materials-						
	(i) 18mm thick Coir veneered board						
	Front- $1 \times 1.7 \times 0.15$						
	= 0.255 sqm.+ Sides- 0.045 sqm. Total = 0.300 sqm.+ Add wastage @ 5% =						
08230	0.015 sqm. Total = 0.315 sqm. Say 0.32 sqm. Coir veneered board 18mm thick	sqm	0.32	₹	1,080.00	₹	345.60
	6mm thick commercial ply wood Top- $1 \times 1.7 \times 0.15 = 0.255 \text{ sqm.} +$ Add wastage @ 5% $= 0.013 \text{ sqm.}$ Total $= 0.268 \text{ sqm.}$ Say $= 0.27 \text{ sqm.}$						
08229	Coir veneered board 6mm thick	sqm	0.27	₹	385.00	₹	103.95
08175	Nickle plated M.S. pipe 20 mm dia.	metre	1.65	₹	75.00	₹	123.75
08176	Nickle plated M.S. Brackets for curtain rod 20 mm	each	2.00	₹	7.00	₹	14.00
5026	M.S. flat 25 × 3 mm and 10 cm long over brackets	QtI	0.0059	₹	4,725.00	₹	27.88
05050	Rawl plug 50 mm (designation 10 no)	each	2.0	₹	7.00	₹	14.00
0210 0203 0225	Labour- Carpenter 2nd class Beldar Mistry TOTAL	Day Day Day	0.18 0.18 0.11	₹₹	395.00 310.00 395.00	₹₹₹	71.10 55.80 43.45 799.53
	Add for sundries & contingencies	@	3%			₹	23.99
	Total Add for electricity charges	@	0.5%			₹₹	823.52 4.12
	Add GST (multiplying factor)		0.1405			₹ ₹	827.64 116.28 943.92
	Add 15% for contractor's profit and overheads	@	15%			₹	141.59

	Add cess Cost of 2 m Cost of Im. Say	@	1%		₹ 1,085.5 ₹ 10.8 ₹ 1,096.3 ₹ 548.1 ₹ 548.2	36 37 9
8.42	Extra for using veneered particle board 18mm thick 150mm wide.	d conforn	ning to IS 3097	Grade I, in	item of pelm	et
8.42.1.	Non decorative veneer on both sides.					
Code	Description	Unit	Quantity	Rate	Rate	
	Details of cost for a pelmet 2m long					
08004	Materials- (i) 18mm thick particle board (medium density exterior grade) Front- = 0.255 sqm.+ Sides- 0.045 sqm. Total = 0.300 sqm.+ Add wastage @ 5% 0.015 sqm. Total = 0.315 sqm. Say 0.32 sqm. Extra cost for commercial veneering both sides		0.32 ₹	180.00	₹ 57.6	•0
	TOTAL				₹ 57.6	0
	Add for sundries & contingencies	@	3%		₹ 1.7	3
	Total Add for electricity charges	@	0.5%		₹ 59.3 ₹ 0.3 ₹ 59.6	0
	Add GST (multiplying factor)		0.1405		₹ 8.3 ₹ 68.0	8
	Add 15% for contractor's profit and overheads	@	15%		₹ 10.2	
	Add cess Cost of 2 m Cost of 1 m Say	@	1%		₹ 78.2 ₹ 0.7 ₹ 78.9 ₹ 39.5 ₹ 39. 5	'8 9 60
8.42	Extra for using veneered particle board	d conforn	ning to IS 3097	Grade I, in	item of pelm	et
8.42.2	18mm thick 150mm wide. Particle board with decorative veneering on both sides.					
Code	Description	Unit	Quantity	Rate	Rate	
(i)	Details of cost for a pelmet 2 m long Materials- 18mm thick particle board (medium density exterior grade) Front- $1 \times 1.7 \times 0.15$ $= 0.255 \text{ sqm.+}$ Sides- $2 \times 0.15 \times 0.15 = 0.045 \text{ sqm.}$					

	Total = 0.300 sqm.+ Add wastage @ 5% 0.015 sqm. Total = 0.315 sqm. Say 0.32 sqm.	=					
08005	Extra cost for prelaminated particle board with teak finish both sides	Sqm	0.32	₹	520.00	₹	166.40
	TOTAL					₹	166.40
	Add for sundries & contingencies	@	3%			₹	4.99
	Total					₹	171.39
	Add for electricity charges	@	0.5%			₹	0.86 172.25
	Add GST (multiplying factor)		0.1405			₹	24.20
	Add 15% for contractor's profit and					₹	196.45
	overheads	@	15%			₹	29.47
	Add coop		10/			₹	225.92
	Add cess Cost of 2 m	@	1%			₹	2.26 228.18
	Cost of 1 m					₹	114.09
	Say					₹	114.10
8.43	Providing and fixing teak wood lipping	g of size 2	5x3 mm in	pelm	net.		
Code	Description	Unit	Quantity		Rate		Rate
08181	Details of cost for 10 metre Materials- Lipping with teak wood 25 × 3 mm	metre	10.00	₹	30.00	₹	300.00
0210	Labour- Carpenter 2nd class	Day	0.25	₹	395.00	₹	98.75
0203	Beldar	Day	0.25	₹	310.00	₹	77.50
	TOTAL					₹	476.25
	Add for sundries & contingencies	@	3%			₹	14.29
	Total	@	O E%			₹ ₹	490.54
	Add for electricity charges	w	0.5%			₹	2.45 492.99
	Add GST (multiplying factor)		0.1405			₹	69.27
	Add 15% for contractor's profit and		4.50/			₹	562.26
	overheads	@	15%			₹	84.34
	Add cess	@	1%			₹	646.60 6.47
	Cost for 10 meter	•	1 70			₹	653.07
	Cost of 1 m					₹	65.31
	Say					₹	65.30
8.44	Providing and fixing curtain rods of 1 chromium plated brass brackets fixe wherever necessary complete:						
8.44.1	12 mm dia.						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 2 m long Materials-						

08057 08172	C.P. brass curtain rod 12 mm dia C.P. brass brackets	metre each	2.0 2.0	₹	190.00	₹	380.00 14.00
08055	C.P. brass screws	100 nos	4	₹	189.00	₹	7.56
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)						
(A)	(Rate as per item no 8.30 of SH : Wood work) excluding cont/GST/etc	each	2.00	₹	15.06	₹	30.12
	TOTAL					₹	431.68
	Add for sundries & contingencies	@	3%			₹	12.95
	Total Add for electricity charges	@	0.5%			₹ ₹	444.63 2.22 446.85
	Add GST (multiplying factor)		0.1405			₹	62.78 509.63
	Add 15% for contractor's profit and overheads	@	15%			₹	76.44
	Add cess Cost of 2 m Cost of 1 m	@	1%			₹ ₹ ₹	586.07 5.86 591.93 295.97
	Say					₹	296.00
8.44	Providing and fixing curtain rods of 1.2 chromium plated brass brackets fixed wherever necessary complete:						
8.44.2	20 mm dia.						
8.44.2 Code	20 mm dia. Description	Unit	Quantity		Rate		Rate
	Description Details of cost for 2 m long	Unit	Quantity		Rate		Rate
	Description	Unit metre each	Quantity 2.0 2.0	₹	Rate 270.00 7.00	₹₹	Rate 540.00 14.00
Code 08058	Description Details of cost for 2 m long Materials- C.P. brass curtain rod 20 mm dia	metre	2.0 2.0		270.00		540.00
Code 08058 08172	Description Details of cost for 2 m long Materials- C.P. brass curtain rod 20 mm dia C.P. brass brackets C.P. brass screws Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)	metre each	2.0 2.0	₹	270.00 7.00	₹	540.00 14.00
Code 08058 08172	Description Details of cost for 2 m long Materials- C.P. brass curtain rod 20 mm dia C.P. brass brackets C.P. brass screws Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand) (Rate as per item no 8.30 of SH: Woodwork)	metre each	2.0 2.0	₹	270.00 7.00	₹	540.00 14.00 7.56
Code 08058 08172 08055	Description Details of cost for 2 m long Materials- C.P. brass curtain rod 20 mm dia C.P. brass brackets C.P. brass screws Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand) (Rate as per Item no 8.30 of SH: Wood work) TOTAL	metre each 100 nos	2.00 2.00 4	₹	270.00 7.00 189.00	₹₹₹	540.00 14.00 7.56 30.12 591.68
Code 08058 08172 08055	Description Details of cost for 2 m long Materials- C.P. brass curtain rod 20 mm dia C.P. brass brackets C.P. brass screws Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand) (Rate as per item no 8.30 of SH: Woodwork) TOTAL Add for sundries & contingencies	metre each 100 nos	2.0 2.0 4	₹	270.00 7.00 189.00	₹₹₹₹	540.00 14.00 7.56 30.12 591.68 17.75
Code 08058 08172 08055	Description Details of cost for 2 m long Materials- C.P. brass curtain rod 20 mm dia C.P. brass brackets C.P. brass screws Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand) (Rate as per Item no 8.30 of SH: Wood work) TOTAL	metre each 100 nos	2.00 2.00 4	₹	270.00 7.00 189.00	₹ ₹ ₹ ₹ ₹	540.00 14.00 7.56 30.12 591.68 17.75 609.43 3.05
Code 08058 08172 08055	Description Details of cost for 2 m long Materials- C.P. brass curtain rod 20 mm dia C.P. brass brackets C.P. brass screws Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand) (Rate as per item no 8.30 of SH: Woodwork) TOTAL Add for sundries & contingencies Total	metre each 100 nos each	2.00 2.00 4 2.000	₹	270.00 7.00 189.00	₹ ₹ ₹ ₹ ₹	540.00 14.00 7.56 30.12 591.68 17.75 609.43
Code 08058 08172 08055	Description Details of cost for 2 m long Materials- C.P. brass curtain rod 20 mm dia C.P. brass brackets C.P. brass screws Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand) (Rate as per item no 8.30 of SH : Woodwork) TOTAL Add for sundries & contingencies Total Add for electricity charges	metre each 100 nos each	2.00 2.00 4 2.000 3%	₹	270.00 7.00 189.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	540.00 14.00 7.56 30.12 591.68 17.75 609.43 3.05 612.48 86.05
Code 08058 08172 08055	Description Details of cost for 2 m long Materials- C.P. brass curtain rod 20 mm dia C.P. brass brackets C.P. brass screws Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand) (Rate as per Item no 8.30 of SH: Wood work) TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads	metre each 100 nos each @ @ @	2.00 2.00 4 2.000 3% 0.5% 0.1405 15%	₹	270.00 7.00 189.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	540.00 14.00 7.56 30.12 591.68 17.75 609.43 3.05 612.48 86.05 698.53 104.78 803.31
Code 08058 08172 08055	Description Details of cost for 2 m long Materials- C.P. brass curtain rod 20 mm dia C.P. brass brackets C.P. brass screws Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand) (Rate as per item no 8.30 of SH : Woodwork) TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and	metre each 100 nos each @	2.00 2.00 4 2.000 3% 0.5% 0.1405	₹	270.00 7.00 189.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	540.00 14.00 7.56 30.12 591.68 17.75 609.43 3.05 612.48 86.05 698.53 104.78

8.44	Providing and fixing curtain rods of 1.2 chromium plated brass brackets fixed wherever necessary complete:						
8.44.3	25 mm dia.						
Code	Description	Unit	Quantity		Rate		Rate
08059 08172	Details of cost for 2 m long Materials- C.P. brass curtain rod 25 mm dia C.P. brass brackets	metre each	2.0 2.0	₹	355.00 7.00	₹	710.00 14.00
08055	C.P. brass screws	100 nos	4	₹	189.00	₹	7.56
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)						
(A)	(Rate as per item no 8.30 of SH : Wood work) TOTAL	each	2.00	₹	15.06	₹	30.12 761.68
	Add for sundries & contingencies	@	3%			₹	22.85
	Total Add for electricity charges	@	0.5%			₹ ₹	784.53 3.92 788.45
	Add GST (multiplying factor)		0.1405			< ₹	110.78 899.23
	Add 15% for contractor's profit and overheads	@	15%			₹	134.88
	Add cess Cost of 2 m Cost of 1 m Say	@	1%			₹ ₹ ₹ ₹	1,034.11 10.34 1,044.45 522.23 522.20
8.45 8.45.1	Providing and fixing nickel plated M.S. p 20 mm dia (heavy type)	oipe curta	ain rods wi	th nic	ckel plated	brac	ckets:
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 2 m long. Materials :		,				
08179	(i) Nickel plated M.S. pipe 20 mm dia	metre	2.00	₹	56.00	₹	112.00
08176	(ii) Nickel plated M.S. bracket	each	2.00	₹	7.00	₹	14.00
08055	(iii) Screws	100 nos	4	₹	189.00	₹	7.56
05050	(v) Rawl plug 50 mm (designation 10 no)	each	2.00	₹	7.00	₹	14.00
	TOTAL		20/			₹	147.56
	Add for sundries & contingencies	@	3%			₹	4.43
	Total Add for electricity charges	@	0.5%			₹ ₹	151.99 0.76 152.75
	Add GST (multiplying factor)		0.1405			₹ ₹	21.46 174.21
	Add 15% for contractor's profit and overheads	@	15%			₹	26.13
	Add cess Cost for 2 meter Cost of 1 m Say	@	1%			₹ ₹ ₹ ₹	200.34 2.00 202.34 101.17 101.20

8.45 8.45.2	Providing and fixing nickel plated M.S. 25 mm dia (heavy type)	pipe curta	ain rods wi	th n	ickel platec	l brac	kets:
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 2m long. Materials:						
08180	(i) Nickel plated M.S. pipe 25 mm dia	metre	2.00	₹	67.00	₹	134.00
08177	(ii) Nickel plated M.S. bracket	each	2.00	₹	8.00	₹	16.00
08055	(iii) Screws	100 nos	4	₹	189.00	₹	7.56
05050	(v) Rawl plug 50 mm (designation 10 no) TOTAL	each	2.00	₹	7.00	₹	14.00 171.56
	Add for sundries & contingencies	@	3%			₹	5.15
	Total Add for electricity charges	@	0.5%			₹	176.71 0.88
	Add for electricity charges	w	0.5%			₹	177.59
	Add GST (multiplying factor)		0.1405			₹	24.95
	Add 15% for contractor's profit and		1 = 0/			₹	202.54
	overheads	@	15%			₹	30.38
	Add cess	@	1%			₹	232.92 2.33
	Cost for 2 meter	C	1 70			₹	235.25
	Cost of 1 m					₹	117.63
	Say					₹	117.60
8.46 8.46.1	Providing and fixing M.S. grills of red flats, square or round bars etc. all com Fixed to steel windows by welding.		tern in fra	imes	s of window	vs eto	c. with M.S.
Code	Description	Unit	Quantity		Rate		Rate
08139	Details of cost for a grill 90 × 120 cm = 1.08 sqm. Material- M.S. bar 16mm diameter -	quintal	0.165	₹	4,500.00	₹	742.50
	= 0.36 kg Total						
	TULAT						

```
or 0.04 quintal
5026
        M.S. flat
                                                                0.04
                                                                              4,725.00 ₹
                                                                                                  189.00
                                                    quintal
        Carriage of steel 0.165 + 0.04 = 0.205 \, g
0468
        = 0.0205 t
                                   Say 0.02 tonne tonne
                                                                0.02
                                                                                102.47
                                                                                                     2.05
        Labour-
0206
        Blacksmith 1st class
                                                      Day
                                                                0.86
                                                                          ₹
                                                                                440.00
                                                                                         ₹
                                                                                                  378.40
0203
                                                                                         ₹
        Beldar
                                                      Day
                                                                1.10
                                                                          ₹
                                                                                310.00
                                                                                                  341.00
        TOTAL
                                                                                          ₹
                                                                                                1,652.95
                                                                                          ₹
                                                                                                    49.59
        Add for sundries & contingencies
                                                             3%
                                                                                          ₹
        Total
                                                                                                1,702.54
                                                    @
                                                             0.5%
                                                                                          ₹
        Add for electricity charges
                                                                                                     8.51
                                                                                          ₹
                                                                                                1,711.05
                                                                                          ₹
        Add GST (multiplying factor)
                                                             0.1405
                                                                                                  240.40
                                                                                          ₹
                                                                                                1,951,45
         Add 15% for contractor's profit and
                                                    @
                                                                                          ₹
                                                             15%
                                                                                                  292.72
        overheads
                                                                                          ₹
                                                                                                2,244.17
         Add cess
                                                    @
                                                              1%
                                                                                          ₹
                                                                                                    22.44
         Cost for 18.54 kg.
                                                                                          ₹
                                                                                                2,266,61
                                                                                          ₹
         Cost for 1 kg.
                                                                                                  122.26
                                                                                                  122.30
                                                                                          ₹
        Say
        Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S.
 8.46
        flats, square or round bars etc. all complete.
        Fixed to openings /wooden frames
8.46.2
        with rawl plugs screws etc.
Code
        Description
                                                      Unit Quantity
                                                                              Rate
                                                                                               Rate
         Details of cost for a grill
                                      90 × 120
        cm = 1.08 \text{ sgm}.
        Material -
        M.S. bar 16mm dia. 11 \times 86 cm = 9.46
         @ 1.58kg / m
         = 14.95 \text{ kg} +
        Add wastage @ 10%
         = 1.50 \text{ kg}.
        Total
        = 16.45 \text{ kg}.
        Say
        0.165quintal
08139 M.S. bar
                                                    quintal 0.165 ₹ 4,500.00 ₹
                                                                                                  742.50
        M.S. flat 25×3.15mm
                  2 \times 120 \text{ cm} = 2.40 \text{ m} +
                  2 \times 90 \text{ cm} = 1.80 \text{ m} +
                  1 \times 120 \text{ cm} = 1.20 \text{m} +
                   2 \times 15 \text{ cm} = 0.30 \text{m}
                   Total
                               = 5.70 \text{ m}
                                     @ 0.63kg/m
        = 3.59 \text{ kg} +
         Add wastage @ 10%
        = 0.36 \text{ kg}
        Total
         = 3.95 \text{ kg}
                                         Say 4 kg.
                                  or 0.04 quintal
5026
        M.S. flat
                                                                0.04 ₹ 4,725.00 ₹
                                                    quintal
                                                                                                  189.00
        Carriage of steel 0.165 + 0.04 = 0.205 q
0468
         = 0.0205 t
```

	Say 0.02 tonne	tonne	0.02	₹	102.47	₹	2.05
0206 0203	Labour- Blacksmith 1st class Beldar	Day Day	0.86 1.10	₹	440.00 310.00	₹	378.40 341.00
05050	Rawl plug 50 mm (designation 10 no)	each	8.00	₹	7.00	₹	56.00
	TOTAL					₹	1,708.95
	Add for sundries & contingencies	@	3%			₹	51.27
	Total					₹	1,760.22
	Add for electricity charges	@	0.5%			₹ ₹	8.80 1,769.02
	Add GST (multiplying factor)		0.1405			₹ ₹	248.55 2,017.57
	Add 15% for contractor's profit and overheads	@	15%			₹	302.64
	Add cess	@	1%			₹	2,320.21 23.20
	Cost for 18.54 kg.		170			₹	2,343.41
	Cost for 1 kg. Say					₹ ₹	126.40 126.40
	Providing and fixing expanded metal 20) v 60 mi	m strands í	2 25	mm wide a	nd 1	6 mm thick
8.47	for windows etc. including 62 x 19 mm					iiu i	.o min tinck
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for a window of size						
	$140\times110~cm=1.54~sqm.$ Materials- Expended metal -20 \times 60 mm mesh 3.2 mm wide						
	= 1.4 × 1.1 m = 1.54 sqm.+ Add wastage @ 10% = 0.15 sqm. Total = 1.69 sqm.						
5034	Expanded metal	sqm	1.69	₹	305.00	₹	515.45
0468	Carriage Gamair wood beading	tonne	0.002	₹	102.47	₹	0.20
	5 m × 62 mm × 19 mm = 0.0059 cum.+						
	Add wastage @ 10% = 0.00059 cum .						
	= 0.00649 cum . Say 6 cudm .						
08283	Gamair Wood	10	6.00	₹	480.00	₹	288.00
0473	Carriage of timber	cudm cum	0.006	₹	74.50	₹	0.45
0210	Labour- Carpenter 2nd class	Day	0.33	₹	395.00	₹	130.35
0203	Beldar TOTAL	Day	0.25	₹	310.00	₹ ₹	77.50 1,011.95
	Add for sundries & contingencies	@	3%			₹	30.36
	Total		0.5%			₹	1,042.31
	Add for electricity charges	@	0.5%			₹	5.21 1,047.52
	Add GST (multiplying factor)		0.1405			₹ ₹	147.18 1,194.70
	Add 15% for contractor's profit and overheads	@	15%			₹	179.21

₹ 1,373.91

	Add cess Cost of 1.54 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	13.74 1,387.65 901.07 901.10
8.48	Providing and fixing hard drawn steel than 7.75 Kg per sqm to window fran wood.						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for a window of size						
	$140 \times 110 \text{ cm} = 1.54 \text{ sqm}.$ Materials- Hard drawn steel wire fabric -20×60 mm mesh 3.2 mm wide $= 1.4 \times 1.1 \text{ m} = 1.54 \text{ sqm.+}$ Add wastage @ 10% = $0.15 \text{ sqm}.$ Total $= 1.69 \text{ sqm}.$						
5032 0468	Hard drawn steel wire fabric Carriage	sqm tonne	1.69 0.013	₹ ₹	480.00 102.47	₹ ₹	811.20 1.33
	Gamair wood beading						
	$5 \text{ m} \times 62 \text{ mm} \times 19 \text{ mm} = 0.0059 \text{ cum.} +$						
	Add wastage @ 10% = 0.00059 cum .						
	= 0.00649 cum						
00000	Say 6 cudm.	10	(00	-	400.00	-	200.00
08283	Gamair Wood	cudm	6.00	₹ _	480.00	₹ _	288.00
0473	Carriage of timber Labour-	cum	0.006	₹	74.50	₹	0.45
0210 0203	Carpenter 2nd class Beldar TOTAL	Day Day	0.33 0.25	₹	395.00 310.00	₹ ₹	130.35 77.50 1,308.83
	Add for sundries & contingencies	@	3%			₹	39.26
	Total Add for electricity charges	@	0.5%			₹ ₹	1,348.09 6.74 1,354.83
	Add GST (multiplying factor)		0.1405			₹ ₹	190.35 1,545.18
	Add 15% for contractor's profit and overheads	@	15%			₹	231.78
	Add cess Cost of 1.54 sqm. Cost of 1 sqm. Say	@	1%			₹₹₹	1,776.96 17.77 1,794.73 1,165.41 1,165.40
8.49	Providing and fixing fly proof galvar windows using galvanised M.S. wire ga directions with wire of dia. 0.63 mm.						
8.49.1	With Gamair wood beading 62 × 19 mm.						
Code	Description	Unit	Quantity		Rate		Rate

	Details of cost for a window of size						
	140 × 110 cm = 1.54 sqm.						
	Materials- Wire gauge -20 × 60 mm mesh 3.2 mm wide						
	= 1.4×1.1 m = 1.54 sqm.+ Add wastage @ 10% = 0.15 sqm.						
	Total = 1.69 sqm.						
08173	Wire gauge	sqm	1.69	₹	260.00	₹	439.40
0468	Carriage of wire fabric Gamair wood beading	tonne	0.013	₹	102.47	₹	1.33
	$5 \text{ m} \times 62 \text{ mm} \times 19 \text{ mm} = 0.0059 \text{ cum.} +$						
	Add wastage @ 10% = 0.00059 cum . = 0.00649 cum .						
	Say 6 cudm.	10					
08283	Gamair Wood	cudm	6.00	₹	480.00	₹	288.00
0473	Carriage of timber Labour-	cum	0.006	₹	74.50	₹	0.45
0210	Carpenter 2nd class	Day	0.33	₹	395.00	₹	130.35
0203	Beldar TOTAL	Day	0.25	₹	310.00	₹	77.50 937.03
	Add for sundries & contingencies	@	3%			₹	28.11
	Total		3 70			*	965.14
	Add for electricity charges	@	0.5%			₹ ₹	4.83
	Add GST (multiplying factor)		0.1405			₹ ₹	136.28 1,106.25
	Add 15% for contractor's profit and overheads	@	15%			₹	165.94
	Add cess	@	1%			₹	1,272.19 12.72
	Cost of 1.54 sqm.					₹	1,284.91
	Cost of 1 sqm. Say					₹ ₹	834.36 834.40
8.49	Providing and fixing fly proof galvan windows using galvanised M.S. wire gad directions with wire of dia. 0.63 mm.						
8.49.2	With 12 mm mild steel U beading.						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for a window of size						
	140 × 110 cm = 1.54 sqm.						
	Materials- Wire gauge -20 × 60 mm mesh 3.2 mm wide						
	= 1.4 × 1.1 m = 1.54 sqm.+ Add wastage @ 10% = 0.15 sqm.						
	Total = 1.69 sqm.						
08173	Wire gauge	sqm	1.69	₹	260.00	₹	439.40
0468 08205	Carriage of wire fabric 12 mm mild steel U beading	tonne metre	0.013 5.00	₹	102.47 14.00	₹	1.33 70.00

0210 0203	Labour- Carpenter 2nd class Beldar TOTAL	Day Day	0.33 0.25	₹	395.00 310.00	₹₹	130.35 77.50 718.58
	Add for sundries & contingencies	@	3%			₹	21.56
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5%			₹ ₹ ₹	740.14 3.70 743.84 104.51
	Add 15% for contractor's profit and overheads	@	15%			₹	848.35 127.25
	Add cess Cost of 1.54 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	975.60 9.76 985.36 639.84 639.80

Deduct for fixing 75×25 mm hard drawn steel wire fabric of weight not less than 7.75 Kg. 8.50 per sqm in panelled and glazed door and window shutter instead of glass sheet 4 mm thick.

Code	Description	Unit	Quantity		Rate		Rate
5032 08146	Details of cost for 1 sqm. Materials- Hard drawn steel wire fabric Glass 10 kg/sqm (4 mm) Difference of cost	sqm sqm	1.00 1.00	₹	480.00 400.00	₹₹	480.00 400.00 80.00
	Add for sundries & contingencies	@	3%			₹	2.40
	Total Add for electricity charges	@	0.5%			₹	82.40 0.41 82.81
	Add GST (multiplying factor)		0.1405			₹	11.63 94.44
	Add 15% for contractor's profit and overheads	@	15%			₹	14.17
	Add cess Extra cost for 1 sqm. Say	@	1%			₹ ₹ ₹	108.61 1.09 109.70 109.70

Providing 40×5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block $30 \times 10 \times 15$ cm 1:3:6 mix (1 cement : 3 fine sand : 6 graded stone aggregate 20mm nominal size)

Code	Description	Unit	Quantity		Rate		Rate
5026	Details of cost for 1 hold fast Materials- M.S.flat 40 × 5mm 40 cm long @ 1.68 kg / m						
	=0.672 kg = 0.0067 qunital	quintal	0.0067	₹	4,725.00	₹	31.66
0468	Carriage of steel Cement concrete 1:3:6	tonne	0.00067	₹	102.47	₹	0.07
	$30 \times 10 \times 15 \text{ cm} = 0.0045 \text{ cum.+}$						
	Add wastage @ 10% =						
	0.00045 cum. Total = Say 0.005 cum.						

(A)	(Rate as per item no 4.1.5)	cum	0.005	₹	9,872.10	₹	49.36
08070	Bolts and nuts	Nos	2	₹	8.00	₹	16.00
0207 0219 0203	Labour- Blacksmith 2nd class Mason 1st class Beldar TOTAL	Day Day Day	0.03 0.03 0.03	₹ ₹	395.00 440.00 310.00	₹₹₹	11.85 13.20 9.30 131.44
	Add for sundries & contingencies	@	3%			₹	2.46
	Total Add for electricity charges	@	0.5%			₹	133.90 0.42
	Add GST (multiplying factor)		0.1405			₹ ₹	134.32 11.94 146.26
	Add 15% for contractor's profit and overheads	@	15%			₹	14.54
	Add cess Cost for 1 hold fast Say	@	1%			₹ ₹	160.80 1.61 162.41 162.40
8.52 8.52.1	Providing beams including hoisting, fithe unexposed surfaces, etc. complete Sal wood.		osition and	app	lying wood	pre	eservative for
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for a beam $450 \times 30 \times 15 \text{ cm} = 0.203 \text{ cum. Or}$ 203 cudm. Materials- Sal wood $203 \text{ cudm.} +$ Add wastage @ 2% 4.06 cudm. Total 207.06 cudm. Say 207.1 cudm	= - 1.					
08288	Sal wood	10 cudm	207.10	₹	670.00	₹	13,875.70
0473	Carriage of timber wood preservative coat	cum	0.207	₹	74.50	₹	15.42
(A)	(Rate as per item no 12.38) excluding Cess,CP,GST Labour-	sqm	0.54	₹	21.06	₹	11.37
0210 0203 0201	Carpenter 2nd class Beldar Bandhani TOTAL	Day Day Day	0.70 1.45 0.70	₹ ₹	395.00 310.00 310.00	₹ ₹ ₹	276.50 449.50 217.00 14,845.49
	Add for sundries & contingencies	@	3%			₹	445.36
	Total Add for electricity charges	@	0.5%			₹	15,290.85 76.45
	Add GST (multiplying factor)		0.1405			₹ ₹	15,367.30 2,159.11 17,526.41
	Add 15% for contractor's profit and overheads	@	15%			₹	2,628.96
	Add cess Cost for 203 cudm. Cost of 1 cum. Say	@	1%			₹₹₹₹	20,155.37 201.55 20,356.92 1,00,280.39 1,00,280.40

8.52	Providing beams including hoisting, fi the unexposed surfaces, etc. complete		osition and	app	lying wood	pre	servative for
8.52.2	Gamair Wood						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for a beam $450 \times 30 \times 15 \text{ cm} = 0.203 \text{ cum. Or}$ 203 cudm. Materials- Gamair wood $203 \text{ cudm.} +$ Add wastage @ 2% 4.06 cudm. Total 207.06 cudm.						
	Say 207.1 cudm						
08283	Gamair Wood	10 cudm	207.10	₹	480.00	₹	9,940.80
0473	Carriage of timber	cum	0.207	₹	74.50	₹	15.42
(A)	Priming coat (wood preservative) (Rate as per item no 12.38) excluding Cess,CP,GST	sqm	0.54	₹	21.06	₹	11.37
0210	Labour- Carpenter 2nd class	Day	0.70	₹	395.00	₹	276.50
0203	Beldar	Day	1.45	₹	310.00	₹	449.50
0201	Bandhani TOTAL	Day	0.70	₹	310.00	₹	217.00 10,910.59
	Add for sundries & contingencies	@	3%			₹	327.32
	Total Add for electricity charges	@	0.5%			₹ ₹	11,237.91 56.19
	Add GST (multiplying factor)		0.1405			₹ ₹	11,294.10 1,586.82 12,880.92
	Add 15% for contractor's profit and overheads	@	15%			₹	1,932.14
	Add cess Cost for 203 cudm. Cost of 1 cum. Say	@	1%			₹ ₹ ₹ ₹	14,813.06 148.13 14,961.19 73,700.44 73,700.40
8.52 8.52.3	Providing beams including hoisting, fix Local Teak Wood	king in po	sition and a	apply	ying wood	ores	ervative for
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for a beam 450 × 30 × 15 cm = 0.203 cum. Or 203 cudm. Materials- Teak Wood = 203 cudm.+ Add wastage @ 2% = 4.06 cudm. Total = 207.06 cudm. Say 207.1 cudm	=					
08290	Local Teak Wood	10	207.10	₹	520.00	₹	10,769.20
0473	Carriage of timber	cudm cum	0.207	₹	74.50	₹	15.42

(A)	Priming coat (wood preservative) (Rate as per item no 12.38) excluding Cess,CP,GST	sqm	0.54	₹	21.06	₹	11.37
0210	Labour- Carpenter 2nd class	Day	0.70	₹	395.00	₹	276.50
0210	Beldar	Day	1.45	₹	310.00	₹	449.50
0201	Bandhani	Day	0.70	₹	310.00	₹	217.00
	TOTAL					₹	11,738.99
	Add for sundries & contingencies	@	3%			₹	352.17
	Total Add for electricity charges	@	0.5%			₹	12,091.16 60.46
	Add for electricity charges	<u>@</u>	0.5%			₹	12,151.62
	Add GST (multiplying factor)		0.1405			₹	1,707.30 13,858.92
	Add 15% for contractor's profit and		1 = 0/				
	overheads	@	15%			₹	2,078.84
	Add ooo		1%			₹	15,937.76 159.38
	Add cess Cost for 203 cudm.	@	1 70			₹	16,097.14
	Cost of 1 cum.					₹	79,296.26
	Say					₹	79,296.30
8.53	Providing and fixing ISI marked M.S. screws etc. complete:	pressed b	utt hinges	brig	ht finished	d wit	h necessary
8.53.1	125 × 65 × 2.12 mm						
Code	Description	Unit	Quantity		Rate		Rate
08060	Details of cost for ten Materials-Butt hinges 125 \times 65 \times 2.12 mm	10 Nos	10.00	₹	145.00	₹	145.00
08065	Iron screws 50 mm	100 Nos	80.00	₹	80.00	₹	64.00
0468	Carriage of materials	tonne	0.0135	₹	102.47	₹	1.38
0210	Labour- Carpenter 2nd class	Day	0.14	₹	395.00	₹	55.30
0203	Beldar	Day	0.09	₹	310.00	₹	27.90
	TOTAL	,				₹	293.58
	Add for sundries & contingencies	@	3%			₹	8.81
	Total		0.5%			₹	302.39
	Add for electricity charges	@	0.5%			₹	1.51 303.90
	Add GST (multiplying factor)		0.1405			₹	42.70
	rida co. (a.t.p.jg racto.)		011100			₹	346.60
	Add 15% for contractor's profit and overheads	@	15%			₹	51.99
						₹	398.59
	Add cess	@	1%			₹	3.99
	Cost of 10 hinges Cost of 1 butt hinge					₹	402.58 40.26
	Say					₹	40.30
8.53	Providing and fixing ISI marked M.S. screws etc. complete:	pressed b	utt hinges	brig	ht finished	d wit	h necessary
8.53.2	100 × 58 × 1.90 mm						
Code	Description	Unit	Quantity		Rate		Rate
2 3.0	Details of cost for ten						
	Materials-						

000/4	B	40.11	40.00	_	00.00	_	
08061	Butt hinges 100 × 58 × 1.9 mm	10 Nos	10.00	₹	90.00	₹	90.00
08066	Iron screws 40 mm	100 Nos	80.00	₹	63.00	₹	50.40
0468	Carriage of materials Labour-	tonne	0.0086	₹	102.47	₹	0.88
0210	Carpenter 2nd class	Day	0.14	₹	395.00	₹	55.30
0203	Beldar TOTAL	Day	0.09	₹	310.00	₹	27.90 224.48
	Add for sundries & contingencies	@	3%			₹	6.73
	Total					₹	231.21
	Add for electricity charges	@	0.5%			₹ ₹	1.16 232.37
	Add GST (multiplying factor)		0.1405			₹	32.65 265.02
	Add 15% for contractor's profit and overheads	@	15%			₹	39.75
	Add cess	@	1%			₹	304.77 3.05
	Cost of 10 hinges					₹	307.82
	Cost of 1 butt hinge Say					₹	30.78 30.80
8.53	Providing and fixing ISI marked M.S. screws etc. complete:	pressed b	utt hinges	brig	ht finished	d with	n necessary
8.53.3	75 × 47 × 1.70 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for ten Materials-						
			40.00	-	40.00	-	
08062	Butt hinges 175 × 47 × 1.7 mm	10 Nos	10.00	₹	68.00	₹	68.00
08062	Butt hinges $175 \times 47 \times 1.7$ mm Iron screws 30 mm	10 Nos 100 Nos		₹	47.00	₹	68.00 28.20
	Iron screws 30 mm Carriage of materials						
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class	100 Nos tonne Day	60.00 0.011 0.14	₹	47.00 102.47 395.00	₹₹	28.20 1.13 55.30
08067 0468	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar	100 Nos tonne	60.00	₹	47.00 102.47	₹	28.20 1.13 55.30 27.90
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class	100 Nos tonne Day	60.00 0.011 0.14	₹	47.00 102.47 395.00	₹ ₹ ₹	28.20 1.13 55.30
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL	100 Nos tonne Day Day	60.00 0.011 0.14 0.09	₹	47.00 102.47 395.00	₹ ₹ ₹ ₹	28.20 1.13 55.30 27.90 180.53
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies	100 Nos tonne Day Day	60.00 0.011 0.14 0.09	₹	47.00 102.47 395.00	₹₹₹₹₹₹₹₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95 0.93
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total	100 Nos tonne Day Day	60.00 0.011 0.14 0.09	₹	47.00 102.47 395.00	₹₹₹₹₹₹₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor)	100 Nos tonne Day Day	60.00 0.011 0.14 0.09 3% 0.5% 0.1405	₹	47.00 102.47 395.00	₹₹₹₹₹₹₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95 0.93 186.88 26.26 213.14
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges	100 Nos tonne Day Day	60.00 0.011 0.14 0.09 3%	₹	47.00 102.47 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95 0.93 186.88 26.26 213.14 31.97
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads	100 Nos tonne Day Day	60.00 0.011 0.14 0.09 3% 0.5% 0.1405	₹	47.00 102.47 395.00	₹₹₹₹₹₹₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95 0.93 186.88 26.26 213.14
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 10 hinges	100 Nos tonne Day Day	60.00 0.011 0.14 0.09 3% 0.5% 0.1405	₹	47.00 102.47 395.00	₹₹₹₹₹₹₹₹₹₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95 0.93 186.88 26.26 213.14 31.97 245.11 2.45 247.56
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 10 hinges Cost of 1 butt hinge	100 Nos tonne Day Day	60.00 0.011 0.14 0.09 3% 0.5% 0.1405	₹	47.00 102.47 395.00	₹₹₹₹₹₹₹₹₹₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95 0.93 186.88 26.26 213.14 31.97 245.11 2.45 247.56 24.76
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 10 hinges Cost of 1 butt hinge Say	100 Nos tonne Day Day @ @ @ @ @	60.00 0.011 0.14 0.09 3% 0.5% 0.1405 15%	₹₹₹	47.00 102.47 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95 0.93 186.88 26.26 213.14 31.97 245.11 2.45 247.56 24.76 24.80
08067 0468 0210	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 10 hinges Cost of 1 butt hinge	100 Nos tonne Day Day @ @ @ @ @	60.00 0.011 0.14 0.09 3% 0.5% 0.1405 15%	₹₹₹	47.00 102.47 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95 0.93 186.88 26.26 213.14 31.97 245.11 2.45 247.56 24.76 24.80
08067 0468 0210 0203	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 10 hinges Cost of 1 butt hinge Say Providing and fixing ISI marked M.S.	100 Nos tonne Day Day @ @ @ @ @	60.00 0.011 0.14 0.09 3% 0.5% 0.1405 15%	₹₹₹	47.00 102.47 395.00 310.00	₹ ₹ ₹₹₹₹₹₹₹ ₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95 0.93 186.88 26.26 213.14 31.97 245.11 2.45 247.56 24.76 24.80
08067 0468 0210 0203 8.53	Iron screws 30 mm Carriage of materials Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 10 hinges Cost of 1 butt hinge Say Providing and fixing ISI marked M.S. screws etc. complete:	100 Nos tonne Day Day @ @ @ @ @	60.00 0.011 0.14 0.09 3% 0.5% 0.1405 15%	₹₹₹	47.00 102.47 395.00 310.00	₹ ₹ ₹₹₹₹₹₹₹ ₹	28.20 1.13 55.30 27.90 180.53 5.42 185.95 0.93 186.88 26.26 213.14 31.97 245.11 2.45 247.56 24.76 24.80

	Materials-						
08063	Butt hinges 50 × 37 × 1.5 mm	10 Nos	10.00	₹	68.00	₹	68.00
08069	Iron screws 20 mm	100 Nos	40.00	₹	32.00	₹	12.80
0468	Carriage of materials	tonne	0.002	₹	102.47	₹	0.20
0210	Carpenter 2nd class TOTAL	Day	0.08	₹	395.00	₹	31.60 112.60
	Add for sundries & contingencies	@	3%			₹	3.38
	Total Add for electricity charges	@	0.5%			₹ ₹	115.98 0.58 116.56
	Add GST (multiplying factor)		0.1405			₹ ₹	16.38 132.94
	Add 15% for contractor's profit and overheads	@	15%			₹	19.94
	Add cess Cost of 10 hinges Cost of 1 butt hinge Say	@	1%			₹ ₹ ₹ ₹	152.88 1.53 154.41 15.44 15.40
8.54	Providing and fixing IS: 1341 marked I etc. complete:	M.S. heavy	v weight bu	utt hi	inges with I	neces	sary screws
8.54.1	125 × 90 × 4.00 mm						
Code	Description	Unit	Quantity		Rate		Rate
08250	Details of cost for ten Materials-M.S. heavy weight but hinges $125 \times 90 \times 4.0 \text{ mm}$ IS: 1341 marked.	10 Nos	10.00	₹	240.00	₹	240.00
08065	Iron screws 50 mm	100 Nos	80.00	₹	80.00	₹	64.00
0468	Carriage of materials Labour-	tonne	0.035	₹	102.47	₹	3.59
0210 0203	Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹ ₹	55.30 27.90 390.79
	Add for sundries & contingencies	@	3%			₹	11.72
	Total Add for electricity charges	@	0.5%			₹ ₹	402.51 2.01 404.52
	Add GST (multiplying factor)		0.1405			₹ ₹	56.84 461.36
	Add 15% for contractor's profit and overheads	@	15%			₹	69.20
						₹	530.56

Providing and fixing IS: 1341 marked M.S. heavy weight butt hinges with necessary screws etc. complete:

 $8.54.2 \quad 100 \times 75 \times 3.50 \text{ mm}$

Say

53.60

Code	Description	Unit	Quantity		Rate		Rate
08251	Details of cost for ten Materials- M.S. heavy weight butt hinges 100×75	10 Nos.	10.00	₹	160.00	₹	160.00
00231	× 3.5 mm IS: 1341 marked	10 1405.	10.00		100.00		100.00
08066	Iron screws 40 mm	100 Nos	80.00	₹	63.00	₹	50.40
0468	Carriage of materials Labour-	tonne	0.021	₹	102.47	₹	2.15
0210 0203	Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹ ₹	55.30 27.90 295.75
	Add for sundries & contingencies	@	3%			₹	8.87
	Total Add for electricity charges	@	0.5%			₹ ₹	304.62 1.52 306.14
	Add GST (multiplying factor)		0.1405			₹	43.01 349.15
	Add 15% for contractor's profit and overheads	@	15%			₹	52.37
	Add cess Cost of 10 hinges Cost of 1 butt hinge Say	@	1%			₹ ₹ ₹	401.52 4.02 405.54 40.55 40.60
8.54 8.54.3	Providing and fixing IS : 1341 marked N etc. complete : $75 \times 60 \times 3.10$ mm	1.S. heavy	weight bu	tt hi	nges with r	neces	ssary screws
Code	Description	Unit	Quantity		Rate		Rate
oodc	Details of cost for ten	OTHE	Quartity		Rate		Rate
08252	Materials- M.S. heavy weight butt hinges 75 × 60 × 3.1 mm IS: 1341 marked	10 Nos	10.00	₹	100.00	₹	100.00
08067	Iron screws 30 mm	100 Nos	60.00	₹	47.00	₹	28.20
0468	Carriage of materials Labour-	tonne	0.011	₹	102.47	₹	1.13
0210 0203	Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹ ₹	55.30 27.90 212.53
	Add for sundries & contingencies	@	3%			₹	6.38
	Total Add for electricity charges	@	0.5%			₹	218.91
	Add GST (multiplying factor)		0.1405			₹ ₹	220.00 30.91 250.91
	Add 15% for contractor's profit and overheads	@	15%			₹	37.64
						₹	288.55
	Add cess Cost of 10 hinges	@	1%			₹	2.89 291.44
	Cost of 1 butt hinge					₹	29.14
	Say					₹	29.10

8.54	Providing and fixing IS: 1341 marked Netc. complete:	M.S. heavy	weight bu	tt hi	nges with r	neces	ssary screws
8.54.4	50 × 40 × 2.50 mm						
Code	Description	Unit	Quantity		Rate		Rate
08253	Details of cost for ten Materials-M.S. heavy weight butt hinges $50 \times 40 \times 2.5 \text{ mm}$ IS: 1341 marked	10 Nos	10.00	₹	85.00	₹	85.00
08069	Iron screws 20 mm	100 Nos	40.00	₹	32.00	₹	12.80
0468	Carriage of materials	tonne	0.004	₹	102.47	₹	0.41
0210	Labour- Carpenter 2nd class TOTAL	Day	0.08	₹	395.00	₹	31.60 129.81
	Add for sundries & contingencies	@	3%			₹	3.89
	Total Add for electricity charges	@	0.5%			₹ ₹	133.70 0.67 134.37
	Add GST (multiplying factor)		0.1405			₹	18.88
	Add 15% for contractor's profit and					₹	153.25
	overheads	@	15%			₹	22.99
	Add cess	@	1%			₹	176.24 1.76
	Cost of 10 hinges		170			₹	178.00
	Cost of 1 butt hinge Say					₹ ₹	17.80 17.80
8.55 8.55.1	Providing and fixing ISI marked oxidise etc. complete. 125 × 65 × 2.12 mm	ed M.S. pre	essed butt	hing	es with nec	essa	ry screws
	etc. complete.	ed M.S. pre Unit	essed butt Quantity	hing	es with nec	essa	ry screws Rate
8.55.1	etc. complete. $125 \times 65 \times 2.12 \text{ mm}$	·		hing		essa ₹	
8.55.1 Code	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 ×	Unit	Quantity 10.00		Rate		Rate
8.55.1 Code 08071	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials	Unit 10 Nos	Quantity 10.00	₹	Rate 154.00	₹	Rate 154.00
8.55.1 Code 08071 08100	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour-	Unit 10 Nos 100 Nos tonne	Ouantity 10.00 80.00	₹	Rate 154.00 80.00	₹	Rate 154.00 64.00
8.55.1 Code 08071 08100 0468	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour- Carpenter II class Beldar	Unit 10 Nos 100 Nos	Quantity 10.00 80.00 0.014	₹₹	Rate 154.00 80.00 102.47	₹₹₹₹	Rate 154.00 64.00 1.43 55.30 27.90
8.55.1 Code 08071 08100 0468 0210	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL	Unit 10 Nos 100 Nos tonne Day Day	10.00 80.00 0.014 0.14 0.09	₹₹₹	Rate 154.00 80.00 102.47 395.00	₹₹₹₹₹	Rate 154.00 64.00 1.43 55.30 27.90 302.63
8.55.1 Code 08071 08100 0468 0210	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies	Unit 10 Nos 100 Nos tonne Day	Quantity 10.00 80.00 0.014 0.14	₹₹₹	Rate 154.00 80.00 102.47 395.00	₹₹₹₹₹	Rate 154.00 64.00 1.43 55.30 27.90 302.63 9.08
8.55.1 Code 08071 08100 0468 0210	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total	Unit 10 Nos 100 Nos tonne Day Day	10.00 80.00 0.014 0.14 0.09	₹₹₹	Rate 154.00 80.00 102.47 395.00	₹₹₹₹₹	Rate 154.00 64.00 1.43 55.30 27.90 302.63 9.08 311.71
8.55.1 Code 08071 08100 0468 0210	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges	Unit 10 Nos 100 Nos tonne Day Day @	Quantity 10.00 80.00 0.014 0.14 0.09 3% 0.5%	₹₹₹	Rate 154.00 80.00 102.47 395.00	₹₹₹₹₹₹₹	Rate 154.00 64.00 1.43 55.30 27.90 302.63 9.08 311.71 1.56 313.27
8.55.1 Code 08071 08100 0468 0210	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total	Unit 10 Nos 100 Nos tonne Day Day @	10.00 80.00 0.014 0.14 0.09	₹₹₹	Rate 154.00 80.00 102.47 395.00	₹₹₹₹₹₹	Rate 154.00 64.00 1.43 55.30 27.90 302.63 9.08 311.71 1.56
8.55.1 Code 08071 08100 0468 0210	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges	Unit 10 Nos 100 Nos tonne Day Day @	Quantity 10.00 80.00 0.014 0.14 0.09 3% 0.5%	₹₹₹	Rate 154.00 80.00 102.47 395.00	₹₹₹₹₹₹₹₹₹	Rate 154.00 64.00 1.43 55.30 27.90 302.63 9.08 311.71 1.56 313.27 44.01 357.28 53.59
8.55.1 Code 08071 08100 0468 0210	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and	Unit 10 Nos 100 Nos tonne Day Day @	10.00 80.00 0.014 0.14 0.09 3% 0.5% 0.1405	₹₹₹	Rate 154.00 80.00 102.47 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 154.00 64.00 1.43 55.30 27.90 302.63 9.08 311.71 1.56 313.27 44.01 357.28
8.55.1 Code 08071 08100 0468 0210	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 10 nos.	Unit 10 Nos 100 Nos tonne Day Day @ @	10.00 80.00 0.014 0.14 0.09 3% 0.5% 0.1405 15%	₹₹₹	Rate 154.00 80.00 102.47 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 154.00 64.00 1.43 55.30 27.90 302.63 9.08 311.71 1.56 313.27 44.01 357.28 53.59 410.87 4.11 414.98
8.55.1 Code 08071 08100 0468 0210	etc. complete. 125 × 65 × 2.12 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 125 × 65 × 2.12 mm Iron screws (oxidised) 50 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess	Unit 10 Nos 100 Nos tonne Day Day @ @	10.00 80.00 0.014 0.14 0.09 3% 0.5% 0.1405 15%	₹₹₹	Rate 154.00 80.00 102.47 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 154.00 64.00 1.43 55.30 27.90 302.63 9.08 311.71 1.56 313.27 44.01 357.28 53.59 410.87 4.11

8.55	Providing and fixing ISI marked oxidise etc. complete.	d M.S. pre	essed butt	hing	es with nec	essar	ry screws
8.55.2	100 × 58 × 1.90 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-M.S. butt hinges (oxidised) $100 \times 58 \times$						
08072	1.9 mm	10 Nos	10.00	₹	91.00	₹	91.00
08101	Iron screws (oxidised) 40 mm	100 Nos	80.00	₹	68.00	₹	54.40
0468	Carriage of materials Labour-	tonne	0.013	₹	102.47	₹	1.33
0210	Carpenter II class	Day	0.14	₹	395.00	₹	55.30
0203	Beldar TOTAL	Day	0.09	₹	310.00	₹ ₹	27.90 229.93
	Add for sundries & contingencies	@	3%			` ₹	6.90
	Total		070			` ₹	236.83
	Add for electricity charges	@	0.5%			₹	1.18
	Add GST (multiplying factor)		0.1405			₹	238.01 33.44
	Add GST (mattiplying factor)		0.1405			₹	271.45
	Add 15% for contractor's profit and overheads	@	15%			₹	40.72
	Add cess	@	1%			₹ ₹	312.17 3.12
	Cost of 10 nos.	<u>@</u>	1 /0			₹	315.29
	Cost of 1 no					₹	31.53
	Say					₹	31.50
8.55	Providing and fixing ISI marked oxidise etc. complete.	d M.S. pre	essed butt	hing	es with nec	essar	ry screws
8.55 8.55.3		d M.S. pre	essed butt	hing	es with nec	essar	ry screws
	etc. complete.	d M.S. pre Unit	essed butt Quantity	hing	es with nec	essar	ry screws Rate
8.55.3	etc. complete. $75 \times 47 \times 1.70 \text{ mm}$			hing		essar	
8.55.3	etc. complete. $75 \times 47 \times 1.70 \text{ mm}$ Description Details of cost for 10 nos.			hing	Rate	essar ₹	
8.55.3 Code	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 ×	Unit	Quantity 10.00		Rate		Rate
8.55.3 Code 08073	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm	Unit 10 Nos	Quantity 10.00	₹	Rate 70.00	₹	Rate 70.00
8.55.3 Code 08073 08102 0468 0210	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm Iron screws (oxidised) 30 mm Carriage of materials Labour- Carpenter II class	Unit 10 Nos 100 Nos tonne Day	10.00 60.00 0.005 0.14	₹₹₹	70.00 52.00 102.47 395.00	₹₹₹₹	70.00 31.20 0.51 55.30
8.55.3 Code 08073 08102 0468	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm Iron screws (oxidised) 30 mm Carriage of materials Labour- Carpenter II class Beldar	Unit 10 Nos 100 Nos tonne	10.00 60.00 0.005	₹₹	70.00 52.00 102.47	₹₹	70.00 31.20 0.51 55.30 27.90
8.55.3 Code 08073 08102 0468 0210	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm Iron screws (oxidised) 30 mm Carriage of materials Labour- Carpenter II class	Unit 10 Nos 100 Nos tonne Day	10.00 60.00 0.005 0.14	₹₹₹	70.00 52.00 102.47 395.00	₹₹₹₹	70.00 31.20 0.51 55.30
8.55.3 Code 08073 08102 0468 0210	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm Iron screws (oxidised) 30 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL	Unit 10 Nos 100 Nos tonne Day Day	10.00 60.00 0.005 0.14 0.09	₹₹₹	70.00 52.00 102.47 395.00	₹₹₹₹₹	70.00 31.20 0.51 55.30 27.90 184.91
8.55.3 Code 08073 08102 0468 0210	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm Iron screws (oxidised) 30 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies	Unit 10 Nos 100 Nos tonne Day Day	10.00 60.00 0.005 0.14 0.09	₹₹₹	70.00 52.00 102.47 395.00	₹₹₹₹₹₹₹	70.00 31.20 0.51 55.30 27.90 184.91 5.55 190.46 0.95
8.55.3 Code 08073 08102 0468 0210	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm Iron screws (oxidised) 30 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total	Unit 10 Nos 100 Nos tonne Day Day @	10.00 60.00 0.005 0.14 0.09	₹₹₹	70.00 52.00 102.47 395.00	₹₹₹₹₹₹₹	70.00 31.20 0.51 55.30 27.90 184.91 5.55 190.46 0.95 191.41 26.89
8.55.3 Code 08073 08102 0468 0210	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm Iron screws (oxidised) 30 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor)	Unit 10 Nos 100 Nos tonne Day Day @ @	10.00 60.00 0.005 0.14 0.09 3% 0.5% 0.1405	₹₹₹	70.00 52.00 102.47 395.00	₹₹₹₹₹₹₹₹	70.00 31.20 0.51 55.30 27.90 184.91 5.55 190.46 0.95 191.41 26.89 218.30
8.55.3 Code 08073 08102 0468 0210	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm Iron screws (oxidised) 30 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges	Unit 10 Nos 100 Nos tonne Day Day @	10.00 60.00 0.005 0.14 0.09 3%	₹₹₹	70.00 52.00 102.47 395.00	₹₹₹₹₹₹₹₹₹₹	70.00 31.20 0.51 55.30 27.90 184.91 5.55 190.46 0.95 191.41 26.89 218.30 32.75
8.55.3 Code 08073 08102 0468 0210	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm Iron screws (oxidised) 30 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads	Unit 10 Nos 100 Nos tonne Day Day @ @ @	10.00 60.00 0.005 0.14 0.09 3% 0.5% 0.1405 15%	₹₹₹	70.00 52.00 102.47 395.00	₹₹₹₹₹₹₹₹₹₹	70.00 31.20 0.51 55.30 27.90 184.91 5.55 190.46 0.95 191.41 26.89 218.30 32.75 251.05
8.55.3 Code 08073 08102 0468 0210	etc. complete. 75 × 47 × 1.70 mm Description Details of cost for 10 nos. Materials- M.S. butt hinges (oxidised) 75 × 47 × 1.7 mm Iron screws (oxidised) 30 mm Carriage of materials Labour- Carpenter II class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and	Unit 10 Nos 100 Nos tonne Day Day @ @	10.00 60.00 0.005 0.14 0.09 3% 0.5% 0.1405	₹₹₹	70.00 52.00 102.47 395.00	₹₹₹₹₹₹₹₹₹₹	70.00 31.20 0.51 55.30 27.90 184.91 5.55 190.46 0.95 191.41 26.89 218.30 32.75

25.40

₹

Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws 8.55 etc. complete. 8.55.4 $50 \times 37 \times 1.50 \text{ mm}$ Code Description Unit Quantity Rate Rate Details of cost for 10 nos. Materials-M.S. butt hinges (oxidised) $50 \times 37 \times$ 10 Nos 65.00 08074 10.00 ₹ 65.00 ₹ 1.5 mm 08104 Iron screws (oxidised) 20 mm 100 Nos 40.00 ₹ 38.00 ₹ 15.20 0468 Carriage of materials tonne 0.002 102.47 0.20 Labour-395.00 0210 Carpenter II class Day 0.08 ₹ 31.60 **TOTAL** ₹ 112.00 ₹ Add for sundries & contingencies @ 3% 3.36 ₹ 115.36 Add for electricity charges @ ₹ 0.5% 0.58 ₹ 115.94 Add GST (multiplying factor) 0.1405 ₹ 16.29 ₹ 132.23 Add 15% for contractor's profit and ₹ @ 15% 19.83 overheads ₹ 152.06 Add cess @ 1% ₹ 1.52 Cost of 10 nos. ₹ 153.58 ₹ Cost of 1 no 15.36 ₹ 15.40 Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary 8.56 screws etc. complete: 8.56.1 $150 \times 125 \times 27 \times 2.80 \text{ mm}$ Description Rate Rate Code Unit Quantity Details of cost for 10 nos. Materials-08075 M.S. parliamentary hinges (oxidised) 10 Nos 10.00 360.00 ₹ 360.00 150 × 125 × 27 × 2.8 mm 08101 Iron screws (oxidised) 40 mm 100 Nos 80.00 ₹ 68.00 ₹ 54.40 0468 Carriage of materials tonne 0.009 ₹ 102.47 ₹ 0.92 Labour-0210 Carpenter II class 0.14 ₹ 395.00 ₹ 55.30 Day 43.40 0203 310.00 ₹ Beldar Day 0.14 ₹ **TOTAL** ₹ 514.02 ₹ Add for sundries & contingencies 3% 15.42 ₹ 529.44 ₹ Add for electricity charges @ 0.5% 2.65 ₹ 532.09 ₹ Add GST (multiplying factor) 0.1405 74.76 ₹ 606.85 Add 15% for contractor's profit and **@** 15% ₹ 91.03 overheads ₹ 697.88 Add cess @ 1% ₹ 6.98 Cost of 10 nos. 704.86 ₹ Cost of 1 no ₹ 70.49

Say

₹ 70.50 Say Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary 8.56 screws etc. complete: 125 × 125 × 27 × 2.80 mm 8.56.2 Description Unit Quantity Rate Code Rate Details of cost for 10 nos. Materials-08076 M.S. parliamentary hinges (oxidised) 10 Nos 10.00 ₹ 330.00 ₹ 330.00 125 × 125 × 27 × 2.8 mm 08101 Iron screws (oxidised) 40 mm 100 Nos 80.00 ₹ 68.00 ₹ 54.40 0468 Carriage of materials tonne 0.007 ₹ 102.47 0.72Labour-0210 Carpenter II class 0.14 395.00 ₹ 55.30 Day ₹ ₹ 0203 Beldar Day 0.14 ₹ 310.00 43.40 **TOTAL** ₹ 483.82 Add for sundries & contingencies 3% ₹ 14.51 (a) ₹ 498.33 Add for electricity charges @ 0.5% ₹ 2.49 ₹ 500.82 Add GST (multiplying factor) ₹ 0.1405 70.37 ₹ 571.19 Add 15% for contractor's profit and 15% ₹ 85.68 overheads ₹ 656.87 Add cess @ 1% ₹ 6.57 Cost of 10 nos. ₹ 663.44 Cost of 1 no ₹ 66.34 ₹ 66.30 Say Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary 8.56 screws etc. complete: 8.56.3 100 × 125 × 27 × 2.80 mm Code Description Unit Quantity Rate Rate Details of cost for 10 nos. Materials-08077 M.S. parliamentary hinges (oxidised) ₹ 245.00 10 Nos 10.00 ₹ 245.00 100 × 125 × 27 × 2.8 mm 08101 Iron screws (oxidised) 40 mm 100 Nos 80.00 68.00 54.40 ₹ ₹ 0468 Carriage of materials 0.006 ₹ ₹ 0.61 tonne 102.47 Labour-0210 Carpenter II class Day 0.14 ₹ 395.00 ₹ 55.30 0203 Beldar Day 0.14 310.00 ₹ 43.40 ₹ 398.71 **TOTAL** Add for sundries & contingencies <u>@</u> 3% ₹ 11.96 ₹ **Total** 410.67 ₹ Add for electricity charges @ 0.5% 2.05 ₹ 412.72 Add GST (multiplying factor) ₹ 0.1405 57.99 ₹ 470.71 Add 15% for contractor's profit and @ ₹ 15% 70.61 overheads 541.32 ₹ Add cess @ 1% ₹ 5.41

	Cost of 10 nos. Cost of 1 no Say					₹ ₹	546.73 54.67 54.70
8.56 8.56.4	Providing and fixing ISI marked oxidise screws etc. complete : $75 \times 100 \times 20 \times 2.24$ mm	ed M.S. pre	essed Parlia	amei	ntary hinge	s wi	th necessary
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08078	M.S. parliamentary hinges (oxidised)	10 Nos	10.00	₹	220.00	₹	220.00
	75 × 100 × 20 × 2.24 mm						
08102	Iron screws (oxidised) 30 mm	100 Nos	60.00	₹	52.00	₹	31.20
0468	Carriage of materials Labour-	tonne	0.004	₹	102.47	₹	0.41
0210 0203	Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.14	₹	395.00 310.00	₹ ₹	55.30 43.40 350.31
	Add for sundries & contingencies	@	3%			₹	10.51
	Total		370			₹	360.82
	Add for electricity charges	@	0.5%			₹	1.80
	Add CST (multiplying factor)		0.1405			₹ ₹	362.62 50.95
	Add GST (multiplying factor)		0.1405			₹	413.57
	Add 15% for contractor's profit and overheads	@	15%			₹	62.04
	Add cess Cost of 10 nos. Cost of 1 no Say	@	1%			₹₹₹₹	475.61 4.76 480.37 48.04 48.00
0.55	Providing and fixing ISI marked oxidis	sed M.S. s	ingle actin	a sp	oring hinges	s wit	th necessary
8.57	screws etc. complete :		3	5 1	3 3		J
8.57.1	150 mm		0		5.		5.
Code	Description	Unit	Quantity		Rate		Rate
08079	Details of cost for 10 nos. Materials- M.S. single acting spring hinges (oxidised) 150 mm	each	10.00	₹	140.00	₹	1,400.00
08100	Iron screws (oxidised) 50 mm	100 Nos	80.00	₹	80.00	₹	64.00
0468	Carriage of materials Labour-	tonne	0.004	₹	102.47	₹	0.41
0210 0203	Carpenter II class Beldar TOTAL	Day Day	0.40 0.20	₹	395.00 310.00	₹ ₹	158.00 62.00 1,684.41
	Add for sundries & contingencies	@	3%			₹	50.53
	Total Add for electricity charges	@	0.5%			₹	1,734.94 8.67
	Add GST (multiplying factor)		0.1405			₹ ₹	1,743.61 244.98 1,988.59
	Add 15% for contractor's profit and overheads	@	15%			₹	298.29

	Add cess Cost of 10 nos. Cost of 1 no Say	@	1%			₹ ₹ ₹ ₹	2,286.88 22.87 2,309.75 230.98 231.00
8.57	Providing and fixing ISI marked oxide screen	ised M.S. si ews etc. co		g spr	ing hinges	with	necessary
8.57.2	125 mm						
Code	Description	Unit	Quantity		Rate		Rate
08080	Details of cost for 10 nos. Materials- M.S. single acting spring hinges (oxidised) 125 mm	each	10.00	₹	124.00	₹	1,240.00
08100	Iron screws (oxidised) 50 mm	100 Nos	80.00	₹	80.00	₹	64.00
0468	Carriage of materials Labour-	tonne	0.0035	₹	102.47	₹	0.36
0210 0203	Carpenter II class Beldar TOTAL	Day Day	0.40 0.20	₹	395.00 310.00	₹ ₹	158.00 62.00 1,524.36
	Add for sundries & contingencies	@	3%			₹	45.73
	Total Add for electricity charges	@	0.5%			₹ ₹	1,570.09 7.85 1,577.94
	Add GST (multiplying factor)		0.1405			₹	221.70 1,799.64
	Add 15% for contractor's profit and overheads	@	15%			₹	269.95
	Add cess Cost of 10 nos. Cost of 1 no Say	@	1%			₹ ₹ ₹ ₹	2,069.59 20.70 2,090.29 209.03 209.00
8.57	Providing and fixing ISI marked oxidis screws etc. complete:	ed M.S. sin	gle acting	sprii	ng hinges w	ith r	necessary
8.57.3	100 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08081	M.S. single acting spring hinges (oxidised) 100 mm	each	10.00	₹	100.00	₹	1,000.00
08101	Iron screws (oxidised) 40 mm	100 Nos	80.00	₹	68.00	₹	54.40
0468	Carriage of materials Labour-	tonne	0.003	₹	102.47	₹	0.31
0210 0203	Carpenter II class Beldar TOTAL	Day Day	0.40 0.20	₹	395.00 310.00	₹ ₹	158.00 62.00 1,274.71
	Add for sundries & contingencies	@	3%			₹	38.24
	Total Add for electricity charges	@	0.5%			₹ ₹	1,312.95 6.56 1,319.51
	Add GST (multiplying factor)		0.1405			₹	185.39 1,504.90

	Add 15% for contractor's profit and overheads	@	15%			₹	225.74
	Add cess Cost of 10 nos. Cost of 1 no Say	@	1%			₹ ₹ ₹	1,730.64 17.31 1,747.95 174.80 174.80
8.58 8.58.1	Providing and fixing oxidised M.S. doubt complete. 150 mm	ole acting	spring hin	ges (with necess	ary s	screws etc.
Code	Description	Unit	Quantity		Rate		Rate
08082	Details of cost for 10 nos. Materials- M.S. double acting spring hinges (oxidised) 150 mm	each	10.00	₹	160.00	₹	1,600.00
08100	Iron screws (oxidised) 50 mm	100 Nos	80.00	₹	80.00	₹	64.00
0468	Carriage of materials	tonne	0.004	₹	102.47	₹	0.41
0210 0203	Labour- Carpenter II class Beldar TOTAL	Day Day	0.40 0.20	₹	395.00 310.00	₹ ₹	158.00 62.00 1,884.41
	Add for sundries & contingencies	@	3%			₹	56.53
	Total Add for electricity charges	@	0.5%			₹ ₹	1,940.94 9.70 1,950.64
	Add GST (multiplying factor)		0.1405			₹	274.06 2,224.70
	Add 15% for contractor's profit and overheads	@	15%			₹	333.71
	Add cess Cost of 10 nos. Cost of 1 no Say	@	1%			₹ ₹ ₹ ₹	2,558.41 25.58 2,583.99 258.40 258.40
8.58 8.58.2	Providing and fixing oxidised M.S. doubtomplete. 125 mm	ole acting	spring hin	ges v	with necess	ary s	screws etc.
Code	Description	Unit	Quantity		Rate		Rate
00003	Details of cost for 10 nos. Materials- M.S. double acting spring hinges	00010	10.00	x	140.00	-	1 400 00
08083	(oxidised) 125 mm	each	10.00	₹	140.00	₹	1,400.00
08100	Iron screws (oxidised) 50 mm	100 Nos	80.00	₹	80.00	₹	64.00
0468	Carriage of materials Labour-	tonne	0.0035	₹	102.47	₹	0.36
0210 0203	Carpenter II class Beldar TOTAL	Day Day	0.40 0.20	₹	395.00 310.00	₹ ₹	158.00 62.00 1,684.36
	Add for sundries & contingencies	@	3%			₹	50.53
	Total Add for electricity charges	@	0.5%			₹	1,734.89 8.67
	Add GST (multiplying factor)		0.1405			₹	1,743.56 244.97

						₹	1,988.53
	Add 15% for contractor's profit and overheads	@	15%			₹	298.28
	Add coo		10/			₹	2,286.81
	Add cess Cost of 10 nos.	@	1%			₹	22.87 2,309.68
	Cost of 1 no					₹	230.97
	Say					₹	231.00
	Providing and fixing oxidised M.S. doub	ole acting	spring hind	aes w	ith necess/	arv so	crews etc.
8.58	complete.			,		<i>y</i>	
8.58.3	100 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08084	M.S. double acting spring hinges	each	10.00	₹	124.00	₹	1,240.00
00004	(oxidised) 100 mm	еасп	10.00		124.00	•	1,240.00
08101	Iron screws (oxidised) 40 mm	100 Nos	80.00	₹	68.00	₹	54.40
0468	Carriage of materials Labour-	tonne	0.003	₹	102.47	₹	0.31
0210	Carpenter II class	Day	0.40	₹	395.00	₹	158.00
0203	Beldar	Day	0.20	₹	310.00	₹	62.00
	TOTAL					₹	1,514.71
	Add for sundries & contingencies	@	3%			₹	45.44
	Total Add for electricity charges	@	0.5%			₹	1,560.15 7.80
	Add for electricity charges		0.070			₹	1,567.95
	Add GST (multiplying factor)		0.1405			₹	220.30
	Add 15% for contractor's profit and					₹	1,788.25
	overheads	@	15%			₹	268.24
			4.07			₹	2,056.49
	Add cess Cost of 10 nos.	@	1%			₹ ₹	20.56 2,077.05
	Cost of 1 no					₹	207.71
	Say					₹	207.70
	Providing M.S. Piano hinges ISI market	d IS - 381	I8 finished	witl	n nickel nl	ating	and fixing
8.59	with necessary screws etc., complete.	u 13 . 30 i	io minsilea	VVICI	T THERET PI	attirig	and manig
8.59.1	Overall width 35 mm.						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 meter						
	Materials- M.S. piano hinges (oxidised) 35 mm						
08085	wide	metre	1.00	₹	55.00	₹	55.00
08104	Iron screws (oxidised) 20 mm	100 Nos	30.00	₹	38.00	₹	11.40
0468	Carriage of materials Labour-	tonne	0.0025	₹	102.47	₹	0.26
0210	Carpenter II class	Day	0.14	₹	395.00	₹	55.30
0203	Beldar	Day	0.09	₹	310.00	₹	27.90
	TOTAL					₹	149.86
	Add for sundries & contingencies	@	3%			₹	4.50
	Total		0.5%			₹	154.36
	Add for electricity charges	@	0.5%			₹	0.77 155.13
							100.10

	Add GST (multiplying factor)		0.1405			₹	21.80 176.93
	Add 15% for contractor's profit and overheads	@	15%			₹	26.54
	Add cess Cost for 1 metre Say	@	1%			₹ ₹ ₹	203.47 2.03 205.50 205.50
8.59 8.59.2	Providing M.S. Piano hinges ISI marked with necessary screws etc., complete. Overall width 50 mm.	d IS : 381	18 finished	wit	h nickel pl	ating	and fixing
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 meter Materials- M.S. piano hinges (oxidised) 50 mm						
08219	wide	metre	1.00	₹	55.00	₹	55.00
08104	Iron screws (oxidised) 20 mm	100 Nos	30.00	₹	38.00	₹	11.40
0468	Carriage of materials Labour-	tonne	0.003	₹	102.47	₹	0.31
0210 0203	Carpenter II class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹ ₹	55.30 27.90 149.91
	Add for sundries & contingencies	@	3%			₹	4.50
	Total Add for electricity charges	@	0.5%			₹	154.41 0.77
	Add GST (multiplying factor)		0.1405			₹ ₹	155.18 21.80 176.98
	Add 15% for contractor's profit and overheads	@	15%			₹	26.55
	Add cess Cost for 1 metre Say	@	1%			₹ ₹ ₹	203.53 2.04 205.57 205.60
8.59 8.59.3	Providing M.S. Piano hinges ISI marked with necessary screws etc., complete. Overall width 65 mm.	d IS : 381	18 finished	wit	h nickel pl	ating	and fixing
Code	Description	Unit	Quantity		Rate		Rate
08220	Details of cost for 1 meter Materials- M.S. piano hinges (oxidised) 65 mm wide	metre	1.00	₹	52.00	₹	52.00
08104	Iron screws (oxidised) 20 mm	100 Nos	30.00	₹	38.00	₹	11.40
0468	Carriage of materials Labour-	tonne	0.0035	₹	102.47	₹	0.36
0210 0203	Carpenter II class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹ ₹	55.30 27.90 146.96
	Add for sundries & contingencies	@	3%			₹	4.41
	Total Add for electricity charges	@	0.5%			₹ ₹	151.37 0.76
	Add GST (multiplying factor)		0.1405			₹ ₹	152.13 21.37 173.50

	Add 15% for contractor's profit and overheads	@	15%			₹	26.03
	Add cess Cost for 1 metre Say	@	1%			₹ ₹ ₹	199.53 2.00 201.53 201.50
8.60 8.60.1	Providing and fixing ISI marked oxidise complete 300×16 mm	ed M.S.slid	ing door b	olts	with nuts a	nd s	crews etc.
Code	Description	Unit	Quantity		Rate		Rate
08086	Details of cost for 10 nos. Materials- M.S. 'sliding door bolts (oxidised) 300x16 mm	each	10.00	₹	98.00	₹	980.00
08178	Iron screws (oxidised) 35 mm	100 Nos	120.00	₹	50.00	₹	60.00
08070	Bolts and nuts 50 × 6 mm	each	40.00	₹	8.00	₹	320.00
0210	Labour- Carpenter II class TOTAL	Day	0.25	₹	395.00	₹	98.75 1,458.75
	Add for sundries & contingencies	@	3%			₹	43.76
	Total Add for electricity charges	@	0.5%			₹	1,502.51 7.51
	Add GST (multiplying factor)		0.1405			₹ ₹	1,510.02 212.16 1,722.18
	Add 15% for contractor's profit and overheads	@	15%			₹	258.33
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	1,980.51 19.81 2,000.32 200.03 200.00
8.6 8.60.2	Providing and fixing ISI marked oxidise complete: 250 x 16 mm	ed M.S. slic	ding door l	oolts	with nuts	and :	screws etc.
Code	Description	Unit	Quantity		Rate		Rate
08087	Details of cost for 10 nos. Materials- M.S. 'sliding door bolts (oxidised)	ooob	10.00	-	95.00	₹	050.00
00007	250x16 mm	each	10.00	₹	95.00	<	950.00
08178	Iron screws (oxidised) 35 mm	100 Nos		₹	50.00	₹	50.00
08070	Bolts and nuts 50x6 mm Labour-	each	40.00	₹	8.00	₹	320.00
0210	Carpenter II class TOTAL	Day	0.25	₹	395.00	₹ ₹	98.75 1,418.75
	Add for sundries & contingencies	@	3%			₹	42.56
	Total Add for electricity charges	@	0.5%			₹	1,461.31 7.31
	Add GST (multiplying factor)		0.1405			₹ ₹	1,468.62 206.34 1,674.96
	Add 15% for contractor's profit and overheads	@	15%			₹	251.24 1,926.20
							.,,23.20

	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	19.26 1,945.46 194.55 194.60
8.61	Providing and fixing ISI marked oxidi necessary screws etc. complete:	sed M.S. 1	tower bolt	blac	k finish, (E	Barrel	type) with
8.61.1	250x10 mm						
Code	Description	Unit	Quantity		Rate		Rate
08090	Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 250 x 10 mm	each	10.00	₹	45.00	₹	450.00
08102	Iron screws (oxidised) 30 mm	100 Nos	80.00	₹	52.00	₹	41.60
0210	Labour- Carpenter II class TOTAL	Day	0.10	₹	395.00	₹	39.50 531.10
	Add for sundries & contingencies	@	3%			₹	15.93
	Total Add for electricity charges	@	0.5%			₹ ₹	547.03 2.74 549.77
	Add GST (multiplying factor)		0.1405			₹	77.24
	Add 15% for contractor's profit and					₹	627.01
	Add 15% for contractor's profit and overheads	@	15%			₹	94.05
	Add cess		1%			₹	721.06 7.21
	Cost of 10 nos.	@	1 /0			₹	7.21
	Cost of 1 no. Say					₹ ₹	72.83 72.80
8.61 8.61.2	Providing and fixing ISI marked oxidi necessary screws etc. complete: 200 x 10 mm	sed M.S. 1	tower bolt	blac	k finish, (E	Barrel	type) with
Code	Description	Unit	Quantity		Rate		Rate
08091	Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 200 x 10	each	10.00	₹	40.00	₹	400.00
00071	mm						
08102	Iron screws (oxidised) 30 mm	100 Nos	80.00	₹	52.00	₹	41.60
0210	Labour- Carpenter II class TOTAL	Day	0.10	₹	395.00	₹	39.50 481.10
	Add for sundries & contingencies	@	3%			₹	14.43
	Total Add for electricity charges	@	0.5%			₹	495.53
	Add GST (multiplying factor)		0.1405			₹	498.01 69.97
	Add 15% for contractor's profit and overheads	@	15%			₹	567.98 85.20
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	653.18 6.53 659.71 65.97 66.00

8.61 8.61.3	Providing and fixing ISI marked oxidi necessary screws etc. complete: 150 x 10 mm	sed M.S. t	ower bolt	blac	k finish, (Barrel	type) with
Code	Description	Unit	Quantity		Rate		Rate
08092	Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 150 x 10 mm	each	10.00	₹	36.00	₹	360.00
08102	Iron screws (oxidised) 30 mm	100 Nos	60.00	₹	52.00	₹	31.20
06102	Labour-	100 1105	80.00		52.00		31.20
0210	Carpenter II class TOTAL	Day	0.08	₹	395.00	₹ ₹	31.60 422.80
	Add for sundries & contingencies	@	3%			₹	12.68
	Total Add for electricity charges	@	0.5%			₹ ₹	435.48 2.18 437.66
	Add GST (multiplying factor)		0.1405			₹	61.49
	Add 15% for contractor's profit and overheads	@	15%			₹	499.15 74.87
	Overneaus					₹	574.02
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	5.74 579.76 57.98 58.00
8.61	Providing and fixing ISI marked oxidi necessary screws etc. complete :	sed M.S. t	ower bolt	blac	k finish, (Barrel	type) with
8.61.4	necessary screws etc. complete : 100 x 10 mm			blac		Barrel	
	necessary screws etc. complete : 100 x 10 mm Description	sed M.S. t	ower bolt Quantity	blac	k finish, (Rate	Barrel	type) with
8.61.4	necessary screws etc. complete: 100 x 10 mm Description Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 100 x 10			blac		Barrel ₹	
8.61.4 Code 08093	necessary screws etc. complete: 100 x 10 mm Description Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 100 x 10 mm	Unit each	Quantity 10.00	₹	Rate 29.00		Rate 290.00
8.61.4 Code	necessary screws etc. complete: 100 x 10 mm Description Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 100 x 10 mm Iron screws (oxidised) 30 mm	Unit	Quantity 10.00		Rate	₹	Rate
8.61.4 Code 08093	necessary screws etc. complete: 100 x 10 mm Description Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 100 x 10 mm	Unit each	Quantity 10.00	₹	Rate 29.00	₹	Rate 290.00
8.61.4 Code 08093 08102	necessary screws etc. complete: 100 x 10 mm Description Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 100 x 10 mm Iron screws (oxidised) 30 mm Labour- Carpenter II class	Unit each 100 Nos	Quantity 10.00 60.00	₹	Rate 29.00 52.00	₹₹	Rate 290.00 31.20 31.60
8.61.4 Code 08093 08102	necessary screws etc. complete: 100 x 10 mm Description Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 100 x 10 mm Iron screws (oxidised) 30 mm Labour- Carpenter II class TOTAL	Unit each 100 Nos Day	Quantity 10.00 60.00 0.08	₹	Rate 29.00 52.00	₹₹₹₹₹₹	Rate 290.00 31.20 31.60 352.80 10.58 363.38 1.82
8.61.4 Code 08093 08102	necessary screws etc. complete: 100 x 10 mm Description Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 100 x 10 mm Iron screws (oxidised) 30 mm Labour- Carpenter II class TOTAL Add for sundries & contingencies Total	Unit each 100 Nos Day	Quantity 10.00 60.00 0.08 3%	₹	Rate 29.00 52.00	₹₹₹₹₹₹₹	Rate 290.00 31.20 31.60 352.80 10.58 363.38 1.82 365.20 51.31
8.61.4 Code 08093 08102	necessary screws etc. complete: 100 x 10 mm Description Details of cost for 10 nos. Materials- M.S. tower bolts (oxidised) 100 x 10 mm Iron screws (oxidised) 30 mm Labour- Carpenter II class TOTAL Add for sundries & contingencies Total Add for electricity charges	Unit each 100 Nos Day	Quantity 10.00 60.00 0.08 3% 0.5%	₹	Rate 29.00 52.00	₹₹₹₹₹₹	Rate 290.00 31.20 31.60 352.80 10.58 363.38 1.82 365.20

Providing and fixing ISI marked 85 x 42 mm oxidised M.S. pull bolt lock conforming to IS: 7534 with necessary screws bolts, nut and washers etc. complete.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08149	M.S. pull bolts (oxidised) of size 85 x 42 mm with bolts and nuts complete	each	10.00	₹	62.00	₹	620.00
0210	Labour- Carpenter II class TOTAL	Day	0.25	₹	395.00	₹	98.75 718.75
	Add for sundries & contingencies	@	3%			₹	21.56
	Total Add for electricity charges	@	0.5%			₹ ₹	740.31 3.70 744.01
	Add GST (multiplying factor)		0.1405			₹ ₹	104.53 848.54
	Add 15% for contractor's profit and overheads	@	15%			₹	127.28
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹ ₹	975.82 9.76 985.58 98.56 98.60
8.63 8.63.1	Providing and fixing ISI marked oxidi screws etc. complete: 300 x 20 x 6 mm	sed M.S.	door latch	es co	onforming	to I	S:5930 with
Code	Description	Unit	Quantity		Rate		Rate
08088	Details of cost for 10 nos. Materials- M.S. door latches (oxidised) 300 x 20 x 6 mm	each	10.00	₹	55.00	₹	550.00
08103	Iron screws (oxidised) 25 mm	100 Nos	90.00	₹	44.00	₹	39.60
0210	Labour- Carpenter II class TOTAL	Day	0.12	₹	395.00	₹	47.40 637.00
	Add for sundries & contingencies	@	3%			₹	19.11
	Total Add for electricity charges	@	0.5%			₹ ₹	656.11 3.28 659.39
	Add GST (multiplying factor)		0.1405			₹	92.64 752.03
	Add 15% for contractor's profit and overheads	@	15%			₹	112.80
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	864.83 8.65 873.48 87.35 87.40
8.63 8.63.2	Providing and fixing ISI marked oxidi screws etc. complete: 250 x 20 x 6 mm	sed M.S.	door latch	es co	onforming	to I	S:5930 with
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						

00000	M.S. door latches (oxidised) 250 x 20	X	10.00	-	45.00	-	450.00
08089	6 mm	^ each	10.00	₹	45.00	₹	450.00
08103	Iron screws (oxidised) 25 mm	100 Nos	90.00	₹	44.00	₹	39.60
0210	Labour- Carpenter II class TOTAL	Day	0.12	₹	395.00	₹	47.40 537.00
	Add for sundries & contingencies	@	3%			₹	16.11
	Total		0.5%			₹	553.11
	Add for electricity charges	@	0.5%			₹ ₹	2.77 555.88
	Add GST (multiplying factor)		0.1405			₹ ₹	78.10 633.98
	Add 15% for contractor's profit and overheads	@	15%			₹	95.10
	Add cess	@	1%			₹	729.08 7.29
	Cost of 10 nos. Cost of 1 no.					₹	736.37 73.64
	Say					₹	
8.64	Providing and fixing ISI marked onecessary screws etc. complete:	oxidised M.	S. handles	s co	nforming	to	IS:4992 with
8.64.1	125 mm						
Code	Description	Unit	Quantity		Rate		Rate
00004	Details of cost for 10 nos. Materials-		10.00	<u>.</u>	21.00	_	210.00
08094 08103	M.S. handle (oxidised) 125 mm Iron screws (oxidised) 25 mm	each 100 Nos	10.00 40.00	₹	21.00 44.00	₹	210.00 17.60
00103	Labour-	100 1103	40.00		44.00		17.00
0210	Carpenter II class TOTAL	Day	0.06	₹	395.00	₹ ₹	23.70 251.30
	Add for sundries & contingencies	@	3%			₹	7.54
	Total		0.5%			₹	258.84
	Add for electricity charges	@	0.5%			₹ ₹	1.29 260.13
	Add GST (multiplying factor)		0.1405			₹ ₹	36.55 296.68
	Add 15% for contractor's profit and overheads	@	15%			₹	44.50
	Add cess	@	1%			₹ ₹	341.18 3.41
	Cost of 10 nos. Cost of 1 no.					₹	344.59 34.46
	Say					₹	
8.64	Providing and fixing ISI marked onecessary screws etc. complete:	oxidised M.	S. handles	s co	nforming	to	IS:4992 with
8.64.2	100 mm						
Code	Description	Unit	Quantity		Rate		Rate
08095	Details of cost for 10 nos. Materials- M.S. handle (oxidised) 100 mm	each	10.00	₹	16.00	₹	160.00
08103	Iron screws (oxidised) 25 mm	100 Nos		₹	44.00	₹	17.60
55100	Labour-	. 50 1103	. 5.00	•	7 1.00		17.00
0210	Carpenter II class	Day	0.06	₹	395.00	₹	23.70

	TOTAL					₹	201.30
	Add for sundries & contingencies	@	3%			₹	6.04
	Total					₹	207.34
	Add for electricity charges	@	0.5%			₹	1.04 208.38
	Add GST (multiplying factor)		0.1405			₹	29.28
	Add 15% for contractor's profit and		4.50/			₹	237.66
	overheads	@	15%			₹	35.65 273.31
	Add cess	@	1%			₹	2.73
	Cost of 10 nos. Cost of 1 no.					₹	276.04 27.60
	Say					₹	27.60
8.64 8.64.3	Providing and fixing ISI marked or necessary screws etc. complete: 75 mm	xidised M.	S. handles	СО	nforming	to	IS:4992 with
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08096	M.S. handle (oxidised) 75 mm	each	10.00	₹	13.00	₹	130.00
08103	Iron screws (oxidised) 25 mm Labour-	100 Nos	40.00	₹	44.00	₹	17.60
0210	Carpenter II class TOTAL	Day	0.06	₹	395.00	₹	23.70 171.30
	Add for sundries & contingencies	@	3%			₹	5.14
	Total		0.5%			₹	176.44
	Add for electricity charges	@	0.5%			₹	0.88 177.32
	Add GST (multiplying factor)		0.1405			₹	24.91 202.23
	Add 15% for contractor's profit and	@	15%			₹	30.33
	overheads					₹	232.56
	Add cess	@	1%			₹	2.33
	Cost of 10 nos. Cost of 1 no.					₹	234.89 23.49
	Say					₹	23.50
8.65	Providing and fixing oxidised M.S. has	p and stap	le (safety ty	pe)	conformin	g to) IS: 363 with
8.65.1	necessary screws etc. complete : 150 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos.						
	Materials-						
08097	M.S. hasp and staple (safety type) (oxidised) 150 mm	10 Nos	10.00	₹	135.00	₹	135.00
08103	Iron screws (oxidised) 25 mm	100 Nos	80.00	₹	44.00	₹	35.20
0010	Labour-	Decis	0.00	x	205.00		24.70
0210	Carpenter II class TOTAL	Day	0.08	₹	395.00	₹	31.60 201.80
	Add for sundries & contingencies	@	3%			₹	6.05
	Total					₹	207.85

	Add for electricity charges	@	0.5%			₹	1.04
	Add GST (multiplying factor)		0.1405			₹ ₹	208.89 29.35 238.24
	Add 15% for contractor's profit and overheads	@	15%			₹	35.74
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	273.98 2.74 276.72 27.67 27.70
8.65	Providing and fixing oxidised M.S. hasp	and stap	le (safety t	ype)	conformin	g to	IS: 363 with
8.65.2	necessary screws etc. complete : 115 mm						
Code	Description	Unit	Quantity		Rate		Rate
08098	Details of cost for 10 nos. Materials- M.S. hasp and staple (safety type) (oxidised) 115 mm	10 Nos	10.00	₹	112.00	₹	112.00
08103	Iron screws (oxidised) 25 mm	100 Nos	70.00	₹	44.00	₹	30.80
0210	Labour- Carpenter II class TOTAL	Day	0.08	₹	395.00	₹	31.60 174.40
	Add for sundries & contingencies	@	3%			₹	5.23
	Total Add for electricity charges	@	0.5%			₹	179.63 0.90
	Add GST (multiplying factor)		0.1405			₹ ₹	180.53 25.36 205.89
	Add 15% for contractor's profit and overheads	@	15%			₹	30.88
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	236.77 2.37 239.14 23.91 23.90
8.65 8.65.3	Providing and fixing oxidised M.S. hasp necessary screws etc. complete : 90 mm	and stap	le (safety t	ype)	conformin	g to	IS : 363 with
Code	Description	Unit	Quantity		Rate		Rate
08099	Details of cost for 10 nos. Materials- M.S. hasp and staple (safety type) (oxidised) 90 mm	10 Nos	10.00	₹	85.00	₹	85.00
08103	Iron screws (oxidised) 25 mm	100 Nos	70.00	₹	44.00	₹	30.80
30100	Labour-	1001103	, 0.00		. 1.00		33.30
0210	Carpenter II class TOTAL	Day	0.08	₹	395.00	₹	31.60 147.40
	Add for sundries & contingencies	@	3%			₹	4.42
	Total Add for electricity charges	@	0.5%			₹ ₹	151.82 0.76 152.58

	Add GST (multiplying factor)		0.1405			₹	21.44
	Add 15% for contractor's profit and					₹	174.02
	overheads	@	15%			₹	26.10
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹ ₹	200.12 2.00 202.12 20.21 20.20
8.66	Providing and fixing oxidised M.S. o screws etc. complete.	asement	stays (stra	iight	peg type)	with	necessary
8.66.1	300 mm weighing not less than 200 gms.						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08186	Oxidised M.S. casement stay 300 mm	each	10.00	₹	35.00	₹	350.00
08102	Screws 30 mm	100 Nos	40.00	₹	52.00	₹	20.80
0210	Labour- Carpenter II class TOTAL	Day	0.10	₹	395.00	₹	39.50 410.30
	Add for sundries & contingencies	@	3%			₹	12.31
	Total Add for electricity charges	@	0.5%			₹	422.61 2.11
	Add GST (multiplying factor)		0.1405			₹	424.72 59.67
	Add 15% for contractor's profit and overheads	@	15%			₹	484.39 72.66
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹ ₹	557.05 5.57 562.62 56.26 56.30
8.66	Providing and fixing oxidised M.S. oscrews etc. complete.	asement	stays (stra	iight	peg type)	with	necessary
8.66.2	250 mm weighing not less than 150 gms.						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08187	Oxidised M.S. casement stay 250 mm	each	10.00	₹	30.00	₹	300.00
08103	Screws 25 mm	100 Nos	40.00	₹	44.00	₹	17.60
0210	Labour- Carpenter II class TOTAL	Day	0.10	₹	395.00	₹	39.50 357.10
	Add for sundries & contingencies	@	3%			₹	10.71
	Total Add for electricity charges	@	0.5%			₹	367.81 1.84
	Add GST (multiplying factor)		0.1405			₹	369.65 51.94

						₹	421.59
	Add 15% for contractor's profit and overheads	@	15%			₹	63.24
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	484.83 4.85 489.68 48.97 49.00
8.66	Providing and fixing oxidised M.S. screws etc. complete.	casement	stays (stra	aight	peg type)	with	necessary
8.66.3	200 mm weighing not less than 120 gms.						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08188	Oxidised M.S. casement stay 200 mm	each	10.00	₹	25.00	₹	250.00
08103	Screws 25 mm	100 Nos	40.00	₹	44.00	₹	17.60
0210	Labour- Carpenter II class TOTAL	Day	0.10	₹	395.00	₹	39.50 307.10
	Add for sundries & contingencies	@	3%			₹	9.21
	Total Add for electricity charges	@	0.5%			₹	316.31 1.58
	Add GST (multiplying factor)		0.1405			₹	317.89 44.66
	Add 15% for contractor's profit and overheads	@	15%			₹	362.55 54.38
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	416.93 4.17 421.10 42.11 42.10
8.67	Providing and fixing oxidised M.S. (Weighing not less than 450 gms.)	. Safety ch	nain with	nece	essary fixt	ures	for doors.
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos.						
08196	Materials- Oxidised M.S. safety chain	each	10.00	₹	58.00	₹	580.00
08103	Iron screws 25 mm	100 Nos	60.00	₹	44.00	₹	26.40
0210	Labour- Carpenter II class TOTAL	Day	0.10	₹	395.00	₹	39.50 645.90
	Add for sundries & contingencies	@	3%			*	19.38
	Total					` ₹	665.28
	Add for electricity charges	@	0.5%			₹	3.33
	Add GST (multiplying factor)		0.1405			₹ ₹	668.61 93.94 762.55
	Add 15% for contractor's profit and overheads	@	15%			₹	114.38
						₹	876.93

	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	8.77 885.70 88.57 88.60
8.68 8.68.1	Providing and fixing IS: 12817 mark screws etc. complete: 125 x 64 x 1.90 mm	ced stainle	ess steel b	outt	hinges with	n sta	ninless steel
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 Nos Materials-						
08243	S.S. butt hinges 125 x 64 x 1.9 mm	10 Nos	10.00	₹	265.00	₹	265.00
08239	Stainless steel screws 50 mm	100 Nos	80.00	₹	270.00	₹	216.00
0210 0203	Labour- Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹ ₹	55.30 27.90 564.20
	Add for sundries & contingencies	@	3%			₹	16.93
	Total Add for electricity charges	@	0.5%			₹ ₹	581.13 2.91 584.04
	Add GST (multiplying factor)		0.1405			₹	82.06
	Add 15% for contractor's profit and overheads	@	15%			₹	666.10 99.92
	Add cess Cost of 10 hinges Cost of 1 butt hinge Say	@	1%			₹ ₹ ₹ ₹ ₹	766.02 7.66 773.68 77.37 77.40
8.68 8.68.2	Providing and fixing IS: 12817 mar screws etc. complete: 100 X 58 X 1.90 mm	ked stainl	ess steel k	outt	hinges wit	h sta	ainless steel
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 Nos Materials-						
08244	S.S. butt hinges 100 x 58 x 1.9 mm	10 Nos	10.00	₹	235.00	₹	235.00
08240	Stainless steel screws 40 mm	100 Nos	80.0	₹	215.00	₹	172.00
0210 0203	Labour- Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹₹	55.30 27.90 490.20
	Add for sundries & contingencies	@	3%			₹	14.71
	Total Add for electricity charges	@	0.5%			₹	504.91 2.52
	Add GST (multiplying factor)		0.1405			₹	507.43 71.29
	Add 15% for contractor's profit and	@	15%			₹	578.72 86.81
	overheads		- · · -			₹	665.53
	Add cess Cost of 10 hinges	@	1%			₹	6.66 672.19

	Cost of 1 butt hinge Say					₹ ₹	67.22 67.20
9.68 9.68.3	Providing and fixing IS: 12817 mark screws etc. complete: 75 x 47 x 1.80 mm	ked stainle	ess steel k	outt	hinges with	h sta	ainless steel
Code		Unit	Quantity		Rate		Rate
Code	Description Details of cost for 10 Nos Materials-	Offit	Quantity		Rate		Rate
08245	S.S. butt hinges 75 x 47 x 1.8 mm	10 Nos	10.00	₹	160.00	₹	160.00
08241	Stainless steel screws 30 mm	100 Nos	60.00	₹	190.00	₹	114.00
0210 0203	Labour- Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹₹	55.30 27.90 357.20
	Add for sundries & contingencies	@	3%			₹	10.72
	Total Add for electricity charges	@	0.5%			₹	367.92 1.84
	Add GST (multiplying factor)		0.1405			₹ ₹	369.76 51.95 421.71
	Add 15% for contractor's profit and overheads	@	15%			₹	63.26
	Add cess Cost of 10 hinges Cost of 1 butt hinge Say	@	1%			₹ ₹ ₹	484.97 4.85 489.82 48.98 49.00
8.68	Providing and fixing IS: 12817 mark screws etc. complete:	ked stainle	ess steel k	outt	hinges with	h sta	ainless steel
8.68.4	50 x 37 x 1.50 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 Nos Materials-						
08246	S.S. butt hinges 50 x 37 x 1.5 mm	10 Nos	10.00	₹	140.00	₹	140.00
08242	Stainless steel screws 20 mm	100 Nos	40.00	₹	125.00	₹	50.00
0210	Labour- Carpenter 2nd class TOTAL	Day	0.08	₹	395.00	₹	31.60 221.60
	Add for sundries & contingencies	@	3%			₹	6.65
	Total Add for electricity charges	@	0.5%			₹	228.25 1.14
	Add GST (multiplying factor)		0.1405			₹	229.39 32.23
	Add 15% for contractor's profit and overheads	@	15%			₹	261.62 39.24
	Add cess Cost of 10 hinges Cost of 1 butt hinge Say	@	1%			₹ ₹ ₹ ₹	300.86 3.01 303.87 30.39 30.40

8.69 8.69.1	Providing and fixing IS: 12817 mark stainless steel screws etc. complete: 125 x 64 x 2.50 mm	ked stainle	ess steel b	utt	hinges (hea	avy	weight) with
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 Nos Materials-						
08247	S.S. butt hinges 125 x 64 x 2.5 mm	10 Nos	10.00	₹	350.00	₹	350.00
08239	Stainless steel screws 50 mm	100 Nos	80.00	₹	270.00	₹	216.00
0210 0203	Labour- Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹ ₹	55.30 27.90 649.20
	Add for sundries & contingencies	@	3%			₹	19.48
	Total Add for electricity charges	@	0.5%			₹	668.68 3.34 672.02
	Add GST (multiplying factor)		0.1405			₹ ₹	94.42 766.44
	Add 15% for contractor's profit and overheads	@	15%			₹	114.97
	Add cess Cost of 10 hinges Cost of 1 butt hinge Say	@	1%			₹ ₹ ₹ ₹	881.41 8.81 890.22 89.02 89.00
8.69	Providing and fixing IS: 12817 mark stainless steel screws etc. complete:	ked stainle	ess steel b	utt	hinges (hea	avy	weight) with
8.69 8.69.2 Code	stainless steel screws etc. complete : 100 x 60 x 2.50 mm	ced stainle Unit		outt	hinges (hea	avy	weight) with
8.69.2	stainless steel screws etc. complete :		ess steel b	outt		avy	
8.69.2	stainless steel screws etc. complete: 100 x 60 x 2.50 mm Description Details of cost for 10 Nos			outt		avy	
8.69.2 Code	stainless steel screws etc. complete: 100 x 60 x 2.50 mm Description Details of cost for 10 Nos Material	Unit	Quantity 10.00		Rate		Rate
8.69.2 Code 08248	stainless steel screws etc. complete: 100 x 60 x 2.50 mm Description Details of cost for 10 Nos Material S.S. butt hinges 100 x 60 x 2.5 mm	Unit 10 Nos	Quantity 10.00	₹	Rate 260.00	₹	Rate 260.00
8.69.2 Code 08248 08240 0210	stainless steel screws etc. complete: 100 x 60 x 2.50 mm Description Details of cost for 10 Nos Material S.S. butt hinges 100 x 60 x 2.5 mm Stainless steel screws 40 mm Labour- Carpenter 2nd class Beldar	Unit 10 Nos 100 Nos Day	Quantity 10.00 80.00 0.14	₹₹	Rate 260.00 215.00 395.00	₹₹₹	Rate 260.00 172.00 55.30 27.90
8.69.2 Code 08248 08240 0210	stainless steel screws etc. complete: 100 x 60 x 2.50 mm Description Details of cost for 10 Nos Material S.S. butt hinges 100 x 60 x 2.5 mm Stainless steel screws 40 mm Labour- Carpenter 2nd class Beldar TOTAL	Unit 10 Nos 100 Nos Day Day	10.00 80.00 0.14 0.09	₹₹	Rate 260.00 215.00 395.00	₹₹₹₹₹₹	260.00 172.00 55.30 27.90 515.20 15.46 530.66 2.65
8.69.2 Code 08248 08240 0210	stainless steel screws etc. complete: 100 x 60 x 2.50 mm Description Details of cost for 10 Nos Material S.S. butt hinges 100 x 60 x 2.5 mm Stainless steel screws 40 mm Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total	Unit 10 Nos 100 Nos Day Day @	Ouantity 10.00 80.00 0.14 0.09	₹₹	Rate 260.00 215.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	260.00 172.00 55.30 27.90 515.20 15.46 530.66 2.65 533.31 74.93
8.69.2 Code 08248 08240 0210	stainless steel screws etc. complete: 100 x 60 x 2.50 mm Description Details of cost for 10 Nos Material S.S. butt hinges 100 x 60 x 2.5 mm Stainless steel screws 40 mm Labour- Carpenter 2nd class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges	Unit 10 Nos 100 Nos Day Day @	Quantity 10.00 80.00 0.14 0.09 3% 0.5%	₹₹	Rate 260.00 215.00 395.00	₹ ₹ ₹₹₹₹₹	260.00 172.00 55.30 27.90 515.20 15.46 530.66 2.65 533.31

8.69	Providing and fixing IS: 12817 mark stainless steel screws etc. complete:	ed stainle	ess steel b	utt	hinges (hea	ıvy v	weight) with
8.69.3	75 x 50 x 2.50 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 Nos Materials-						
08249	S.S. butt hinges 75 x 50 x 2.5 mm	10 Nos	10.00	₹	210.00	₹	210.00
08241	Stainless steel screws 30 mm	100 Nos	60.00	₹	190.00	₹	114.00
0210 0203	Labour- Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹ ₹	55.30 27.90 407.20
	Add for sundries & contingencies	@	3%			₹	12.22
	Total Add for electricity charges	@	0.5%			₹	419.42 2.10
	Add GST (multiplying factor)		0.1405			₹ ₹	421.52 59.22 480.74
	Add 15% for contractor's profit and overheads	@	15%			₹	72.11
	Add cess Cost of 10 hinges Cost of 1 butt hinge Say	@	1%			₹ ₹ ₹ ₹	552.85 5.53 558.38 55.84 55.80
8.70	Providing and fixing bright finished bra	ass butt h	inges with	nece	essaryscrew	s eta	c.complete :
8.70.1	125 x 85 x 5.5 mm (heavy type)						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08010	Brass butt hinges 125 x 85 x 5.5 mm	10 Nos	10.00	₹	1,500.00	₹	1,500.00
08037	Brass screws 50 mm	100 Nos	100.00	₹	107.00	₹	107.00
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.10	₹	440.00 310.00	₹ ₹	61.60 31.00 1,699.60
	Add for sundries & contingencies	@	3%			₹	50.99
	Total Add for electricity charges	@	0.5%			₹	1,750.59 8.75
	Add GST (multiplying factor)		0.1405			₹ ₹	1,759.34 247.19 2,006.53
	Add 15% for contractor's profit and overheads	@	15%			₹	300.98
	Add cess Cost for 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	2,307.51 23.08 2,330.59 233.06 233.10

8.70	Providing and fixing bright finished br	ass butt h	inges with	nece	essary screv	vs et	c. complete
8.70.2	125 x 70 x 4 mm (ordinary type)						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08006	Brass butt hinges 125 x 70 x 4 mm	10 Nos	10.00	₹	820.00	₹	820.00
08037	Brass screws 50 mm	100 Nos	100.00	₹	225.00	₹	225.00
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.10	₹	440.00 310.00	₹ ₹	61.60 31.00 1,137.60
	Add for sundries & contingencies	@	3%			₹	34.13
	Total Add for electricity charges	@	0.5%			₹	1,171.73 5.86
	Add GST (multiplying factor)		0.1405			₹ ₹	1,177.59 165.45 1,343.04
	Add 15% for contractor's profit and overheads	@	15%			₹	201.46
	Add cess Cost for 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	1,544.50 15.45 1,559.95 156.00 156.00
8.70	Providing and fixing bright finished br	rass butt h	inges with	nece	essary screv	vs et	c. complete
8.70 8.70.3	Providing and fixing bright finished br : 100 x 85 x 5.5 mm (heavy type)	rass butt h	inges with	nece	essary screv	vs et	c. complete
		rass butt h	inges with Quantity	nece	essary screv	vs et	c. complete Rate
8.70.3	: 100 x 85 x 5.5 mm (heavy type)			nece		vs et	
8.70.3	: 100 x 85 x 5.5 mm (heavy type) Description Details of cost for 10 nos.			nece		vs et	
8.70.3 Code	: 100 x 85 x 5.5 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 100 x 85 x 5.5 mm Brass screws 40 mm	Unit	Quantity 10.00		Rate		Rate
8.70.3 Code 08011	: 100 x 85 x 5.5 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 100 x 85 x 5.5 mm	Unit 10 Nos	Quantity 10.00	₹	Rate 1,450.00	₹	Rate 1,450.00
8.70.3 Code 08011 08038	: 100 x 85 x 5.5 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 100 x 85 x 5.5 mm Brass screws 40 mm Labour- Carpenter 1 st class Beldar	Unit 10 Nos 100 Nos Day	Quantity 10.00 80.00 0.14	₹₹	Rate 1,450.00 175.00 440.00	₹₹₹	1,450.00 140.00 61.60 31.00
8.70.3 Code 08011 08038	: 100 x 85 x 5.5 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 100 x 85 x 5.5 mm Brass screws 40 mm Labour- Carpenter 1 st class Beldar TOTAL	Unit 10 Nos 100 Nos Day Day	Quantity 10.00 80.00 0.14 0.10	₹₹	Rate 1,450.00 175.00 440.00	₹₹₹₹₹₹	1,450.00 140.00 61.60 31.00 1,682.60 50.48 1,733.08 8.67
8.70.3 Code 08011 08038	: 100 x 85 x 5.5 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 100 x 85 x 5.5 mm Brass screws 40 mm Labour- Carpenter 1 st class Beldar TOTAL Add for sundries & contingencies Total	Unit 10 Nos 100 Nos Day Day	Quantity 10.00 80.00 0.14 0.10	₹₹	Rate 1,450.00 175.00 440.00	₹ ₹ ₹₹₹₹₹	1,450.00 140.00 61.60 31.00 1,682.60 50.48 1,733.08 8.67 1,741.75 244.72
8.70.3 Code 08011 08038	: 100 x 85 x 5.5 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 100 x 85 x 5.5 mm Brass screws 40 mm Labour- Carpenter 1 st class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges	Unit 10 Nos 100 Nos Day Day	Quantity 10.00 80.00 0.14 0.10 3% 0.5%	₹₹	Rate 1,450.00 175.00 440.00	₹₹₹₹₹₹₹	1,450.00 140.00 61.60 31.00 1,682.60 50.48 1,733.08 8.67 1,741.75

8.70	Providing and fixing bright finished by:	rass butt hi	nges with	nece	essary screv	vs et	c. complete
8.70.4	100 x 70 x 4 mm (ordinary type)						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08007	Brass butt hinges 100 x 70 x 4 mm	10 Nos	10.00	₹	695.00	₹	695.00
08038	Brass screws 40 mm Labour-	100 Nos	80.00	₹	175.00	₹	140.00
0209 0203	Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.10	₹	440.00 310.00	₹₹	61.60 31.00 927.60
	Add for sundries & contingencies	@	3%			₹	27.83
	Total Add for electricity charges	@	0.5%			₹	955.43 4.78
	Add GST (multiplying factor)		0.1405			₹ ₹	960.21 134.91 1,095.12
	Add 15% for contractor's profit and overheads	@	15%			₹	164.27
	Add cess Cost for 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹ ₹	1,259.39 12.59 1,271.98 127.20 127.20
8.70	Providing and fixing bright finished but	rass butt hi	nges with	nece	essary screv	vs et	c.complete :
8.70 8.70.5	Providing and fixing bright finished by 75 x 65 x4 mm (heavy type)	rass butt hi	nges with	nece	essary screv	vs et	c.complete :
		rass butt hi Unit	nges with Quantity	nece	essary screv Rate	vs et	c.complete :
8.70.5	75 x 65 x4 mm (heavy type)			nece		vs et	
8.70.5	75 x 65 x4 mm (heavy type) Description Details of cost for 10 nos.			neco		vs et	
8.70.5 Code	75 x 65 x4 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 75 x 65 x 4 mm Brass screws 30 mm	Unit	Quantity 10.00		Rate		Rate
8.70.5 Code 08012	75 x 65 x4 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 75 x 65 x 4 mm	Unit 10 Nos	Quantity 10.00	₹	Rate 1,380.00	₹	Rate 1,380.00
8.70.5 Code 08012 08039	75 x 65 x4 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 75 x 65 x 4 mm Brass screws 30 mm Labour- Carpenter 1st class Beldar	Unit 10 Nos 100 Nos Day	Quantity 10.00 60.00 0.14	₹₹	Rate 1,380.00 145.00 440.00	₹₹₹	Rate 1,380.00 87.00 61.60 31.00
8.70.5 Code 08012 08039	75 x 65 x4 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 75 x 65 x 4 mm Brass screws 30 mm Labour- Carpenter 1st class Beldar TOTAL	Unit 10 Nos 100 Nos Day Day	10.00 60.00 0.14 0.10	₹₹	Rate 1,380.00 145.00 440.00	₹ ₹ ₹₹₹₹	Rate 1,380.00 87.00 61.60 31.00 1,559.60 46.79 1,606.39 8.03
8.70.5 Code 08012 08039	75 x 65 x4 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 75 x 65 x 4 mm Brass screws 30 mm Labour- Carpenter 1st class Beldar TOTAL Add for sundries & contingencies Total	Unit 10 Nos 100 Nos Day Day @	Ouantity 10.00 60.00 0.14 0.10 3%	₹₹	Rate 1,380.00 145.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 1,380.00 87.00 61.60 31.00 1,559.60 46.79 1,606.39 8.03 1,614.42 226.83
8.70.5 Code 08012 08039	75 x 65 x4 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 75 x 65 x 4 mm Brass screws 30 mm Labour- Carpenter 1st class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and	Unit 10 Nos 100 Nos Day Day @	Ouantity 10.00 60.00 0.14 0.10 3% 0.5%	₹₹	Rate 1,380.00 145.00 440.00	₹ ₹ ₹₹₹₹₹ ₹ ₹	Rate 1,380.00 87.00 61.60 31.00 1,559.60 46.79 1,606.39 8.03 1,614.42
8.70.5 Code 08012 08039	75 x 65 x4 mm (heavy type) Description Details of cost for 10 nos. Materials- Brass butt hinges 75 x 65 x 4 mm Brass screws 30 mm Labour- Carpenter 1st class Beldar TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor)	Unit 10 Nos 100 Nos Day Day @	Ouantity 10.00 60.00 0.14 0.10 3% 0.5% 0.1405	₹₹	Rate 1,380.00 145.00 440.00	\$\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	Rate 1,380.00 87.00 61.60 31.00 1,559.60 46.79 1,606.39 8.03 1,614.42 226.83 1,841.25

Providing and fixing bright finished brass butthinges with necessaryscrews etc. complete: 8.70.6 75 x 40 x 2.5 mm (ordinary type) Code Description Unit Quantity Rate Rate Details of cost for 10 nos. Materials-80080 Brass butt hinges 75 x 40 x 2.5 mm 10.00 430.00 ₹ 430.00 10 Nos 08039 Brass screws 30 mm 100 Nos 60.00 145.00 87.00 Labour-0209 Carpenter 1st class 440.00 ₹ 61.60 Day 0.14 ₹ 310.00 0203 ₹ ₹ 31.00 Beldar Day 0.10 ₹ 609.60 TOTAL Add for sundries & contingencies 3% ₹ 18.29 ₹ 627.89 Add for electricity charges @ 0.5% ₹ 3.14 ₹ 631.03 ₹ Add GST (multiplying factor) 0.1405 88.66 ₹ 719.69 Add 15% for contractor's profit and 15% ₹ 107.95 overheads 827.64 ₹ ₹ Add cess @ 1% 8.28 Cost for 10 nos. ₹ 835.92 Cost of 1 no. ₹ 83.59 ₹ Say 83.60 Providing and fixing bright finished brass butt hinges with necessary screws etc.complete: 8.70 8.70.7 50 x 40 x 2.5 mm (ordinary type) Code Description Unit Quantity Rate Rate Details of cost for 10 nos. Materials-08009 Brass butt hinges 50 x 40 x 2.5 mm 10 Nos 10.00 ₹ 199.00 ₹ 199.00 100 08041 Brass screws 20 mm 40.00 ₹ 98.00 ₹ 39.20 Nos Labour-0209 Carpenter 1st class 0.08 440.00 ₹ 35.20 Day ₹ ₹ **TOTAL** 273.40 Add for sundries & contingencies 3% ₹ 8.20 @ ₹ 281.60 0.5% ₹ Add for electricity charges @ 1.41 ₹ 283.01 Add GST (multiplying factor) ₹ 0.1405 39.76 ₹ 322.77 Add 15% for contractor's profit and @ 15% ₹ 48.42 overheads ₹ 371.19

@

1%

Add cess

Say

Cost for 10 nos.

Cost of 1 no.

3.71

374.90

37.49

37.50

₹

₹

₹

₹

^{8.71} Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete:

8.71.1	150 x 125 x 27 x 5 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08013	Parliamentary hinges 150 x 125 x 27 x 5 mm	10 Nos	10.00	₹	2,850.00	₹	2,850.00
08038	Brass screws 40 mm	100 Nos	80.00	₹	175.00	₹	140.00
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.14	₹	440.00 310.00	₹ ₹	61.60 43.40 3,095.00
	Add for sundries & contingencies	@	3%			₹	92.85
	Total Add for electricity charges	@	0.5%			₹ ₹	3,187.85 15.94 3,203.79
	Add GST (multiplying factor)		0.1405			₹	450.13
	Add 15% for contractor's profit and overheads	@	15%			₹	3,653.92 548.09
	Add cess Cost of 10 hinges Cost of 1 hinge Say	@	1%			₹ ₹ ₹	4,202.01 42.02 4,244.03 424.40 424.40
8.71	Providing and fixing bright finished bracomplete:	ss parliai	mentary hi	nges	with neces	sary	screws etc.
8.71.2	125 x 125 x 27 x 5 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials- Parliamentary hinges 125 x 125 x 27 x						
08014	5 mm	10 Nos	10.00	₹	2,520.00	₹	2,520.00
08038	Brass screws 40 mm	100 Nos	80.00	₹	175.00	₹	140.00
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.14	₹	440.00 310.00	₹ ₹	61.60 43.40 2,765.00
	Add for sundries & contingencies	@	3%			₹	82.95
	Total Add for electricity charges	@	0.5%			₹ ₹	2,847.95 14.24 2,862.19
	Add GST (multiplying factor)		0.1405			₹ ₹	402.14
	Add 15% for contractor's profit and overheads	@	15%			₹	489.65
						₹	3,753.98
	Add cess Cost of 10 hinges	@	1%			₹	37.54 3,791.52
	Cost of 1 hinge					₹	379.15
	Say					₹	379.20

^{8.71} Providing and fixing bright finished brass parliamentary hingeswith necessary screws etc. complete :

^{8.71.3 100} x 125 x 27 x 5 mm

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials- Parliamentary hinges 100 x 125 x 27 x						
08015	5 mm	10 Nos	10.00	₹	2,150.00	₹	2,150.00
08038	Brass screws 40 mm	100 Nos	80.00	₹	175.00	₹	140.00
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.14	₹	440.00 310.00	₹ ₹	61.60 43.40 2,395.00
	Add for sundries & contingencies	@	3%			₹	71.85
	Total Add for electricity charges	@	0.5%			₹ ₹	2,466.85 12.33 2,479.18
	Add GST (multiplying factor)		0.1405			₹	348.32 2,827.50
	Add 15% for contractor's profit and overheads	@	15%			₹	424.13
	Add cess Cost of 10 hinges Cost of 1 hinge Say	@	1%			₹ ₹ ₹ ₹	3,251.63 32.52 3,284.15 328.42 328.40
8.71	Providing and fixing bright finished bracomplete:	iss parliar	nentary hi	nges	with neces	sary	screws etc.
8.71.4	75 x 100 x 20 x 3.2 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08016	Parliamentary hinges 75 x 100 x 20 x 3.2 mm	10 Nos	10.00	₹	1,940.00	₹	1,940.00
08039	Brass screws 30 mm	100 Nos	60.00	₹	145.00	₹	87.00
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.14	₹	440.00 310.00	₹ ₹	61.60 43.40 2,132.00
	Add for sundries & contingencies	@	3%			₹	63.96
	Total Add for electricity charges	@	0.5%			₹ ₹	2,195.96 10.98
	Add GST (multiplying factor)		0.1405			< ₹	2,206.94 310.08 2,517.02
	Add 15% for contractor's profit and overheads	@	15%			₹	377.55
	Add cess Cost of 10 hinges Cost of 1 hinge Say	@	1%			₹ ₹ ₹ ₹	2,894.57 28.95 2,923.52 292.35 292.40

^{8.72} Providing and fixing bright finished brass towerbolts (barrel type)with necessary screws etc. complete :

^{8.72.1 250} x 10 mm

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08017	Brass barrel bolts 250 x 10 mm	each	10.00	₹	265.00	₹	2,650.00
08039	Brass screws 30 mm	100 Nos	100.00	₹	145.00	₹	145.00
0209	Labour- Carpenter 1st class TOTAL	Day	0.10	₹	440.00	₹	44.00 2,839.00
	Add for sundries & contingencies	@	3%			₹	85.17
	Total Add for electricity charges	@	0.5%			₹	2,924.17 14.62
	Add GST (multiplying factor)		0.1405			₹ ₹	2,938.79 412.90 3,351.69
	Add 15% for contractor's profit and overheads	@	15%			₹	502.75
	Add cess Cost of 10 tower bolts Cost of 1 tower bolt Say	@	1%			₹ ₹ ₹ ₹	3,854.44 38.54 3,892.98 389.30 389.30
8.72	Providing and fixing bright finished braetc. complete:	iss tower	bolts (barre	el typ	e) with ned	cessa	ry screws
8.72.2	200x10 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-		10.00		040.00		
08018	Brass barrel bolts 200x10 mm	each	10.00	₹	210.00	₹	2,100.00
08039	Brass screws 30 mm Labour-	100 Nos	80.00	₹	145.00	₹	116.00
0209	Carpenter 1 st class TOTAL	Day	0.10	₹	440.00	₹	44.00 2,260.00
	Add for sundries & contingencies	@	3%			₹	67.80
	Total Add for electricity charges	@	0.5%			₹ ₹	2,327.80 11.64 2,339.44
	Add GST (multiplying factor)		0.1405			₹ ₹	328.69 2,668.13
	Add 15% for contractor's profit and overheads	@	15%			₹	400.22 3,068.35
	Add cess Cost of 10 tower bolts Cost of 1 tower bolt Say	@	1%			₹ ₹ ₹	30.68 3,099.03 309.90 309.90
8.72 8.72.3	Providing and fixing bright finished braetc. complete: 150x10 mm	ass tower	bolts (barre	el typ	e) with ned	cessa	ry screws
Code	Description	Unit	Quantity		Rate		Rate
08019	Details of cost for 10 nos. Materials- Brass barrel bolts 150x10 mm	oach	10.00	₹	160.00	₹	1 600 00
00019	DI 455 DALLET DOLLS 150X TO ITIIII	each	10.00		100.00		1,600.00

08039	Brass screws 30 mm	100 Nos	80.00	₹	145.00	₹	116.00
0209	Labour- Carpenter 1 st class TOTAL	Day	0.10	₹	440.00	₹	44.00 1,760.00
	Add for sundries & contingencies	@	3%			₹	52.80
	Total Add for electricity charges	@	0.5%			₹	1,812.80 9.06
	Add GST (multiplying factor)		0.1405			₹ ₹	1,821.86 255.97
	Add 15% for contractor's profit and overheads	@	15%			₹	2,077.83 311.67
	Add cess Cost of 10 tower bolts Cost of 1 tower bolt Say	@	1%			₹ ₹ ₹ ₹	2,389.50 23.90 2,413.40 241.34 241.30
8.72	Providing and fixing bright finished bra etc. complete:	ass tower	bolts (barre	el typ	oe) with ne	cess	ary screws
8.72.4	100x10 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08020	Brass barrel bolts 100x10 mm	each	10.00	₹	105.00	₹	1,050.00
08039	Brass screws 30 mm	100 Nos	60.00	₹	145.00	₹	87.00
0209	Labour- Carpenter 1 st class TOTAL	Day	0.10	₹	440.00	₹	44.00 1,181.00
	Add for sundries & contingencies	@	3%			₹	35.43
	Total					₹	1,216.43
	Add for electricity charges	@	0.5%			₹	6.08 1,222.51
	Add GST (multiplying factor)		0.1405			₹	171.76
	Add 15% for contractor's profit and overheads	@	15%			₹	1,394.27 209.14
	Add cess Cost of 10 tower bolts Cost of 1 tower bolt Say	@	1%			₹ ₹ ₹	1,603.41 16.03 1,619.44 161.94 161.90
8.73	Providing and fixing bright finished bra	ass door la	atch with n	eces	sary screws	s etc	. complete :
8.73.1	300x16x5 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-		-				
08024	Brass door latch 300x16x5 mm	each	10.00	₹	190.00	₹	1,900.00
08040	Brass screws 25 mm	100 Nos	90.00	₹	103.00	₹	92.70
0209	Labour- Carpenter 1 st class TOTAL	Day	0.12	₹	440.00	₹	52.80 2,045.50

Add for sundries & contingencies	@	3%	₹	61.37
Total			₹	2,106.87
Add for electricity charges	@	0.5%	₹	10.53
			₹	2,117.40
Add GST (multiplying factor)		0.1405	₹	297.49
			₹	2,414.89
Add 15% for contractor's profit and overheads	@	15%	₹	362.23
			₹	2,777.12
Add cess	@	1%	₹	27.77
Cost of 10 nos.			₹	2,804.89
Cost of 1 no.			₹	280.49
Say			₹	280.50

8.73 Providing and fixing bright finished brass door latch with necessary screws etc. complete :

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Code	Description	Unit	Quantity		Rate		Rate
08025	Details of cost for 10 nos. Materials- Brass door latch 250x16x5 mm	each	10.00	₹	180.00	₹	1,800.00
08040	Brass screws 25 mm	100 Nos	90.00	₹	103.00	₹	92.70
0209	Labour- Carpenter 1st class TOTAL	Day	0.12	₹	440.00	₹	52.80 1,945.50
	Add for sundries & contingencies	@	3%			₹	58.37
	Total Add for electricity charges	@	0.5%			₹	2,003.87 10.02 2,013.89
	Add GST (multiplying factor)		0.1405			₹	282.95 2,296.84
	Add 15% for contractor's profit and overheads	@	15%			₹	344.53
	Add cess	@	1%			₹ ₹	2,641.37 26.41
	Cost of 10 nos. Cost of 1 no.					₹	2,667.78 266.78
	Say					₹	266.80

Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality)

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 No. Materials- 100 mm mortice latch & lock with 6						
08026	levers Labour-	each	1.00	₹	415.00	₹	415.00
0209	Carpenter 1st class	Day	0.17	₹	440.00	₹	74.80
	TOTAL					₹	489.80
	Add for sundries & contingencies	@	3%			₹	14.69
	Total					₹	504.49
	Add for electricity charges	@	0.5%			₹	2.52
						₹	507.01
	Add GST (multiplying factor)		0.1405			₹	71.23

			₹	578.24
Add 15% for contractor's profit and overheads	@	15%	₹	86.74
370.1150.00			₹	664.98
Add cess	@	1%	₹	6.65
Cost of 1 mortice latch and lock			₹	671.63
Say			₹	671.60

8.75 Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles with necessary screws etc. complete (best make of approved quality).

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 No. Materials-						
08027	100 mm mortice latch Labour-	each	1.00	₹	330.00	₹	330.00
0209	Carpenter 1st class	Day	0.17	₹	440.00	₹	74.80
	TOTAL					₹	404.80
	Add for sundries & contingencies	@	3%			₹	12.14
	Total					₹	416.94
	Add for electricity charges	@	0.5%			₹	2.08
						₹	419.02
	Add GST (multiplying factor)		0.1405			₹	58.87
						₹	477.89
	Add 15% for contractor's profit and overheads	@	15%			₹	71.68
						₹	549.57
	Add cess	@	1%			₹	5.50
	Cost of 1 mortice latch and lock					₹	555.07
	Say					₹	555.10

8.76 Providing and fixing bright finished brass night latch including necessary screws etc. complete (best make of approved quality).

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 No. Materials-						
08035	Brass night latch Labour-	each	1.00	₹	640.00	₹	640.00
0209	Carpenter 1st class TOTAL	Day	0.17	₹	440.00	₹ ₹	74.80 714.80
	Add for sundries & contingencies	@	3%			₹	21.44
	Total					₹	736.24
	Add for electricity charges	@	0.5%			₹	3.68 739.92
	Add GST (multiplying factor)		0.1405			₹	103.96 843.88
	Add 15% for contractor's profit and overheads	@	15%			₹	126.58
						₹	970.46
	Add cess	@	1%			₹	9.70
	Cost of 1 mortice latch and lock Say					₹	980.16 980.20

8.77 Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc. complete (best make of approved quality):

8.77.1 40 mm

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 No. Materials-						
08150	40 mm lock Labour-	each	1.00	₹	70.00	₹	70.00
0209	Carpenter 1 st class TOTAL	Day	0.17	₹	440.00	₹ ₹	74.80 144.80
	Add for sundries & contingencies	@	3%			₹	4.34
	Total					₹	149.14
	Add for electricity charges	@	0.5%			₹	0.75
	Add CCT (resulting size of factors)		0.1405			₹	149.89
	Add GST (multiplying factor)		0.1405			₹	21.06
	Add 15% for contractor's profit and					₹	170.95
	Add 15% for contractor's profit and overheads	@	15%			₹	25.64
						₹	196.59
	Add cess	@	1%			₹	1.97
	Cost of 1 mortice latch and lock					₹	198.56
	Say					₹	198.60

8.77 Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc. complete (best make of approved quality):

8.7		mm

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 No. Materials-						
08151	50 mm lock Labour-	each	1.00	₹	88.00	₹	88.00
0209	Carpenter 1st class TOTAL	Day	0.17	₹	440.00	₹ ₹	74.80 162.80
	Add for sundries & contingencies	@	3%			₹	4.88
	Total					₹	167.68
	Add for electricity charges	@	0.5%			₹	0.84
						₹	168.52
	Add GST (multiplying factor)		0.1405			₹	23.68
						₹	192.20
	Add 15% for contractor's profit and overheads	@	15%			₹	28.83
						₹	221.03
	Add cess	@	1%			₹	2.21
	Cost of 1 mortice latch and lock					₹	223.24
	Say					₹	223.20

8.77 Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc. complete (best make of approved quality):

8.77.3 65 mm

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 No. Materials-						
08152	65 mm lock Labour-	each	1.00	₹	92.00	₹	92.00
0209	Carpenter 1 st class TOTAL	Day	0.17	₹	440.00	₹ ₹	74.80 166.80

Add for sundries & contingencies	@	3%	₹	5.00
Total			₹	171.80
Add for electricity charges	@	0.5%	₹	0.86 172.66
Add GST (multiplying factor)		0.1405	₹	24.26
Add 15% for contractor's profit and			₹	196.92
overheads	@	15%	₹	29.54
			₹	226.46
Add cess	@	1%	₹	2.26
Cost of 1 mortice latch and lock			₹	228.72
Say			₹	228.70

8.77 Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc. complete (best make of approved quality):

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Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 No. Materials-						
08153	75 mm lock Labour-	each	1.00	₹	108.00	₹	108.00
0209	Carpenter 1st class TOTAL	Day	0.17	₹	440.00	₹ ₹	74.80 182.80
	Add for sundries & contingencies	@	3%			₹	5.48
	Total Add for electricity charges	@	0.5%			₹ ₹	188.28 0.94 189.22
	Add GST (multiplying factor)		0.1405			₹	26.59 215.81
	Add 15% for contractor's profit and overheads	@	15%			₹	32.37
	Add cess Cost of 1 mortice latch and lock Say	@	1%			₹ ₹ ₹	248.18 2.48 250.66 250.70

8.78 Providing and fixing 50 mm bright finished brass cup board or wardrobe knob with necessary screws (best make of approved quality)

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08036	Cupboard knob Labour-	each	10.00	₹	38.00	₹	380.00
0209	Carpenter 1 st class TOTAL	Day	0.14	₹	440.00	₹ ₹	61.60 441.60
	Add for sundries & contingencies	@	3%			₹	13.25
	Total Add for electricity charges	@	0.5%			₹ ₹	454.85 2.27 457.12
	Add GST (multiplying factor)		0.1405			₹	64.23 521.35
	Add 15% for contractor's profit and overheads	@	15%			₹	78.20
	Add cess	@	1%			₹	599.55 6.00

	Cost of 10 cupboard knob Cost of 1 cupboard knob Say					₹ ₹	605.55 60.56 60.60
8.79 8.79.1	Providing and fixing bright finished bra	ass handle	es with scr	ews	etc. comple	ete :	
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08021	Bright finished brass handles 125 mm	each	10.00	₹	150.00	₹	1,500.00
08040	Brass screws 25 mm	100 Nos	40.00	₹	103.00	₹	41.20
0209	Labour- Carpenter 1 st class TOTAL	Day	0.06	₹	440.00	₹	26.40 1,567.60
	Add for sundries & contingencies	@	3%			₹	47.03
	Total Add for electricity charges	@	0.5%			₹	1,614.63 8.07
	Add GST (multiplying factor)		0.1405			₹ ₹	1,622.70 227.99 1,850.69
	Add 15% for contractor's profit and overheads	@	15%			₹	277.60
	Add cess Cost of 10 handles Cost of 1 handle Say	@	1%			₹ ₹ ₹	2,128.29 21.28 2,149.57 214.96 215.00
8.79 8.79.2	Providing and fixing bright finished bra	ass handle	es with scr	ews	etc. comple	ete :	
	100 mm	ass handle Unit	es with scro	ews	etc. comple Rate	ete :	Rate
8.79.2				ews		ete:	Rate
8.79.2	100 mm Description Details of cost for 10 nos.			ews		ete:	Rate 1,400.00
8.79.2 Code	100 mm Description Details of cost for 10 nos. Materials- Bright finished brass handles 100 mm Brass screws 25 mm	Unit	Quantity 10.00		Rate		
8.79.2 Code 08022	100 mm Description Details of cost for 10 nos. Materials- Bright finished brass handles 100 mm	Unit	Quantity 10.00	₹	Rate 140.00	₹	1,400.00
8.79.2 Code 08022 08040	100 mm Description Details of cost for 10 nos. Materials- Bright finished brass handles 100 mm Brass screws 25 mm Labour- Carpenter 1st class	Unit each 100 Nos	Quantity 10.00 40.00	₹	Rate 140.00 103.00	₹₹	1,400.00 41.20 26.40
8.79.2 Code 08022 08040	100 mm Description Details of cost for 10 nos. Materials- Bright finished brass handles 100 mm Brass screws 25 mm Labour- Carpenter 1st class TOTAL	Unit each 100 Nos Day	10.00 40.00 0.06	₹	Rate 140.00 103.00	₹ ₹ ₹₹₹	1,400.00 41.20 26.40 1,467.60 44.03 1,511.63 7.56
8.79.2 Code 08022 08040	100 mm Description Details of cost for 10 nos. Materials- Bright finished brass handles 100 mm Brass screws 25 mm Labour- Carpenter 1st class TOTAL Add for sundries & contingencies Total	Unit each 100 Nos Day	Quantity 10.00 40.00 0.06	₹	Rate 140.00 103.00	₹ ₹ ₹₹₹₹ ₹ ₹	1,400.00 41.20 26.40 1,467.60 44.03 1,511.63 7.56 1,519.19 213.45
8.79.2 Code 08022 08040	100 mm Description Details of cost for 10 nos. Materials- Bright finished brass handles 100 mm Brass screws 25 mm Labour- Carpenter 1st class TOTAL Add for sundries & contingencies Total Add for electricity charges	Unit each 100 Nos Day	Quantity 10.00 40.00 0.06 3% 0.5%	₹	Rate 140.00 103.00	₹ ₹ ₹₹₹₹	1,400.00 41.20 26.40 1,467.60 44.03 1,511.63 7.56 1,519.19 213.45 1,732.64 259.90
8.79.2 Code 08022 08040	100 mm Description Details of cost for 10 nos. Materials- Bright finished brass handles 100 mm Brass screws 25 mm Labour- Carpenter 1st class TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and	Unit each 100 Nos Day @ @ @ @ @	Quantity 10.00 40.00 0.06 3% 0.5% 0.1405 15% 1%	₹₹	Rate 140.00 103.00 440.00	र र रहर रहर रहर रहर है	1,400.00 41.20 26.40 1,467.60 44.03 1,511.63 7.56 1,519.19 213.45 1,732.64

8.79.3	75 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08023	Bright finished brass handles 75 mm	each	10.00	₹	105.00	₹	1,050.00
08040	Brass screws 25 mm	100 Nos	40.00	₹	103.00	₹	41.20
0209	Labour- Carpenter 1 st class TOTAL	Day	0.06	₹	440.00	₹	26.40 1,117.60
	Add for sundries & contingencies	@	3%			₹	33.53
	Total Add for electricity charges	@	0.5%			₹ ₹	1,151.13 5.76 1,156.89
	Add GST (multiplying factor)		0.1405			₹ ₹	162.54 1,319.43
	Add 15% for contractor's profit and overheads	@	15%			₹	197.91
	Add cess Cost of 10 handles Cost of 1 handle Say	@	1%			₹ ₹ ₹ ₹	1,517.34 15.17 1,532.51 153.25 153.30
8.80	Providing and fixing bright finished br screws, etc. complete.	ass hangi	ng type flo	or d	oor stoppe	r with	n necessary
Code	Description	Unit	Quantity		Rate		Rate
08154	Details of cost for 10 hanging floor door stopper Materials- Bright finished brass floor door stopper	each	10.00	₹	78.00	₹	780.00
08040	Brass screws 25 mm	100 Nos	20.00	₹	103.00	₹	20.60
0209	Labour- Carpenter 1st class TOTAL	Day	0.03	₹	440.00	₹	13.20 813.80
	Add for sundries & contingencies	@	3%			₹	24.41
	Total Add for electricity charges	@	0.5%			₹	838.21 4.19 842.40
	Add GST (multiplying factor)		0.1405			₹	118.36 960.76
	Add 15% for contractor's profit and overheads	@	15%			₹	144.11
	Add cess Cost of 10 floor door stoppers Cost of 1 floor door stopper Say	@	1%			₹ ₹ ₹	1,104.87 11.05 1,115.92 111.59 111.60
8.81	Providing and fixing IS: 3564 marke hydraulic door closer with necessary ac				•		e universal
Code	Description	Unit	Quantity		Rate		Rate

	Details of cost for 10 nos.						
08155	Materials- Hydraulic door closer with necessary accessories	each	10.00	₹	700.00	₹	7,000.00
08039	Brass screws 30 mm	100 Nos	60.00	₹	145.00	₹	87.00
	Labour-						
0210	Carpenter 2nd class TOTAL	Day	1.00	₹	395.00	₹ ₹	395.00 7,482.00
	Add for sundries & contingencies	@	3%			₹	224.46
	Total					₹	7,706.46
	Add for electricity charges	@	0.5%			₹	38.53
	Add GST (multiplying factor)		0.1405			₹ ₹	7,744.99 1,088.17 8,833.16
	Add 15% for contractor's profit and	@	15%			₹	1,324.97
	overheads	C	1370			₹	10,158.13
	Add cess	@	1%			₹	10,156.15
	Cost of 10 floor door closers					₹	10,259.71
	Cost of 1 floor door closer					₹ ₹	1,025.97 1,026.00
	Say					•	1,026.00
8.82	Providing and fixing IS: 3564 market universal hydraulic door closer with d and screws etc. complete.						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08185	Hydraulic door closer	each	10.00	₹	750.00	₹	7,500.00
08039	Brass screws 30 mm	100 Nos	60.00	₹	145.00	₹	87.00
	Labour-						
0210	Carpenter 2nd class TOTAL	Day	1.00	₹	395.00	₹	395.00 7,982.00
	Add for sundries & contingencies	@	3%			₹	239.46
	Total					₹	8,221.46
	Add for electricity charges	@	0.5%			₹	41.11
	Add GST (multiplying factor)		0.1405			₹	8,262.57 1,160.89
	, tad co. (a.t.p.)g tactor,		011.100			₹	9,423.46
	Add 15% for contractor's profit and overheads	@	15%			₹	1,413.52
	overneads					₹	10,836.98
	Add cess	@	1%			₹	108.37
	Cost of 10 floor door closers					₹	10,945.35
	Cost of 1 floor door closer Say					₹ ₹	1,094.54 1,094.50
	July						1,071.00
8.83	Providing and fixing bright finished br screws etc. complete.	ass casem	ent windo	n fas	stener with	nece	essary
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos.						
00000	Materials-		10.00	~	(0.00	5	(00.00
08028 08040		each	10.00	₹	60.00	₹	600.00

0209	Labour- Carpenter 1 st class TOTAL	Day	0.10	₹	440.00	₹	44.00 685.20
	Add for sundries & contingencies	@	3%			₹	20.56
	Total Add for electricity charges	@	0.5%			₹ ₹	705.76 3.53 709.29
	Add GST (multiplying factor)		0.1405			₹	99.66 808.95
	Add 15% for contractor's profit and overheads	@	15%			₹	121.34
	Add cess Cost of 10 floor window fastners Cost of 1 floor window fastner Say	@	1%			₹ ₹ ₹	930.29 9.30 939.59 93.96 94.00
8.84	Providing and fixing bright finished br necessary screws etc. complete:	asscaseme	ent stays (s	traig	ıht peg type	e) wi	th
8.84.1	300 mm weighing not less than 330 gms						
Code	Description	Unit	Quantity		Rate		Rate
08029	Details of cost for 10 nos. Materials- Brass casement stayes 300 mm	each	10.00	₹	140.00	₹	1,400.00
08039	Brass screws 30 mm	100 Nos		₹	145.00	₹	58.00
00037	Labour-	100 1103	40.00		143.00		30.00
0209	Carpenter 1 st class TOTAL	Day	0.10	₹	440.00	₹ ₹	44.00 1,502.00
	Add for sundries & contingencies	@	3%			₹	45.06
	Total	@	O E9/			₹	1,547.06
	Add for electricity charges	w	0.5%			₹	7.74 1,554.80
	Add GST (multiplying factor)		0.1405			₹	218.45 1,773.25
	Add 15% for contractor's profit and overheads	@	15%			₹	265.99
	Add cess	@	1%			₹	2,039.24 20.39
	Cost of 10 casement stayes					₹	2,059.63
	Cost of 1 casement staye Say					₹ ₹	205.96 206.00
8.84	Providing and fixing bright finished br necessary screws etc. complete:	ass casem	ent stays (s	strai	ght peg typ	e) w	ith
8.84.2	250 mm weighing not less than 280 gms						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-		-				
08030	Brass casement stayes 250 mm	each	10.00	₹	120.00	₹	1,200.00
08040	Brass screws 25 mm	100 Nos	40.00	₹	103.00	₹	41.20
0209	Labour- Carpenter 1 st class TOTAL	Day	0.10	₹	440.00	₹	44.00 1,285.20

	Add for sundries & contingencies	@	20/			-	20 54
	Add for sundries & contingencies	@	3%			₹	38.56
	Total Add for electricity charges	@	0.5%			₹	1,323.76 6.62
	That for electricity changes		0.070			₹	1,330.38
	Add GST (multiplying factor)		0.1405			₹	186.92
	Add 15% for contractor's profit and					₹	1,517.30
	overheads	@	15%			₹	227.60
						₹	1,744.90
	Add cess Cost of 10 casement stayes	@	1%			₹ ₹	17.45 1,762.35
	Cost of 10 casement stayes Cost of 1 casement staye					₹	1,762.33
	Say					₹	176.20
	Providing and fixing bright finished bright	acc cacom	ont stays (ctroi	aht noa tyn	ار ا	th
8.84	necessary screws etc. complete :	ass casem	erit Stays (:	Strai	grit peg typ	e) wi	ш
8.84.3	200 mm weighing not less than 240						
0.04.3	gms						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos.						
00001	Materials-		40.00	_	440.00	_	4 400 00
08031	Brass casement stayes 200 mm	each	10.00	₹	110.00	₹	1,100.00
08040	Brass screws 25 mm	100 Nos	40.00	₹	103.00	₹	41.20
	Labour-	_					
0209	Carpenter 1 st class TOTAL	Day	0.10	₹	440.00	₹	44.00 1,185.20
			20/				
	Add for sundries & contingencies	@	3%			₹	35.56
	Total		0.50/			₹	1,220.76
	Add for electricity charges	@	0.5%			₹	6.10 1,226.86
	Add GST (multiplying factor)		0.1405			₹	172.37
						₹	1,399.23
	Add 15% for contractor's profit and overheads	@	15%			₹	209.88
	Overneads					₹	1,609.11
	Add cess	@	1%			₹	16.09
	Cost of 1 casement stayes					₹	1,625.20 162.52
	Cost of 1 casement staye Say					₹ ₹	162.52 162.50
8.85	Providing and fixing bright finished br	ass hasp a	nd staple ((safe	ty type) wit	h ne	cessary
0.00	screws etc. complete:						
8.85.1	150 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos.						
	Materials-						
08032	Brass Safety hasps & staples 150 mm	10 Nos	10.00	₹	780.00	₹	780.00
00040	Drawn country OF many	100 Nas	00.00	x	102.00	x	00.40
08040	Brass screws 25 mm	100 Nos	80.00	₹	103.00	₹	82.40
0209	Labour-	Day	0.08	₹	440.00	₹	35.20
0207	Carpenter 1st class TOTAL	Day	0.00		440.00	₹	897.60
	Add for sundries & contingencies	@	3%			₹	26.93
	Total		3.0			-	
	IUIAI					₹	924.53

	Add for electricity charges	@	0.5%			₹	4.62 929.15
	Add GST (multiplying factor)		0.1405			₹	130.55 1,059.70
	Add 15% for contractor's profit and overheads	@	15%			₹	158.96
	Add cess Cost of 10 hasps and staples Cost of 1 hasps and staple Say	@	1%			₹ ₹ ₹ ₹	1,218.66 12.19 1,230.85 123.09 123.10
8.85	Providing and fixing bright finished brascrews etc. complete:	ass hasp a	nd staple (safe	ty type) wit	h ne	ecessary
8.85.2	115 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-		,				
08033	Brass Safety hasps & staples 115 mm	10 Nos	10.00	₹	700.00	₹	700.00
08041	Brass screws 20 mm	100 Nos	70.00	₹	98.00	₹	68.60
0209	Labour- Carpenter 1st class TOTAL	Day	0.08	₹	440.00	₹	35.20 803.80
	Add for sundries & contingencies	@	3%			₹	24.11
	Total					₹	827.91
	Add for electricity charges	@	0.5%			₹	4.14
	Add GST (multiplying factor)		0.1405			₹ ₹	832.05 116.90 948.95
	Add 15% for contractor's profit and overheads	@	15%			₹	142.34
						₹	1,091.29
	Add cess Cost of 10 hasps and staples	@	1%			₹	10.91 1,102.20
	Cost of 1 hasps and staple					₹	1,102.20
	Say					₹	110.20
8.85	Providing and fixing bright finished brascrews etc. complete:	ass hasp a	nd staple (safe	ty type) wit	h ne	ecessary
8.85.3	90 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08034	Brass Safety hasps & staples 90 mm	10 Nos	10.00	₹	600.00	₹	600.00
08041	Brass screws 20 mm	100 Nos	70.00	₹	98.00	₹	68.60
0209	Carpenter 1 st class TOTAL	Day	0.08	₹	440.00	₹ ₹	35.20 703.80
	Add for sundries & contingencies	@	3%			₹	21.11
	Total					₹	724.91
	Add for electricity charges	@	0.5%			₹	3.62
	Add GST (multiplying factor)		0.1405			₹	728.53 102.36

			₹	830.89
Add 15% for contractor's profit and overheads	@	15%	₹	124.63
			₹	955.52
Add cess	@	1%	₹	9.56
Cost of 10 hasps and staples			₹	965.08
Cost of 1 hasps and staple			₹	96.51
Say			₹	96.50

Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).

Code	Description	Unit	Quantity		Rate		Rate
08045	Details of cost for 1 No. Materials- 100 mm mortice latch & lock with 6 levers Labour-	each	1.00	₹	580.00	₹	580.00
0209	Carpenter 1 st class TOTAL	Day	0.17	₹	440.00	₹ ₹	74.80 654.80
	Add for sundries & contingencies	@	3%			₹	19.64
	Total Add for electricity charges	@	0.5%			₹ ₹	674.44 3.37 677.81
	Add GST (multiplying factor)		0.1405			₹	95.23 773.04
	Add 15% for contractor's profit and overheads	@	15%			₹	115.96
	Add cess Cost of 1 mortice latch and lock Say	@	1%			₹ ₹ ₹	889.00 8.89 897.89 897.90

8.87 Providing and fixing chromium plated brass night latch including necessary screws etc. complete (Best make of approved quality).

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 No. Materials-						
08050	Brass night latch Labour-	each	1.00	₹	530.00	₹	530.00
0209	Carpenter 1st class TOTAL	Day	0.17	₹	440.00	₹	74.80 604.80
	Add for sundries & contingencies	@	3%			₹	18.14
	Total Add for electricity charges	@	0.5%			₹	622.94 3.11
			0.4.405			₹	626.05
	Add GST (multiplying factor)		0.1405			₹ ₹	87.96 714.01
	Add 15% for contractor's profit and overheads	@	15%			₹	107.10
	Add assa		10/			₹	821.11
	Add cess Cost of 1 mortice latch and lock	@	1%			₹ ₹	8.21 829.32 829.30
	Say					<	029.30

191.70

8.88 Providing and fixing special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Best make of approved quality) of :

8.88.1	Size 40 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 No. Materials-						
08159	40 mm lock Labour-	each	1.00	₹	65.00	₹	65.00
0209	Carpenter 1st class TOTAL	Day	0.17	₹	440.00	₹ ₹	74.80 139.80
	Add for sundries & contingencies	@	3%			₹	4.19
	Total					₹	143.99
	Add for electricity charges	@	0.5%			₹	0.72 144.71
	Add GST (multiplying factor)		0.1405			₹	20.33
	Add 15% for contractor's profit and overheads	@	15%			₹	165.04 24.76
						₹	189.80
	Add cess Cost of 1 mortice latch and lock	@	1%			₹	1.90 191.70

8.88 Providing and fixing special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Best make of approved quality) of :

.88			mm (

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 No. Materials-						
08160	50 mm lock Labour-	each	1.00	₹	75.00	₹	75.00
0209	Carpenter 1st class TOTAL	Day	0.17	₹	440.00	₹ ₹	74.80 149.80
	Add for sundries & contingencies	@	3%			₹	4.49
	Total Add for electricity charges	@	0.5%			₹	154.29 0.77 155.06
	Add GST (multiplying factor)		0.1405			₹ ₹	21.79 176.85
	Add 15% for contractor's profit and overheads	@	15%			₹	26.53
	Add cess Cost of 1 mortice latch and lock Say	@	1%			₹ ₹ ₹	203.38 2.03 205.41 205.40
						•	230.10

8.88 Providing and fixing special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Best make of approved quality) of ::

8.88.3 Size 65 mm

Code	Description	Unit	Quantity		Rate		Rate
08161	Details of cost for 1 no. Materials- 65 mm lock Labour-	each	1.00	₹	98.00	₹	98.00

0209	Carpenter 1 st class TOTAL	Day	0.17	₹	440.00	₹	74.80 172.80
	Add for sundries & contingencies	@	3%			₹	5.18
	Total Add for electricity charges	@	0.5%			₹	177.98 0.89
	Add GST (multiplying factor)		0.1405			₹ ₹	178.87 25.13 204.00
	Add 15% for contractor's profit and overheads	@	15%			₹	30.60
	Add cess Cost of 1 mortice latch and lock Say	@	1%			₹ ₹ ₹	234.60 2.35 236.95 237.00
8.88	Providing and fixing special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Best make of approved quality) of :						
8.88.4	Size 75 mm	Heit	Ougatity		Data		Doto
Code	Description Details of cost for one	Unit	Quantity		Rate		Rate
08162	Materials- 75 mm lock Labour-	each	1.00	₹	125.00	₹	125.00
0209	Carpenter 1st class TOTAL	Day	0.17	₹	440.00	₹ ₹	74.80 199.80
	Add for sundries & contingencies	@	3%			₹	5.99
	Total Add for electricity charges	@	0.5%			₹	205.79
	Add GST (multiplying factor)		0.1405			₹ ₹	206.82 29.06 235.88
	Add 15% for contractor's profit and overheads	@	15%			₹	35.38
	Add cess Cost of 1 mortice latch and lock Say	@	1%			₹ ₹ ₹	271.26 2.71 273.97 274.00
8.89	Providing and fixing chromium plate nuts complete.	d brass 5	50 mm cup	boar	d or wardı	obe	knobs with
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08051	Cupboard knob Labour-	each	10.00	₹	50.00	₹	500.00
0209	Carpenter 1 st class TOTAL	Day	0.14	₹	440.00	₹	61.60 561.60
	Add for sundries & contingencies	@	3%			₹	16.85
	Total Add for electricity charges	@	0.5%			₹ ₹	578.45 2.89
	Add GST (multiplying factor)		0.1405			₹ ₹	581.34 81.68 663.02
	Add 15% for contractor's profit and overheads	@	15%			₹	99.45
						₹	762.47

	Add cess Cost of 10 cupboard knob Cost of 1 cupboard knob Say	@	1%			₹ ₹ ₹	7.62 770.09 77.01 77.00		
8.90	Providing and fixing chromium plated brass handles with necessary screws etc. complete:								
8.90.1	125 mm								
Code	Description	Unit	Quantity		Rate		Rate		
08042	Details of cost for 10 nos. Materials- Chromium plated brass handles 125 mm	each	10.00	₹	192.00	₹	1,920.00		
08040	Brass screws 25 mm	100 Nos	40.00	₹	103.00	₹	41.20		
0209	Labour- Carpenter 1 st class TOTAL	Day	0.06	₹	440.00	₹	26.40 1,987.60		
	Add for sundries & contingencies	@	3%			₹	59.63		
	Total Add for electricity charges	@	0.5%			₹ ₹	2,047.23 10.24 2,057.47		
	Add GST (multiplying factor)		0.1405			₹	289.07		
	Add 15% for contractor's profit and overheads	@	15%			₹	2,346.54 351.98		
	Add cess Cost of 10 handles Cost of 1 handle Say	@	1%			₹ ₹ ₹ ₹	2,698.52 26.99 2,725.51 272.55 272.60		
8.90	Providing and fixing chromium plated	brass han	dles with n	eces	sary screws	s etc	. complete:		
8.90.2	100 mm								
Code	Description	Unit	Quantity		Rate		Rate		
	Details of cost for 10 nos. Materials-								
08043	Chromium plated brass handles 100 mm	each	10.00	₹	168.00	₹	1,680.00		
08040	Brass screws 25 mm	100 Nos	40.00	₹	103.00	₹	41.20		
0209	Labour- Carpenter 1 st class TOTAL	Day	0.06	₹	440.00	₹	26.40 1,747.60		
	Add for sundries & contingencies	@	3%			₹	52.43		
	Total Add for electricity charges	@	0.5%			₹	1,800.03		
	Add GST (multiplying factor)		0.1405			₹ ₹	1,809.03 254.17 2,063.20		
	Add 15% for contractor's profit and overheads	@	15%			₹	309.48		
	Add cess Cost of 10 handles Cost of 1 handle	@	1%			₹₹₹	2,372.68 23.73 2,396.41 239.64		

\$\text{Say}\$

8.90 Providing and fixing chromium plated brass handles with necessary screws etc. complete:

8.90.3	75 mm						
Code	Description	Unit	Quantity		Rate		Rate
08044	Details of cost for 10 nos. Materials- Chromium plated brass handles 75 mm	each	10.00	₹	135.00	₹	1,350.00
08040	Brass screws 25 mm	100 Nos	40.00	₹	103.00	₹	41.20
0209	Labour- Carpenter 1st class TOTAL	Day	0.06	₹	440.00	₹	26.40 1,417.60
	Add for sundries & contingencies	@	3%			₹	42.53
	Total Add for electricity charges	@	0.5%			₹ ₹	1,460.13 7.30 1,467.43
	Add GST (multiplying factor)		0.1405			₹ ₹	206.17 1,673.60
	Add 15% for contractor's profit and overheads	@	15%			₹	251.04
	Add cess Cost of 10 handles Cost of 1 handle Say	@	1%			₹ ₹ ₹	1,924.64 19.25 1,943.89 194.39 194.40

8.91 Providing and fixing chromium plated brass casement window fastener with necessary screws etc. complete.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08046	C.P. brass window fastner	each	10.00	₹	95.00	₹	950.00
08055	C.P. brass screws 25 mm	100 Nos	40.00	₹	189.00	₹	75.60
	Labour-						
0209	Carpenter 1st class TOTAL	Day	0.10	₹	440.00	₹	44.00 1,069.60
	Add for sundries & contingencies	@	3%			₹	32.09
	Total					₹	1,101.69
	Add for electricity charges	@	0.5%			₹	5.51
						₹	1,107.20
	Add GST (multiplying factor)		0.1405			₹	155.56
	A 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					₹	1,262.76
	Add 15% for contractor's profit and overheads	@	15%			₹	189.41
						₹	1,452.17
	Add cess	@	1%			₹	14.52
	Cost of 10 window fasteners					₹	1,466.69
	Cost of 1 window fastener					₹	146.67
	Say					₹	146.70

8.92 Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete :

8.92.1	300 mm weighing not less than 330 gms						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Material s-						
08047	C.P. brass casement stays 300 mm	each	10.00	₹	165.00	₹	1,650.00
08055	C.P. brass screws 25 mm	100 Nos	40.00	₹	189.00	₹	75.60
0209	Labour- Carpenter 1 st class TOTAL	Day	0.10	₹	440.00	₹	44.00 1,769.60
	Add for sundries & contingencies	@	3%			₹	53.09
	Total Add for electricity charges	@	0.5%			₹	1,822.69 9.11
	Add GST (multiplying factor)		0.1405			₹ ₹	1,831.80 257.37 2,089.17
	Add 15% for contractor's profit and overheads	@	15%			₹	313.38
	Add cess Cost of 10 window fasteners Cost of 1 window fastener Say	@	1%			₹ ₹ ₹ ₹	2,402.55 24.03 2,426.58 242.66 242.70
8.92	Providing and fixing chromium plate necessary screws etc. complete:	ed brass	casement	stays	(straight	peg	type) with
8.92.2	250 mm weighing not less than 280 gms						
Code	Description	Unit	Quantity		Rate		Rate
08048	Details of cost for 10 nos. Materials- C.P. brass casement stays 250 mm	each	10.00	₹	135.00	₹	1,350.00
	C.P. brass screws 25 mm		40.00		189.00		75.60
0209	Labour- Carpenter 1st class TOTAL	Day	0.10	₹	440.00	₹	44.00 1,469.60
	Add for sundries & contingencies	@	3%			₹	44.09
	Total Add for electricity charges	@	0.5%			₹	1,513.69 7.57
	Add GST (multiplying factor)		0.1405			₹ ₹	1,521.26 213.74
	Add 15% for contractor's profit and overheads	@	15%			₹	1,735.00 260.25
	Add cess Cost of 10 window fasteners Cost of 1 window fastener Say	@	1%			₹ ₹ ₹ ₹	1,995.25 19.95 2,015.20 201.52 201.50
8.92 8.92.3	Providing and fixing chromium plate necessary screws etc. complete: 200 mm weighing not less than 240 gms	ed brass	casement	stays	(straight	peg	type) with

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08049	C.P. brass casement stays 200 mm	each	10.00	₹	125.00	₹	1,250.00
08055	C.P. brass screws 25 mm	100 Nos	40.00	₹	189.00	₹	75.60
0209	Labour- Carpenter 1st class TOTAL	Day	0.10	₹	440.00	₹	44.00 1,369.60
	Add for sundries & contingencies	@	3%			₹	41.09
	Total Add for electricity charges	@	0.5%			₹ ₹	1,410.69 7.05 1,417.74
	Add GST (multiplying factor)		0.1405			₹ ₹	199.19 1,616.93
	Add 15% for contractor's profit and overheads	@	15%			₹	242.54
	Add cess Cost of 10 window fasteners Cost of 1 window fastener Say	@	1%			₹ ₹ ₹ ₹	1,859.47 18.59 1,878.06 187.81 187.80
8.93 8.93.1	Providing and fixing ISI marked aluming than grade AC 10 as per IS: 1868) trans 125x75x4 mm						
Code	Description	Unit	Quantity		Rate		Rate
08105	Details of cost for 10 nos. Materials- Aluminium butt hinges 125x75x4.00	10 Nos	10.00	₹	595.00	₹	595.00
	mm						
08052	C.P.brass screws 50 mm	100 Nos	100.00	₹	310.00	₹	310.00
0209 0203	Labour- Carpenter 1st class Beldar TOTAL	Day Day	0.14 0.09	₹	440.00 310.00	₹ ₹	61.60 27.90 994.50
	Add for sundries & contingencies	@	3%			₹	29.84
	Total Add for electricity charges	@	0.5%			₹ ₹	1,024.34 5.12 1,029.46
	Add GST (multiplying factor)		0.1405			₹	144.64 1,174.10
	Add 15% for contractor's profit and overheads	@	15%			₹	176.12
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹ ₹	1,350.22 13.50 1,363.72 136.37 136.40
8.93 8.93.2	Providing and fixing ISI marked aluming than grade AC 10 as per IS: 1868) trans 125x63x4 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						

08106	Aluminium butt hinges 125x63x4.00 mm	10 Nos	10.00	₹	490.00	₹	490.00
08052	C.P.brass screws 50 mm	100 Nos	100.00	₹	310.00	₹	310.00
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.09	₹	440.00 310.00	₹₹	61.60 27.90 889.50
	Add for sundries & contingencies	@	3%			₹	26.69
	Total Add for electricity charges	@	0.5%			₹ ₹	916.19 4.58 920.77
	Add GST (multiplying factor)		0.1405			₹	129.37 1,050.14
	Add 15% for contractor's profit and overheads	@	15%			₹	157.52
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	1,207.66 12.08 1,219.74 121.97 122.00
	Providing and fixing ISI marked alumin	nium hutt	hinges a	nodis	ed (anodic	coat	ina not less

Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:

8.93.3	100x7	'5x4	mm

Code	Description	Unit	Quantity		Rate		Rate
08107	Details of cost for 10 nos. Materials- Aluminium butt hinges 100x75x4.00 mm	10 Nos	10.00	₹	600.00	₹	600.00
08053	C.P.brass screws 40 mm	100 Nos	80.00	₹	305.00	₹	244.00
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.09	₹	440.00 310.00	₹₹	61.60 27.90 933.50
	Add for sundries & contingencies	@	3%			₹	28.01
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5% 0.1405			₹₹₹₹	961.51 4.81 966.32 135.77 1,102.09
	Add 15% for contractor's profit and overheads	@	15%			₹	165.31
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹ ₹	1,267.40 12.67 1,280.07 128.01 128.00

Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:

8.93.4 100x63x4 mm

Code Description Unit Quantity Rate Rate

Details of cost for 10 nos.

					011.	<i>3</i> , 11 0	05 41 10 11011
08109	Materials- Aluminium butt hinges 100x63x4.00 mm	10 Nos	10.00	₹	490.00	₹	490.00
08053	C.P.brass screws 40 mm	100 Nos	80.00	₹	305.00	₹	244.00
0209	Labour- Carpenter 1st class Beldar TOTAL	Day Day	0.14 0.09	₹	440.00 310.00	₹₹	61.60 27.90 823.50
	Add for sundries & contingencies	@	3%			₹	24.71
	Total Add for electricity charges	@	0.5%			₹ ₹	848.21 4.24 852.45
	Add GST (multiplying factor)		0.1405			₹	119.77 972.22
	Add 15% for contractor's profit and overheads	@	15%			₹	145.83
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	1,118.05 11.18 1,129.23 112.92 112.90
8.93 8.93.5	Providing and fixing ISI marked alum than grade AC 10 as per IS: 1868) tr necessary screws etc. complete: 100x63x3.2 mm						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos.						

Code	Description	Unit	Quantity		Rate		Rate
08108	Details of cost for 10 nos. Materials- Aluminium butt hinges I00x63x3.20 mm	10 Nos	10.00	₹	460.00	₹	460.00
08053	C.P.brass screws 40 mm	100 Nos	80.00	₹	305.00	₹	244.00
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.09	₹	440.00 310.00	₹₹	61.60 27.90 793.50
	Add for sundries & contingencies	@	3%			₹	23.81
	Total Add for electricity charges	@	0.5%			₹ ₹	817.31 4.09 821.40
	Add GST (multiplying factor)		0.1405			₹	115.41
	Add 15% for contractor's profit and overheads	@	15%			₹	936.81 140.52
	Add cess	@	1%			₹	1,077.33 10.77
	Cost of 10 nos.	w.	1 /0			₹	1,088.10
	Cost of 1 no.					₹	108.81
	Say					₹	108.80

Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:

8.83.6 75x63x4 mm

Code Description Unit Quantity Rate Rate

Details of cost for 10 nos.

08110	Materials- Aluminium butt hinges 75x63x4.00 mm	10 Nos	10.00	₹	410.00	₹	410.00
08054	C.P.brass screws 30 mm	100 Nos	60.00	₹	250.00	₹	150.00
0209 0203	Labour- Carpenter 1st class Beldar TOTAL	Day Day	0.14 0.09	₹	440.00 310.00	₹ ₹	61.60 27.90 649.50
	Add for sundries & contingencies	@	3%			₹	19.49
	Total					₹	668.99
	Add for electricity charges	@	0.5%			₹	3.34
	A 1 1 00T (0.4.405			₹	672.33
	Add GST (multiplying factor)		0.1405			₹	94.46
	A 1145% C					₹	766.79
	Add 15% for contractor's profit and overheads	@	15%			₹	115.02
						₹	881.81
	Add cess	@	1%			₹	8.82
	Cost of 10 nos.					₹	890.63
	Cost of 1 no.					₹	89.06
	Say					₹	89.10

Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:

8.93.		2 mm

Code	Description	Unit	Quantity		Rate		Rate
08111	Details of cost for 10 nos. Materials- Aluminium butt hinges 75x63x3.20 mm	10 Nos	10.00	₹	275.00	₹	275.00
08054	C.P.brass screws 30 mm	100 Nos	60.00	₹	250.00	₹	150.00
0209 0203	Labour- Carpenter 1st class Beldar TOTAL	Day Day	0.14 0.09	₹	440.00 310.00	₹ ₹	61.60 27.90 514.50
	Add for sundries & contingencies	@	3%			₹	15.44
	Total Add for electricity charges	@	0.5%			₹ ₹	529.94 2.65 532.59
	Add GST (multiplying factor)		0.1405			₹	74.83 607.42
	Add 15% for contractor's profit and overheads	@	15%			₹	91.11
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹ ₹	698.53 6.99 705.52 70.55 70.60

Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete: .

8.93.8 75x45x3.2 mm

Code	Description	Unit	Quantity		Rate		Rate
08112	Details of cost for 10 nos. Materials- Aluminium butt hinges 75x45x3.20 mm	10 Nos	10.00	₹	210.00	₹	210.00
08054	C.P.brass screws 30 mm	100 Nos	60.00	₹	250.00	₹	150.00
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.14 0.09	₹	440.00 310.00	₹₹	61.60 27.90 449.50
	Add for sundries & contingencies	@	3%			₹	13.49
	Total Add for electricity charges	@	0.5%			₹ ₹	462.99 2.31 465.30
	Add GST (multiplying factor)		0.1405			₹	65.37 530.67
	Add 15% for contractor's profit and overheads	@	15%			₹	79.60
	Add cess Cost of 10 nos. Cost of 1 no. Say	@	1%			₹ ₹ ₹	610.27 6.10 616.37 61.64 61.60

Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :

8.94.1	300x1	16 mm

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08113	Aluminium sliding bolt 300x16 mm	each	10.00	₹	160.00	₹	1,600.00
08055	C.P. brass screws 25 mm	100 Nos	40.00	₹	189.00	₹	75.60
0209	Labour- Carpenter 1st class TOTAL	Day	0.50	₹	440.00	₹	220.00 1,895.60
	Add for sundries & contingencies	@	3%			₹	56.87
	Total Add for electricity charges	@	0.5%			₹ ₹	1,952.47 9.76 1,962.23
	Add GST (multiplying factor)		0.1405			₹	275.69
	Add 15% for contractor's profit and overheads	@	15%			₹	2,237.92
	Add cess	@	1%			₹	2,573.61 25.74
	Cost of 10 sliding bolts	•	1 70			₹	2,599.35
	Cost of 1 sliding bolt Say					₹ ₹	259.94 259.90
	ou j					•	237.70

Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :

8.94.2 250x16 mm

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08114	Aluminium sliding bolt 250x16 mm	each	10.00	₹	135.00	₹	1,350.00
08055	C.P. brass screws 25 mm	100 Nos	40.00	₹	189.00	₹	75.60
0209	Labour- Carpenter 1st class TOTAL	Day	0.50	₹	440.00	₹	220.00 1,645.60
	Add for sundries & contingencies	@	3%			₹	49.37
	Total Add for electricity charges	@	0.5%			₹	1,694.97 8.47 1,703.44
	Add GST (multiplying factor)		0.1405			₹ ₹	239.33 1,942.77
	Add 15% for contractor's profit and overheads	@	15%			₹	291.42
	Add cess	@	1%			₹	2,234.19 22.34
	Cost of 10 sliding bolts Cost of 1 sliding bolt					₹	2,256.53 225.65
	Say					₹	225.70

Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :

8.95.1	l0 mm

Code	Description	Unit	Quantity		Rate		Rate
08115	Details of cost for 10 nos. Materials- Aluminium tower bolt (barrel type)300x10 mm	10 Nos	10.00	₹	680.00	₹	680.00
08054	C.P. brass screws 30 mm	100 Nos	80.00	₹	250.00	₹	200.00
0209	Labour- Carpenter 1st class TOTAL	Day	0.125	₹	440.00	₹	55.00 935.00
	Add for sundries & contingencies	@	3%			₹	28.05
	Total Add for electricity charges	@	0.5%			₹	963.05 4.82 967.87
	Add GST (multiplying factor)		0.1405			₹	135.99 1,103.86
	Add 15% for contractor's profit and overheads	@	15%			₹	165.58
	Add cess Cost of 10 tower bolts Cost of 1 tower bolt Say	@	1%			₹ ₹ ₹	1,269.44 12.69 1,282.13 128.21 128.20

Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :

8.95.2 250x10 mm

Code	Description	Unit	Quantity		Rate		Rate
08116	Details of cost for 10 nos. Materials- Aluminium tower bolt (barrel type) 250x10 mm	10 Nos	10.00	₹	510.00	₹	510.00
08054	C.P. brass screws 30 mm	100 Nos	80.00	₹	250.00	₹	200.00
0209	Labour- Carpenter 1st class TOTAL	Day	0.125	₹	440.00	₹	55.00 765.00
	Add for sundries & contingencies	@	3%			₹	22.95
	Total Add for electricity charges	@	0.5%			₹ ₹	787.95 3.94 791.89
	Add GST (multiplying factor)		0.1405			₹	111.26
	Add 15% for contractor's profit and overheads	@	15%			₹	903.15
	Add cess	@	1%			₹	1,038.62 10.39
	Cost of 10 tower bolts					₹	1,049.01
	Cost of 1 tower bolt					₹	104.90
	Say					₹	104.90

Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :

8.95.3	200x10) mr	n
0.75.5	200X IV		ш

Code	Description	Unit	Quantity		Rate		Rate
08117	Details of cost for 10 nos. Materials- Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	10.00	₹	440.00	₹	440.00
08054	C.P. brass screws 30 mm	100 Nos	80.00	₹	250.00	₹	200.00
0209	Labour- Carpenter 1 st class TOTAL	Day	0.125	₹	440.00	₹	55.00 695.00
	Add for sundries & contingencies	@	3%			₹	20.85
	Total Add for electricity charges	@	0.5%			₹ ₹	715.85 3.58 719.43
	Add GST (multiplying factor)		0.1405			₹	101.08
	Add 15% for contractor's profit and overheads	@	15%			₹	820.51 123.08
	Add cess Cost of 10 tower bolts Cost of 1 tower bolt Say	@	1%			₹ ₹ ₹ ₹	943.59 9.44 953.03 95.30 95.30

Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :

8.95.4	150x10 mm						
Code	Description	Unit	Quantity		Rate		Rate
08118	Details of cost for 10 nos. Materials- Aluminium tower bolt barrel type) 150x10 mm	10 Nos	10.00	₹	390.00	₹	390.00
08054	C.P. brass screws 30 mm	100 Nos	80.00	₹	250.00	₹	200.00
0209	Labour- Carpenter 1st class TOTAL	Day	0.08	₹	440.00	₹	35.20 625.20
	Add for sundries & contingencies	@	3%			₹	18.76
	Total Add for electricity charges	@	0.5%			₹	643.96 3.22 647.18
	Add GST (multiplying factor)		0.1405			₹ ₹	90.93 738.11
	Add 15% for contractor's profit and overheads	@	15%			₹	110.72
	Add cess Cost of 10 tower bolts Cost of 1 tower bolt Say	@	1%			₹ ₹ ₹ ₹	848.83 8.49 857.32 85.73 85.70
8.95	Providing and fixing aluminium tower than grade AC 10 as per IS: 1868) transcessary screws etc. complete:						
8.95.5	100x10 mm						
Code	Description	Unit	Quantity		Rate		Rate
08119	Details of cost for 10 nos. Materials- Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	10.00	₹	300.00	₹	300.00

Code	Description	Unit	Quantity		Rate		Rate
08119	Details of cost for 10 nos. Materials- Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	10.00	₹	300.00	₹	300.00
08054	C.P. brass screws 30 mm	100 Nos	60.00	₹	250.00	₹	150.00
0209	Labour- Carpenter 1st class TOTAL	Day	0.08	₹	440.00	₹	35.20 485.20
	Add for sundries & contingencies	@	3%			₹	14.56
	Total Add for electricity charges	@	0.5%			₹ ₹	499.76 2.50 502.26
	Add GST (multiplying factor)		0.1405			₹	70.57 572.83
	Add 15% for contractor's profit and overheads	@	15%			₹	85.92
	Add cess Cost of 10 tower bolts	@	1%			₹ ₹	658.75 6.59 665.34
	Cost of 1 tower bolt Say					₹ ₹	66.53 66.50

Providing and fixing aluminium pull bolt lock anodised ISI marked (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws bolts, nuts and washers etc. complete.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 pull bolt lock						
08157	Materials- aluminum Pull bolt lock with necessary screws,	each	10.00	₹	50.00	₹	500.00
	bolts, eachnuts and washers complete						
0210	Labour- Carpenter 2nd class TOTAL	Day	0.25	₹	395.00	₹	98.75 598.75
	Add for sundries & contingencies	@	3%			₹	17.96
	Total Add for electricity charges	@	0.5%			₹ ₹	616.71 3.08 619.79
	Add GST (multiplying factor)		0.1405			₹	87.08 706.87
	Add 15% for contractor's profit and overheads	@	15%			₹	106.03
	Add cess Cost of 10 pull bolt locks Cost of 1 pull bolt lock Say	@	1%			₹ ₹ ₹	812.90 8.13 821.03 82.10 82.10
8.97	Providing and fixing 50cm long alumin coating not less than grade AC 10 as per or shade with necessary screws etc. com	er IS : 186					
Code	Description	Unit	Quantity		Rate		Rate
08123	Details of cost for 10 nos. Materials Kicking plate 50 cm long - 100x3.15 mm	each	10.00	₹	150.00	₹	1,500.00
08055	C.P. brass screws 25 mm	100 Nos	40.00	₹	189.00	₹	75.60
0209 0203	Labour- Carpenter 1 st class Beldar TOTAL	Day Day	0.07 0.05	₹	440.00 310.00	₹ ₹	30.80 15.50 1,621.90
	Add for sundries & contingencies	@	3%			₹	48.66
	Total Add for electricity charges	@	0.5%			₹	1,670.56 8.35
	Add GST (multiplying factor)		0.1405			₹ ₹	1,678.91 235.89 1,914.80
	Add 15% for contractor's profit and overheads	@	15%			₹	287.22
	Add cess Cost of 10 kicking plates Cost of 1 kicking plate Say	@	1%			₹ ₹ ₹ ₹	2,202.02 22.02 2,224.04 222.40 222.40

Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :

8.98.1 125 mm

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08120	Aluminium handles 125 mm	10 Nos	10.00	₹	370.00	₹	370.00
08055	C.P. brass screws 25 mm	100 Nos	40.00	₹	189.00	₹	75.60
0209	Labour- Carpenter 1st class TOTAL	Day	0.06	₹	440.00	₹	26.40 472.00
	Add for sundries & contingencies	@	3%			₹	14.16
	Total Add for electricity charges	@	0.5%			₹ ₹	486.16 2.43 488.59
	Add GST (multiplying factor)		0.1405			` ₹	68.65 557.24
	Add 15% for contractor's profit and overheads	@	15%			₹	83.59
	Add cess	@	1%			₹ ₹	640.83 6.41
	Cost of 10 handles Cost of 1 handle Say					₹ ₹	647.24 64.72 64.70

Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:

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Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08121	Aluminium handles 100 mm	10 Nos	10.00	₹	290.00	₹	290.00
08055	C.P. brass screws 25 mm	100 Nos	40.00	₹	189.00	₹	75.60
0209	Labour- Carpenter 1 st class TOTAL	Day	0.06	₹	440.00	₹	26.40 392.00
	Add for sundries & contingencies	@	3%			₹	11.76
	Total Add for electricity charges	@	0.5%			₹	403.76 2.02 405.78
	Add GST (multiplying factor)		0.1405			₹	57.01 462.79
	Add 15% for contractor's profit and overheads	@	15%			₹	69.42
	Add cess Cost of 10 handles Cost of 1 handle Say	@	1%			₹ ₹ ₹ ₹	532.21 5.32 537.53 53.75 53.80

Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :

8.98.3 75 mm

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10 nos. Materials-						
08122	Aluminium handles 75 mm	10 Nos	10.00	₹	245.00	₹	245.00
08055	C.P. brass screws 25 mm	100 Nos	40.00	₹	168.00	₹	67.20
0209	Labour- Carpenter 1st class TOTAL	Day	0.06	₹	440.00	₹	26.40 338.60
	Add for sundries & contingencies	@	3%			₹	10.16
	Total Add for electricity charges	@	0.5%			₹ ₹	348.76 1.74 350.50
	Add GST (multiplying factor)		0.1405			₹	49.25 399.75
	Add 15% for contractor's profit and overheads	@	15%			₹	59.96
	Add cess Cost of 10 handles Cost of 1 handle Say	@	1%			₹ ₹ ₹	459.71 4.60 464.31 46.43 46.40
8.99 8.99.1	Providing and fixing aluminium hanging coating not less than grade AC 10 as per and shade with necessary screws etc. co. Single rubber stopper	er IS : 186					
Code	Description	Unit	Quantity		Rate		Rate
08156	Details of cost for 10 nos. Materials- Aluminium hanging floor door stopper 75 mm	each	10.00	₹	22.00	₹	220.00
08055	C.P. brass screws 25 mm	100 Nos	20.00	₹	189.00	₹	37.80
0111	Labour- Carpenter 1 st class TOTAL	Day	0.03	₹	440.00	₹	13.20 271.00
	Add for sundries & contingencies	@	3%			₹	8.13
	Total Add for electricity charges	@	0.5%			₹ ₹	279.13 1.40 280.53
	Add GST (multiplying factor)		0.1405			₹	39.41 319.94
	Add 15% for contractor's profit and overheads	@	15%			₹	47.99
	Add cess Cost of 10 door stoppers Cost of 1 stopper	@	1%			₹₹₹₹	367.93 3.68 371.61 37.16

Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.

8.99.2 Twin rubber stopper

Say

Code Description Unit Quantity Rate Rate

37.20

	Details of cost for 10 nos. Materials-						
08184	Aluminium hanging floor door stopper with twin rubber stopper	each	10.00	₹	40.00	₹	400.00
08055	C.P. brass screws 25 mm	100 Nos	20.00	₹	189.00	₹	37.80
0111	Labour- Carpenter 1st class TOTAL	Day	0.03	₹	440.00	₹	13.20 451.00
	Add for sundries & contingencies	@	3%			₹	13.53
	Total Add for electricity charges	@	0.5%			₹₹	464.53 2.32 466.85
	Add GST (multiplying factor)		0.1405			₹	65.59 532.44
	Add 15% for contractor's profit and overheads	@	15%			₹	79.87
	Add cess	@	1%			₹	612.31 6.12
	Cost of 10 door stoppers Cost of 1 stopper					₹ ₹	618.43 61.84
	Say					₹	61.80

Providing and fixing aluminium casement stays ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.

Code	Description	Unit	Quantity		Rate		Rate
08158	Details of cost for 10 nos. Materials- Aluminium casement stays	each	10.00	₹	33.00	₹	330.00
08055	C.P. brass screws 25 mm	100 Nos	40.00	₹	189.00	₹	75.60
0111	Labour- Carpenter 1 st class TOTAL Add for water charge @ 1 % TOTAL	Day	0.10	₹	440.00	₹₹₹	44.00 449.60 4.50 454.10
	Add 3% for sundries & contingencies					₹	13.62
	Total Add for contractor's profit and					₹	467.72 70.16
	overheads @ 15% Cost of 10 casement stays Cost of 1 casement stay Say					₹ ₹	537.88 53.79 53.80

Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS: 1868) aluminium lever handles with necessary screws etc. complete (Best make of approved quality)

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 1 lock Materials-						
08166	100 mm mortice latch and lock (without handles)	each	1.00	₹	280.00	₹	280.00
08167	Pair of aluminium handles Labour-	each	1.00	₹	220.00	₹	220.00
0111	Carpenter 1 st class	Day	0.17	₹	440.00	₹	74.80

TOTAL			₹	574.80
Add for sundries & contingencies	@	3%	₹	17.24
Total			₹	592.04
Add for electricity charges	@	0.5%	₹	2.96
			₹	595.00
Add GST (multiplying factor)		0.1405	₹	83.60
			₹	678.60
Add 15% for contractor's profit and overheads	@	15%	₹	101.79
			₹	780.39
Add cess	@	1%	₹	7.80
Cost of 1 lock			₹	788.19
Say			₹	788.20

8.102 Providing and fixing aluminium tee channels (heavy duty) with rollers, stop end in pelmets as curtain rod.

Code	Description	Unit	Quantity		Rate		Rate
08183	Details of cost for 2m long Materials- Aluminium channel (heavy duty) with and stop end as curtain rod TOTAL	metre	2.00	₹	100.00	₹	200.00
	Add for sundries & contingencies	@	3%			₹	6.00
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5%			₹ ₹ ₹ ₹	206.00 1.03 207.03 29.09
	Add 15% for contractor's profit and overheads	@	15%			₹	236.12 35.42
	Add cess Cost of 2 m Cost of 1 m Say	@	1%			₹ ₹ ₹ ₹	271.54 2.72 274.26 137.13 137.10

Providing and fixing partition upto ceiling height consisting of G.I. frame and required board including providing and fixing of frame work made of special section power pressed/ role form G.I. sheet with zinc coating of grade 175 consisting of floor and ceilling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick fixed to the floor and ceilling at the spacing of 610 mm centre to centre with dash fastener of 12.50 mm diamater, 40 mm length and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceilling channel and placed at a spacing of 610 mm centre to centreb by 6 mm dia bolts and nuts at both ends of partition fixed flush to wall with rawl plugs at spacing 450 mm centre to centre and fixing of boards to either side of frame work by 25 mm drive all screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre, including jointing and finishing to a flush finish with recommended joiunting compound, jointing tape, joint finisher and two coats of primer siutable for boards as per manufacture's specification and direction of the Engineer-In-Charge all complete.

8.103.1: 67mm overall thickness partition with 8.5 mm thick double skin Glass reinforced Gypsum (GRG) board conforming to IS: 2095: part III

Code Description Unit Quantity Rate Materials for $6.00 \times 3.65 = 21.90$ sqm. (Partition Panel)

08206	(i)Glass reinforced Gypsum (GRG) board 8.50 mm thick	sqm	43.80	₹	240.00	₹	10,512.00
08207	(ii)50 mm floor and ceiling channel 2 × 6.00 = 12.00 m	metre	12.00	₹	58.00	₹	696.00
08208	(iii) 48 mm stud- $72 \times 34 \times 36 \times 0.50$ mm	metre	40.15	₹	72.00	₹	2,890.80
08170	$(6.00/0.61) + 1 = 11 \times 3.65$ (iv) Screw 20mm long (drive all scews)	100 Nos	392.00	₹	58.00	₹	227.36
	$[(3.65/0.30) + 1] \times 11 \times 2 = 308 \text{ Nos}$						
	$[(6.00/0.30) + 1] \times 2 \times 2 = 84 \text{ Nos}$ = 392 Nos						
08169	(v) Dash fastner $[(6.00/0.61) + 1] \times 2 = 22$ Nos	each	22.00	₹	20.00	₹	440.00
05050	(vi) Rawl plug $[(3.65/0.45) + 1] \times 2 = 18 \text{ Nos}$	each	18.00	₹	7.00	₹	126.00
12031	(vii) Plaster of paris, (88/100) × 21.90 = 19.27 Kg	kilogra m	19.27	₹	7.00	₹	134.89
08136	(viii)Glue (22/100) × 21.90 =4.82 Kg	kilogra m	4.82	₹	118.00	₹	568.76
08168	(ix) Paper tape (120m roll) (300/100) × 21.90/120 =	roll	0.584	₹	110.00	₹	64.24
08171	0.584 Nos. (x) Primer (36/100) × 21.90 = 7.88 litre	litre	7.88	₹	88.00	₹	693.44
08143	(xi) Galvanised steel bolts & nuts 6mm dia 25mm Long	10 Nos	44.00	₹	25.00	₹	110.00
	$11 \times 2 \times 2 =$ 44 Nos						
08145	(xii) G.I. Plain washer for seam bolts	100 Nos	44.00	₹	38.00	₹	16.72
0209	Labour for 21.90 sqm. Carpernter 1st class 0.30 × 21.90 = 6.57 Day	Day	6.57	₹	440.00	₹	2,890.80
0210	Carpenter 2nd class 0.13 × 21.90 = 2.847 Day	Day	2.847	₹	395.00	₹	1,124.57
0227	Painter $0.05 \times 21.90 = 1.905 \text{ Day}$	Day	1.095	₹	395.00	₹	432.53
0203	Beldar $0.35 \times 21.90 = 7.665 \text{ Day}$	Day	7.665	₹	310.00	₹	2,376.15
	TOTAL					₹	23,304.26
	Add for sundries & contingencies	@	3%			₹	699.13
	Total Add for electricity charges	@	0.5%			₹	24,003.39 120.02
	Add GST (multiplying factor)		0.1405			₹ ₹	24,123.41 3,389.34
			0.1400			₹	27,512.75
	Add 15% for contractor's profit and overheads	@	15%			₹	4,126.91
			10/			₹	31,639.66
	Add cess Cost for 21.90 sqm	@	1%			₹ ₹	316.40 31,956.06
	Cost for 1 sqm.					₹	1,459.18
	Say					₹	1,459.20

Providing and fixing partition upto ceiling height consisting of G.I. frame and required board including providing and fixing of frame work made of special section power pressed/ role form G.I. sheet with zinc coating of grade 175 consisting of floor and ceilling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick fixed to the floor and ceilling at the spacing of 610 mm centre to centre with dash fastener of 12.50 mm diamater, 40 mm length and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceilling channel and placed at a spacing of 610 mm centre to centreb by 6 mm dia bolts and nuts at both ends of partition fixed flush to wall with rawl plugs at spacing 450 mm centre to centre and fixing of boards to either side of frame work by 25 mm drive all screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre, including jointing and finishing to a flush finish with recommended joiunting compound, jointing tape, joint finisher and two coats of primer siutable for boards as per manufacture's specification and direction of the Engineer-In-Charge all complete.

8.103.2 75mm overall thickness partition with 12.5mm thick double skin plain Gypsum board conforming to IS: 2095: part I

Code	Description Materials for $6.00 \times 3.65 = 21.90$ sqm. (Partition Panel)		Unit	Quantity		Rate	
08269	(i) 12.50 mm thick plain Gypsum board $2 \times 6.00 \times 3.65 = 43.80 \text{ Sqm}$	sqm	43.80	₹	210.00	₹	9,198.00
08207	(ii)50 mm floor and ceiling channel 2 \times 6.00 = 12.00 m	metre	12.00	₹	58.00	₹	696.00
08208	(iii) 48 mm stud- 72 × 34 × 36 × 0.50 mm	metre	40.15	₹	72.00	₹	2,890.80
08170	$(6.00/0.61) + 1 = 11 \times 3.65$ (iv) Screw 20mm long (drive all scews)	100 Nos	392.00	₹	58.00	₹	227.36
	$[(3.65/0.30) + 1] \times 11 \times 2 = 308 \text{ Nos}$						
	$[(6.00/0.30) + 1] \times 2 \times 2 = 84 \text{ Nos}$ = 392 Nos						
08169	(v) Dash fastner $[(6.00/0.61) + 1] \times 2 = 22$ Nos	each	22.00	₹	20.00	₹	440.00
05050	(vi) Rawl plug [(3.65/0.45) + 1] × 2 = 18 Nos	each	18.00	₹	7.00	₹	126.00
12031	(vii) Plaster of paris, (88/100) × 21.90 = 19.27 Kg	kilogra m	19.27	₹	7.00	₹	134.89
08136	(viii)Glue (22/100) × 21.90 =4.82 Kg	kilogra m	4.82	₹	118.00	₹	568.76
08168	(ix) Paper tape (120m roll) (300/100) × 21.90/120 = 0.584 Nos.	roll	0.584	₹	110.00	₹	64.24
08171	(x) Primer (36/100) × 21.90 = 7.88 litre	litre	7.88	₹	88.00	₹	693.44
08143	(xi) Galvanised steel bolts & nuts 6mm dia 25mm Long	10 Nos	44.00	₹	25.00	₹	110.00
	$11 \times 2 \times 2 =$ 44 Nos						
08145	(xii) G.I. Plain washer for seam bolts	100 Nos	44.00	₹	38.00	₹	16.72
0209	Labour for 21.90 sqm. Carpernter 1st class 0.30 × 21.90 =	Day	6.57	₹	440.00	₹	2,890.80
0210	6.57 Day Carpenter 2nd class 0.13 × 21.90 = 2.847 Day	Day	2.847	₹	395.00	₹	1,124.57

0227	Painter 1.905 Day	0.05 × 21.90 =	Day	1.095	₹	395.00	₹	432.53
0203	Beldar 7.665 Day	0.35 × 21.90 =	Day	7.665	₹	310.00	₹	2,376.15
	TOTAL						₹	21,990.26
	Add for sundries & c	contingencies	@	3%			₹	659.71
	Total						₹	22,649.97
	Add for electricity ch	arges	@	0.5%			₹	113.25
							₹	22,763.22
	Add GST (multiplying	g factor)		0.1405			₹	3,198.23
							₹	25,961.45
	Add 15% for contract overheads	or's profit and	@	15%			₹	3,894.22
							₹	29,855.67
	Add cess		@	1%			₹	298.56
	Cost for 21.90 sqm						₹	30,154.23
	Cost for 1 sqm.						₹	1,376.91
	Say						₹	1,376.90

Providing and fixing partition upto ceiling height consisting of G.I. frame and required board including providing and fixing of frame work made of special section power pressed/ role form G.I. sheet with zinc coating of grade 175 consisting of floor and ceilling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick fixed to the floor and ceilling at the spacing of 610 mm centre to centre with dash fastener of 12.50 mm diamater, 40 mm length and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceilling channel and placed at a spacing of 610 mm centre to centreb by 6 mm dia bolts and nuts at both ends of partition fixed flush to wall with rawl plugs at spacing 450 mm centre to centre and fixing of boards to either side of frame work by 25 mm drive all screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre, including jointing and finishing to a flush finish with recommended joiunting compound, jointing tape, joint finisher and two coats of primer siutable for boards as per manufacture's specification and direction of the Engineer-In-Charge all complete.

66mm overall thickness Partition with 8mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured 8.103.3 through autoclaving process to give stable crystalline structure. Non Combustible & spred of flames (as per BS standard 476 part IV & VII), Water, Termite & Fungus Resistant, Compressive strength 225 Kg/Sq.cm, Bending strength 100 Kg/Sq.cm.

Code	Description Materials for $6.00 \times 3.65 = 21.90$ sqm.		Unit	C	uantity		Rate
	(Partition Panel)(i) 8.00 mm thick tapered edge calcium						
08255	silicate board. $2 \times 6.00 \times$	sqm	43.80	₹	270.00	₹	11,826.00
	3.65 = 43.80 Sqm						
08207	(ii)50 mm floor and ceiling channel 2 \times 6.00 = 12.00 m	metre	12.00	₹	58.00	₹	696.00
08208	(iii) 48 mm stud- 72 × 34 × 36 × 0.50 mm	metre	40.15	₹	72.00	₹	2,890.80
	(6.00/0.61) + 1 = 11 × 3.65 = 40.15 m						
08170	(iv) Screw 20mm long (drive all scews)	100 Nos	392.00	₹	58.00	₹	227.36

$$[(3.65/0.30) + 1] \times 11 \times 2 = 308 \text{ Nos}$$

$$[(6.00/0.30) + 1] \times 2 \times 2 = 84 \text{ Nos}$$

= 392 Nos

08169	(v) Dash fastner [(6.00/0 22 Nos	0.61) + 1] × 2 =	each	22.00	₹	20.00	₹	440.00
05050	(vi) Rawl plug [(3.65/0 18 Nos	0.45) + 1] × 2 =	each	18.00	₹	7.00	₹	126.00
12031	(vii) Plaster of paris, (88 19.27 Kg	/100) × 21.90 =	kilogra m	19.27	₹	7.00	₹	134.89
08136	(viii)Glue (22/100) × 21 =4.82 Kg	.90	kilogra m	4.82	₹	118.00	₹	568.76
08168	(ix) Paper tape (120m ro (300/100) × 21.90/120	oII) =	roll	0.584	₹	110.00	₹	64.24
08171	0.584 Nos. (x) Primer (36/100) × 21 7.88 litre		litre	7.88	₹	88.00	₹	693.44
08143	(xi) Galvanised steel bol dia 25mm Long		10 Nos	44.00	₹	25.00	₹	110.00
	4.4.10	11 × 2 × 2 =						
	44 Nos							
08145	(xii) G.I. Plain washer fo	r seam bolts	100 Nos	44.00	₹	38.00	₹	16.72
0209		0.30 × 21.90 =	Day	6.57	₹	440.00	₹	2,890.80
	6.57 Day Carpenter 2nd class	0.13 × 21.90 =						,
0210	2.847 Day		Day	2.847	₹	395.00	₹	1,124.57
0227	1.905 Day	0.05 × 21.90 =	Day	1.095	₹	395.00	₹	432.53
0203	Beldar 0 7.665 Day	0.35 × 21.90 =	Day	7.665	₹	310.00	₹	2,376.15
	TOTAL						₹	24,618.26
	Add for sundries & con	itingencies	@	3%			₹	738.55
	Total						₹	25,356.81
	Add for electricity charge	ges	@	0.5%			₹	126.78
	Add CCT (multiplying fo	actor)		0.1405			₹	25,483.59
	Add GST (multiplying fa	actor)		0.1405			₹	3,580.44 29,064.03
	Add 15% for contractor overheads	's profit and	@	15%			₹	4,359.60
							₹	33,423.63
	Add cess Cost for 21.90 sqm		@	1%			₹ ₹	334.24 33,757.87
	Cost for 1 sqm.						₹	1,541.46
	Say						₹	1,541.50

Providing and fixing partition upto ceiling height consisting of G.I. frame and required board including providing and fixing of frame work made of special section power pressed/ role form G.I. sheet with zinc coating of grade 175 consisting of floor and ceilling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick fixed to the floor and ceilling at the spacing of 610 mm centre to centre with dash fastener of 12.50 mm diamater, 40 mm length and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceilling channel and placed at a spacing of 610 mm centre to centreb by 6 mm dia bolts and nuts at both ends of partition fixed flush to wall with rawl plugs at spacing 450 mm centre to centre and fixing of boards to either side of frame work by 25 mm drive all screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre, including jointing and finishing to a flush finish with recommended joiunting compound, jointing tape, joint finisher and two coats of primer siutable for boards as per manufacture's specification and direction of the Engineer-In-Charge all complete.

8.103

66mm overall thickness partition using 8mm thick double skin non- asbestos multipurpose cement board reinforced with cellulose fibre manufactured through 8.103.4 autoclaving process (High pressure steam cured) as per IS: 14862, non combustible, non ignitable ,fire propagation index and surface spread of flame (as per BS 476 part IV, V, VI & VII), moisture, Termite & Fungus Resistant, with suitable fibre cement screw.

Carlo	Description	3		1114			Б		
Code	Description Materials for 6.00 × 3 (Partition Panel)	•		Unit		luantity		Rate	
08001	(i) 8.00 mm thick mul asbestos fibre cement		sqm	43.80	₹	295.00	₹	12,921.00	
08207	3.65 = 43.80 Sqm (ii)50 mm floor and c × 6.00 = 12.00 m	ceiling channel 2	metre	12.00	₹	58.00	₹	696.00	
08208	(iii) 48 mm stud- 72 mm	× 34 × 36 × 0.50	metre	40.15	₹	72.00	₹	2,890.80	
	(6.00/0.61) + 1 = 11 × = 40.15 m	3.65							
08170	(iv) Screw 20mm long	(drive all scews)	100 Nos	392.00	₹	58.00	₹	227.36	
	[(3.65/0.30) + 1] × 11	× 2 = 308 Nos							
	[(6.00/0.30) + 1] × 2 ×	2 = 84 Nos = 392 Nos							
08169	(v) Dash fastner [(6.00 22 Nos	0/0.61) + 1] × 2 =	each	22.00	₹	20.00	₹	440.00	
05050	(vi) Rawl plug [(3.65 18 Nos	/0.45) + 1] × 2 =	each	18.00	₹	7.00	₹	126.00	
12031	(vii) Plaster of paris, (viii) 19.27 Kg	88/100) × 21.90 =	kilogra m	19.27	₹	7.00	₹	134.89	
08136	(viii)Glue (22/100) ×	21.90	kilogra	4.82	₹	118.00	₹	568.76	
08168	=4.82 Kg (ix) Paper tape (120m	roll)	m roll	0.584	₹	110.00	₹	64.24	
	(300/100) × 21.90/12 0.584 Nos.	0 =							
08171	(x) Primer (36/100) × 7.88 litre	21.90 =	litre	7.88	₹	88.00	₹	693.44	
08143	(xi) Galvanised steel b dia 25mm Long	oolts & nuts 6mm	10 Nos	44.00	₹	25.00	₹	110.00	
	44 Nos	11 × 2 × 2 =							
08145	(xii) G.I. Plain washer	for seam bolts	100 Nos	44.00	₹	38.00	₹	16.72	
	Labour for 21.90 sqm								
0209	Carpernter 1st class 6.57 Day	0.30 × 21.90 =	Day	6.57	₹	440.00	₹	2,890.80	
0210	Carpenter 2nd class 2.847 Day	0.13 × 21.90 =	Day	2.847	₹	395.00	₹	1,124.57	
0227	Painter 1.905 Day	0.05 × 21.90 =	Day	1.095	₹	395.00	₹	432.53	
0203	Beldar 7.665 Day	0.35 × 21.90 =	Day	7.665	₹	310.00	₹	2,376.15	
	TOTAL						₹	25,713.26	
	Add for sundries & c	ontingencies	@	3%			₹	771.40	
	Total Add for electricity ch	arnes	@	0.5%			₹	26,484.66 132.42	
			G				₹	26,617.08	
	Add GST (multiplying	ractor)		0.1405			₹	3,739.70	

8.104	Add 15% for contractor's profit and overheads Add cess Cost for 21.90 sqm Cost for 1 sqm. Say Providing and fixing PTMT handles wit	@ @ h necessal	15% 1% ry screws e	tc. o	complete.	₹₹₹₹₹₹	30,356.78 4,553.52 34,910.30 349.10 35,259.40 1,610.02 1,610.00
8.104.1	125x34x24 mm weighing not less than	23 gms.			•		
Code	Description	Unit	Quantity		Rate		Rate
08221	Details of cost for ten Materials- PTMT handle 125x34x24mm	Each	10.00	₹	24.00	₹	240.00
08068	Mild steel screws 25 mm	100 Nos	40.00	₹	38.00	₹	15.20
0210	Labour- Carpenter 2nd class TOTAL	Day	0.06	₹	395.00	₹	23.70 278.90
	Add for sundries & contingencies	@	3%			₹	8.37
	Total Add for electricity charges	@	0.5%			₹ ₹	287.27 1.44 288.71
	Add GST (multiplying factor)		0.1405			₹	40.56
	Add 15% for contractor's profit and overheads	@	15%			₹	329.27 49.39
	Add cess Cost of 10 Nos Cost of 1 No Say	@	1%			₹ ₹ ₹ ₹	378.66 3.79 382.45 38.25 38.30
8.104 8.104.2	Providing and fixing PTMT handles wit 150x34x24 mm weighing not less than		ry screws e	tc. c	complete.		
Code	Description	Unit	Quantity		Rate		Rate
00222	Details of cost for ten Materials- PTMT handle 150x34x24mm	Each	10.00	x	24.00	x	240.00
	Mild steel screws 25 mm	100 Nos	10.00 40.00	₹	24.00 38.00	₹	240.00 15.20
00000	Labour-	100 1105	40.00		36.00		15.20
0210	Carpenter 2nd class TOTAL	Day	0.06	₹	395.00	₹	23.70 278.90
	Add for sundries & contingencies	@	3%			₹	8.37
	Total Add for electricity charges	@	0.5%			₹	287.27 1.44
	Add GST (multiplying factor)		0.1405			₹ ₹	288.71 40.56 329.27
	Add 15% for contractor's profit and overheads	@	15%			₹	49.39 378.66
	Add cess Cost of 10 Nos Cost of 1 No	@	1%			₹ ₹ ₹	3.79 382.45 38.25

Say ₹ 38.30

8.105 Providing and fixing PTMT Butt hinges with necessary screws etc. complete.

8.105.1 75x60x10 mm fitted with 5.5 mm dia M.S.Bright Bar Rod weighing not less than 34 gms.

Code	Description	Unit Quantity Rate				Rate		
08223	Details of cost for ten Materials- PTMT butt hinges 75x60x10mm	Each	10.00	₹	35.00	₹	350.00	
08067	Mild steel screws 30 mm	100 Nos	60.00	₹	47.00	₹	28.20	
0210 0203	Labour- Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹ ₹	55.30 27.90 461.40	
	Add for sundries & contingencies	@	3%			₹	13.84	
	Total Add for electricity charges	@	0.5%			₹ ₹	475.24 2.38 477.62	
	Add GST (multiplying factor)		0.1405			` ₹	67.11 544.73	
	Add 15% for contractor's profit and overheads	@	15%			₹	81.71	
	Add cess Cost of IONos Cost of 1 No Say	@	1%			₹ ₹ ₹ ₹	626.44 6.26 632.70 63.27 63.30	

8.105 Providing and fixing PTMT Butt hinges with necessary screws etc. complete.

8.105.2 100x75x10 mm fitted with 5.5 mm dia MSBright Bar Rod weighing not less than 53gms.

Code	Description	Unit	Quantity	Rate			
08224	Details of cost for ten Materials- PTMT butt hinges 100x75x 10mm	Each	10.00	₹	51.00	₹	510.00
08066	Mild steel screws 40 mm	100 Nos	80.00	₹	63.00	₹	50.40
0210 0203	Labour- Carpenter 2nd class Beldar TOTAL	Day Day	0.14 0.09	₹	395.00 310.00	₹₹	55.30 27.90 643.60
	Add for sundries & contingencies	@	3%			₹	19.31
	Total Add for electricity charges	@	0.5%			₹ ₹	662.91 3.31 666.22
	Add GST (multiplying factor)		0.1405			₹	93.60
	Add 15% for contractor's profit and overheads	@	15%			₹	759.82 113.97
	Add cess Cost of IONos Cost of 1 No Say	@	1%			₹ ₹ ₹ ₹	873.79 8.74 882.53 88.25 88.30

8.106	Providing and fixing PTMT Tower Bo screws etc., complete.	Its with 12	? mm one	piece	e rod insid	le an	d necessary		
8.106.1	152x42x18 mm weighing not less than	n 60 gms.							
Code	Description	Unit	Quantity		Rate		Rate		
00005	Details of cost for ten Materials-	Faab	10.00	T	40.00	T	/00.00		
08225	PTMT Tower bolt 152x42x18mm	Each	10.00	₹		₹	600.00		
08067	Mild steel screws 30 mm	100 Nos	60.00	₹	47.00	₹	28.20		
0210	Labour- Carpenter 2nd class TOTAL	Day	0.08	₹	395.00	₹	31.60 659.80		
	Add for sundries & contingencies	@	3%			₹	19.79		
	Total Add for electricity charges	@	0.5%			₹ ₹	679.59 3.40 682.99		
	Add GST (multiplying factor)		0.1405			₹	95.96 778.95		
	Add 15% for contractor's profit and overheads	@	15%			₹	116.84		
	Add cess Cost of IONos Cost of 1 No Say	@	1%			₹ ₹ ₹	895.79 8.96 904.75 90.48 90.50		
8.106 8.106.2	Providing and fixing PTMT Tower Bol screws etc., complete.	ts with 12	mm one p	oiece	rod inside	e an	d necessary		
000.2	202x42x18 mm weighing not less than	n 78 gms.							
Code	202x42x18 mm weighing not less than Description	n 78 gms. Unit	Quantity		Rate		Rate		
Code	Description Details of cost for ten Materials-	Unit	,	=		-			
Code 08226	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm	Unit	10.00	₹	71.00	₹	710.00		
Code 08226	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm Mild steel screws 30 mm	Unit	10.00	₹	71.00	₹			
Code 08226	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm	Unit	10.00		71.00		710.00		
Code 08226 08067	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm Mild steel screws 30 mm Labour- Carpenter 2nd class	Unit Each 100 Nos	10.00	₹	71.00 47.00	₹	710.00 37.60 39.50		
Code 08226 08067	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm Mild steel screws 30 mm Labour- Carpenter 2nd class TOTAL	Unit Each 100 Nos Day	10.00 80.00 0.10	₹	71.00 47.00	₹ ₹ ₹ ₹ ₹	710.00 37.60 39.50 787.10 23.61 810.71 4.05		
Code 08226 08067	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm Mild steel screws 30 mm Labour- Carpenter 2nd class TOTAL Add for sundries & contingencies Total	Unit Each 100 Nos Day	10.00 80.00 0.10	₹	71.00 47.00	₹₹₹₹₹₹₹	710.00 37.60 39.50 787.10 23.61 810.71 4.05 814.76 114.47		
Code 08226 08067	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm Mild steel screws 30 mm Labour- Carpenter 2nd class TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and	Unit Each 100 Nos Day	10.00 80.00 0.10 3% 0.5%	₹	71.00 47.00	₹₹₹₹₹₹	710.00 37.60 39.50 787.10 23.61 810.71 4.05 814.76		
Code 08226 08067	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm Mild steel screws 30 mm Labour- Carpenter 2nd class TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads	Unit Each 100 Nos Day @	10.00 80.00 0.10 3% 0.5% 0.1405	₹	71.00 47.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	710.00 37.60 39.50 787.10 23.61 810.71 4.05 814.76 114.47 929.23 139.38 1,068.61		
Code 08226 08067	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm Mild steel screws 30 mm Labour- Carpenter 2nd class TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess	Unit Each 100 Nos Day @	10.00 80.00 0.10 3% 0.5% 0.1405	₹	71.00 47.00	* * * * * * * * * * * * * * * * * * * *	710.00 37.60 39.50 787.10 23.61 810.71 4.05 814.76 114.47 929.23 139.38 1,068.61 10.69		
Code 08226 08067	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm Mild steel screws 30 mm Labour- Carpenter 2nd class TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads	Unit Each 100 Nos Day @	10.00 80.00 0.10 3% 0.5% 0.1405	₹	71.00 47.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	710.00 37.60 39.50 787.10 23.61 810.71 4.05 814.76 114.47 929.23 139.38 1,068.61		
Code 08226 08067	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm Mild steel screws 30 mm Labour- Carpenter 2nd class TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of IONos Cost of 1 No	Unit Each 100 Nos Day @ @ @ @ er of lengt	10.00 80.00 0.10 3% 0.5% 0.1405 15%	₹	71.00 47.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	710.00 37.60 39.50 787.10 23.61 810.71 4.05 814.76 114.47 929.23 139.38 1,068.61 10.69 1,079.30 107.93 107.90		
Code 08226 08067 0210	Description Details of cost for ten Materials- PTMT Tower bolt 202x42x 18mm Mild steel screws 30 mm Labour- Carpenter 2nd class TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of IONos Cost of 1 No Say Providing and fixing PTMT door catch	Unit Each 100 Nos Day @ @ @ @ er of lengt	10.00 80.00 0.10 3% 0.5% 0.1405 15%	₹	71.00 47.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	710.00 37.60 39.50 787.10 23.61 810.71 4.05 814.76 114.47 929.23 139.38 1,068.61 10.69 1,079.30 107.93 107.90		

	Materials-						
08227	PTMT door catcher 72x42mm	Each	10.00	₹	25.00	₹	250.00
08068	Mild steel screws 25 mm	100 Nos	20.00	₹	38.00	₹	7.60
0209	Labour- Carpenter 1st class TOTAL	Day	0.03	₹	440.00	₹	13.20 270.80
	Add for sundries & contingencies	@	3%			₹	8.12
	Total	C	070			` ₹	278.92
	Add for electricity charges	@	0.5%			₹	1.39
	Add GST (multiplying factor)		0.1405			₹ ₹	280.31 39.38 319.69
	Add 15% for contractor's profit and overheads	@	15%			₹	47.95
	Add cess Cost of 10 Nos Cost of 1 No Say	@	1%			₹ ₹ ₹ ₹	367.64 3.68 371.32 37.13 37.10
8.108 8.108.1	Providing and fixing wooden moulded of panelling etc. with iron screws, proceedings of complete Gamair wood. 50x50 mm (base and height).						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for beading = 5.00 m MATERIALS Gamair wood in planks						
08283	Gamair Wood	10	6.88	₹	480.00	₹	330.24
0473	Carriage of Timber	cudm cum	0.00688		74.50	₹	0.51
08066	Mild steel screws 40 mm	100 Nos		₹	63.00	₹	3.78
	Priming coat Area 5.0 x (0.05 +0.05) = 0.50 sqm (A) Priming coat (Rate as per item no 12.33.1) Labour:-	sqm	0.50	₹	28.62	₹	14.31
	For plaining, fixing & making design						
0209	Carpenter 1st class TOTAL	Day	0.75	₹	440.00	₹	330.00 678.84
	Add for sundries & contingencies	@	3%			₹	20.37
	Total Add for electricity charges	@	0.5%			₹	699.21 3.50
	Add GST (multiplying factor)		0.1405			₹ ₹	702.71 98.73 801.44

Add 15% for contractor's profit and overheads	@	15%	₹	120.22
			₹	921.66
Add cess	@	1%	₹	9.22
Cost for 5 metre			₹	930.88
Cost for 1 metre			₹	186.18
Say			₹	186.20

Providing and fixing gamair wood lipping/ moulded beading or Taj beading of size 8.109 18X5mm fixed with wooden adhesive like fevicol etc and screws/ nails on the edges of the prelaminated particle board as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity		Rate		Rate	
08286	Details of cost for 10.00 m MATERIALS Gamair wood lipping/ moulded beading or Taj beading of size 18 X 5 LABOUR Carpenter 2nd class	Meter Day	10.00	₹	15.00 395.00	₹	150.00 98.75	
0203	Beldar	Day	0.25	₹	310.00	₹	77.50	
0203	TOTAL	Day	0.25		310.00	₹	326.25	
	Add for sundries & contingencies	@	3%			₹	9.79	
	Total					₹	336.04	
	Add for electricity charges	@	0.5%			₹	1.68	
						₹	337.72	
	Add GST (multiplying factor)		0.1405			₹	47.45	
	Add 45% for a subsection of the subsection of					₹	385.17	
	Add 15% for contractor's profit and overheads	@	15%			₹	57.78	
						₹	442.95	
	Add cess	@	1%			₹	4.43	
	Cost for 10.00m					₹	447.38	
	Cost for 1.00m					₹	44.74	
	Say					₹	44.70	

Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of 8.110 handles for aluminium door with necessary screws etc complete (Best make of approved quality) as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity		Rate	Rate		
08268	Details of cost for 1 no. 100 mm mostice lock with 6 levers for aluminium door. LABOUR	each	1.00	₹	390.00	₹	390.00	
0209	Carpenter 1st class	Day	0.13	₹	440.00	₹	57.20	
	TOTAL					₹	447.20	
	Add for sundries & contingencies	@	3%			₹	13.42	
	Total					₹	460.62	
	Add for electricity charges	@	0.5%			₹	2.30	
	A 11 00T (₹	462.92	
	Add GST (multiplying factor)		0.1405			₹	65.04	
						₹	527.96	
	Add 15% for contractor's profit and overheads	@	15%			₹	79.19	
						₹	607.15	
	Add cess	@	1%			₹	6.07	
	Cost for 1 no					₹	613.22	
	Say					₹	613.20	

8.111 Providing and fixing magnetic catcher in cupboard / ward robe shutters including fixing with necessary screws etc. complete (Best make of approved quality.)

8.111.1 Triple strip vertical type.	8	.1	1	1	.1		Т	r	ic	ار	е	S	tr	i	b	ν	e	r	ti	ca	ı	t١	٧ľ	эe	
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Code	Description	Unit	Quantity		Rate		Rate
08266	Details of cost for 1 No. MATERIALS Magenatic catcher triple strip verticle type. TOTAL	each	1.00	₹	24.00	₹	24.00 24.00
	Add for sundries & contingencies	@	3%			₹	0.72
	Total Add for electricity charges	@	0.5%			₹ ₹	24.72 0.12 24.84
	Add GST (multiplying factor)		0.1405			₹	3.49 28.33
	Add 15% for contractor's profit and overheads	@	15%			₹	4.25
			40/			₹	32.58
	Add cess	@	1%			₹	0.33
	Cost for 1 No. Say					₹ ₹	32.91 32.90

Providing and fixing magnetic catcher in cupboard / ward robe shutters including fixing with necessary screws etc. complete (Best make of approved quality.)

8.111.2 Double strip (horizontal type).

Code	Description	Unit	Quantity		Rate		Rate
08267	Details of cost for 1 No. MATERIALS Magenatic catcher double strip horizontal type. TOTAL	each	1.00	₹	20.00	₹	20.00
	Add for sundries & contingencies	@	3%			₹	0.60
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5%			₹₹₹	20.60 0.10 20.70 2.91
			0.1400			₹	23.61
	Add 15% for contractor's profit and overheads	@	15%			₹	3.54
	Add cess Cost for 1 No.	@	1%			₹₹	27.15 0.27 27.42
	Say					₹	27.40

8.112 Providing and fixing powder coated telescopic drawer channels 300mm long with necessary screws etc. complete as per directions of Engineer-in-charge.

Code	Description	Unit	Quantity		Rate		Rate
08257	Details of cost for 10 sets. MATERIALS Telescopic drawer channels 300mm long. TOTAL	set	10.00	₹	200.00	₹	2,000.00
	Add for sundries & contingencies	@	3%			₹	60.00
	Total					₹	2,060.00

Add for electricity charges	@	0.5%	₹	10.30
			₹	2,070.30
Add GST (multiplying factor)		0.1405	₹	290.88
			₹	2,361.18
Add 15% for contractor's profit and overheads	@	15%	₹	354.18
			₹	2,715.36
Add cess	@	1%	₹	27.15
Cost for 10 sets			₹	2,742.51
Cost for 1 sets			₹	274.25
Say			₹	274.30

Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by P/F 8.113 stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)

Code	Description	Unit	Quantity	Rate		Rate
08258	Details of cost for 1 No. MATERIALS Stainless steel roller for sliding arrangment in racks/ cupboards/ cabinets shutter. TOTAL	each	1.00	₹ 10.00	₹	10.00
	Add for sundries & contingencies	@	3%		₹	0.30
	Total Add for electricity charges	@	0.5%		₹ ₹	10.30 0.05 10.35
	Add GST (multiplying factor)		0.1405		₹ ₹	1.45 11.80
	Add 15% for contractor's profit and overheads	@	15%		₹	1.77
	Add cess Cost for I No. Say	@	1%		₹ ₹ ₹	13.57 0.14 13.71 13.70

Providing and fixing factory made UPVC door frame made of UPVC extruded, section having an overall dimension, as below (tolerance +/- 1mm) with wall thickness 2.0mm+/-02mm. corners of the door frame to be jointed with galvanized brackets and stainless screws, joint mitred and plastic wilded. The hinge side vertical of the frames reinforced by galvanized MS tube of size 19 × 19 mm and 1 mm +/- 0.1 mm wall thickness and 3 nos stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-In-Charge.

8.114.1 Extruded section Profile size 48x40 mm.

Code	Description	Unit	Quantity		Rate		Rate
08236	Detail of cost for 5 metre MATERIALS 48 mm × 40 mm × 2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.00	₹	185.00	₹	925.00
	LABOUR						
0208	Carpenter (average)	Day	0.15	₹	420.00	₹	63.00
0203	Beldar	Day	0.15	₹	310.00	₹	46.50
	TOTAL					₹	1,034.50
	Add for sundries & contingencies	@	3%			₹	31.04
	Total Add for electricity charges	@	0.5%			₹ ₹	1,065.54 5.33 1,070.87
						-	.,570.07

Add GST (multiplying factor)		0.1405	₹	150.46
			₹	1,221.33
Add 15% for contractor's profit and overheads	@	15%	₹	183.20
			₹	1,404.53
Add cess	@	1%	₹	14.05
Cost of 5 metre			₹	1,418.58
Cost of 1.00 metre			₹	283.72
Say			₹	283.70

Providing and fixing factory made UPVC door frame made of UPVC extruded, section having an overall dimension, as below (tolerance +/- 1mm) with wall thickness 2.0mm+/-02mm. corners of the door frame to be jointed with galvanized brackets and stainless screws, joint mitred and plastic wilded. The hinge side vertical of the frames reinforced by galvanized MS tube of size 19 × 19 mm and 1 mm +/- 0.1 mm wall thickness and 3 nos stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-In-Charge.

8.114.2 Extruded section Profile size 42x50 mm.

Code	Description	Unit	Quantity		Rate		Rate
08259	Detail of cost for 5 metre MATERIALS 50 mm × 42 mm × 1.5 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish LABOUR	metre	5.00	₹	165.00	₹	825.00
0208	Carpenter (average)	Day	0.15	₹	420.00	₹	63.00
0203	Beldar	Day	0.15	₹	310.00	₹	46.50
	TOTAL					₹	934.50
	Add for sundries & contingencies	@	3%			₹	28.04
	Total					₹	962.54
	Add for electricity charges	@	0.5%			₹	4.81
						₹	967.35
	Add GST (multiplying factor)		0.1405			₹	135.91
						₹	1,103.26
	Add 15% for contractor's profit and overheads	@	15%			₹	165.49
						₹	1,268.75
	Add cess	@	1%			₹	12.69
	Cost of 5 metre					₹	1,281.44
	Cost of 1.00 metre					₹	256.29
	Say					₹	256.30

8.115 Providing and fixing to existing door frames.

24 mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24 mm and wall thickness 2 mm ± 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S. galvanised /plastic brackets of size 75×220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserying galvanised MS tube of size 20×20 mm and 1 mm ± 0.1 mm wall thickness. The lock rail made up of "H" Section, a UPVC 8.115.1 hollow section of size 100×24 mm and 2 mm ± 0.2 mm wall thickness fixed to the shutter styles by means of plastic /galvanised MS "U" cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm ± 0.1 mm wall thickness. The panels filled vertically and tie bar at two places by inserting horizontaly 6 mm galvanised MS rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-In-Charge. (for W.C. and Bathroom door shutter).

Code	Description	Unit	Quantity		Rate		Rate
	Detail of cost for 2.38 sqm one door shutter 2.20 x 1.08m MATERIALS						
08231	24 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish i/c carriage.	sqm	2.38	₹	1,100.00	₹	2,618.00
0208 0203	LABOUR Carpenter (average) Beldar TOTAL	Day Day	0.400 0.40	₹	420.00 310.00	₹₹	168.00 124.00 2,910.00
	Add for sundries & contingencies	@	3%			₹	87.30
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5%			₹₹₹₹	2,997.30 14.99 3,012.29 423.23 3,435.52
	Add 15% for contractor's profit and overheads	@	15%			₹	515.33
	Add cess Cost of 2.38 sqm Cost of 1.00 sqm Say	@	1%			₹ ₹ ₹ ₹	3,950.85 39.51 3,990.36 1,676.62 1,676.60

8.115 Providing and fixing to existing door frames.

30mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a UPVC profile section of size 30mm x 60mm and wall thickness 2mm \pm 0.2mm with inbuilt decorative moulding edging on one side. The styles and rails with plastic brackets of size 75×220 mm mitred and welded at the corners. The styles of the shutter reinforced by inserting galvanised MS tube of size 25×20 mm and 1 mm \pm 0.1 mm wall thickness.

8.115.2 The lock rail made up of "H" Section, a UPVC profile section of size 30×100 mm and 2 mm \pm 0.2 mm wall thickness welded to the shutter style with a UPVC profile section single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm \pm 0.1 mm wall thickness with 20 mm panel beading of suitable size/Glass (4 mm thick plain glass)/ louver section, louver frame of suitable size, complete as per manufacturer's specification and direction of Engineer-In-Charge. (for W.C. and Bathroom door shutter).

Code Description Unit Quantity Rate Rate

Detail of cost for 2.38 sqm.

08232	one door shutter 2.20 x1.08 m = 2.38 sqm MATERIALS 30 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish LABOUR	sqm	2.38	₹	1,300.00	₹	3,094.00
0208	Carpenter (average)	Day	0.40	₹	420.00	₹	168.00
0203	Beldar	Day	0.40	₹	310.00	₹	124.00
	Total					₹	3,386.00
	Add for sundries & contingencies	@	3%			₹	101.58
	Total					₹	3,487.58
	Add for electricity charges	@	0.5%			₹	17.44
	3					₹	3,505.02
	Add GST (multiplying factor)		0.1405			₹	492.46
						₹	3,997.48
	Add 15% for contractor's profit and overheads	@	15%			₹	599.62
						₹	4,597.10
	Add cess	@	1%			₹	45.97
	Cost of 2.38 sqm					₹	4,643.07
	Cost of 1.00 sqm					₹	1,950.87
	Say					₹	1,950.90

8.115 Providing and fixing to existing door frames.

25mm thick PVC flush door shutters upto 737mm width of colour and shade as approved by Engineer-in-charge made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of 1 mm ± 0.3 mm . PVC foam end cap of size 23 × 10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm . An MS tube having dimensions 19mm × 19 mm 8.115.3 is insetred along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25×11 mm . Door shutter shall be reinforced with special polymeric reinforcements as per manufacturers' specification and drawing to take up necessary hardware and fixtures complete. Stickers indicating the locations of hardware will be pasted at appropriate places.

Code	Description	Unit	Quantity		Rate		Rate
08260	Detail of cost for 2.38 sqm one door shutter 2.20x1.08m = 2.38 sqm MATERIALS 25mm thick factory made PVC flush foor shutter. LABOUR	sqm	2.38	₹	1,500.00	₹	3,570.00
0208	Carpenter (average)	Day	0.40	₹	420.00	₹	168.00
0203	Beldar	Day	0.40	₹	310.00	₹	124.00
	TOTAL					₹	3,862.00
	Add for sundries & contingencies	@	3%			₹	115.86
	Total					₹	3,977.86
	Add for electricity charges	@	0.5%			₹	19.89
						₹	3,997.75
	Add GST (multiplying factor)		0.1405			₹	561.68
						₹	4,559.43
	Add 15% for contractor's profit and overheads	@	15%			₹	683.91
						₹	5,243.34
	Add cess	@	1%			₹	52.43

Cost of 2.38 sqm	₹	5,295.77
Cost of 1.00 sqm	₹	2,225.11
Say	₹	2,225.10

Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19×19mm MS square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall usuing MS screws of 65/100 mm size complete as per manufacturers' specification and direction of Engineer-In-Charge.

Code	Description	Unit	Quantity		Rate		Rate
00007	Details of cost for one door frame of 5 metre Materials- Factory made door frame PVC		5.00	_	000.00		4.450.00
08237	extruded sheet i/c carriage. Labour-	metre	5.00	₹	290.00	₹	1,450.00
0208	Carpenter (average)	Day	0.15	₹	420.00	₹	63.00
0203	Beldar	Day	0.15	₹	310.00	₹	46.50
	TOTAL					₹	1,559.50
	Add for sundries & contingencies	@	3%			₹	46.79
	Total					₹	1,606.29
	Add for electricity charges	@	0.5%			₹	8.03
						₹	1,614.32
	Add GST (multiplying factor)		0.1405			₹	226.81
						₹	1,841.13
	Add 15% for contractor's profit and overheads	@	15%			₹	276.17
						₹	2,117.30
	Add cess	@	1%			₹	21.17
	Cost of 5 metres					₹	2,138.47
	Cost of 1 metre					₹	427.69
	Say					₹	427.70

8.117 Providing and fixing to existing door frames.

M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for stiles, top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture M.S. frame covered with 5mm thick heat moulded PVC 'C channel of size 30mm thickness, 110mm width out of which 90mm shall be flat and 20mm shall be tapered in 45 degree angle on either side forming stiles; and 5mm thick, 110mm wide PVC sheet out of which 90mm shall be flat and 20mm shall be tapered on the inner side to form top and bottom rail and 130mm wide PVC sheet out of which 90mm shall be flat and 20mm shall be 8.117.1 tapered on both sides to form lock rail. Top bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet shall be provided as gap insert for top rail & bottom rail. Panelling of 5mm thick PVC sheet to be fitted in the M.S. frame welded/ sealed to the stiles & rails with 7mm (5mm +2mm) thick x 15mm wide PVC sheet bending on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacture's specification & drawing.

30mm thick factory made solid panel PVC door shutter consisting of frame made out of

Code Description Unit Quantity Rate Rate

Details of cost of one shutter
2.20x1.08m= 2.38 sqm

	Materials-						
08233	Factory made shutter i/c carriage	sqm	2.38	₹	1,860.00	₹	4,426.80
08238	Powder coated M.S. butt hinges 100 mm × 58 mm × 1.9 mm	10 Nos	4.00	₹	120.00	₹	48.00
08066	M.S. screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
	Labour-						
0208	Carpenter (average)	Day	0.40	₹	420.00	₹	168.00
0203	Beldar	Day	0.40	₹	310.00	₹	124.00
	TOTAL					₹	4,799.60
	Add for sundries & contingencies	@	3%			₹	143.99
	Total					₹	4,943.59
	Add for electricity charges	@	0.5%			₹	24.72
						₹	4,968.31
	Add GST (multiplying factor)		0.1405			₹	698.05
						₹	5,666.36
	Add 15% for contractor's profit and overheads	@	15%			₹	849.95
						₹	6,516.31
	Add cess	@	1%			₹	65.16
	Cost of 2.38 sqm					₹	6,581.47
	Cost per sqm					₹	2,765.32
	Say					₹	2,765.30

8.117 Providing and fixing to existing door frames.

30mm thick factory made solid both side prelam panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles, top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5mm thick heat moulded prelam PVC 'C channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming stiles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm 8.117.2 shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, button and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, panelling of 5mm thick both side Prelam PVC sheet to be fitted in the M.S. frame welded/ sealed to the stiles & rails with 7mm (5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost of one shutter 2.20x1.08m = 2.38 sqm Materials-						
08234	Factory made PVC shutter i/c carriage	sqm	2.38	₹	2,220.00	₹	5,283.60
08238	Powaer coated ivi.s. butt ninges	10 Nos	4.00	₹	120.00	₹	48.00
00200	59 mm v 1 0 mm	10 1103	1.00		120.00		10.00
08066	M.S. screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56

0208 0203	Labour- Carpenter (average) Beldar TOTAL	Day Day	0.40 0.40	₹	420.00 310.00	₹ ₹	168.00 124.00 5,656.40
	Add for sundries & contingencies	@	3%			₹	169.69
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5% 0.1405			₹₹₹₹₹	5,826.09 29.13 5,855.22 822.66 6,677.88
	Add 15% for contractor's profit and overheads	@	15%			₹	1,001.68
	Add cess Cost of 2.38 sqm Cost per sqm Say	@	1%			₹ ₹ ₹	7,679.56 76.80 7,756.36 3,258.97 3,259.00

Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90mm x 45mm having single rebate of 32mm x 15mm to receive shutter of 30mm thickness .The laminate shall be molded with fire resistant grade unsaturated polyester resin and chopped mat .Doorframe laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fibreglass from all sides. MS stay shall be provided at the bottom to steady the frame.

Code	Description	Unit	Quantity		Rate		Rate
08261	Details of cost for one door frame of 5 metre Materials-Factory made glass reinforced plastic door frame 90×45 mm i/c carriage.	metre	5.00	₹	360.00	₹	1,800.00
0208 0203	Labour- Carpenter (average) Beldar TOTAL	Day Day	0.15 0.15	₹	420.00 310.00	₹₹	63.00 46.50 1,909.50
	Add for sundries & contingencies	@	3%			₹	57.29
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5%			₹₹₹₹	1,966.79 9.83 1,976.62 277.72 2,254.34
	Add 15% for contractor's profit and overheads	@	15%			₹	338.15
	Add cess Cost of 5 metres Cost of 1 metre Say	@	1%			₹ ₹ ₹ ₹	2,592.49 25.92 2,618.41 523.68 523.70

8.119 Providing and fixing to existing door frames.

30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5mm thick FRP laminate for panels confirming to TADS 6: 1993 and / or IS: 14856 - 2000 including fixing to frames.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost of one shutter 2.20x1.08m =2.38 Sqm Materials- 30 mm thick factory made glass fiber						
08262	reinforced plastic panel door shutter i/c carriage. Powder coated M.S. butt hinges	sqm	2.38	₹	1,800.00	₹	4,284.00
08238	100 mm × 58 mm × 1.9 mm	10 Nos	4.00	₹	120.00	₹	48.00
08066	M.S. screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0208 0203	Labour- Carpenter (average) Beldar TOTAL	Day Day	0.40 0.40	₹	420.00 310.00	₹ ₹	168.00 124.00 4,656.80
	Add for sundries & contingencies	@	3%			₹	139.70
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5% 0.1405			₹₹₹₹	4,796.50 23.98 4,820.48 677.28 5,497.76
	Add 15% for contractor's profit and overheads	@	15%			₹	824.66
	Add cess Cost of 2.38 sqm Cost per sqm Say	@	1%			₹ ₹ ₹ ₹	6,322.42 63.22 6,385.64 2,683.04 2,683.00

8.119 Providing and fixing to existing door frames.

30mm thick fibreglass reinforced plastice (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyster resin, moulded to 3mm thick FRP laminate all around, with suitable wooden blocks inside at required places for 8.119.2 fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856 : 2000, complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost of one shutter 2.20x1.08m =2.38 Sqm Materials-						
08278	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage.	sqm	2.38	₹	2,100.00	₹	4,998.00

	Powder coated M.S. butt hinges						
08238	100 mm >	10 Nos	4.00	₹	120.00	₹	48.00
	58 mm × 1.9 mm						
08066	M.S. screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
	Labour-						
0208	Carpenter (average)	Day	0.40	₹	420.00	₹	168.00
0203	Beldar	Day	0.40	₹	310.00	₹	124.00
	TOTAL					₹	5,370.80
	Add for sundries & contingencies	@	3%			₹	161.12
	Total					₹	5,531.92
	Add for electricity charges	@	0.5%			₹	27.66
						₹	5,559.58
	Add GST (multiplying factor)		0.1405			₹	781.12
						₹	6,340.70
	Add 15% for contractor's profit and overheads	@	15%			₹	951.11
						₹	7,291.81
	Add cess	@	1%			₹	72.92
	Cost of 2.38 sqm					₹	7,364.73
	Cost per sqm					₹	3,094.42
	Say					₹	3,094.40

Providing and fixing factory made door frame (single rebate) made of solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 60mm width & 30mm thickness and shall be fixed to wall as per instructions of Engineer-In-Charge using 100x8 sheet metal CSK screws.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for one door frame of 5 metre Materials-						
08263	Factory made solid PVC door frame 60 × 30mm i/c carriage. Labour-	metre	5.00	₹	320.00	₹	1,600.00
0208	Carpenter (average)	Day	0.15	₹	420.00	₹	63.00
0203	Beldar	Day	0.15	₹	310.00	₹	46.50
	TOTAL					₹	1,709.50
	Add for sundries & contingencies	@	3%			₹	51.29
	Total					₹	1,760.79
	Add for electricity charges	@	0.5%			₹	8.80
						₹	1,769.59
	Add GST (multiplying factor)		0.1405			₹	248.63
						₹	2,018.22
	Add 15% for contractor's profit and overheads	@	15%			₹	302.73
						₹	2,320.95
	Add cess	@	1%			₹	23.21
	Cost of 5 metres					₹	2,344.16
	Cost of 1 metre					₹	468.83
	Say					₹	468.80

Providing and fixing 28 mm thick door shutter made of solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 71mm width & 28mm thick as vertical & horizontal styles. Joints are made using solvent adhesive and GI 'C sections (39mm x 19mm x 0.6mm thick) or M S pipe (40mm x 20mm) stiffener frame insert & telescopic polymeric 'L' corners .The panel shall be filled with 3mm thick high pressure compact laminate as per manufacturer's specifications and directions of the Engineer-in-charge, cover moulding shall be provided for covering fixing screws and elegant look.(for W.C. bathroom door shutter).

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost of one shutter 2.20x1.08m =2.38 Sqm Materials-						
08264	28mm factory made solid PVC panel door shutter i/c carriage. Powder coated M.S. butt hinges	sqm	2.38	₹	2,100.00	₹	4,998.00
08238	100 mm > 58 mm × 1.9 mm	× 10 Nos	4.00	₹	120.00	₹	48.00
08066	M.S. screws 40mm	100 Nos	48.00	₹	63.00	₹	30.24
08069	M.S. screws 20mm	100 Nos	8.00	₹	32.00	₹	2.56
0208 0203	Labour- Carpenter (average) Beldar TOTAL	Day Day	0.40 0.40	₹	420.00 310.00	₹ ₹	168.00 124.00 5,370.80
	Add for sundries & contingencies	@	3%			₹	161.12
	Total Add for electricity charges	@	0.5%			₹ ₹	5,531.92 27.66 5,559.58
	Add GST (multiplying factor)		0.1405			₹	781.12 6,340.70
	Add 15% for contractor's profit and overheads	@	15%			₹	951.11
	Add cess Cost of 2.38 sqm Cost per sqm Say	@	1%			₹ ₹ ₹	7,291.81 72.92 7,364.73 3,094.42 3,094.40
							•

8.122 Providing and fixing PVC rigid foam sheet 1mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.

Code	Description		Unit	Quantity		Rate		Rate
08235	Details of cost for m = 0.30 sqm Materials- PVC rigid foam sheet 1mm th = 0.30 sqm Add wastage @ 10% = 0.03 sqm Total	1.0 × 0.3						
	= 0.33 sqm Labour-		sqm	0.33	₹	165.00	₹	54.45
0209	Carpenter 1 st class		Day	0.11	₹	440.00	₹	48.40
0203	Beldar		Day	0.14	₹	310.00	₹	43.40
0225	Mistry		Day	0.02	₹	395.00	₹	7.90
	TOTAL						₹	154.15
	Add for sundries & continge	ncies	<u>@</u>	3%			₹	4.62

Total			₹	158.77
Add for electricity charges	@	0.5%	₹	0.79
			₹	159.56
Add GST (multiplying factor)		0.1405	₹	22.42
			₹	181.98
Add 15% for contractor's profit and overheads	@	15%	₹	27.30
			₹	209.28
Add cess	@	1%	₹	2.09
Cost of 0.30 sqm			₹	211.37
Cost per sqm			₹	704.57
Say			₹	704.60

Providing and fixing 12mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25mm to 40mm thick.

8.123.1 Marine plywood conforming to IS: 710

Code	Description	Unit	Quantity		Rate		Rate
08274	Details of cost for shutters of a door with 2/3rd panelling 200 × 108 cm = 2.16 sqm. Panel area = 4 × 45.1 × 36.55 cm = 0.67 sqm. Materials: Plywood 4 × 47.2 × 38.65 cm = 0.73 sqm+ Add for wastage @ 10% = 0.07 sqm. Total = 0.80 sqm. 12mm thick marine plywood conforming to IS:710 Labour: Carpenter 1 st class	sq m Day	0.80 0.57	₹	710.00 440.00	₹	568.00 250.80
	TOTAL Add for sundries & contingencies	@	3%			₹	818.80 24.56
	Total	©	370			₹	843.36
	Add for electricity charges Add GST (multiplying factor)	@	0.5%			₹ ₹ ₹	843.36 4.22 847.58 119.08 966.66
	Add 15% for contractor's profit and overheads	@	15%			₹	145.00
	Add cess Cost of 0.67 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹ ₹	1,111.66 11.12 1,122.78 1,675.79 1,675.80

Providing and fixing 12mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25mm to 40mm thick.

8.123.2 Fire retardant plywood conforming to IS: 5509.

Code Description Unit Quantity Rate Rate

Details of cost for shutters of a door with 2/3rd panelling 200×108 cm = 2.16 sqm. Panel area = $4 \times 45.1 \times 36.55$ cm = 0.67 sqm. Materials: Plywood $4 \times 47.2 \times 38.65$ cm = 0.73 sqm+ Add for wastage @ 10% = 0.07 sqm. Total = 0.80 sqm.						
· · ·	sqm	0.80	₹	860.00	₹	688.00
Carriage of Plywood Labour:	Cum	0.0096	₹	74.50	₹	0.72
Carpenter 1 st class TOTAL	Day	0.57	₹	440.00	₹ ₹	250.80 939.52
Add for sundries & contingencies	@	3%			₹	28.19
Total Add for electricity charges	@	0.5%			₹ ₹	967.71 4.84 972.55
Add GST (multiplying factor)		0.1405				136.64 1,109.19
Add 15% for contractor's profit and overheads	@	15%			₹	166.38
Add cess Cost of 0.67 sqm. Cost of 1 sqm. Say	@	1%			₹ ₹ ₹	1,275.57 12.76 1,288.33 1,922.88 1,922.90
	with 2/3rd panelling 200 × 108 cm = 2.16 sqm. Panel area = 4 × 45.1 × 36.55 cm = 0.67 sqm. Materials: Plywood 4 × 47.2 × 38.65 cm = 0.73 sqm+ Add for wastage @ 10% = 0.07 sqm. Total = 0.80 sqm. 12mm thick fire retardant plywood conforming to IS: 5509. Carriage of Plywood Labour: Carpenter 1 st class TOTAL Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess Cost of 0.67 sqm. Cost of 1 sqm.	with 2/3rd panelling 200 × 108 cm = 2.16 sqm. Panel area = 4 × 45.1 × 36.55 cm = 0.67 sqm. Materials: Plywood	with 2/3rd panelling $200 \times 108 \text{ cm} = 2.16 \text{ sqm}$. Panel area $= 4 \times 45.1 \times 36.55$ cm $= 0.67 \text{ sqm}$. Materials: Plywood $4 \times 47.2 \times 38.65$ cm $= 0.73 \text{ sqm} +$ Add for wastage @ 10% = 0.80 sqm . Total $= 0.80 \text{ sqm}$. 12mm thick fire retardant plywood conforming to IS: 550% . Carriage of Plywood Labour: Carpenter 1 st class Day Day D.57 TOTAL Add for sundries & contingencies @ 3% Total Add for electricity charges @ 0.5% Add GST (multiplying factor) 0.1405 Add 15% for contractor's profit and overheads @ 15% Add cess Cost of 0.67 sqm . Cost of 1 sqm .	with 2/3rd panelling 200 × 108 cm = 2.16 sqm. Panel area = $4 \times 45.1 \times 36.55$ cm = 0.67 sqm. Materials: Plywood $4 \times 47.2 \times 38.65$ cm = 0.73 sqm+ Add for wastage @ 10% = 0.07 sqm. Total = 0.80 sqm. 12mm thick fire retardant plywood conforming to IS: 5509. Carriage of Plywood Labour: Carpenter 1 st class Day 0.57 ₹ TOTAL Add for sundries & contingencies @ 3% Total Add for electricity charges @ 0.5% Add GST (multiplying factor) 0.1405 Add 15% for contractor's profit and overheads @ 15% Add cess Cost of 0.67 sqm. Cost of 1 sqm.	with 2/3rd panelling 200 × 108 cm = 2.16 sqm. Panel area = 4 × 45.1 × 36.55 cm = 0.67 sqm. Materials: Plywood	with 2/3rd panelling 200 × 108 cm = 2.16 sqm. Panel area = 4 × 45.1 × 36.55 cm = 0.67 sqm. Materials: Plywood

Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS: 2046 Type S including cost of adhesive of approved quality.

8.124.1 1.5 mm thick.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 5.00 sqm MATERIALS Decorative laminate = 5.00 sqm Add wastage @ 10% = 0.50 sqm						
	Total = 5.50 sqm						
08276	1.5mm thick decorative laminated sheet LABOUR:-	sqm	5.50	₹	450.00	₹	2,475.00
0209	Carpenter 1 st class	Day	0.50	₹	440.00	₹	220.00
0203	Beldar TOTAL	Day	0.50	₹	310.00	₹ ₹	155.00 2,850.00
	Add for sundries & contingencies	@	3%			₹	85.50
	Total Add for electricity charges	@	0.5%			₹₹	2,935.50 14.68 2,950.18
	Add GST (multiplying factor)		0.1405			₹	414.50
	Add 15% for contractor's profit and overheads	@	15%			₹	504.70

			₹	3,869.38
Add cess	@	1%	₹	38.69
Cost for 5.00 sqm			₹	3,908.07
Cost for 1 sqm			₹	781.61
Say			₹	781.60

Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS: 2046 Type S including cost ofadhesive of aproved quality.

8.124.2 1.0 mm thick.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 5.00 sqm MATERIALS Decorative laminate = 5.00 sqm Add wastage @ 10% = 0.50 sqm						
	Total = 5.50 sqm						
08277	1.0mm thick decorative laminated sheet LABOUR:-	sqm	5.50	₹	310.00	₹	1,705.00
0209	Carpenter 1st class	Day	0.50	₹	440.00	₹	220.00
0203	Beldar	Day	0.50	₹	310.00	₹	155.00
	TOTAL					₹	2,080.00
	Add for sundries & contingencies	@	3%			₹	62.40
	Total					₹	2,142.40
	Add for electricity charges	@	0.5%			₹	10.71
						₹	2,153.11
	Add GST (multiplying factor)		0.1405			₹	302.51
	Add 15% for contractor's profit and					₹	2,455.62
	overheads	@	15%			₹	368.34
						₹	2,823.96
	Add cess	@	1%			₹	28.24
	Cost for 5.00 sqm					₹	2,852.20
	Cost for 1 sqm					₹	570.44
	Say					₹	570.40

Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2nos. vertically and 1nos. horizontally 50x2mm thick M.S. flat with 12mm in built hole for grouting on the existing wall along with the 50mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746 duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight.

Code	Description	Unit	Quantity		Rate		Rate
08265	Detail of cost for a chajja 0.90 × 0.60 = 0.54 Sqm MATERIALS Fiber glass reinforced plastic chajja including accessories.	Sqm	0.54	₹	3,100.00	₹	1,674.00
	TOTAL					₹	1,674.00

Add for sundries & contingencies	@	3%	₹	50.22
Total			₹	1,724.22
Add for electricity charges	@	0.5%	₹	8.62
			₹	1,732.84
Add GST (multiplying factor)		0.1405	₹	243.46
			₹	1,976.30
Add 15% for contractor's profit and overheads	@	15%	₹	296.45
			₹	2,272.75
Add cess	@	1%	₹	22.73
Cost for 0.54 sqm			₹	2,295.48
Cost for 1 sqm			₹	4,250.89
Say			₹	4,250.90

Providing and fixing cup board shutters 25mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS: 12823 marked exterior grade (Grade I Type II) having one side decorative lamination and other side balancing lamination including IInd class teak wood lipping of 25mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges complete as per direction of the Engineer-in-Charge.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for one shutter 2.20×1.00						
08199	m = 2.20 Sqm Materials 25 mm thick cup board shutter (prelaminated)	Sqm	2.20	₹	900.00	₹	1,980.00
08254	Imm thick 35mm wide bright finished	metre	4.40	₹	45.00	₹	198.00
	stainless steel piano hinges.						
08103	Screws 25 mm long	100 Nos	125.00	₹	44.00	₹	55.00
0209 0203 0225 08198	Labour Carpenter 1 st class Beldar Mistry Add for wooden lipping 25 mm wide x 12 mm thick TOTAL	Day Day Day metre	0.50 0.50 0.07 7.00	₹₹₹	440.00 310.00 395.00 50.00	₹₹₹₹₹	220.00 155.00 27.65 350.00 2,985.65
	Add for sundries & contingencies	@	3%			₹	89.57
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5% 0.1405			₹₹₹₹	3,075.22 15.38 3,090.60 434.23 3,524.83
	Add 15% for contractor's profit and overheads	@	15%			₹	528.72
	Add cess Cost for 2.20 sqm. Cost per sqm. Say	@	1%			₹ ₹ ₹ ₹	4,053.55 40.54 4,094.09 1,860.95 1,861.00

Providing and fixing cup board shutters with 25mm thick veneered particle board IS: 3097 marked exterior grade (Grade I) of approved make including IInd class teak wood lipping of 25mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges complete as per direction of Engineer-in-Charge.

8.127.1 With decorative veneering on one side and commercial veering on other side.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for one shutter 2.20 ×						
08197	1.00 m = 2.20 sqm. Materials 25 mm thick cup board shutter	sqm	2.20	₹	460.00	₹	1,012.00
08003	Extra for teak veneering on one side and commercial veneereing on other side	sqm	2.20	₹	280.00	₹	616.00
08254	Imm thick 35mm wide bright finished stainless steel piano hinges.	metre	4.40	₹	45.00	₹	198.00
08103	Screws 25 mm long	100 Nos	125.00	₹	44.00	₹	55.00
0209 0203 0225 08198	Labour Carpenter 1st class Beldar Mistry Add for wooden lipping 25 mm wide × 12 mm thick TOTAL Add for sundries & contingencies Total Add for electricity charges	Day Day Day metre	0.50 0.50 0.07 7.00 3%	₹₹₹	440.00 310.00 395.00 50.00	₹₹₹₹₹₹	220.00 155.00 27.65 350.00 2,633.65 79.01 2,712.66 13.56
	Add GST (multiplying factor)		0.1405			₹ ₹	2,726.22 383.03 3,109.25
	Add 15% for contractor's profit and overheads	@	15%			₹	466.39
	Add cess Cost for 2.20sqm. Cost per sqm. Say	@	1%			₹ ₹ ₹	3,575.64 35.76 3,611.40 1,641.55 1,641.60

Providing and fixing cup board shutters with 25mm thick veneered particle board IS: 3097 marked exterior grade (Grade I) of approved make including IInd class teak wood lipping of 25mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges complete as per direction of Engineer-in-Charge.

8.127.2 With non decorative veneering on both sides.

Code Description Unit Quantity Rate Rate Details of cost for one shutter 2.20 × Materials 08197 25 mm thick particle board 2.20 460.00 ₹ 1.012.00 sqm Extra for commercial veneering on 08004 396.00 sqm 2.20 180.00 ₹ both sides 1mm thick 35mm wide bright finished 08254 4.40 ₹ 45.00 ₹ 198.00 metre stainless steel piano hinges.

08103	Screws 25 mm long	100 Nos	125.00	₹	44.00	₹	55.00
0209 0203 0225	Labour Carpenter 1 st class Beldar Mistry	Day Day Day	0.50 0.50 0.07	₹ ₹	440.00 310.00 395.00	₹₹	220.00 155.00 27.65
08198	Add for wooden lipping 25 mm wide x 12 mm thick TOTAL	metre	7.00	₹	50.00	₹	350.00 2,413.65
	Add for sundries & contingencies	@	3%			₹	72.41
	Total Add for electricity charges	@	0.5%			₹ ₹	2,486.06 12.43 2,498.49
	Add GST (multiplying factor)		0.1405			₹	351.04 2,849.53
	Add 15% for contractor's profit and overheads	@	15%			₹	427.43
	Add cess Cost for 2.20sqm. Cost per sqm.	@	1%			₹ ₹ ₹	3,276.96 32.77 3,309.73 1,504.42
	Say					₹	1,504.40

Providing and fixing factory made Pre-laminated particle board flat pressed three layer or graded wood particle board with one side decorative finish and other side balancing lamination conforming to IS: 12823 Grade I Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading all-round the shutter, including fixing with angle cleat, grip strip, cadmium plated steel screws including fixing of aluminium hinges 100x63x4 mm etc. complete as per architectural drawing and direction of Engineer-in-Charge (Cost of 'U' beading and hinges will be paid for separately).

8.128.1 25 mm thick.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 2.10 sqm. (Door size 2.1×1.00 = 2.10 sqm.) Materials Prelaminated particle board = 2.10sqm. +						
	Add for wastage @ 5% = 0.11 sqm.						
	=						
08211	2.21sqm. Prelaminated particle board	sqm	2.21	₹	800.00	₹	1,768.00
08209	Aluminium single cleat of size 30×32×3	each	4.00	₹	14.00	₹	56.00
08210	Aluminium grip strip of size 50×12×2	each	8.00	₹	11.00	₹	88.00
08137	Edge sealing water resistant paint	litre	0.15	₹	165.00	₹	24.75
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	0.27 0.30	₹	395.00 310.00	₹ ₹	106.65 93.00 2,136.40
	Add for sundries & contingencies	@	3%			₹	64.09
	Total Add for electricity charges	@	0.5%			₹ ₹	2,200.49 11.00 2,211.49
	Add GST (multiplying factor)		0.1405			₹	310.71

			₹	2,522.20
Add 15% for contractor's profit and overheads	@	15%	₹	378.33
			₹	2,900.53
Add cess	@	1%	₹	29.01
Cost for 2.10 sqm.			₹	2,929.54
Cost per sqm.			₹	1,395.02
Say			₹	1,395.00

8.129 Providing and fixing aluminum U beading of required size to prelaminated /flush door shutter including fixing etc. complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Rate
	Details of cost for 1 kg. Material Aluminum U beading = 1.00 kg + Add 10% wastage = 0.10 Kg				
	= 1.10 kg.				
08212	Aluminium 'U' Beading	kilogra m	1.10 ₹	210.00 ₹	231.00
	TOTAL			₹	231.00
	Add 35 % for Anodized 15 micron and labour			₹	81.00
	TOTAL			₹	312.00
	Add for sundries & contingencies	@	3%	₹	9.36
	Total			₹	321.36
	Add for electricity charges	@	0.5%	₹	1.61
	Add GST (multiplying factor)		0.1405	₹	322.97 45.38
	Add GST (Mattiplying factor)		0.1403	₹	368.35
	Add 15% for contractor's profit and overheads	@	15%	₹	55.25
				₹	423.60
	Add cess	@	1%	₹	4.24
	Cost per kg.			₹	427.84
	Say			₹	427.80

Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55mm thick) having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55 mm placed @ 610mm C/C in perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610mm C/C with fully threaded self-tapping drywall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200mm C/C., all complete as per the drawing & directions of engineer-in-charge the joints of the boards are finished with specially formulated jointing compound and 48mm wide jointing tape to provide seamless finish.

Tapered edge calcium silicate board made with calcareous & siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with compressive strength 225 kg/sq.cm, Bending strength 100 Kg/Sq.cm.

8.130.1.1 10mm thick.

MATERIALS

Calcium silicate board 10mm thick

= 11.16 sgm

Add wastage @ 10%

= 1.12 sqm.

Total

= 12.28 sqm

	•						
08256	10 mm thick calcium silicate board.	sqm	12.28	₹	430.00	₹	5,280.40
08270	Ceiling sections.	metre	19.66	₹	38.00	₹	747.08
08271	Perimeter channel	metre	9.60	₹	24.00	₹	230.40
08272	Nylon sleeves & wooden screws (40mm)	each	42.00	₹	3.00	₹	126.00
08273	Counter sunk ribbed head screw 25mm.	cent	1.76	₹	72.00	₹	126.72
08168	Joint tape roll LABOUR:-	roll	0.19	₹	110.00	₹	20.90
0209	Carpenter 1st class	Day	3.80	₹	440.00	₹	1,672.00
0203	Beldar	Day	4.60	₹	310.00	₹	1,426.00
	TOTAL					₹	9,629.50
	Add for sundries & contingencies	@	3%			₹	288.89
	Total					₹	9,918.39
	Add for electricity charges	@	0.5%			₹	49.59
						₹	9,967.98
	Add GST (multiplying factor)		0.1405			₹	1,400.50
						₹	11,368.48
	Add 15% for contractor's profit and overheads	@	15%			₹	1,705.27
						₹	13,073.75
	Add cess	@	1%			₹	130.74
	Cost for 11.16 sqm					₹	13,204.49
	Cost for 1 sqm					₹	1,183.20
	Say					₹	1,183.20

Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55mm thick) having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55 mm placed @ 610mm C/C in perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610mm C/C with fully threaded self-tapping drywall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200mm C/C., all complete as per the drawing & directions of engineer-in-charge the joints of the boards are finished with specially formulated jointing compound and 48mm wide jointing tape to provide seamless finish.

Non -asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS 8.130.2 14862 non combustible, non ignitable, fire propagation index and surface spread of flame (as per BS 476 part IV,V,VI and VII) moisture, termite & fungus resistant with suitable fibre cement screw.

8.130.2.1 8 mm thick.

Code Description Unit Quantity Rate Rate

Details of cost for $3.66 \text{ m} \times 3.05 \text{ m} = 11.16 \text{ sgm}.$

MATERIALS

Multipurpose non asbestos fibre

cement board

	8mm thick = 11.16 sqm Add wastage @ 10% = 1.12 sqm. Total = 12.28 sqm						
08001	8 mm thick multipurpose non asbestos fibre cement board.	sqm	12.28	₹	295.00	₹	3,622.60
08270	Ceiling sections.	metre	19.66	₹	38.00	₹	747.08
08271	Perimeter channel	metre	9.60	₹	24.00	₹	230.40
08272	Nylon sleeves & wooden screws (40mm)	each	42.00	₹	3.00	₹	126.00
08273	Counter sunk ribbed head screw 25mm.	cent	1.76	₹	72.00	₹	126.72
08168	Joint tape roll LABOUR:-	roll	0.19	₹	110.00	₹	20.90
0209	Carpenter 1st class	Day	3.80	₹	440.00	₹	1,672.00
0203	Beldar	Day	4.60	₹	310.00	₹	1,426.00
	TOTAL					₹	7,971.70
	Add for sundries & contingencies	@	3%			₹	239.15
	Total					₹	8,210.85
	Add for electricity charges	@	0.5%			₹	41.05
						₹	8,251.90
	Add GST (multiplying factor)		0.1405			₹	1,159.39
	Add 15% for contractors profit and					₹	9,411.29
	Add 15% for contractor's profit and overheads	@	15%			₹	1,411.69
						₹	10,822.98
	Add cess	@	1%			₹	108.23
	Cost for 11.16 sqm					₹	10,931.21
	Cost for 1 sqm					₹	979.50
	Say					₹	979.50

Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55mm thick) having a knurled web of 51.55mm and two flanges of 26 mm each with lips of 10.55 mm placed @ 610mm C/C in perimeter channel having one flange of 20 mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610mm C/C with fully threaded self-tapping drywall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200mm C/C., all complete as per the drawing & directions of engineer-in-charge the joints of the boards are finished with specially formulated jointing compound and 48mm wide jointing tape to provide seamless finish.

8.130.3 Gypsum board conforming to IS: 2095-

' 1996: Part - I

8.130.3.1 12.5 mm thick.

Code Description Unit Quantity Rate Rate

Details of cost for $3.66 \text{ m} \times 3.05$

m =11.16 sqm. MATERIALS

Glass fibre reinforced gypsum board

12.5 mm thick

= 11.16 sqm

Add wastage @ 10%

= 1.12 sqm.

	Total = 12.28 sqm						
08269	12.5 mm thick Glass fibre reinforced Gypsum board.	sqm	12.28	₹	210.00	₹	2,578.80
08270	Ceiling sections.	metre	19.66	₹	38.00	₹	747.08
08271	Perimeter channel	metre	9.60	₹	24.00	₹	230.40
08272	Nylon sleeves & wooden screws (40mm)	each	42.00	₹	3.00	₹	126.00
08273	Counter sunk ribbed head screw 25mm.	cent	1.76	₹	72.00	₹	126.72
08168	Joint tape roll LABOUR:-	roll	0.19	₹	110.00	₹	20.90
0209	Carpenter 1st class	Day	3.80	₹	440.00	₹	1,672.00
0203	Beldar TOTAL	Day	4.60	₹	310.00	₹ ₹	1,426.00 6,927.90
	Add for sundries & contingencies	@	3%			₹	207.84
	Total					₹	7,135.74
	Add for electricity charges	@	0.5%			₹	35.68
	Add GST (multiplying factor)		0.1405			₹	7,171.42 1,007.58
	Add GST (mattiplying factor)		0.1405			₹	8,179.00
	Add 15% for contractor's profit and overheads	@	15%			₹	1,226.85
						₹	9,405.85
	Add cess	@	1%			₹	94.06
	Cost for 11.16 sqm Cost for I sqm					₹	9,499.91 851.25
	Say					₹	851.30
8.131	Providing and fixing Pre -laminated n IS:14587:1998 marked, to frame, back backing or studding to be paid separat	ing or stu					

8.131.1 Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick conforming to IS:14587 Code Description Unit Quantity Rate Rate

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 7.00 sqm Detail of cost for 350x200 cm = 7sqm MATERIAL 12 mm thick both side laminated board = 7.00 sqm ,Add for wastage @5% = 0.35 sqm ,Total= 7.35 sqm						
2484	Materials Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	Sqm	7.35	₹	465.00	₹	3,417.75
08103	Screws 25 mm long	100 Nos	100.00	₹	44.00	₹	44.00
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	0.90 1.00	₹	395.00 300.00	₹₹	355.50 300.00 4,117.25
	Add for sundries & contingencies	@	3%			₹	123.52
	Total					₹	4,240.77

Add for electricity charges	@	0.5%	₹	21.20
			₹	4,261.97
Add GST (multiplying factor)		0.1405	₹	598.81
			₹	4,860.78
Add 15% for contractor's profit and overheads	@	15%	₹	729.12
			₹	5,589.90
Add cess	@	1%	₹	55.90
Cost for7.00sqm.			₹	5,645.80
Cost per sqm.			₹	806.54
Say			₹	806.50

Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick conforming to IS:14587

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 7.00 sqm Detail of cost for 350x200 cm = 7sqm MATERIAL 12 mm thick both side laminated board = 7.00 sqm ,Add for wastage @5% = 0.35 sqm ,Total= 7.35 sqm						
2485	Materials Pre-laminated with decorative Iamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	Sqm	7.35	₹	600.00	₹	4,410.00
08103	Screws 25 mm long	100 Nos	100.00	₹	150.00	₹	150.00
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	0.90 1.00	₹	395.00 300.00	₹ ₹	355.50 300.00 5,215.50
	Add for sundries & contingencies	@	3%			₹	156.47
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5% 0.1405			₹ ₹ ₹	5,371.97 26.86 5,398.83 758.54 6,157.37
	Add 15% for contractor's profit and overheads	@	15%			₹	923.61
	Add cess Cost for7.00sqm. Cost per sqm. Say	@	1%			₹ ₹ ₹ ₹	7,080.98 70.81 7,151.79 1,021.68 1,021.70

Providing and fixing Pre-laminated medium density fibre board conforming to IS: 14587:1998 marked, with one side decorative lamination and other side balancing 8.132 lamination Grade-I(exterior grade), in shelves with screws and fittings wherever required, edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand (fittings to be paid separately).

8.132.1 18 mm thick

Code	Description	Unit	Quantity		Rate		Rate
2488	Details of cost for 0.60 sqm. Detail of cost for 4 Nos. 75x20 cm shelves = 0.60 sqm MATERIAL 18 mm Thick MDF Board out side laminated = 0.60 sqm Add wastage @ 5% = 0.03 sqm Total= 0.63 sqm Materials Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I	Sgm	0.63	₹	590.00	₹	371.70
	MDF Board 18 mm thick confirming to IS:14587	,					
2489	PVC edge bending tape 2.00 mm thick	m	3.00	₹	32.00	₹	96.00
08103	Screws 25 mm long	100 Nos	25.00	₹	150.00	₹	37.50
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	0.11 0.06	₹	395.00 300.00	₹ ₹	43.45 18.00 566.65
	Add for sundries & contingencies	@	3%			₹	17.00
	Total Add for electricity charges	@	0.5%			₹ ₹	583.65 2.92 586.57
	Add GST (multiplying factor)		0.1405			₹	82.41 668.98
	Add 15% for contractor's profit and overheads	@	15%			₹	100.35
	Add cess Cost for 0.60sqm. Cost per sqm. Say	@	1%			₹₹₹₹	769.33 7.69 777.02 1,295.03 1,295.00
8.132.2	25 mm thick						
Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 0.60 sqm. Detail of cost for 4 Nos. 75x20 cm shelves = 0.60 sqm MATERIAL 25 mm Thick MDF Board outside laminated = 0.60 sqm Add wastage @ 5% = 0.03 sqm Total = 0.63 sqm						
2486	Materials Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	Sqm	0.63	₹	910.00	₹	573.30
2489	PVC edge bending tape 2.00 mm thick	m	3.00	₹	32.00	₹	96.00

08103	Screws 25 mm long	100 Nos	25.00	₹	150.00	₹	37.50
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	0.11 0.06	₹	395.00 300.00	₹₹	43.45 18.00 768.25
	Add for sundries & contingencies	@	3%			₹	23.05
	Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and	@	0.5%			₹₹₹₹	791.30 3.96 795.26 111.73 906.99
	overheads	@	15%			₹	136.05
	Add cess Cost for 0.60sqm. Cost per sqm. Say	@	1%			₹ ₹ ₹	1,043.04 10.43 1,053.47 1,755.78 1,755.80

Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-8.133 laminated with one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. all complete.

1.133.1 12 mm thick.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10.00 sqm MATERIAL 12 mm thick MDF Board Grade-I ,one side laminated = 10.00 sqm Add wastage @10 % = 1.00 sqm Total= 11.00 sqm						
2487	Materials Pre-laminated with decorative Iamination one side and other side balancing Iamination exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	Sqm	11.00	₹	460.00	₹	5,060.00
08103	Screws 25 mm long	100 Nos	50.00	₹	150.00	₹	75.00
05050	Rawl plug 50 mm (designation 10 no)	each	55.00	₹	7.00	₹	385.00
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	1.28 1.43	₹	395.00 300.00	₹₹	505.60 429.00 6,454.60
	Add for sundries & contingencies	@	3%			₹	193.64
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5% 0.1405			₹₹₹₹	6,648.24 33.24 6,681.48 938.75 7,620.23
	Add 15% for contractor's profit and overheads	@	15%			₹	1,143.03
	Add cess Cost for 10.0sqm. Cost per sqm.	@	1%			₹ ₹ ₹	8,763.26 87.63 8,850.89 885.09

\$885.10 ₹ 885.10

8.133 Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-1.133.2 18 mm thick.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10.00 sqm MATERIAL 12 mm thick MDF Board Grade-I ,one side laminated = 10.00 sqm Add wastage @10 % = 1.00 sqm Total= 11.00 sqm						
	Materials						
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 18 mm thick confirming to IS:14587	Sqm	11.00	₹	590.00	₹	6,490.00
08103	Screws 25 mm long	100 Nos	50.00	₹	150.00	₹	75.00
05050	Rawl plug 50 mm (designation 10 no)	each	55.00	₹	7.00	₹	385.00
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	1.28 1.43	₹	395.00 300.00	₹ ₹	505.60 429.00 7,884.60
	Add for sundries & contingencies	@	3%			₹	236.54
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5% 0.1405			₹ ₹ ₹	8,121.14 40.61 8,161.75 1,146.73 9,308.48
	Add 15% for contractor's profit and overheads	@	15%			₹	1,396.27
	Add cess Cost for 10.0sqm. Cost per sqm. Say	@	1%			₹ ₹ ₹	10,704.75 107.05 10,811.80 1,081.18 1,081.20

Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-8.133 laminated with one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. all complete.

1.133.3 25 mm thick.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 10.00 sqm MATERIAL 12 mm thick MDF Board Grade-I ,one side laminated = 10.00 sqm Add wastage @10 % = 1.00 sqm Total= 11.00 sqm						
	Materials						
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 25 mm thick confirming to IS: 14587	Sqm	11.00	₹	910.00	₹	10,010.00

08103	Screws 25 mm long	100 Nos	50.00	₹	150.00	₹	75.00
05050	Rawl plug 50 mm (designation 10 no)	each	55.00	₹	7.00	₹	385.00
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	1.28 1.43	₹	395.00 300.00	₹ ₹	505.60 429.00 11,404.60
	Add for sundries & contingencies	@	3%			₹	342.14
	Total Add for electricity charges	@	0.5%			₹ ₹	11,746.74 58.73 11,805.47
	Add GST (multiplying factor)		0.1405			₹ ₹	1,658.67 13,464.14
	Add 15% for contractor's profit and overheads	@	15%			₹	2,019.62
	Add cess Cost for 10.0sqm. Cost per sqm. Say	@	1%			₹ ₹ ₹	15,483.76 154.84 15,638.60 1,563.86 1,563.90

Providing and fixing 25mm thick pre-laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked with one side decorative and other side balancing lamination, for cupboard shutters edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand, including ISI marked nickel plated bright finishing M.S. piano hinges Conforming to IS:3818 with necessary screw etc. all complete.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 2.20 sqm Detail of Cost for 2.20 sqm (2.20 m x 1.00 m) Materials						
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 25 mm thick confirming to IS: 14587	Sqm	2.20	₹	910.00	₹	2,002.00
08103	Screws 25 mm long	100 Nos	100.00	₹	140.00	₹	140.00
2489	PVC edge bending tape 2.00 mm thick	m	3.00	₹	32.00	₹	96.00
608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	m	4.40	₹	41.00	₹	180.40
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	0.55 0.55	₹	395.00 300.00	₹ ₹	217.25 165.00 2,800.65
	Add for sundries & contingencies	@	3%			₹	84.02
	Total Add for electricity charges	@	0.5%			₹ ₹	2,884.67 14.42 2,899.09
	Add GST (multiplying factor)		0.1405			₹ ₹	407.32 3,306.41

Add 15% for contractor's profit and overheads	@	15%	₹	495.96
			₹	3,802.37
Add cess	@	1%	₹	38.02
Cost for 2.20sqm.			₹	3,840.39
Cost per sqm.			₹	1,745.63
Say			₹	1,745.60

Providing and fixing skirting with Pre-laminated medium density fibre board exterior grade (Grade-I) conforming to IS: 14587:1998 marked, with (one side decorative and other side balancing lamination and edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. all complete.

8.135.1 9.160.1 18 mm thick.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 6.00 sqm Detail of cost for skirting 200 mm wide & 30 m long Area 0.20 mx30 m = 6.0 sqm Area 0.20 m x30 m = 6.0 sqm Add wastage @ 10 % = 0.60 sqm Total = 6.60 sqm Materials						
	Pre-laminated with decorative						
2488	lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	Sqm	6.60	₹	590.00	₹	3,894.00
08103	Screws 25 mm long	100 Nos	100.00	₹	140.00	₹	140.00
2489	PVC edge bending tape 2.00 mm thick	m	30.00	₹	32.00	₹	960.00
05050	Rawl plug 50 mm (designation 10 no)	each	102.00	₹	7.00	₹	714.00
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	0.77 0.86	₹	395.00 300.00	₹₹	304.15 258.00 6,270.15
	Add for sundries & contingencies	@	3%			₹	188.10
	Total Add for electricity charges	@	0.5%			₹ ₹	6,458.25 32.29 6,490.54
	Add GST (multiplying factor)		0.1405			` ₹	911.92 7,402.46
	Add 15% for contractor's profit and overheads	@	15%			₹	1,110.37
	Add cess Cost for 6.0sqm. Cost per sqm.	@	1%			₹ ₹ ₹	8,512.83 85.13 8,597.96 1,432.99
	Say					₹	1,433.00

Providing and fixing skirting with Pre-laminated medium density fibre board exterior grade (Grade-I) conforming to IS: 14587:1998 marked, with (one side decorative and other side balancing lamination and edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. all complete.

8.135.2 25 mm thick.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 6.00 sqm Detail of cost for skirting 200 mm wide & 30 m long Area 0.20 mx30 m = 6.0 sqm Area 0.20 m x30 m = 6.0 sqm Add wastage @ 10 % = 0.60 sqm Total = 6.60 sqm						
	Materials						
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	Sqm	6.60	₹	910.00	₹	6,006.00
05050	Screws 25 mm long	100 Nos	100.00	₹	140.00	₹	140.00
2489	PVC edge bending tape 2.00 mm thick	m	30.00	₹	32.00	₹	960.00
05050	Rawl plug 50 mm (designation 10 no)	each	102.00	₹	7.00	₹	714.00
0210 0203	Labour Carpenter 2nd class Beldar TOTAL	Day Day	0.77 0.86	₹	395.00 300.00	₹ ₹	304.15 258.00 8,382.15
	Add for sundries & contingencies	@	3%			₹	251.46
	Total Add for electricity charges Add GST (multiplying factor)	@	0.5%			₹₹₹₹	8,633.61 43.17 8,676.78 1,219.09 9,895.87
	Add 15% for contractor's profit and overheads	@	15%			₹	1,484.38
	Add cess Cost for 6.0sqm.	@	1%			₹ ₹	11,380.25 113.80 11,494.05
	Cost per sqm. Say					₹	1,915.68 1,915.70

26.4 Providing and fixing in position Phenol bonded Bamboowood panelled or panelled and glazed shutter for door ,windows clerestory windows with pre -molded 30 mm thick planks in approved colours texture & finish .It shall have 10 mm wide 25 mm deep grove to fit in panels the bamboo wood shall have minimum density of 1000 Kg /cum minimum hardness 1000 Kgf .All styles and rails shall have profiled interlocking system locked in place by bamboo pins all complete as per direction of Engineer in charge (the panelling will be paid for separately)

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for 2.16 sqm (2.00 m x 1.08 m) Materials						
8291	Bamboo wood shutter for doors	cum	0.0483	₹	1,80,000.00	₹	8,694.00
08240	Stainless steel screws 40 mm	100 Nos	32.00	₹	215.00	₹	68.80
08243	Stainless steel butt hinges 125x64x1.9 mm IS: 12817 marked	10 nos	0.40	₹	265.00	₹	106.00
0208	Carpenter 2nd class	Day	0.33	₹	395.00	₹	130.35
0203	Beldar	Day	0.33	₹	300.00	₹	99.00
	TOTAL					₹	9,098.15
	Add for sundries & contingencies	@	3%			₹	272.94
	Total					₹	9,371.09
	Add for electricity charges	@	0.5%			₹	46.86
	Add CCT (contition to be a feet on)		0.1.405			₹	9,417.95
	Add GST (multiplying factor)		0.1405			₹	1,323.22 10,741.17
	Add 15% for contractor's profit and	@	15%			₹	1,611.18
	overheads	w	1370				
			4.07			₹	12,352.35
	Add cess	@	1%			₹	123.52
	Cost for 2.16sqm. Cost per sqm.					₹	12,475.87 5,775.87
	Say					₹	5,775.90

26.5 Providing and fixing in position Phenol bonded Bamboowood panelling of 10 mm thick in 25 to 40 mm thick panelled or panelled and glazed shutter for door ,windows clerestory windows in approved colours texture and finish. The bamboo wood planks shall have minimum density of 1000 Kg /cum minimum hardness 1000 Kgf. The panels shall have profiled interlocking system locked in place with bamboo pins all complete as per direction of Engineer in charge (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured)

Code	Description	Unit	Quantity	Rate		Rate
	with 2/3 rd panelling 200 x108 = 2.16 sqm Panel Area =4x45.1 x36.55 cm = 0.66 Sqm					
	Materials					
	Bamboo wood Panelling (10 mm thick)					
8292	4x47.2x38.65 x 1 cm =.0073 cum +.0007 cum (add 10% wastage) Total =.008 cum	cum	0.0080	₹ 1,80,000.00	₹	1,440.00

0208	Carpenter 2nd class	Day	0.57	₹	395.00	₹	225.15
0203	Beldar	Day	0.25	₹	300.00	₹	75.00
	TOTAL					₹	1,740.15
	Add for sundries & contingencies	@	3%			₹	52.20
	Total					₹	1,792.35
	Add for electricity charges	@	0.5%			₹	8.96
						₹	1,801.31
	Add GST (multiplying factor)		0.1405			₹	253.08
						₹	2,054.39
	Add 15% for contractor's profit and overheads	@	15%			₹	308.16
						₹	2,362.55
	Add cess	@	1%			₹	23.63
	Cost for .66 sqm.					₹	2,386.18
	Cost per sqm.					₹	3,615.42
	Say					₹	3,615.40

Providing and fixing in position 65 mm thick factory made door frame of phenol bonded Bamboowood (superior class interior use) in approved colours ,texture & finish .The bamboo wood shall have minimum density of 1000 Kg /cum , minimum hardness 1000 Kgf .The door frame shall have tenon & mortise interlocking system ,to be fixed to the wall with 100 mm size GI Screws all a complete as per direction of Engineer in charge.

Code	Description	Unit	Quantity		Rate		Rate
	Details of cost for .033 cum Materials						
8292	Superior class Bamboo wood door frame 65 mm thick 2x206.75 x9.5 x 6.5 cm = 0.255 cum + 1 x 117.5 x 9.5 6.5 cm = 0.0072 cum Total =0.033 cum + 0.001 cum (add for wastge @ 5%) Grand total = .034 cum	cum	0.0340	₹	1,80,000.00	₹	6,120.00
0208	Carpenter 2nd class	Day	0.72	₹	395.00	₹	284.40
0203	Beldar	Day	0.07	₹	300.00	₹	21.00
	TOTAL					₹	6,425.40
	Add for sundries & contingencies	@	3%			₹	192.76
	Total					₹	6,618.16
	Add for electricity charges	@	0.5%			₹	33.09
						₹	6,651.25
	Add GST (multiplying factor)		0.1405			₹	934.50
						₹	7,585.75
	Add 15% for contractor's profit and overheads	@	15%			₹	1,137.86
						₹	8,723.61
	Add cess	@	1%			₹	87.24
	Cost for .033 cum					₹	8,810.85
	Cost per cum					₹	2,66,995.45
	Say					₹	2,66,995.50

Providing and fixing in position wall panelling at all heights with integral densified calcium silicate panels/tiles of size 595 x 595mm, having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, comprising of a frame made from especially fabricated galvanised mild steel sheet 0.50 mm thick pressed section (galvanizing @120 grams per sqm including both sides) i.e.vertical study of size 48 x 34 x 36 mm are placed at 600mm center to center in a floor and ceiling channel section of size 50 x 32m fixed to the floor and soffit at 600mm centers using 12mm dia,50mm long wedge type expanded zinc alloy dash fastner with 10mm bolt. This same channel is then to be fixed in horiziontal direction at 600mm center to center so as to form a grid of 600mm x 600mm. Glasswool of 50mm thickness is then to be inserted in the slots and finally calcium silicate non combustible panels/tiles are to be screw fixed with self tapping pan head nickel coated mild steel screws of size 13 x 3.2mm on to this grid leaving an

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even groove of 1 mm between the panels. The joints between the panels are to be duly jointed and finished using recommended jointing calcium silicate based compound and fiber joint tape roll 50mm wide (90 metre)roll and two coats of primer suitable for panelling as per manufacturer's specification as per direction of Engineer-in-Charge all complete.

Code	Description	Unit	Quantity		Rate		Amount
08293	Materials Details of cost for 6.00 x 3.65=21.90 sqm MATERIAL 15 mm thick, light weight, fully perforated square/butt edge integral densified, false ceiling tiles of size 595x595 mm. 21.90 sqm + 1.10 sqm (Add 5% wastage) Total = 23.00 sqm	Sqm	23	₹	950.00	₹	21,850.00
08294	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2 x 6.00 m=12m +0.60 (Add 5% wastage) = 12.60 m	metre	12.6	₹	68.00	₹	856.80
08295	Galvanised M.S. sheet 0.50 mm thick pressed stud: 48x34x36 mm 11 x 3.65 m = 40.15 m + 5 x 6.00 = 30.00 m Total= 70.15 m +3.51 (Add 5% wastage) Total = 73.66m	metre	73.66	₹	85.00	₹	6,261.10
08296	Self tapping pan head nickle coated mild steel screws of size 13 x 3.2 mm	1000 Nos	0.392	₹	630.00	₹	246.96
08297	12 mm dia 50 mm long wedge type expanded zinc alloy dash fastner	each	19	₹	10.00	₹	190.00
08298	Glass wool 50 mm thick 21.90 +1.10 (Add 5% wastage) = 23.00 sqm	Sqm	23	₹	260.00	₹	5,980.00
08299	Calcium silicate base compound for jointing calcium silicate tiles 22.81/103.68 x 21.9 = 4.82 kgs	Kg	4.2	₹	27.00	₹	113.40
08300	Fibre joint tape 50 mm wide (90 metre) roll 1.27/103.68 x 21.90 = 0.27 roll	each roll	0.27	₹	190.00	₹	51.30

0209	Carpenter 1st class 0.30x21.90=6.57 days	Day	6.57	₹	440.00	₹	2,890.80
0210	Carpenter 2nd class 0.13x21.90=2.847 days	Day	2.847	₹	395.00	₹	1,124.57
0203	Beldar 0.35x21.90=7.665 days	Day	2.847	₹	310.00	₹	882.57
0227	Painter TOTAL	Day	1.095	₹	395.00	₹	432.53 40,880.02
	Add for sundries & contingencies	@	3%			₹	1,226.40
	Total Add for electricity charges	@	0.5%			₹ ₹	42,106.42 210.53 42,316.95
	Add GST (multiplying factor)		0.1405			₹	5,945.53 48,262.48
	Add 15% for contractor's profit and overheads	@	15%			₹	7,239.37
	Add cess Cost for 21.90 Sqm Cost per Sqm	@	1%			₹ ₹ ₹	55,501.85 555.02 56,056.87 2,559.67
	Say					₹	2,293.30

Providing and fixing in position wall panelling at all heights with 6 mm thick BWP ply board lapping with 4 mm thick Teak Veneer of approved quality in outer face, decorative teak wood bead (50 x 40) at top and skirting (150 x 25), comprising of a frame made from especially fabricated galvanised mild steel sheet 0.50 mm thick pressed section (galvanizing @120 grams per sqm including both sides) i.e.vertical studs of size 48 x 34 x 36 mm are placed at 600mm center to center in a floor and ceiling channel section of size 50 x 32m fixed to the floor and soffit at 600mm centers using 12mm dia,50mm long wedge type expanded zinc alloy dash fastner with 10mm bolt. This same channel is then to be fixed in horiziontal direction at 600mm center to center so as to form a grid of 600mm x 600mm. Glasswool of 50mm thickness is then to be inserted in the slots and finally ply board are to be screw fixed with self tapping pan head nickel coated mild steel screws of size 13 x 3.2mm all complete as per manufacturer's specification as per direction of Engineer-in-Charge all complete.

Code	Description	Unit	Quantity		Rate		Amount
	Materials						
	Details of cost for 6.00 x 3.65=21.90 sqm MATERIAL						
	6 mm thick BWP Ply Board 21.90 sqm + 1.10 sqm (Add 5% wastage) Total = 23.00 sqm	Sqm	23	₹	753.00	₹	17,319.00
	4 mm thick Teak Veneer						
	21.90 sqm + 1.10 sqm (Add 5% wastage) Total = 23.00 sqm	Sqm	23	₹	1,400.00	₹	32,200.00
08294	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2 x 6.00 m=12m +0.60 (Add 5% wastage) = 12.60 m	metre	12.6	₹	68.00	₹	856.80

08295	Galvanised M.S. sheet 0.50 mm thick pressed stud: $48x34x36$ mm 11 x 3.65 m = 40.15 m + 5 x 6.00 = 30.00 m Total= 70.15 m + 3.51 (Add 5% wastage) Total = 73.66 m		73.66	₹	85.00	₹	6,261.10
08296	Self tapping pan head nickle coated mild steel screws of size 13 x 3.2 mm	1000 Nos	0.392	₹	630.00	₹	246.96
08297	12 mm dia 50 mm long wedge type expanded zinc alloy dash fastner	each	19	₹	10.00	₹	190.00
08298	Glass wool 50 mm thick 21.90 +1.10 (Add 5% wastage) = 23.00 sqm	Sqm	23	₹	260.00	₹	5,980.00
08299	Calcium silicate base compound for jointing calcium silicate tiles 22.81/103.68 x 21.9 = 4.82 kgs	Kg	4.2	₹	27.00	₹	113.40
08300	Fibre joint tape 50 mm wide (90 metre) roll 1.27/103.68 x 21.90 = 0.27 roll	each roll	0.27	₹	190.00	₹	51.30
0209	Carpenter 1st class 0.30x21.90=6.57 days	Day	6.57	₹	440.00	₹	2,890.80
0210	Carpenter 2nd class 0.13x21.90=2.847 days	Day	2.847	₹	395.00	₹	1,124.57
0203	Beldar 0.35x21.90=7.665 days	Day	2.847	₹	310.00	₹	882.57
0227	Painter	Day	1.095	₹	395.00	₹	432.53
	TOTAL Add for electricity charges	@	0.5%			₹ ₹	68,549.02 342.75
	Add GST (multiplying factor)		0.1405			₹ ₹	68,891.77 9,679.29 78,571.06
	Add 15% for contractor's profit and	@	15%			₹	11,785.66
	overheads Add cess Cost for 21.90 Sqm Cost per Sqm Say	@	1%			₹ ₹ ₹ ₹	90,356.72 903.57 91,260.29 4,167.14 4,167.10

Providing and Fixing Channeled Hi Density Fiber Board Wall Panel (woodworks) (WC01C28LUMW) perforated panels of width 128mm, thickness of 15mm and length 2440mm with minimum 830 kg/M3 density substrate with a laminated facing as per the approved shade/species & finish and a melamine balancing layer on the reverse side. The boards shall have a special perforation pattern where the visible surface has a "Helmholtz" fluted perforation of 4mm width and 28 mm visible panel each. The panels shall provide a fire reaction of Class of 1 as per Part 7 of BS 476. The edges of the panels shall be "tongue-and-grooved" to receive special clips for installation. The back of the perforated panel shall have sound absorbing non-woven acoustical fleece having NRC of 0.55. The panels shall be mounted on special aluminium splines using clips. Install wooden battens of section 50 mm x 50 mm or approved by the Architect on the solid wall horizontally using screws and plugs at spacing of 600 mm centre-to-centre. Screw the aluminiumextruded keel for channeled wood works (GTPT001) over the lowest and second wooden batten at an on-centre distance of 600 mm. Install the first set of wooden panels by inserting the clips for border channeled woodworks (GTPT002) and insert the grove of the panel into the projecting flange of the aluminium clip. Continue installing rows of panels by inserting the tongue into the groove of the earlier inserted panel and progressively installing clips for inside channeled woodworks (GTPT003) into the next keel till the actual height is achieved. Use clips for borer channeled woodworks (GTPT002) to finish off the installation. Finish off the edges using wooden moulding of matching colour approved by the Architect, suitably fixed all complete as per drawings and specification and direction of the Engineer-in-Charge.

Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position :

Treated (as per IS 401) rubber Wood
1.1 (Performance Appraisal Certificate
(PAC) issued by TFDPC Ltd)

Code	Description		Unit	Quantity		Rate		Amount
	Details of cost for Chowkha 206.75 × 117.5 cm Materials :- rubber Wood	t of a door						
	2×206.75×9.5×7.0 cm	= 0.028						
	cum.+ 1×117.5×9.5×7.0 cm cum.	= 0.008						
		= 0.036						
	cum.+							
	Add for wastage @ 5% cum.	= 0.002						
	Grand Total	= 0.038						
	cum.							
	Treated Rubber Wood (certi TFDPC Ltd)	fied by	10 cudm	38	₹	357.00	₹	1,356.60
	Carriage of material (timber	-)	cum	0.038	₹	80.65	₹	3.06
	Labour:							
	Carpenter (avg.)		Day	0.72	₹	400.00	₹	288.00
	Beldar		Day	0.07	₹	300.00	₹	21.00
	TOTAL						₹	1,668.66
	Add for sundries & conting	encies	@	3%			₹	50.06
	Total						₹	1,718.72
	Add for electricity charges		@	0.5%			₹	8.59
	3						₹	1,727.31
	Add GST (multiplying factor	^)		0.1405			₹	242.69
							₹	1,970.00

Add 15% for contractor's profit and overheads	@	15%	₹	295.50
			₹	2,265.50
Add cess	@	1%	₹	22.66
Cost of 36 cudm.			₹	2,288.16
Cost per cum.			₹	63,560.13
Say			₹	63,560.00

Providing TFDPC Primered High Density Fibre (HDF) based skin door shutters having uniform distribution of PRIMER sprayed by program logic controlled Spray Conveyor Guns to ensure a blemish free uniform polish filled with treated (as per IS 401) rubber wood (Performance Appraisal Certificate (PAC) issued by TFDPC Ltd) including fittings & fixing.

35 mm thick shutters

Consider area =2.75 feet X 7 feet =	19.25	Sqft =	₹	1.79	Sqm
Area =2.75 feet X 7 feet rate TFDPCL Ref. 1(b) of Annexure I = exclusion	uding GS	Т		₹	3,330.00
Add for sundries & contingencies	@	3%		₹	99.90
Total Add for electricity charges	@	0.5%		₹ ₹	3,429.90 17.15 3,447.05
Add GST (multiplying factor)		0.1405		₹	484.31 3,931.36
Add 15% for contractor's profit and overheads	@	15%		₹	589.70
Add cess Rate for 1.789 Sqm Rate per Sqm Say	@	1%		₹ ₹ ₹	4,521.06 45.21 4,566.27 2,552.41 2,552.00

Providing TFDPC Melamine mounded (Door Skins totally do away with the hassles of painting & polishing associated with the conventional doors) High Density Fibre (HDF)

144 based skin door shutters filled with treated (as per IS 401)rubber wood of approved colour ,texture & finish (Performance Appraisal Certificate (PAC) issued by TFDPC Ltd) including fittings & fixing.

35 mm thick shutters

Consider area =2.75 feet X 7 feet =	19.25	Sqft =	₹	1.79	Sqm
Area =2.75 feet X 7 feet rate TFDPCL Ref. 4(b) of Annexure I =				₹	3,930.00
Add for sundries & contingencies	@	3%		₹	117.90
Total Add for electricity charges	@	0.5%		₹	4,047.90 20.24 4.068.14
Add GST (multiplying factor)		0.1405		₹	571.57 4,639.71
Add 15% for contractor's profit and overheads	@	15%		₹	695.96
Add cess Rate for 1.789 Sqm Rate per Sqm Say	@	1%		₹ ₹ ₹	5,335.67 53.36 5,389.03 3,012.31 3,012.00

Providing TFDPC Veneered Moulded High Density Fibre (HDF) based skin door shutters filled with treated(as per IS 401) rubber wood (Performance Appraisal Certificate (PAC) issued by TFDPC Ltd) having varnish of approved colour ,texture & finish to ensure a uniform bright polish including fittings & fixing.

35 mm thick shutters

Consider area =2.75 feet X 7 feet =	19.25	Sqft =	₹	1.79	Sqm
Area =2.75 feet X 7 feet rate TFDPCL Ref. 6(b) of Annexure I =				₹	5,720.00
Add for sundries & contingencies	@	3%		₹	171.60
Total Add for electricity charges	@	0.5%		₹ ₹	5,891.60 29.46 5,921.06 831.91
Add GST (multiplying factor)		0.1405		₹	6,752.97
Add 15% for contractor's profit and overheads	@	15%		₹	1,012.95
Add cess Rate for 1.789 Sqm Rate per Sqm Say	@	1%		₹ ₹ ₹	7,765.92 77.66 7,843.58 4,384.34 4,384.00

Providing panelled or panelled and glazed shutter for door ,windows clerestory windows with 35mm thick Finger jointed edge glued solid treated(as per IS 401) rubber wood (Performance Appraisal Certificate (PAC) issued by TFDPC Ltd) board in approved colours texture & finish including fittings & fixing..

35 mm thick shutters

Consider area =2.75 feet X 7 feet =	19.25	Sqft =	₹	1.79	Sqm
Area =2.75 feet X 7 feet rate TFDPCL Ref. 16(b) of Annexure I =				₹	11,340.00
Add for sundries & contingencies	@	3%		₹	340.20
Total Add for electricity charges Add GST (multiplying factor)	@	0.5%		₹ ₹ ₹	11,680.20 58.40 11,738.60 1,649.27
Add 15% for contractor's profit and overheads	@	15%		₹	13,387.87 2,008.18
Add cess Rate for 1.789 Sqm Rate per Sqm Say	@	1%		₹₹₹₹	15,396.05 153.96 15,550.01 8,692.01 8,692.00

Providing & fixing in position treated(as per IS 401) rubber wood in wall skirting with finger jointed edge glued solid rubber wood board planks of sizes 12 mm thick, 1900mm length (minimum) and 75mm wide(minimum), in approved colour, texture and finish. The skirting shall be fixed with SS screws & rawl plugs, over underlayment of 25mm x 50mm cross section treated rubber wood structure and (Performance Appraisal Certificate (PAC) issued by TFDPC Ltd). all complete as per direction of the Engineer in-charge.

Consider area = 1 Sqm				
TFDPC RATE			₹	3,203.00
Add for sundries & contingencies	@	3%	₹	96.09
Total			₹	3,299.09
Add for electricity charges	@	0.5%	₹	16.50
			₹	3,315.59
Add GST (multiplying factor)		0.1405	₹	465.84
			₹	3,781.43
Add 15% for contractor's profit and overheads	@	15%	₹	567.21
			₹	4,348.64
Add cess	@	1%	₹	43.49
Rate per Sqm			₹	4,392.13
Say			₹	4,392.00

Providing & fixing in position treated (as per IS 401)rubber wood wall cladding at all height with finger jointed edge glued solid rubber wood board planks of sizes 12 mm thick, 1000mm length (minimum) and 100 mm wide (minimum), in approved colour, texture and finish, with necessary profiled edges fixed with 40mm SS screws 5 nos in each tile to frame work made of treated rubber wood of size 50mmx25mm placed at 500mm (maximum) apart and Performance Appraisal Certificate (PAC) issued by TFDPC Ltd) All complete as per direction of the Engineer in-charge.

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Consider area = 1 Sqm TFDPC RATE			₹	3,203.00
Add for sundries & contingencies	@	3%	₹	96.09
Total			₹	3,299.09
Add for electricity charges	@	0.5%	₹	16.50
			₹	3,315.59
Add GST (multiplying factor)		0.1405	₹	465.84
			₹	3,781.43
Add 15% for contractor's profit and overheads	@	15%	₹	567.21
			₹	4,348.64
Add cess	@	1%	₹	43.49
Rate per Sqm			₹	4,392.13
Say			₹	4,392.00

SUB HEAD : 9.0 STEEL WORK

Note:

- A priming coat of approved steel primer such as Red Oxide/Zinc Chromate primer conforming to IS 2074 shall be applied before any member of steel structure are placed in position or taken out of workshop. The portion to be embedded in concrete shall not be applied any priming coat, if not otherwise stated.
- T- iron door windows and ventilator frames shall be measured in running metre, along the centre line of the frame correct to a 1mm and weight calculated on the basis of standard tables. No deduction or extra payment shall be made for making holes and making arrangement for fixing fittings including packing wherever necessary.
- 9.1 Providing structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as required.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one quintal	Kg.					
	Steel = 1.00 QtI., Add wastage @ 5% = 0.05 QtI. Total = 1.05 QtI.						
05056	Steel (RS joist, flats, tees-channel-angle etc)	QtI.	1.05	₹	4,712.50	₹	4,948.13
	Priming cost-(Rate vide item no. 12.33.3 finishing) :"A"	Sqm.	3.00	₹	26.80	₹	80.40
	b. Carriage:						
0468	Steel	Tonne	1.05	₹	102.47	₹	107.59
	c. Labours:						
0215	Fitter (Grade I)	Day	0.500	₹	440.00	₹	220.00
0207	Blacksmith 2nd class	Day	0.750	₹	395.00	₹	296.25
0203	Beldar	Day	1.000	₹	310.00	₹	310.00
	d. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	5,881.97	₹	88.23
	e. Sundries (scaffolding etc.) & contingencies: @ 3% on total ex/c "A".	3%	on	₹	5,970.20	₹	179.11
						₹	6,149.31
	Add GST (multiplying factor)		0.1405			₹	863.98
						₹	7,013.29
	Add for contractor's profit and overheads	@	15%			₹	1,051.99
						₹	8,065.28
	Add cess	@	1%			₹	80.65
					Total	₹	8,226.33
		Total co	ost for 1 Kg.			₹	82.26
					Say,	₹	82.30

9.2 Providing structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as required.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a truss 7.6m clear span	Kg.			
	a. Materials:				
05056	(i) (a) Principal rafter (T-iron) 100x 100x 10mm @ 15kg/m = 142.50Kg (b) Struts (angles) 40x40x6mm 2xI.35 = 2.70m @ 3.5kg/m = 9.45kg, (a+b) = 15I.95kg+ [Add wastage @ 5% = 7.60kg] = Total 159.55kg. = Say, 1.60QtI.	O+I	1.600	₹ 4,700.00	₹ 7,520.00
05026	(ii) (a) Ties (flats) 50x12mm 2x2.7 = 5.4m @ 4.7kg/m = 25.38kg (b) Ties central (flats) 50x10mm 1x2.80 = 2.8m @ 3.90kg/m = 10.92kg. (c) Braces (flats) 50 x 10mm 2x1.84 = 3.68m @ 3.90kg/m = 14.35kg , (a+b+c) = 50.65 kg+ [Add wastage @ 5% = 2.39kg.] = Total 53.81kg. = Say, 0.53 Qtl.	QtI.	0.53	₹ 4,725.00	₹ 2,504.25

			1			_	
05036	(iii) (a) Gusset plates 10mm thick 1x0.74x0.35m = 0.259sqm. (b) shoe 4x0.46x0.46 = 0.845sqm., Total (a+b) = 1.104sqm.@ 78.4kg/m = 86.55kg. (c) 12mm plates at the point of principal rafter and strut-2x0.3x0.2 = 0.12sqm.+ Tie beam, brace and strut-2x0.5x0.3 = 0.30sqm.+ Sole plates-2x0.46x0.46 = 0.42sqm.+ Anchor plate-2x0.46x0.1 = 0.09sqm., Total (b) = 0.93 sqm. Say 1.00 sqm. @ 94.4kg/m = 94.40kg. Total (a+b+c) = 180.95kg. + [add wastage @ 5% = 9.05kg.] = 190.00kg or 1.90Qtl.	QtI.	1.900	₹	4,950.00	₹	9,405.00
05037	(iv) 16mm dia. 50mm long rivets = 56 nos.+ [Add wastage @ 5 % = 2.8 nos.] = 58.8 nos.	QtI.	0.0684	₹	5,120.00	₹	350.21
09001	(v) 20mm dia. holding down bolts 4 Nos.x460mm = 1840mm + [Add wastage @ 5% = 92mm] = 1932 mm	QtI.	0.0529	₹	5,800.00	₹	306.82
	[Cost for riveting & bolting and welding are assumed same (LS)]						
	Applying priming coat- T.Iron 9.5x0.4 = 3.80sqm.+ Struts 2.70x0.16 = 0.43sqm.+ Ties 5.4x0.124 = 0.67sqm.+ Braces 2x 1.84x0.12 = 0.44 sqm.+ Ties 2.8x0.12 = 0.34 sqm. Total = 5.68 sqm.(Rate vide item no. 12.33.3 finishing) :"A"		5.68	₹	26.80	₹	152.22
	b. Carriage:						
0468	Structural steel (all)	Tonne	0.4151	₹	102.47	₹	42.54
	c. Labours:						
0215	Fitter (Grade I)	Day	2.70	₹	440.00		1,188.00
0207	Blacksmith 2nd class	Day	3.60	₹	395.00		1,422.00
0204	Beldars skilled	Day	5.40	₹	355.00		1,917.00
0203	Beldar	Day	3.60	₹	310.00	_	1,116.00
0201	Bandhani	Day	0.44	₹	310.00	₹	136.40
	d. Water charges & electricity charges: @ 1.50% on	1.5%	on	₹	25,908.22	₹	388.62
	e. Sundries (scaffolding etc.) & contingencies: @ 3% on	3%	on	₹	26,296.84	₹	788.91
						₹	27,085.75
	Add GST (multiplying factor)		0.1405			₹	3,805.55
						₹	30,891.30
	Add for contractor's profit and overheads	@	15%			₹	4,633.70
						₹	35,525.00
	Add cess	@	1%			₹	355.25
	Quantity of net steel (151.95+50.65+180.95+6.5+5.04)=395.09 kg = 3.9509 Qtl.				Total	₹	36,032.47
		Total co	st for 1 Kg.			₹	91.20
					Say,	₹	91.20

9.3 Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm at 100 mm centre to centre and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia. steel pulleys & with riveted bolts, nuts, locking arrangement, stoppers, handles, hold fast /anchor bolt including embedding in cement concrete of required grade for fixing in position, all necessary fittings, including applying a priming coat of approved steel primer etc. complete as required.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a gate 2.4mxl.5m = 3.6sqm.	Sqm.			
	a. Materials:				
05056	(i) Channels: 20xl0x2mm section 2x18x2.4 = 86.40m+ [Add wastage @ 10% = 8.64m] = 95.04m @ 0.56kg/m = 53.22Kg.		0.530	₹ 4,700.00	₹ 2,491.00
05056	(ii) M.S. Tee: 40x40x6mm section for bottom & top = 2 x 1.65m = 3.30m @ 3.5kg/m = 11.55kg+ [Add wastage @ 10% = 1.15 Kg.] = 12.70Kg. Say, 0.13 Qtl.		0.130	₹ 4,700.00	₹ 611.00
05026	(iii) Flat iron diagonals: 20mm x 5mm flat iron diagonals 68.275m @ 0.8kg/m = 54.62kg+ [Add wastage @ 10% = 5.46kg] = 60.08kg = Say,0.60 Qtl.		0.600	₹ 4,725.00	₹ 2,835.00
05037	Rivets 6mm dia. [40 nos i/c wastage]	QtI.	0.005	₹ 5,120.00	₹ 25.60

05026	Hold fast & stopper (20 x 5 mm flat, 450mm long each, total 9 nos.)	QtI.	0.022	₹	4,725.00	₹	103.95
05039	MS rod 16mm dia. for handles (450mm long each, 2 nos.).	QtI.	0.015	₹	4,620.00	₹	69.30
05017	Anchor bolts 12mm dia. (75mm long each, 10 nos.).	QtI.	0.015	₹	5,040.00	₹	75.60
	Cost of locking arrangements (LS)	L.S.	69.30	₹	2.00	₹	138.60
09015	Pulleys 40mm dia.	Each	10	₹	60.00	₹	600.00
	Priming coat: Channel - $36x0.076x2.4 = 6.57sqm.+$ Tee-0.16x3.3=0.53sqm.+Flats -0.05x68 = 3.40sqm.= Total 10.50sqm. (Rate as per item No. 12.31.3) ("A")	Sqm	10.50	₹	26.80	₹	281.40
	b. Carriage:						
0468	Structural steel (all)	Tonne	0.1317	₹	102.47	₹	13.50
	c. Labours:						
0215	Fitter (Grade I)	Day	3.00	₹	440.00	₹	1,320.00
0206	Blacksmith 1st class	Day	6.00	₹	440.00	₹	2,640.00
0207	Blacksmith 2nd class	Day	6.00	₹	395.00	₹	2,370.00
0219	Mason 1st class	Day	0.50	₹	440.00	₹	220.00
0220	Mason 2nd class	Day	0.50	₹	395.00	₹	197.50
0203	Beldar	Day	8.00	₹	310.00	₹	2,480.00
	d. Extra charges for CC/CM for repairs after fixing hold fast, scaffolding, transport to site etc.: @ 2.50% on total ex/c "A".		on	₹	16,191.05	₹	809.55
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	17,000.60	₹	255.01
	f. Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	17,255.61	₹	517.67
						₹	17,773.28
	Add GST (multiplying factor)		0.1405			₹	72.73
						₹	17,846.01
	Add for contractor's profit and overheads	@	15%			₹	2,676.90
					-	₹	20,522.91
	Add cess	@	1%		-	₹	205.23
					Total	₹	21,009.54
		Total cos	st for 1 Sqm.			₹	5,835.98
						₹	5,836.00

9.4 Providing and fixing in position 1mm thick M.S. sheet sliding-shutters with frame and diagonal braces of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junction and corners 25mm dia pulley, 40x40x6mm angle and T-iron guide sufficiently long at the top and bottom respectively, channels & with bolts, nuts, rivets, locking arrangement, stoppers, handles, hold fast including embedding in cement concrete of required grade for fixing in position, all necessary fittings, including applying a priming coat of approved steel primer etc. complete as required.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one double leaf door size 2.4x2.4m = 5.76sqm.	Sqm.			
	a. Materials:				
05041	(i) M.S. sheet Imm thick 5.76sqm. @ 7.85kg/sqm. = 45.216kg.+ [Add wastage @ 10% = 4.522kg]. = 49.738kg = 0.497 Qtl.		0.497	₹ 4,800.00	₹ 2,385.60
05036	(ii) Gusset plates 3.00mm thick: Area of one gusset plate [0.3x0.04 = 0.012]+ [1/2x0.26x0.26 = 0.034]+ [0.26x0.04 = 0.010] = 0.056sqm. Total 8x0.056 = 0.448sqm. & circle (22/7x1/4x0.3x0.3=0.071sqm.) Total 2x0.071 = 0.142sqm. 0.590sqm.@23.55kg/sqm.= 13.89kg.+ (Add wastage @ 10% = 1.39kg) = 15.28kg. or 0.153 qtl.	QtI.	0.153	₹ 4,950.00	₹ 757.35
05056	(iii) Angle iron 40x40x6mm @ 3.5kg/m: Sides- (4x2.4 = 9.6m)+ T&B (2x2x1.2 = 4.8m.), Diagonals-(2x2.5=5.0m & 2x2.45 = 4.9m)+ Top and bottom guides (2x4.8 = 9.6m) Top guide supports (7x0.8 = 2.1m) Total = 36.0m @3.5kg. per m. = 126kg.+ Add wastage@ 10%= 12.6kg. = 138.6kg. or 1.39 Qtl.	QtI.	1.390	₹ 4,700.00	₹ 6,533.00

	I					I	
05056	(iv) Channel 25x25x6mm @ 3.05kg/m Bottom- 2.4m : 2.4x3.05= 7.32 kgn & Channel 40x40x6mm @ 5.56kg/m: 0.5x5.56 = 2.78Kg. Total '= 10.1kg.+ (Add wastage @ 10% = 1.101 kg.) = 11.11kg. or 0.11q	QtI.	0.110	₹	4,700.00	₹	517.00
09014	(v) 25mm dia. Pully	Each	8	₹	52.00	₹	416.00
	(vi) Handles and locking arrangements	L.S.	207.90	₹	1.00	₹	207.90
	(vii) Bolts and rivets	L.S.	275.00	₹	1.00	₹	275.00
	(viii) Hold fast & stoper etc.	L.S.	103.95	₹	1.00	₹	103.95
	Priming coat: M.S. Sheet 2x5.76 = 11.52+Angle iron 0.16x36 = 5.76+Angle iron 0.16x36 = 5.76+Channel-0.15x2.4=0.36+0.24x0.5=0.12 '= 17.76 Say 18.0sqm (Rate as per item 13.50.3 of S.H. finishing) "A"	Sqm	20.00	₹	26.80	₹	536.00
	CC 1:3:6 to fix pin clamps Rate as per items No. 4.2.5 of SH:4 "A"	Cum.	0.064	₹	8,219.00	₹	526.02
	b. Carriage:						
0468	Structural steel (all)	Tonne	0.215	₹	102.47	₹	22.03
	c. Labours:						
0215	Fitter (Grade 1)	Day	2.00	₹	440.00	₹	880.00
0206	Blacksmith 1st class	Day	3.00	₹	440.00	₹	1,320.00
0207	Blacksmith 2nd class	Day	4.00	₹	395.00		1,580.00
0203	Beldar	Day	4.00	₹	310.00	₹	1,240.00
0219	Mason 1st class	Day	0.06	₹	440.00	₹	26.40
0220	Mason 2nd class	Day	0.06	₹	395.00	₹	23.70
	d. Extra charges for CM for repairs after fixing hold fast, scaffolding, driling holes, transport to site etc.: @ 1.50% on total ex/c "A".	1.5%	on	₹	16,287.93	₹	244.32
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	16,532.25	₹	247.98
	f. Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	16,780.23	₹	503.41
						₹	17,283.64
	Add GST (multiplying factor)		0.1405			₹	2,428.35
					-	₹	,
	Add for contractor's profit and overheads	@	15%			₹	2,956.80
						₹	22,668.79
	Add cess	@	1%			₹	226.69
						₹	23,957.50
		Total cos	t for 1 Sqm.			₹	4,159.29
			-		Say,	₹	

- 9.5 Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, & with cleats with bolts & nuts, rivets, locking arrangement, handles, hooks & eyes, pinlets including embedding in cement concrete of required grade for fixing in position, all necessary fittings, including applying a priming coat of approved steel primer etc. complete as required:-
- 9.5.1 Using M.S. angels 40x40x6 mm for diagonal braces.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a double leaf door of size 2.4mx2.4m=5.76sqm.	Sqm.			
	a. Materials:				
05041	(i) M.S. sheet Imm thick 5.76sqm. @ 7.85kg/sqm. = 45.216kg.+ Add wastage @ 10% = 4.522kg. = 49.738kg = 0.497 Qtl.		0.497	₹ 4,800.00	₹ 2,385.60
05036	(ii) Gusset plates 3.00mm thick Area of one gusset plates 0.3x0.04 = 0.0120+ 1/2x0.26(0.04+0.3) = 0.0442 '= 0.0562sqm.+ 8x0.0562 = 0.4496sqm.+ 2x22/7x1/4x0.3x0.3=0.1414sqm.'= 0.5910sqm. 0.5910sqm.@23.55kg/sqm.= 13.92kg.+ Add wastage @10% = 1.39kg - 15.31kg. or 0.153 Qtl.	QtI.	0.153	₹ 4,950.00	₹ 757.35

05056	(iii) Angle iron: 40x40x6mm @3.5kg/m Sides- (4x2.40 = 9.6m) + Top & bottom-(4xl.20=4.8m)+ Diagonal (2x2.45 = 4.9m & 2x2.40 = 4.8m) = 24.30m+(Add wastage @ 10% = 2.43m) = 26.73m @ 3.5kg. per m. = 93.56kg=0.936 Qtl.	QtI.	0.936	₹	,		·
09009	Pintles including welded pin	Each	4	₹	40.00	₹	160.00
09010	M.S. cleats with bolts an nuts to rest on pintles	Each	4	₹	125.00	₹	500.00
05035	Hooks & eyes	Each	2	₹	33.00		66.00
	Locking arrangements and handles	L.S.	167.70	₹	1.00		167.70
	Rivets etc.	L.S.	269.10	₹	1.00	₹	269.10
	Priming coat: M.S. sheet = 11.52 Angle iron-0.16x24.3 = 3.89 Rate as per items No. 12.31.3. "A"	Sqm	15.41	₹	26.80	₹	412.99
	CC 1:3:6 to fix pin clamps Rate as per items No. 4.2.5 of SH:4 "A"	Cum.	0.064	₹	3,112.70	₹	199.21
	b. Carriage:	_		_		_	
0468	Structural steel (all) (0.0497+0.0153+0.0936 tonne)	Tonne	0.1586	₹	102.47	₹	16.25
	c. Labours:	_					
0215	Fitter (Grade I)	Day	2.00	₹	440.00	₹	880.00
0206	Blacksmith 1st class	Day	3.00	₹	440.00		1,320.00
0207	Blacksmith 2nd class	Day	4.00	₹	395.00	_	1,580.00
0219	Mason 1st Class	Day	0.06	₹	440.00		26.40
0220	Mason 2nd class	Day	0.06	₹	395.00		23.70
0203	Beldar	Day	5.00	₹	310.00	₹	1,550.00
	d. Extra charges for CM for repairs after fixing hold fast, scaffolding, transport to site etc.: @ 1.50% on total ex/c "A".	1.5%	on	₹	14,101.30	₹	211.52
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	14,312.82	₹	214.69
	f. Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	14,527.51	₹	435.83
						₹	14,963.34
	Add GST (multiplying factor)		0.1405			₹	2,102.35
						₹	17,065.69
	Add for contractor's profit and overheads	@	15%			₹	2,559.85
	·					₹	19,625.54
	Add cess	@	1%			₹	196.26
			-		Total	_	20,434.00
		Total cos	t for 1 Sqm.			₹	3,547.57
					Say,	₹	3,547.60

9.5.2 Using flats 30x6mm for diagonal braces and central cross piece.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a double leaf door of size 2.4mx2.4m=5.76sqm.	Sqm.			
	a. Materials:				
05041	(i) M.S. sheet Imm thick 5.76sqm. @ 7.85kg/sqm. = 45.216kg.+ Add wastage @ 10% = 4.522kg. = 49.738kg = 0.497 Qtl.		0.497	₹ 4,800.00	₹ 2,385.60
05036	(ii) Gussets plates-3.00mm thick vide (ii) in item 10.4 = 0.5910sqm. at mid height = 4x0.0528 = 0.2112sqm.'= 0.8022sqm.Add wastage @ 10% = 0.0802sqm. '=0.8824sqm. @ 23.55 kg/sqm =20.78 kg '= 0.2078 Qtl		0.208	₹ 4,950.00	₹ 1,028.61
05056	(iii) Angle iron:40x40x6mm @3.5kg/m Sides-4x2.40 = 9.6m Top & bottom-4xl.20=4.8m '= 14.40m Add wastage @ 10% = 1.44m Add wastage @ 10% = 1.44m '= 15.84m 15.84m @ 3.5kg. per m= 55.44kg =0.554 Qtl	∩tI	0.554	₹ 4,700.00	₹ 2,603.80

			1	1		1	
05026	(iv) Flats 30x6mm @1.4kg/m 4x2.45=9.80m+ 2xI.20=2.40m '= 12.20m+ Add wastage @ 10% = 1.22m '= 13.42m 13.42m @ 1.4kg. per m. = 18.788kg. = 0.188 QtI	QtI.	0.188	₹	4,725.00	₹	888.30
09009	Pintles including welded pin	Each	4	₹	40.00	₹	160.00
09010	M.S. cleats with bolts an nuts to rest on pintles	Each	4	₹	125.00	_	500.00
05035	Hooks & eyes	Each	2	₹	33.00		66.00
	Locking arrangements and handles	L.S.	167.70	₹	1.00	_	167.70
	Rivets etc.	L.S.	269.10	₹	1.00	₹	269.10
	Priming coat: M.S. sheet = 11.52 Angle iron-0.16x24.3 = 3.89 0.16x14.40 = 2.30+ Flats 0.072x12.2 = 0.88 '= 14.70sqm.(A) Rates as per Item No. 12.31.3	Sqm	14.70	₹	26.80	₹	393.96
	CC 1:3:6 to fix pin clamps Rate as per items No. 4.2.5 of SH:4 "A"	Cum.	0.064	₹	3,112.70	₹	199.21
0468	b. Carriage: Structural steel (all) (0.0497+0.02078+0.0554+0.0188 tonne)	Tonne	0.1447	₹	102.47	₹	14.83
	c. Labours:	_				_	
0215	Fitter (Grade I)	Day	2.00	₹	440.00	₹	880.00
0206	Blacksmith 1st class	Day	3.00	₹	440.00		1,320.00
0207	Blacksmith 2nd class	Day	4.00	₹	395.00		1,580.00
0219	Mason 1st Class	Day	0.06	₹	440.00	₹	26.40
0220	Mason 2nd class	Day	0.06	₹	395.00		23.70
0203	Beldar	Day	5.00	₹	310.00	₹	1,550.00
	d. Extra charges for CM for repairs after fixing hold fast, scaffolding, transport to site etc.: @ 1.50% on total ex/c "A".	1.5%	on	₹	13,464.04	₹	201.96
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	13,666.00	₹	204.99
	f. Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	13,870.99	₹	416.13
						₹	14,287.12
	Add GST (multiplying factor)		0.1405			₹	2,007.34
						₹	16,294.46
	Add for contractor's profit and overheads	@	15%			₹	2,444.17
						₹	18,738.63
	Add cess	@	1%			₹	187.39
					Total	₹	19,519.19
		Total cos	st for 1 Sqm.			₹	3,388.75
					Say,	₹	3,388.80

9.6 Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 275mm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters & with handles, hold fast including embedding in cement concrete of required grade required for fixing in position, all necessary fittings, including applying of approved steel primer etc. complete as required:-

9.6.1 80xl.25mm M.S. laths with 1.25 mm thick top cover.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for a shutter of size 3mx2.5m = 7.5sqm.	Sqm.					
	a. Materials:						
09016	Rolling shutter complete	Sqm	7.50	₹	1,400.00	₹	10,500.00
09019	Top Cover	Metre	2.50	₹	900.00	₹	2,250.00
09002	Coiled type spring	Each	1.00	₹	310.00	₹	310.00
	Priming coat: 20 Sqm. Rate As per items No. 12.31.3. "A"	Sqm	20.00	₹	26.80	₹	536.00
	CC 1:3:6 to fix pin clamps Rate as per items No. 4.2.5 of SH:4 "A"	Cum.	0.064	₹	3,112.70	₹	199.21
	b. Carriage:						
	Carriage of materials	LS	7.00	₹	1.00	₹	7.00
	c. Labours: (manufacturing, fitting-fixing all etc.)				•		

0215	Fitter (Grade 1)	Day	2.55	₹	440.00	₹	1,122.00
0203	Beldar	Day	2.55	₹	310.00	₹	790.50
0219	Mason 1st Class	Day	0.12	₹	440.00	₹	52.80
0220	Mason 2nd class	Day	0.12	₹	395.00	₹	47.40
	d. Extra charges for CM for repairs after fixing hold fast, scaffolding, transport to site etc.: @ 1.50% on total ex/c "A".	1.5%	on	₹	15,079.70	₹	226.20
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	15,305.90	₹	229.59
	f. Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	15,535.49	₹	466.06
						₹	16,001.55
	Add GST (multiplying factor)		0.1405			₹	2,248.22
						₹	18,249.77
	Add for contractor's profit and overheads	@	15%			₹	2,737.47
						₹	20,987.24
	Add cess	@	1%			₹	209.87
					Total	₹	21,932.32
		Total cos	st for 1 Sqm.			₹	2,924.31
					Say,	₹	2,924.30

9.6.2 80x1.20 mm M.S. laths with 1.20 mm thick top cover.

Code		Unit	Quantity		Rate		Amount
	Description Details of cost for a shutter of size 3mx2.5m = 7.5sqm.	Sqm.	,				
а	ı. Materials:						
09017 R	Rolling shutter complete	Sqm	7.50	₹	1,200.00	₹	9,000.00
09021 T	Top Cover	Metre	2.50	₹	350.00	₹	875.00
09002 C	Coiled type spring	Each	1.00	₹	310.00	₹	310.00
Р	Priming coat: 20 Sqm. Rate As per items No. 13.50.3. "A"	Sqm	20.00	₹	26.80	₹	536.00
	CC 1:3:6 to fix pin clamps Rate as per items No. 4.2.5 of SH:4 "A"	Cum.	0.064	₹	3,112.70	₹	199.21
b	o. Carriage:						
C	Carriage of materials	LS	7.00	₹	1.00	₹	7.00
С	c. Labours:						
0215 F	itter (Grade 1)	Day	2.55	₹	440.00	₹	1,122.00
0203 B	Beldar	Day	2.55	₹	310.00	₹	790.50
0219 N	Mason 1st Class	Day	0.12	₹	440.00	₹	52.80
0220 N	Mason 2nd class	Day	0.12	₹	395.00	₹	47.40
S	d. Extra charges for CM for repairs after fixing hold fast, caffolding, transport to site etc.: @ 1.85% on total ex/cA".	1.85%	on	₹	12,204.70	₹	225.79
	e. Water charges & electricity charges : @ 1.50% on total ex/c "A".	1.5%	on	₹	12,430.49	₹	186.46
f.	Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	12,616.95	₹	378.51
						₹	12,995.46
Α	Add GST (multiplying factor)		0.1405			₹	1,825.86
	·					₹	14,821.32
Д	Add for contractor's profit and overheads	@	15%			₹	2,223.20
						₹	17,044.52
А	Add cess	@	1%			₹	170.45
					Total	₹	17,950.18
		Total cos	t for 1 Sqm.			₹	2,393.36
			-		Say,	₹	2,393.40

9.6.3 80x0.90 mm M.S. laths with 0.90 mm thick top cover.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a shutter of size 3mx2.5m = 7.5sqm.	Sqm.			
	a. Materials:				
09018	Rolling shutter	Sqm	7.50	₹ 1,100.00	₹ 8,250.00

09020	Top Cover	Metre	2.50	₹	330.00	₹	825.00
09002	Coiled type spring	Each	1	₹	310.00	₹	310.00
	Priming coat: 20 Sqm. Rate As per items No. 13.50.3. "A"	Sqm	20.00	₹	26.80	₹	536.00
	CC 1:3:6 to fix pin clamps Rate as per items No. 4.2.5 of SH:4 "A"	Cum.	0.064	₹	3,112.70	₹	199.21
	b. Carriage:						
	Carriage of materials	LS	7.00	₹	1.00	₹	7.00
	c. Labours:						
0215	Fitter (Grade 1)	Day	2.55	₹	440.00		1,122.00
0203	Beldar	Day	2.55	₹	310.00	₹	790.50
0219	Mason 1st Class	Day	0.12	₹	440.00	₹	52.80
0220	Mason 2nd class	Day	0.12	₹	395.00	₹	47.40
	d. Extra charges for CM for repairs after fixing hold fast, scaffolding, transport to site etc.: @ 2.00% on total ex/c "A".	2.0%	on	₹	11,404.70	₹	228.09
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	11,632.79	₹	174.49
	f. Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	11,807.28	₹	354.22
						₹	12,161.50
	Add GST (multiplying factor)		0.1405			₹	1,708.69
	January January					₹	
	Add for contractor's profit and overheads	@	15%			₹	2,080.53
						₹	
	Add cess	@	1%			₹	159.51
					Total	₹	
		Total cos	st for 1 Sqm.			₹	2,246.06
			•		Say,	₹	2,246.10

9.7 Providing and fixing ball bearing for rolling shutters (exceeding 10 sqm area) of approved make complete as required.

Code	Description	Unit	Quantity		Rate	/	Amount
	Details of cost for 1 No.	Each					
	a. Materials:						
09003	Ball bearing	Each	1	₹	270.00	₹	270.00
	b. Carriage:						
	Carriage of materials	LS	0.50	₹	1.00	₹	0.50
	c. Labours:						
0215	Fitter (Grade 1)	Day	0.10	₹	440.00	₹	44.00
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	314.50	₹	4.72
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	319.22	₹	9.58
						₹	328.80
	Add GST (multiplying factor)		0.1405			₹	46.20
						₹	375.00
	Add for contractor's profit and overheads	@	15%			₹	56.25
						₹	431.25
	Add cess	@	1%			₹	4.31
					Total	₹	435.56
					Say,	₹	435.60

- 9.8 Extra for providing & fixing mechanical device chain and crank operation for operating rolling shutters of approved make complete as required:-
- 9.8.1 Exceeding 10.00 sqm and upto 16.80 sqm in the area.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one sqm.	Sqm.			
	a. Materials:				
09006	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 10.00 sq.m and upto 16.80 sq.m area of door		1.00	₹ 800.00	₹ 800.00
	b. Carriage:				

	Carriage of materials	LS	0.50	₹	1.00	₹	0.50
	c. Labours:						
0215	Fitter (Grade 1)	Day	0.035	₹	440.00	₹	15.40
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	815.90	₹	12.24
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	828.14	₹	24.84
						₹	852.98
	Add GST (multiplying factor)		0.1405			₹	119.84
						₹	972.82
	Add for contractor's profit and overheads	@	15%			₹	145.92
						₹	1,118.74
	Add cess	@	1%			₹	11.19
					Total	₹	1,129.93
					Say,	₹	1,129.90

9.8.2 Exceeding 16.80 sqm in area.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for one sqm.	Sqm.				
	a. Materials:					
09007	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 16.80 sq.m area of door		1.00	₹ 800.00	₹	800.00
	b. Carriage:					
	Carriage of materials	LS	0.50	₹ 1.00	₹	0.50
	c. Labours:					
0215	Fitter (Grade 1)	Day	0.035	₹ 440.00	₹	15.40
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹ 815.90	₹	12.24
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹ 828.14	₹	24.84
					₹	852.98
	Add GST (multiplying factor)		0.1405		₹	119.84
					₹	972.82
	Add for contractor's profit and overheads	@	15%		₹	145.92
					₹	1,118.74
	Add cess	@	1%		₹	11.19
				Total	₹	1,129.93
				Say,	₹	1,129.90

9.9 Extra for providing & fixing grilled rolling shutters manufactured out of 8 mm dia. M.S. plain bar instead of laths as per design approved by Engineer-in-charge (area of grill to be measured) complete as required.

Code	Description	Unit	Quantity		Rate	A	Amount
	Details of cost for a shutter of width 2.5m and grill height 0.6m Grill Area = 1.50sqm.	Sqm.					
	a. Materials:						
09020	Extra for providing grilled rolling shutter manufactured out of 8mm dia. M.S. bar instead of laths	Sqm.	1.50	₹	330.00	₹	495.00
	b. Carriage:						
	(Already considered in original item)						
	c. Labours:						
	(Already considered in original item)						
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	495.00	₹	7.43
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	502.43	₹	15.07
						₹	517.50
	Add GST (multiplying factor)		0.1405			₹	72.71
						₹	590.21
	Add for contractor's profit and overheads	@	15%			₹	88.53
						₹	678.74
	Add cess	@	1%			₹	6.79
					Total	₹	685.53
		•			Say,	₹	685.50

9.10 Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.

9.10.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 17.50Kg.	Kg.					
	a. Materials:						
05056	(i) Tee iron 40x40x6mm = 2m+2m+1m = 5 metres 5 metres @3.5Kg/m = 17.5kg.+ Add wastage @ 5% = 0.87Kg. '= 18.37 kg. Say 0.18 qunital	QtI.	0.180	₹	4,700.00	₹	846.00
05038	(ii) M.S. bars 10mm = IxIm = 1 metre 1 metre @ 0.60kg/m = 0.60Kg.+ Add wastage @ 5% = 0.03Kg.'= 0.63 Kg. Say = 0.006 qunital	QtI.	0.006	₹	4,725.00	₹	28.35
05026	(iii) M.S. flat 15x3mm = 6x10cm = 0.60 metre @ 0.35kg/m = 0.21 Kg+ Add wastage @ 5% = 0.01 Kg. '= 0.22 kg.	QtI.	0.002	₹	4,725.00	₹	9.45
	Cement concrete block 1:3:6- 6x15x10x10cm= 0.009 cum (Rate as per item no.4.2.11of SH:4) ("A")	Cum.	0.009	₹	6,656.30	₹	59.91
08061	Butt hinges-100x58x 1.90mm	10 Nos	6.00	₹	90.00	₹	54.00
	For screws and nuts and bolts	L.S.	35.88	₹	1.26		45.21
	For applying steel primer	L.S.	17.94	₹	1.26	₹	22.60
	b. Carriage:						
	Carriage of materials	LS	5.33	₹	1.26	₹	6.72
	c. Labours: (for fixing in position)						
0207	Blacksmith 2nd class	Day	0.10	₹	395.00	₹	39.50
0215	Fitter (Grade 1)	Day	0.15	₹	440.00	₹	66.00
0203	Beldar	Day	0.20	₹	310.00	₹	62.00
	d. Cost for making frames, cement mortars 1:3 etc. @3% on total ex/c "A"	3%	on	₹	1,179.83	₹	35.39
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A"	1.5%	on	₹	1,215.22	₹	18.23
	f. Sundries & contingencies: @ 3% on total ex/c "A"	3%	on	₹	1,233.45	₹	37.00
						₹	1,270.45
	Add GST (multiplying factor)		0.1405			₹	178.50
	. 1 3 9 /					₹	1,448.95
	Add for contractor's profit and overheads	@	15%			₹	217.34
						₹	1,666.29
	Add cess	@	1%			₹	16.66
					Total	₹	1,742.86
		Total co	st for 1 Kg.			₹	99.59
			<u> </u>		Say,	₹	99.60

9.10.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 17.50Kg.	Kg.					
	a. Materials:						
05056	(i) Tee iron 40x40x6mm = 2m+2m+lm = 5 metres 5 metres @3.5Kg/m = 17.5kg.+ Add wastage @ 5% = 0.87Kg. '= 18.37 kg. Say 0.18 qunital	QtI.	0.180	₹	4,700.00	₹	846.00
05038	(ii) M.S. bars 10mm = IxIm = 1 metre 1 metre @ 0.60kg/m = 0.60Kg.+ Add wastage @ 5% = 0.03Kg.'= 0.63 Kg. Say = 0.006 qunital		0.006	₹	4,725.00	₹	28.35
08061	Butt hinges-100x58x 1.90mm	10 Nos	6.00	₹	90.00	₹	54.00
	For screws and nuts and bolts	L.S.	35.88	₹	1.26	₹	45.21
	For applying steel primer	L.S.	17.94	₹	1.26	₹	22.60
	b. Carriage:						
	Carriage of materials	LS	5.33	₹	1.26	₹	6.72
	c. Labours: (for fixing in position)						
0207	Blacksmith 2nd class	Day	0.10	₹	395.00	₹	39.50
0215	Fitter (Grade 1)	Day	0.15	₹	440.00	₹	66.00
0203	Beldar	Day	0.20	₹	310.00	₹	62.00
	d. Cost for making frames, cement mortars 1:3 etc. @ 3% on total	3%	on	₹	1,170.38	₹	35.11

e. Water charges & electricity charges: @ 1.50% on total	1.5%	on	₹	1,205.49	₹	18.08
f. Sundries & contingencies: @ 3% on total	3%	on	₹	1,223.57	₹	36.71
					₹	1,260.28
Add GST (multiplying factor)		0.1405			₹	177.07
					₹	1,437.35
Add for contractor's profit and overheads	@	15%			₹	215.60
					₹	1,652.95
Add cess	@	1%			₹	16.53
				Total	₹	1,669.48
	Total cost for 1 Kg.				₹	95.40
				Say,	₹	95.40

9.11 Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-in-Charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 17.50Kg.	Kg.					
	a. Materials:						
	(i) Tee iron $40x40x6mm = 2m+2m+lm = 5$ metres 5						
05056	metres @3.5Kg/m = 17.5kg.+ Add wastage @ 5% = 0.87Kg.	QtI.	0.180	₹	4,700.00	₹	846.00
	'= 18.37 kg. Say 0.18 qunital						
	(ii) M.S. Flats 3x5 mm for fixing frame 6x0.05= 0.3 Metre						
05026	@1.18 Kg/m= 0.354 Kg Add wastage @5% = 0.018 Kg	QtI.	0.0037	₹	4,725.00	₹	17.48
	Total= 0.37Kg. Say 0.0037 Qunital						
	(iii) M.S. bars 10mm = IxIm = 1 metre 1 metre @ 0.60kg/m						
05038	= 0.60Kg.+ Add wastage @ 5% = 0.03Kg.'= 0.63 Kg. Say =	QtI.	0.006	₹	4,725.00	₹	28.35
	0.006 qunital						
09022	Welding by electric plant	cm	16.00	₹	2.00	₹	3.20
	For applying steel primer	L.S.	17.94	₹	1.26	₹	22.60
	b. Carriage:						
	Carriage of materials	LS	5.33	₹	1.26	₹	6.72
	c. Labours: (for fixing in position)						
0207	Blacksmith 2nd class	Day	0.10	₹	395.00	₹	39.50
0215	Fitter (Grade 1)	Day	0.15	₹	440.00		66.00
0203	Beldar	Day	0.20	₹	310.00	₹	62.00
	d. Cost for making frames, cement mortars 1:3 etc. @ 3%	3%	on	₹	1,091.85	₹	32.76
	on total	370	OH	`	1,071.03	`	32.70
	e. Water charges & electricity charges: @ 1.50% on total	1.5%	on	₹	1,124.61	₹	16.87
		004	_	Ļ		_	
	f. Sundries & contingencies: @ 3% on total	3%	on	₹	1,141.48	₹	34.24
						₹	1,175.72
	Add GST (multiplying factor)		0.1405			₹	165.19
						₹	1,340.91
	Add for contractor's profit and overheads	@	15%			₹	201.14
						₹	1,542.05
	Add cess	@	1%			₹	15.42
					Total	₹	1,557.47
		Total co	ost for 1 Kg.			₹	89.00
					Say,	₹	89.00

9.12 Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.

9.12.1 Hot finished welded type tubes

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for a truss of span 8 metre weight = 119 kg.	Kg.			
	a. Materials:				

						_	
09013	Hot finished welded tubes: 50mm dia. Tube Tie beam-lx8.0m = 8.00m+ Principal rafter 2x4.30m = 8.60m '= 16.60m 16.60m @ 5.10kg./m = 84.66kg. 40mm dia. Tube Members = 2(0.45+1.25+0.90+2.15) '= 2x4.75=9.50m 9.50m @ 3.61kg/m = 34.60Kg. Total = 118.96kg.Add wastage @ 5% = 5.94Kg.'= 124.90Kg. say 125 kg	Kg.	125.00	₹	55.00	₹	6,875.00
09022	Welding in/c wages for welder	Cm	357.00	₹	2.00	₹	714.00
	Priming coat: 50mm dia. tube 16.60x0.157m = 1.61 sqm.40mm dia. tube 9.50x0.125m = 1.91 sqm.'= 2.80 sqm.(Rate as per item 12.33.3 of S.H. finishing) "A"	Sqm.	2.80	₹	26.80	₹	75.04
	b. Carriage:						
0468	Carriage of tubes	Tonne	0.125	₹	102.47	₹	12.81
	c. Labours: For cutting, assembling & erection						
0206	Blacksmith 1st class	Day	1.50	₹	440.00	₹	660.00
0201	Bandhani	Day	0.75	₹	310.00	₹	232.50
0203	Beldar	Day	5.50	₹	310.00	₹	1,705.00
	d. Cost for bolts, nuts,, washers, scaffolding, hoisting etc.@ 3% on total ex/c "A"	3%	on	₹	10,199.31	₹	305.98
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A"	1.5%	on	₹	10,505.29	₹	157.58
	f. Sundries & contingencies: @ 3% on total ex/c "A"	3%	on	₹	10,662.87	₹	319.89
						₹	10,982.76
	Add GST (multiplying factor)		0.1405			₹	1,543.08
						₹	12,525.84
	Add for contractor's profit and overheads	@	15%			₹	1,878.88
						₹	14,404.72
	Add cess	@	1%			₹	144.05
				İ	Total	₹	14,623.81
		Total co	st for 1 Kg.	İ		₹	122.89
			_		Say,	₹	122.90
_							

9.12.2 Hot finished seamless type tubes

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for a truss of span 8 metre weight = 119 kg.	Kg.					
	a. Materials:						
09012	Mild steel tubes hot finished seamless type: 50mm dia. Tube Tie beam-lx8.0m = 8.00m+ Principal rafter 2x4.30m = 8.60m '= 16.60m 16.60m @ 5.10kg./m = 84.66kg. 40mm dia. Tube Members = 2(0.45+1.25+0.90+2.15) '= 2x4.75=9.50m 9.50m @ 3.61kg/m = 34.60Kg. Total = 118.96kg.Add wastage @ 5% = 5.94Kg.'= 124.90Kg. say 125 kg	Kg.	125.00	₹	65.00	₹	8,125.00
09022	Welding	Cm	357.00	₹	2.00	₹	714.00
	Priming coat: 50mm dia. tube 16.60x0.157m = 1.61 sqm.40mm dia. tube 9.50x0.125m = 1.91 sqm.'= 2.80 sqm.(Rate as per item 12.33.3 of S.H. finishing) "A"	Sqm.	2.80	₹	26.80	₹	75.04
	b. Carriage:						
0468	Carriage of tubes	Tonne	0.125	₹	102.47	₹	12.81
	c. Labours: For cutting, assembling & erection						
0206	Blacksmith 1st class	Day	1.50	₹	440.00		660.00
0201	Bandhani	Day	0.75	₹	310.00	₹	232.50
0203	Beldar	Day	5.50	₹	310.00	₹	1,705.00
	d. Cost for bolts, nuts,, washers, scaffolding, hoisting etc.@ 3% on total ex/c "A"	3%	on	₹	11,449.31	₹	343.48
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A"	1.5%	on	₹	11,792.79	₹	176.89
	f. Sundries & contingencies: @ 3% on total ex/c "A"	3%	on	₹	11,969.68		359.09
	Add CCT (southing the section)		0.1.105			_	12,328.77
	Add GST (multiplying factor)		0.1405	_		₹	1,732.19
			4.50/			-	14,060.96
	Add for contractor's profit and overheads	@	15%			₹	2,109.14
		_	101			_	16,170.10
	Add cess	@	1%			₹	161.70
					Total	₹	16,406.84

	Total cost for 1 Kg.		₹	137.87
		Sav	₹	137 90

9.12.3 Electric resistance or induction butt welded tubes.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for a truss of span 8 metre weight = 119 kg.	Kg.					
	a. Materials:						
09011	Electric resistance or Induction on butt welded tubes: 50mm dia. Tube Tie beam-lx8.0m = 8.00m+ Principal rafter 2x4.30m = 8.60m '= 16.60m 16.60m @ 5.10kg./m = 84.66kg. 40mm dia. Tube Members = 2(0.45+1.25+0.90+2.15) '= 2x4.75=9.50m 9.50m @ 3.61kg/m = 34.60Kg. Total = 118.96kg.Add wastage @ 5% = 5.94Kg.'= 124.90Kg. say 125 kg	Kg.	125.00	₹	55.00		6,875.00
09022	Welding	Cm	357.00	₹	2.00	₹	714.00
	Priming coat: 50mm dia. tube 16.60x0.157m = 1.61 sqm.40mm dia. tube 9.50x0.125m = 1.91 sqm.'= 2.80 sqm.(Rate as per item 12.33.3 of S.H. finishing) "A"	Sqm.	2.80	₹	26.80	₹	75.04
	b. Carriage:						
0468	Carriage of tubes	Tonne	0.125	₹	102.47	₹	12.81
	c. Labours: For cutting, assembling & erection						
0206	Blacksmith 1st class	Day	1.50	₹	440.00		660.00
0201	Bandhani	Day	0.75	₹	310.00		232.50
0203	Beldar	Day	5.50	₹	310.00	₹	1,705.00
	d. Cost for bolts, nuts,, washers, scaffolding, hoisting etc.@ 3% on total ex/c "A"	3%	on	₹	10,199.31	₹	305.98
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A"	1.5%	on	₹	10,505.29	₹	157.58
	f. Sundries & contingencies: @ 3% on total ex/c "A"	3%	on	₹	10,662.87	₹	319.89
	A 11 00T (111 1 1 1 5 1 1)		0.1.6=	<u> </u>		₹	- 1
	Add GST (multiplying factor)		0.1405	<u> </u>		₹	1,543.08
			1.50/	<u> </u>		₹	12,525.84
	Add for contractor's profit and overheads	@	15%	<u> </u>		₹	1,878.88
			4.07	<u> </u>		₹	14,404.72
	Add cess	@	1%	<u> </u>	-	₹	144.05
		T-4-1	-1.5 4.16	<u> </u>	Total	₹	- 1
		l otal co	st for 1 Kg.	<u> </u>	C	₹	122.89
					Say,	₹	122.90

9.13 Providing and fixing fan clamp type-I of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs during laying including painting the exposed portion of loop, all as per standard design complete.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 clamp	Each					
	a. Materials:						
05039	16mm dia. M.S. bar 1m @ 1.58 kg/m 1x1.58 = 1.58Kg+Add wastage @ 5% = 0.08 Kg.'= 1.66 Kg.	QtI.	0.0166	₹	4,620.00	₹	76.69
	Priming coat & painting: (Rate as per item 12.33.3 of S.H. finishing) "A"	Sqm.	0.025	₹	26.80	₹	0.67
	b. Carriage:						
0468	Carriage of bars	Tonne	0.00166	₹	102.47	₹	0.17
	c. Labours:						
0207	Blacksmith 2nd class	Day	0.040	₹	395.00	₹	15.80
0203	Beldar	Day	0.040	₹	310.00	₹	12.40
	d. Cost for scaffolding, etc. @ 0.5% on total ex/c "A"	0.5%	on	₹	105.06	₹	0.53
	e. Water charges: @ 1% on total ex/c "A"	1%	on	₹	105.59	₹	1.06
	f. Sundries & contingencies: @ 3% on total ex/c "A"	3%	on	₹	106.65	₹	3.20
						₹	109.85
	Add GST (multiplying factor)		0.1405			₹	15.43
						₹	125.28

Add for contractor's profit and overheads	@	15%		₹	18.79
				₹	144.07
Add cess	@	1%		₹	1.44
	Total cost for 1 No.		Total	₹	146.18
		_	Say,	₹	146.20

9.14 Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 12mm dia M.S. bar bent to shape, including painting the exposed portion as per standard drawing complete as required (provided incase of low ceiling height).

Code	Description	Unit	Quantity		Rate	,	Amount
	Details of cost of one box clamp	Each					
	a. Materials:						
09005	Circular C.I. Box including bottom and top lids	Each	1.000	₹	53.00	₹	53.00
05038	12mm dia. M.S. bar 80cm @ 0.9kg/m - 0.72kg+ Add wastage @ 5% = 0.0360 Total=0.756 kg. Say 0.008 q	quintal	0.008	₹	4,725.00	₹	37.80
	b. Labours:						
0207	Blacksmith 2nd class	Day	0.030	₹	395.00	₹	11.85
0203	Beldar	Day	0.030	₹	310.00	₹	9.30
	c. Cost for carriage, priming coat & painting, scaffolding for fixing, etc. @ 2% on total	2%	on	₹	111.95	₹	2.24
	d. Water charges: @ 1.0% on total.	1%	on	₹	114.19	₹	1.14
	e. Sundries (carriage, fixing, painting etc) & contingencies: @ 3% on total.	3%	on	₹	115.33	₹	3.46
						₹	118.79
	Add GST (multiplying factor)		0.1405			₹	16.69
						₹	135.48
	Add for contractor's profit and overheads	@	15%			₹	20.32
						₹	155.80
	Add cess	@	1%			₹	1.56
					Total	₹	157.36
		Total co	st for 1 Kg.			₹	157.36
					Say,	₹	157.40

- 9.15 Steel work welded in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using steel etc. complete as required:-
- 9.15.1 In stringers, treads, landing etc. of stair cases including use of chequered plate wherever required, all complete.

Code	Description	Unit	Quantity	Rate	Amount
	Consider a flight of staircase of 2.8m height with tread and riser of 200mm & 0.60m wide.	Kg.			
	a. Materials:				
05056	(i) Unequal angles as stringers-75x50x6mm 4x12.69x5.6 = 284.25 Kg. Add wastage @ 5% =14.21 Kg.'= 298.46kg. Say 2.985q (ii) unequal angles at sides 50x30x5mm 2x14x0.2x3.00=16.8kg. Add wastage @ 5% = 0.84kg.'= 17.64 kg. Say 0.176q = 3.161q	QtI.	3.161	₹ 4,700.00	₹ 14,856.70
05036	(iii) Plate for tread 8mm thick 14x7.5= 105.00kg+14x7.5= 105.00kg+Add wastage @ 5% = 5.25kg.'= 110.25kg. Say 1.103q		1.103	₹ 4,950.00	₹ 5,459.85
19032	(iv) G.I pipe for railing 40mm 2xI2.69m = 25.38m+Add wastage @ 5% = 1.27m = 26.65m	Metre	26.65	₹ 250.00	₹ 6,662.50
05039	(v) M.S. round bars 16mm dia.15x0.75x2xl.58 = 35.55kg.+Add wastage @ 5% = 1.78kg.'= 37.33 Kg. Say 0.373q		0.373	₹ 4,620.00	₹ 1,723.26

	Applying priming coat(i) steps 2.4x 14 = 33.60sqm.+(ii) angles 4x 12.69x0.25 = 12.69sqm.+(iii) Bars and other components = 2.00 sqm.(L.S.)(A) (Rate as per item no. 12.33.3)		48.29	₹	26.80	₹	1,294.17
09022	Welding charge (electric) 23.20m	Cm.	2320.00	₹	2.00	₹	4,640.00
	b. Carriage:						
0468	Carriage of materials	Tonne	0.4637	₹	102.47	₹	47.52
0427	Carriage of GI pipes 3.72x26.65=99.14kg.	Tonne	0.0990	₹	102.47	₹	10.14
	c. Labours:						
0206	Blacksmith 1st class	day	1.85	₹	440.00	₹	814.00
0203	Beldar	day	1.25	₹	310.00	₹	387.50
0201	Bandhani	day	0.60	₹	310.00	₹	186.00
	 d. Cost for bolts, nuts, special type of washers, transport to site, scaffolding for fixing/ hoisting materials etc. @ 2% on total 	2%	on	₹	34,787.47	₹	695.75
	d. Water charges & electricity charges: @ 1.50% on total	1.5%	on	₹	35,483.22	₹	532.25
	e. Sundries & contingencies: @ 3% on total	3%	on	₹	36,015.47	₹	1,080.46
						₹	38,390.10
	Add GST (multiplying factor)		0.1405			₹	5,393.81
						_	43,783.91
	Add for contractor's profit and overheads	@	15%			₹	6,567.59
	Add aggs	@	1%			₹	50,351.50
	Add cess Cost of 5.331 qunital	w	1 70	\vdash	Total	₹	503.52
	Cost of 5.551 quilital	Total co	st for 1 Kg.	\vdash	TUTAL	₹	95.39
					Say,	₹	95.40

9.15.2 In grating, frames, guard bar, railing, brackets, gates and similar works, all complete.

9.13.2	in grating, frames, guard bar, rannig, brackets, gates and			p.			
Code	Description	Unit	Quantity		Rate		Amount
	Details of Im x Im framed guard bar grating.	Kg.					
	a. Materials:						
05026	(i) M.S. flat 50x6 mm 2.4kg/per metre5.75x2.40 = 13.8kg. + Add wastage@'= 0.69kg., Total =14.49kg. say 14.5 kg.	QtI.	0.145	₹	4,725.00	₹	685.13
05038	(ii) 12mm dia. Bars @ 0.89 kg/m9x1 = 9 metre @ 0.89kg/m = 8.01 kg+Addwastage @ 5% = 0.40kg. Total=8.41 kg.say 0.084q	QtI.	0.084	₹	4,725.00	₹	396.90
09022	Welding charges (electric) 60cm	Cm.	60.00	₹	2.00	₹	120.00
	Applying priming coat 0.60 sqm (Rate as per item no. 12.33.3 "A"	Sqm.	0.60	₹	26.80	₹	16.08
	b. Carriage:						
0468	Carriage of materials	Tonne	0.0229	₹	102.47	₹	2.35
	c. Labours:						
0206	Blacksmith 1st class	day	0.70	₹	440.00		308.00
0203	Beldar	day	0.50	₹	310.00		155.00
0201	Bandhani	day	0.25	₹	310.00	₹	77.50
	 d. Cost for bolts, nuts, special type of washers, transport to site, scaffolding for fixing/ hoisting materials etc. @ 2% on total 	2%	on	₹	1,742.53	₹	34.85
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	1,777.38	₹	26.66
	f. Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	1,804.04	₹	54.12
						₹	1,860.51
	Add GST (multiplying factor)		0.1405			₹	261.40
						₹	2,121.91
	Add for contractor's profit and overheads	@	15%			₹	318.29
						₹	2,440.20
	Add cess	@	1%			₹	24.40
	Cost of 0.218 qunital				Total	₹	2,480.68
	·	Total co	st for 1 Kg.			₹	113.79

Say, ₹ 113.80

9.16 Providing and fixing hand rail using structural steel etc. of approved size by welding etc. to steel ladder railing, balcony railing and staircase railing etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer complete as required:-

9.16.1 M.S. tube

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for hand rail of railing of twoflights of staircase, length of hand rail =5.40m	Kg.					
	a. Materials:						
09013	M.S. tube 40mm nominal bore (medium) =5.40m @ 3.6lkg/m= 19.49kg Add wastage @ 5% =0.097Total = 20.46 kg.	Kg.	20.46	₹	55.00	₹	1,125.30
09022	Welding charges (joints of hand rail and ballustards) 18x4x1.00 = 72cm	Cm.	72.00	₹	2.00	₹	144.00
	Priming coat 40mmdia.Tube-5.4x22/7x0.0483= 0.82 sqm Rate as per item no 12.33.3 SH Finishing "A"	Sqm.	0.82	₹	26.80	₹	21.98
	b. Carriage:						
0468	Carriage of materials	Tonne	0.0205	₹	102.47	₹	2.10
	c. Labours:for cutting assembling & erection						
0206	Blacksmith 1st class	day	0.240	₹	440.00	₹	105.60
0203	Beldar	day	0.900	₹	310.00	₹	279.00
0201	Bandhani	day	0.120	₹	310.00	₹	37.20
	d. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	1,693.20	₹	25.40
	e. Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	1,718.60	₹	51.56
						₹	1,770.16
	Add GST (multiplying factor)		0.1405			₹	248.71
			4.50/			₹	2,018.87
	Add for contractor's profit and overheads	@	15%			₹	302.83 2,321.70
	Add cess	@	1%			₹	23.22
	Cost of 19.49		170		Total	₹	2,366.90
		Total co	st for 1 Kg.			₹	121.44
					Say,	₹	121.40

9.16.2 E.R.W. tubes.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for hand rail of railing of twoflights of staircase, length of hand rail =5.40m	Kg.					
	a. Materials:						
09011	E.R.W. tube 40mm nominal bore = 5.40m @3.28kg/m= 17.31kgAdd wastage @ 5% = 0.88 kgTotal = 18.59 kg	Kg.	18.59	₹	55.00	₹	1,022.45
09022	Welding charges (joints of hand rail andballustards) 18x4x1.00 = 72cm	Cm.	72.00	₹	2.00	₹	144.00
	Priming coat 40mmdia.Tube-5.4x22/7x0.0483= 0.82 sqmRate as per item no 12.33.3 SH Finishing "A"	Sqm.	0.82	₹	26.80	₹	21.98
	b. Carriage:						
0468	Carriage of materials	Tonne	0.0186	₹	102.47	₹	1.91
	c. Labours:for cutting assembling & erection						
0206	Blacksmith 1st class	day	0.240	₹	440.00	₹	105.60
0203	Beldar	day	0.900	₹	310.00	₹	279.00
0201	Bandhani	day	0.120	₹	310.00	₹	37.20
	d. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	1,590.16	₹	23.85
	e. Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	1,614.01	₹	48.42
					·	₹	1,662.43
	Add GST (multiplying factor)		0.1405			₹	233.57

				₹	1,896.00
Add for contractor's profit and overheads	@	15%		₹	284.40
				₹	2,180.40
Add cess	@	1%		₹	21.80
Cost of 17.71 Kg.			Total	₹	2,224.18
	Total cost for 1 Kg.			₹	125.59
			Say,	₹	125.60

9.16.3 G.I.pipes.

9.16.3 Code	O.I.pipes. Description	Unit	Quantity		Rate		Amount
3040	Details of cost for hand rail of railing of two flights of staircase, length of hand rail =5.40m		Quartity		Rato		7 timodini
	a. Materials:						
19032	G.I. pipe 40mm nominal bore = 5.40m Add wastage @ 5% = 0.27m Total = 5.67m	Metre	5.67	₹	250.00	₹	1,417.50
09022	Welding charges (joints of hand rail andballustards) 18x4x1.00 = 72cm	Cm.	72.00	₹	2.00	₹	144.00
	Priming coat 40mmdia.Tube-5.4x22/7x0.0483 = 0.82 sqmRate as per item no 12.33.3 SH Finishing "A"	Sqm.	0.82	₹	26.80	₹	21.98
	b. Carriage:						
0427	Carriage of pipe (5.67m @ 3.72 kg/m =21.09kg)	tonne	0.0211	₹	102.47	₹	2.16
	c. Labours:for cutting assembling & erection						
0206	Blacksmith 1st class	day	0.240	₹	440.00		105.60
0203	Beldar	day	0.900	₹	310.00	_	279.00
0201	Bandhani	day	0.120	₹	310.00	₹	37.20
	d. Water charges & electricity charges: @ 1.50% on total ex/c "A".	1.5%	on	₹	1,985.46	₹	29.78
	e. Sundries & contingencies: @ 3% on total ex/c "A".	3%	on	₹	2,015.24	₹	60.46
						₹	2,075.70
	Add GST (multiplying factor)		0.1405			₹	291.64
						₹	2,367.34
	Add for contractor's profit and overheads	@	15%			₹	355.10
						₹	2,722.44
	Add cess	@	1%			₹	27.22
	Cost of 20.09 Kg.				Total	₹	2,771.64
		Total co	st for 1 Kg.			₹	137.96
					Say,	₹	138.00

9.17 Providing and fixing M.S. round holding down bolts with nuts and wahser plates complete as per standard design.

Code	Description	Unit	Quantity		Rate	A	Amount
	Details of cost for one bolt 16mm dia. And 1200mm long(0.024 quintal)	Kg.					
	a. Materials:						
05017	1.20m @ 1.58kg/m = 1.895 kg = 0.019q	quintal	0.019	₹	5,040.00	₹	95.76
05036	Plate-100xl00x6mm @ 47kg/sqm.Wt. = 0.47kg. = 0.005q	quintal	0.005	₹	4,950.00	₹	24.75
	b. Carriage:						
0468	Carriage of materials	Tonne	0.002	₹	102.47	₹	0.25
	c. Labours:						
0207	Blacksmith 2nd class	day	0.030	₹	395.00	₹	11.85
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	132.61	₹	1.99
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	134.60	₹	4.04
						₹	138.64
	Add GST (multiplying factor)		0.1405			₹	19.48
						₹	158.12
	Add for contractor's profit and overheads	@	15%			₹	23.72
						₹	181.84
	Add cess	@	1%		•	₹	1.82
	Cost of 0.024q				Total	₹	183.66
		Total co	st for 1 Kg.			₹	76.53
					Say,	₹	76.50

9.18 Providing and fixing MS bolts including nuts and washers complete as per standard design:-

9.18.1 Upto 300mm length.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 0.10q of nuts and washers	Kg.			
	a. Materials:				
05017	Bolts, nuts and washers	quintal	0.100	₹ 5,040.00	₹ 504.00

	b. Carriage:						
0468	Carriage of materials	Tonne	0.010	₹	102.47	₹	1.02
	c. Labours:						
0207	Blacksmith 2nd class	day	0.380	₹	395.00	₹	150.10
0203	Beldar	day	0.380	₹	310.00	₹	117.80
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	772.92	₹	11.59
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	784.51	₹	23.54
						₹	808.05
	Add GST (multiplying factor)		0.1405			₹	113.53
						₹	921.58
	Add for contractor's profit and overheads	@	15%			₹	138.24
						₹	1,059.82
	Add cess	@	1%			₹	10.60
	Cost of 0.10q				Total	₹	1,070.42
		Total co	st for 1 Kg.			₹	107.04
			•		Say,	₹	107.00

9.18.2 Above 300mm length.

9.18.2	Above 300mm length.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 0.10q of nuts and washers	Kg.					
	a. Materials:						
05016	Bolts, nuts and washers	quintal	0.100	₹	5,350.00	₹	535.00
	b. Carriage:						
0468	Carriage of materials	Tonne	0.010	₹	102.47	₹	1.02
	c. Labours:						
0207	Blacksmith 2nd class	day	0.380	₹	395.00	₹	150.10
0203	Beldar	day	0.380	₹	310.00	₹	117.80
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	803.92	₹	12.06
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	815.98	₹	24.48
						₹	840.46
	Add GST (multiplying factor)		0.1405			₹	118.08
						₹	958.54
	Add for contractor's profit and overheads	@	15%			₹	143.78
						₹	1,102.32
	Add cess	@	1%			₹	11.02
	Cost of 0.10q				Total	₹	1,113.34
		Total co	st for 1 Kg.			₹	111.33
					Say,	₹	111.30

9.19 Providing and fixing M.S. rivets of sizes in position complete as per standard design.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 0.10q of rivets	Kg.					
	a. Materials:						
05037	Rivets	quintal	0.10	₹	5,120.00	₹	512.00
	b. Carriage:						
0468	Carriage of materials	Tonne	0.01	₹	102.47	₹	1.02
	c. Labours:						
0215	Fitter (Grade I)	day	0.83	₹	440.00	₹	365.20
0204	Beldar Skilled	day	0.83	₹	355.00	₹	294.65
	d. Water charges & electricity charges: @ 3% on total.	3%	on	₹	1,172.87	₹	35.19
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	1,208.06	₹	36.24
						₹	1,244.30
	Add GST (multiplying factor)		0.1405			₹	174.82
						₹	1,419.12
	Add for contractor's profit and overheads	@	15%			₹	212.87
						₹	1,631.99
	Add cess	@	1%			₹	16.32
	Cost of 0.10q				Total	₹	1,648.31
		Total co	st for 1 Kg.			₹	164.83
			·		Say,	₹	164.80

9.20 Welding by gas or electric plant including transportion of plant at site etc. complete as per standard design.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for one cm.	Cm				
	a. Materials:					
09023	Welding by gas /electric plant in/c wages for welder.	cm	1.00	₹ 2.	.00	2.00
	b. Carriage:					
0468	Carriage of materials		(Already incl	uded)		
	c. Labours:		(Already incl	uded)		
	d. Extra for transportation of welding plant at site: @ 5% on total.	5%	on	₹ 2.	.00 ₹	₹ 0.10
	e. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹ 2.	.10 ₹	0.03
	f. Sundries & contingencies: @ 3% on total.	3%	on	₹ 2.	.13 ₹	0.06
					₹	
	Add GST (multiplying factor)		0.1405		₹	0.31
					₹	₹ 2.50
	Add for contractor's profit and overheads	@	15%		₹	₹ 0.38
					₹	₹ 2.88
	Add cess	@	1%		₹	₹ 0.03
				Total	₹	₹ 2.91
			•	Say,	₹	₹ 2.90

9.21 Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame, concrete/ masonry, etc. as per direction of Engineer-in-charge.

9.21.1 10 x 60 mm

7.21.1	10 X 00 IIIIII			Doto		A a	
Code	Description	Unit	Quantity		Rate	F	Amount
	Details of cost for 10 nos.	each					
	a. Materials:						
09024	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10mm x 60mm	10 Nos	10	₹	260.00	₹	260.00
	b. Carriage:						
	Carriage of materials @ 1% on total.	1%	on	₹	260.00	₹	2.60
	c. Labours:						
0220	Mason (brick layer) 2nd class	day	0.400	₹	395.00	₹	158.00
0203	Beldar	day	0.400	₹	310.00	₹	124.00
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	544.60	₹	8.17
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	552.77	₹	16.58
						₹	569.35
	Add GST (multiplying factor)		0.1405			₹	79.99
						₹	649.34
	Add for contractor's profit and overheads	@	15%			₹	97.40
						₹	746.74
	Add cess	@	1%			₹	7.47
	Cost of 10 Nos.				Total	₹	754.21
		Total co	st for 1 No.			₹	75.42
					Say,	₹	75.40

9.21.2 10 x 80 mm

Code	Description	Unit	Quantity	F	Rate		Amount
	Details of cost for 10 nos.	each					
	a. Materials:						
09025	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10mm x 80mm	10 Nos	10	₹	310.00	₹	310.00
	b. Carriage:						
	Carriage of materials @ 1% on total.	1%	on	₹	310.00	₹	3.10
	c. Labours:						

0220	Mason (brick layer) 2nd class	day	0.400	₹	395.00	₹	158.00
0203	Beldar	day	0.400	₹	310.00	₹	124.00
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	595.10	₹	8.93
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	604.03	₹	18.12
						₹	622.15
	Add GST (multiplying factor)		0.1405			₹	87.41
						₹	709.56
	Add for contractor's profit and overheads	@	15%			₹	106.43
						₹	815.99
	Add cess	@	1%			₹	8.16
	Cost of 10 Nos.				Total	₹	824.15
		Total co	ost for 1 No.			₹	82.42
					Say,	₹	82.40

9.21.3 10 x 120 mm

Code	Description	Unit	Quantity		Rate		Amount
2340	Details of cost for 10 nos.	each	<u> </u>				
	a. Materials:						
09026	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10mm x 120mm	10 Nos	10	₹	370.00	₹	370.00
	b. Carriage:						
	Carriage of materials @ 1% on total.	1%	on	₹	370.00	₹	3.70
	c. Labours:						
0220	Mason (brick layer) 2nd class	day	0.500	₹	395.00	₹	197.50
0203	Beldar	day	0.500	₹	310.00	₹	155.00
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	726.20	₹	10.89
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	737.09	₹	22.11
						₹	759.20
	Add GST (multiplying factor)		0.1405			₹	106.67
						₹	865.87
	Add for contractor's profit and overheads	@	15%			₹	129.88
						₹	995.75
	Add cess	@	1%			₹	9.96
	Cost of 10 Nos.				Total	₹	1,005.71
		Total co	st for 1 No.			₹	100.57
					Say,	₹	100.60

9.21.4 10 x 140 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 nos.	each					
	a. Materials:						
09027	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10mm x 140mm		10	₹	460.00	₹	460.00
	b. Carriage:						
	Carriage of materials @ 1% on total.	1%	on	₹	460.00	₹	4.60
	c. Labours:						
0220	Mason (brick layer) 2nd class	day	0.500	₹	395.00	₹	197.50
0203	Beldar	day	0.500	₹	310.00	₹	155.00
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	817.10	₹	12.26
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	829.36	₹	24.88
						₹	854.24
	Add GST (multiplying factor)		0.1405			₹	120.02
						₹	974.26
	Add for contractor's profit and overheads	@	15%			₹	146.14
						₹	1,120.40
	Add cess	@	1%			₹	11.20
	Cost of 10 Nos.				Total	₹	1,131.60
		Total co	st for 1 No.			₹	113.16
					Say,	₹	113.20

9.21.5 10 x 160 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 nos.	each					
	a. Materials:						
09028	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10mm x 160mm	10 Nos	10	₹	580.00	₹	580.00
	b. Carriage:						
	Carriage of materials @ 1% on total.	1%	on	₹	580.00	₹	5.80
	c. Labours:						
0220	Mason (brick layer) 2nd class	day	0.600	₹	395.00	₹	237.00
0203	Beldar	day	0.600	₹	310.00	₹	186.00
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	1,008.80	₹	15.13
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	1,023.93	₹	30.72
						₹	1,054.65
	Add GST (multiplying factor)		0.1405			₹	148.18
						₹	1,202.83
	Add for contractor's profit and overheads	@	15%			₹	180.42
						₹	1,383.25
	Add cess	@	1%			₹	13.83
	Cost of 10 Nos.				Total	₹	1,397.08
		Total co	st for 1 No.			₹	139.71
					Say,	₹	139.70

9.22 Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, including fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 2kg	each					
	a. Materials:						
09029	Qty= 2kg + Add wastage @ 5% = 0.10 Total = 2.1 kg Stainless steel (Grade-304) hollow section round/square tubes	kg	2.10	₹	225.00	₹	472.50
09030	Stainless steel bolts/square bar and plates	kg	1.00	₹	120.00	₹	120.00
	b. Carriage:						
	Carriage of materials @ 1% on total.	1%	on	₹	592.50	₹	5.93
	c. Labours: For fabrication, assembling, errection, welding, curvaturing, grinding, buffling etc.						
0206	Blacksmith 1st class	day	0.060	₹	440.00	₹	26.40
0203	Beldar	day	0.200	₹	310.00		62.00
0201	Bandhani	day	0.020	₹	310.00	₹	6.20
	d. Welding charges: @ 1.50% on total.	6%	on	₹	693.03	₹	41.58
	e. Curvaturing, grinding, finishing, buffing charges: @ 1.50% on total.	5%	on	₹	693.03	₹	34.65
	f. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	769.26	₹	11.54
	h. Sundries & contingencies: @ 3% on total.	3%	on	₹	780.80	₹	23.42
						₹	804.22
	Add GST (multiplying factor)		0.1405			₹	112.99
						₹	917.21
	Add for contractor's profit and overheads	@	15%			₹	137.58
						₹	1,054.79
	Add cess	@	1%			₹	10.55
	Cost of 2 kg				Total	₹	1,065.34
		Total c	ost for 1 kg			₹	532.67
					Say,	₹	532.70

^{9.23} Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.

9.23.1 Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides

Code	Description	Unit	Quantity	Rate			Amount
	Details of cost for a window shutter 1.40x1.10=1.54 sqm	sqm					
	a. Materials:						
09031	Wire gauze 1.40x1.10=1.54 sqm Add wastage @ 10 %=0.15 sqm Total=1.69 sqm Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	cam	1.69	₹	260.00	₹	439.40
05026	M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre Add wastage @ 5%=0.25 m Total=5.25 m 5.25@0.35kg/m=1.84 kg Flats upto 10 mm in thickness	qtl.	0.018	₹	4,725.00	₹	85.05
	b. Carriage:						
	Carriage of materials @ 1% on total.	1%	on	₹	524.45	₹	5.24
	c. Labours:						
0207	Blacksmith 2nd class	day	0.340	₹	395.00	₹	134.30
0203	Beldar	day	0.060	₹	310.00	₹	18.60
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	682.59	₹	10.24
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	692.83	₹	20.78
						₹	713.61
	Add GST (multiplying factor)		0.1405			₹	100.26
						₹	813.87
	Add for contractor's profit and overheads	@	15%			₹	122.08
						₹	935.95
	Add cess	@	1%			₹	9.36
	Cost of 1.54 sqm				Total	₹	945.31
	·	Total co	st for 1 sqm			₹	613.84
					Say,	₹	613.80

9.23.2 Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for a window shutter 1.40x1.10=1.54 sqm	sqm					
	a. Materials:						
09032	Wire gauze 1.40x1.10=1.54 sqm Add wastage @ 10 %=0.15 sqm Total=1.69 sqm Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	cam	1.69	₹	520.00	₹	878.80
05026	M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre Add wastage @ 5%=0.25 m Total=5.25 m 5.25@0.35kg/m=1.84 kg Flats upto 10 mm in thickness		0.018	₹	4,725.00	₹	85.05
	b. Carriage:						
	Carriage of materials @ 1% on total.	1%	on	₹	524.45	₹	5.24
	c. Labours:						
0207	Blacksmith 2nd class	day	0.340	₹	395.00		134.30
0203	Beldar	day	0.060	₹	310.00	₹	18.60
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	1,121.99	₹	16.83
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	1,138.82	₹	34.16
						₹	1,172.98
	Add GST (multiplying factor)		0.1405			₹	164.80
						₹	1,337.78
	Add for contractor's profit and overheads	@	15%			₹	200.67
						₹	1,538.45
	Add cess	@	1%			₹	15.38
	Cost of 1.54 sqm				Total	₹	1,553.83
		Total co	st for 1 sqm			₹	1,008.98
					Say,	₹	1,009.00

9.24 Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with:

9.24.1 4.0 mm thick glass panes

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 glass panes (area of each pane = 0.10 sqm)	sqm			

	a. Materials:						
08146	Area of glass panes =1.00 sqm + Add wastage @ 10% = 0.10 Total =1.10 sqm Area of glass panes =1.00 sqm + Add wastage @ 10% = 0.10 Total =1.10 sqm Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.10	₹	400.00	₹	440.00
	b. Carriage:						
	Carriage of materials @ 1% on total.	1%	on	₹	440.00	₹	4.40
	c. Labours:						
0217	Glazier	day	0.130	₹	440.00	₹	57.20
	d. Water charges: @ 1.0% on total.	1.0%	on	₹	501.60	₹	5.02
	e. Sundries & contingencies in/c putty, glazing clips, scaffolding @ 25% on total.	25%	on	₹	506.62	₹	126.66
						₹	633.28
	Add GST (multiplying factor)		0.1405			₹	88.98
	, , ,		1			₹	722.26
	Add for contractor's profit and overheads	@	15%			₹	108.34
	·					₹	830.60
	Add cess	@	1%			₹	8.31
	Cost of 1.00 sqm		1		Total	₹	838.91
	·	Total co	st for 1 sqm			₹	838.91
					Say,	₹	838.90

9.24.2 5.5 mm thick glass panes

9.24.2	5.5 mm trick grass paries		_				
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 glass panes (area of each pane = 0.10	cam					
	sqm)	sqm					
	a. Materials:						
	Area of glass panes =1.00 sqm + Add wastage @ 10% =						
	0.10 Total =1.10 sqm						
08147	Area of glass panes =1.00 sqm + Add wastage @ 10% =	0.01.00	1.10	₹	EEO 00	₹	40E 00
08147	0.10 Total =1.10 sqm	sqm	1.10	<	550.00	`	605.00
	Float glass sheet of nominal thickness 5.5 mm.(weight not						
	less than 13.50 kg/sqm						
	b. Carriage:						
	Carriage of materials @ 1% on total.	1%	on	₹	605.00	₹	6.05
	c. Labours:						
0217	Glazier	day	0.130	₹	440.00	₹	57.20
	d. Water charges: @ 1.0% on total.	1.0%	on	₹	668.25	₹	6.68
	e. Sundries & contingencies in/c putty, glazing clips,	25%	on	₹	674.93	₹	168.73
	scaffolding @ 25% on total.	25%	on	<	074.93	Υ .	100.73
						₹	843.66
	Add GST (multiplying factor)		0.1405			₹	118.53
						₹	962.19
	Add for contractor's profit and overheads	@	15%			₹	144.33
						₹	1,106.52
	Add cess	@	1%			₹	11.07
	Cost of 1.00 sqm				Total	₹	1,117.59
		Total co	st for 1 sqm			₹	1,117.59
					Say,	₹	1,117.60

9.25 Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.

Code	Description	Unit	Quantity	F	Rate		Amount
	Detail of cost for 1 metre beading for doors, windows,	metre					
	Ventilators and composit units	metre					
	a. Materials:						
09033	Steel beading size 10 x 10 x 1.6 mm (box type)	metre	1.00	₹	28.00	₹	28.00
	Applying priming coat	LS	0.460	₹	1.26	₹	0.58
	Fixing charges	LS	3.010	₹	1.26	₹	3.79
	c. Water charges: @ 1.0% on total.	1.0%	on	₹	32.37	₹	0.32
	d. Sundries & contingencies @ 3% on total.	3%	on	₹	32.69	₹	0.98
						₹	33.67
	Add GST (multiplying factor)		0.1405			₹	4.73
					·	₹	38.40

Add for contractor's profit and overheads	@	15%		₹	5.76
				₹	44.16
Add cess	@	1%		₹	0.44
Cost of 1.00 metre			Total	₹	44.60
	Total cost for 1 metre			₹	44.60
			Say,	₹	44.60

9.26 Providing, fabricating, transporting, assembling and erection in position of Steel members for steel columms, built up beams using structural tubular sections (round, square or rectangular hollow tubes etc. confirming to IS 4923 / IS 1161, Yield strength 310 MPa as per latest IS Code) to the required profile & shape as called for as per the drawing & specifications and of approved make including the shear connectors /studs and fusion weld to top of horizontal member. This item also includes prepration of shop drawings and their approval, necessary templates, adequate temporary supports, scaffolding & staging, all cutting, grinding, sliding & all labour tools, plants & equipments & operations etc. required to complete the job as per drawing & specification. Every precaution to be taken to prevent rusting of sections. This item also includes all test on materials & welded fabricated parts as per specification and direction of Engineer - in - Charge. Temporary bolts & nuts (grade EN 8) to be used during assembling & shall be removed before site erection. All site erection bolts shall be HSFG type only. The item to include cost of sand blasting on materials, application of primer and epoxy paint in internal & external in fabrication shop & final painting on site including all touch up works after erection as per technical specification.

Scope of work includes:

- i) Design & fabrication of any additional temporary structure including all type of lifting brackets, supporting brackets ,which will be required for transportion & erection in position / launching of fabrication part or complete element in position.
- ii) Making provision & arrangement for required opening / inserts for fixing lights fixtures & funning cable conduits
- iii) All incidentials labour, equipement & plants required to execute & complete the job from fabrication to erection at final position as per drawing, specification & direction of Engineer in -Charge.
- iv) Cleaning & removing of all spoil, temporary arrangementa for casting of deck slab/roofing.
- v) All safety measures required to execute & complete the work.
- vi) Procurement of all materials from approved manufactures & fabrication. Complete methodology for structural steel work, Name of workshop for fabrication works, Testing facilities & erection procedures etc.to be intimated for approval of Engineer in Charge.
- vii) The provision of temporary bearing / sand jacks for supporting steel members during erection.
- viii) Provision of stability during erection against wind load or any other type of loading on structural steel members during erection.
- ix) Measurement shall be only for structural steel which is erected & is part of permanent structure & paid as per approved shop drawings. All wastages, temporary works, Jigs, temporary assembly bolts etc. are deemed to be included in rates. No allowence or increse in weight for welding, nuts & bolts etc will be applicable.

Code	Description	Unit	Quantity	Rate		Amount	
	Details of cost for a truss of span 8 metre weight = 119 kg.	Kg.					
	a. Materials:						
09034	Hollow member = 119kg. Add wastage @ 5% = 5.94Kg. = 124.90Kg. say 125 kg	Kg.	125.00	₹	60.00	₹	7,500.00
09022	Welding in/c wages for welder	Cm	357.00	₹	2.00	₹	714.00
	Priming coat (Rate as per item 12.33.3 of S.H. finishing) "A"	Sqm.	2.80	₹	26.80	₹	75.04
	Epoxy paint (Rate as per item 12.36.1 of S.H. finishing) "B"	Sqm.	3.80	₹	112.00	₹	425.60
	b. Carriage:						
0427	Carriage of tubes	Tonne	0.125	₹	102.47	₹	12.81
	c. Labours: For cutting, assembling & erection						
0206	Blacksmith 1st class	Day	1.50	₹	440.00	₹	660.00
0201	Bandhani	Day	0.75	₹	310.00	₹	232.50
0203	Beldar	Day	5.50	₹	310.00	₹	1,705.00
	d. Cost for scaffolding, hoisting, gas cutting, preparation of shop drawing etc. @ 5% on total ex/c "A" & "B"	5%	on	₹	10,824.31	₹	541.22
	e. Water charges & electricity charges: @ 1.50% on total ex/c "A" & "B"	1.5%	on	₹	11,365.53	₹	170.48

f. Sundries & contingencies: @ 3% on total ex/c "A" & "B"	3%	on	₹ 11,536.01	₹	346.08
				₹	11,882.09
Add GST (multiplying factor)		0.1405		₹	1,669.43
				₹	13,551.52
Add for contractor's profit and overheads	@	15%		₹	2,032.73
				₹	15,584.25
Add cess	@	1%		₹	155.84
Cost of 0.218 qunital			Total	₹	16,240.73
	Total cost for 1 Kg.			₹	136.48
			Say,	₹	136.50

9.27 Providing, fabricating, transporting, assembling and erection in position of Steel members for steel columms, built up beams using structural tubular sections (confirming to IS 2062 -1999 grade B Fe 410, normalized control cooled, yield strength + 250 MPa as per latest IS Code) to the required profile & shape as called for as per the drawing & specifications and of approved make including the shear connectors /studs and fusion weld to top of horizontal member. This item also includes prepration of shop drawings and their approval, necessary templates, adequate temporary supports, scaffolding & staging, all cutting, grinding, sliding & all labour tools, plants & equipments & operations etc. required to complete the job as per drawing & specification. Every precaution to be taken to prevent rusting of sections. This item also includes all test on materials & welded fabricated parts as per specification and direction of Engineer - in Charge. Temporary bolts & nuts (grade EN 8) to be used during assembling & shall be removed before site erection. All site erection bolts shall be HSFG type only. The item to include cost of sand blasting on materials, application of primer and epoxy paint in internal & external in fabrication shop & final painting on site including all touch up works after erection as per technical specification.

Scope of work includes:

- i) Design & fabrication of any additional temporary structure including all type of lifting brackets, supporting brackets ,which will be required for transportion & erection in position / launching of fabrication part or complete element in position.
- ii) Making provision & arrangement for required opening / inserts for fixing lights fixtures & funning cable conduits.
- iii) All incidentials labour, equipement & plants required to execute & complete the job from fabrication to erection at final position as per drawing, specification & direction of Engineer in -Charge.
- iv) Cleaning & removing of all spoil, temporary arrangementa for casting of deck slab/roofing.
- v) All safety measures required to execute & complete the work.
- vi) Procurement of all materials from approved manufactures & fabrication. Complete methodology for structural steel work, Name of workshop for fabrication works, Testing facilities & erection procedures etc.to be intimated for approval of Engineer in Charge.
- vii) The provision of temporary bearing / sand jacks for supporting steel members during erection.
- viii) Provision of stability during erection against wind load or any other type of loading on structural steel members during erection.
- ix) Measurement shall be only for structural steel which is erected & is part of permanent structure & paid as per approved shop drawings. All wastages, temporary works, Jigs, temporary assembly bolts etc. are deemed to be included in rates. No allowence or increse in weight for welding, nuts & bolts etc will be applicable.

Code	Description	Unit	Quantity	Rate		Amount	
	Details of cost for a truss of span 8 metre weight = 119 kg.	Kg.					
	a. Materials:						
09035	Structural member member = 119kg. Add wastage @ 5% = 5.94Kg. = 124.90Kg. say 125 kg	Kg.	125.00	₹ 48.00	₹	6,000.00	
09022	Welding in/c wages for welder	Cm	357.00	₹ 2.00	₹	714.00	
	Priming coat (Rate as per item 12.33.3 of S.H. finishing) "A"	Sqm.	2.80	₹ 26.80	₹	75.04	
	Epoxy paint (Rate as per item 12.36.1 of S.H. finishing) "B"	Sqm.	3.80	₹ 112.00	₹	425.60	
	b. Carriage:						
0427	Carriage of tubes	Tonne	0.125	₹ 102.47	₹	12.81	
	c. Labours: For cutting, assembling & erection						
0206	Blacksmith 1st class	Day	1.50	₹ 440.00	₹	660.00	
0201	Bandhani	Day	0.75	₹ 310.00	₹	232.50	
0203	Beldar	Day	5.50	₹ 310.00	₹	1,705.00	

d. Cost for scaffolding, hoisting, gas cutting, preparation of shop drawing etc. @ 5% on total ex/c "A" & "B"	5%	on	₹	9,324.31	₹	466.22
e. Water charges & electricity charges: @ 1.50% on total ex/c "A" & "B"	1.5%	on	₹	9,790.53	₹	146.86
f. Sundries & contingencies: @ 3% on total ex/c "A" & "B"	3%	on	₹	9,937.39	₹	298.12
					₹	10,235.51
Add GST (multiplying factor)		0.1405			₹	1,438.09
					₹	11,673.60
Add for contractor's profit and overheads	@	15%			₹	1,751.04
					₹	13,424.64
Add cess	@	1%			₹	134.25
				Total	₹	14,059.53
	Total cost for 1 Kg.				₹	118.15
				Say,	₹	118.20

9.28 Providing testing & tightening of high strength friction grip bolts (HSFG bolts) of class / grade EN 8 up to proof load as per IS 4000, including required threading, using automatic calibrated torque wrench at all locations & all heights and their compitable nuts & washers all complete required to execute the job. All HSFG bolts, nuts & washers confirming to IS 1367, IS 6610 & IS 4000 shall be used. The measurement shall be made for complete assembly of bolt, nut & compitable washers used in permanent works.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one bolt, nut and compitable washers	Kg.					
	a. Materials:						
09036	High strength friction grip bolts (HSFG bolts) of class / grade EN 8	Kg.	1.00	₹	150.00	₹	150.00
	b. Carriage:						
0427	Carriage of materials	Tonne	0.001	₹	102.47	₹	0.10
	c. Labours:						
0206	Blacksmith 1st class	day	0.050	₹	440.00	₹	22.00
	d. Water charges & electricity charges: @ 1.50% on total.	1.5%	on	₹	172.10	₹	2.58
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	174.68	₹	5.24
						₹	179.92
	Add GST (multiplying factor)		0.1405			₹	25.28
						₹	205.20
	Add for contractor's profit and overheads	@	15%			₹	30.78
						₹	235.98
	Add cess	@	1%			₹	2.36
	Cost of 1 kg				Total	₹	238.34
		Total co	st for 1 Kg.			₹	238.34
					Say,	₹	238.30

SUB HEAD : 10.0 FLOORING WORK

10.1	Providing and laying brick on edge floo complete.	ring in cei	ment mort	ar including cei	ment slurry etc.
10.1.1	In cement mortar 1 : 4 (1 cement : 4 fine sar	nd)			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:-				
06001	Bricks	1000.00	500.00	R12450.00	R6225.00
0406	Carriage of bricks	1000.00	500.00	R307.42	R153.71
	Cement mortar 1:4	cum	0.434	R3259.11	R1414.45
	(Rate as per item No.3.1.4)				
03001	Cement for slurry	tonne	0.02	R5800.00	R116.00
0421	Carriage of cement	tonne	0.02	R102.47	R2.05
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.08	R395.00	R426.60
0203	Beldar	Day	0.25	R310.00	R77.50
0212	Coolie	Day	1.62	R310.00	R502.20
0205	Bhisti	Day	0.27	R310.00	R83.70
					R9001.21
	Add for water charges	@	1.00%	R9001.21	R90.01
					R9091.22
	Add GST (multiplying factor)		0.1405	R9091.22	R1277.32
					R10368.54
	Add for contractor's profit and overheads	@	15.00%	R10368.54	R1555.28
					R11923.82
	Add cess	@	1.00%	R11923.82	R119.24
	Cost of 10 sqm.				R12043.06
	Cost of 1 sqm.				R1204.31
	Say				R1204.30

10.1.2	In cement mortar 1:5 (1 cement:5 fine sand	l)			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:-				
06001	Bricks	1000.00	500.00	R12450.00	R6225.00
0406	Carriage of bricks	1000.00	500.00	R307.42	R153.71
	Cement mortar 1:5	cum	0.434	R2845.94	R1235.14
	(Rate as per item No.3.1.5)				
03001	Cement for slurry	tonne	0.02	R5800.00	R116.00
0421	Carriage of cement	tonne	0.02	R102.47	R2.05
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.08	R395.00	R426.60
0203	Beldar	Day	0.25	R310.00	R77.50
0212	Coolie	Day	1.62	R310.00	R502.20
0205	Bhisti	Day	0.27	R310.00	R83.70
					R8821.90
	Add for water charges	@	1.00%	R8821.90	R88.22

				R8910.12
Add GST (multiplying factor)		0.1405	R8910.12	R1251.87
				R10161.99
Add for contractor's profit and overheads	@	15.00%	R10161.99	R1524.30
				R11686.29
Add cess	@	1.00%	R11686.29	R116.86
Cost of 10 sqm.				R11803.15
Cost of 1 sqm.				R1180.32
Say				R1180.30

10.1.3	In cement mortar 1 : 6 (1 cement : 6 fine sar	nd)			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:-				
06001	Bricks	1000.00	500.00	R12450.00	R6225.00
0406	Carriage of bricks	1000.00	500.00	R307.42	R153.71
	Cement mortar 1:6	cum	0.43	R2491.79	R1081.44
	(Rate as per item No.3.1.6)				
03001	Cement for slurry	tonne	0.02	R5800.00	R116.00
0421	Carriage of cement	tonne	0.02	R102.47	R2.05
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.08	R395.00	R426.60
0203	Beldar	Day	0.25	R310.00	R77.50
0212	Coolie	Day	1.62	R310.00	R502.20
0205	Bhisti	Day	0.27	R310.00	R83.70
					R8668.20
	Add for water charges	@	1.00%	R8668.20	R86.68
					R8754.88
	Add GST (multiplying factor)		0.1405	R8754.88	R1230.06
					R9984.94
	Add for contractor's profit and overheads	@	15.00%	R9984.94	R1497.74
					R11482.68
	Add cess	@	1.00%	R11482.68	R114.83
	Cost of 10 sqm.				R11597.51
	Cost of 1 sqm.				R1159.75
	Say				R1159.80

10.2	Providing and laying flat brick flooring in cement mortar including cement slurry etc. complete.								
10.2.1	In cement mortar 1 : 4 (1 cement : 4 fine sand)								
Code	Description	Unit	Quantity	Rate	Amount				
	Details of cost for 10 sqm.								
	Materials:-								
06001	Bricks	1000.00	300.00	R12450.00	R3735.00				
0406	Carriage of bricks	1000.00	300.00	R307.42	R92.23				
	Cement mortar 1:4	cum	0.300	R3259.11	R977.73				
	(Rate as per item No.3.1.4)		·	_					

03001	Cement for slurry	tonne	0.02	R5800.00	R116.00
0421	Carriage of cement	tonne	0.02	R102.47	R2.05
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.10	R395.00	R434.50
0203	Beldar	Day	1.00	R310.00	R310.00
0212	Coolie	Day	1.00	R310.00	R310.00
0205	Bhisti	Day	0.15	R310.00	R46.50
					R6024.01
	Add for water charges	@	1.00%	R6024.01	R60.24
					R6084.25
	Add GST (multiplying factor)		0.1405	R6084.25	R854.84
					R6939.09
	Add for contractor's profit and overheads	@	15.00%	R6939.09	R1040.86
					R7979.95
	Add cess	@	1.00%	R7979.95	R79.80
	Cost of 10 sqm.				R8059.75
	Cost of 1 sqm.				R805.98
	Say				R806.00

10.2.2	In cement mortar 1 : 5 (1 cement : 5 fine sai	nd)			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:-				
06001	Bricks	1000.00	300.00	R12450.00	R3735.0
0406	Carriage of bricks	1000.00	300.00	R307.42	R92.2
	Cement mortar 1:5	cum	0.300	R2845.94	R853.7
	(Rate as per item No.3.1.5)				
03001	Cement for slurry	tonne	0.02	R5800.00	R116.0
0421	Carriage of cement	tonne	0.02	R102.47	R2.09
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.00	R395.00	R395.0
0203	Beldar	Day	1.00	R310.00	R310.0
0212	Coolie	Day	1.10	R310.00	R341.0
0205	Bhisti	Day	0.15	R310.00	R46.50
					R5891.5
	Add for sundries and contingencies	@	3.00%	R5891.56	R176.7
					R6068.3
	Add for water charges	@	1.00%	R6068.31	R60.6
					R6128.9
	Add GST (multiplying factor)		0.1405	R6128.99	R861.1
					R6990.1
	Add for contractor's profit and overheads	@	15.00%	R6990.11	R1048.5
					R8038.6
	Add cess	@	1.00%	R8038.63	R80.3
	Cost of 10 sqm.				R8119.0
	Cost of 1 sqm.				R811.9
	Say				R811.9

10.2.3	In cement mortar 1 : 6 (1 cement : 6 fine sai	nd)			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	Materials:-				
06001	Bricks	1000.00	300.00	R12450.00	R3735.00
0406	Carriage of bricks	1000.00	300.00	R307.42	R92.23
	Cement mortar 1:6	cum	0.300	R2491.79	R747.54
	(Rate as per item No.3.1.6)				
03001	Cement for slurry	tonne	0.02	R5800.00	R116.00
0421	Carriage of cement	tonne	0.02	R102.47	R2.05
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.00	R395.00	R395.00
0203	Beldar	Day	1.00	R310.00	R310.00
0212	Coolie	Day	1.10	R310.00	R341.00
0205	Bhisti	Day	0.15	R310.00	R46.50
					R5785.32
	Add for sundries and contingencies	@	3.00%	R5785.32	R173.56
					R5958.88
	Add for water charges	@	1.00%	R5958.88	R59.59
					R6018.47
	Add GST (multiplying factor)		0.1405	R6018.47	R845.60
					R6864.07
	Add for contractor's profit and overheads	@	15.00%	R6864.07	R1029.61
					R7893.68
	Add cess	@	1.00%	R7893.68	R78.94
	Cost of 10 sqm.				R7972.62
	Cost of 1 sqm.				R797.26
	Say				R797.30

10.3	Providing and laying dry flat brick flooring in required pattern complete.						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 sqm.						
	Materials:-						
06001	Bricks	1000.00	300.00	R12450.00	R3735.00		
0406	Carriage of bricks	1000.00	300.00	R307.42	R92.23		
02003	Fine Sand	cum	0.090	R560.00	R50.40		
0425	Carriage of Sand	cum	0.090	R131.75	R11.86		
	Labour:-						
0224	Mate	Day	0.10	R310.00	R31.00		
0203	Beldar	Day	0.90	R310.00	R279.00		
0212	Coolie	Day	0.90	R310.00	R279.00		
0220	Mason (brick layer) 2nd class	Day	0.65	R395.00	R256.75		
0205	Bhisti/ Waterman	Day	0.05	R310.00	R15.50		
					R4750.74		
	Add for sundries and contingencies	@	3.00%	R4750.74	R142.52		
					R4893.26		

Add for water charges	@	1.00%	R4893.26	R48.93
				R4942.19
Add GST (multiplying factor)		0.1405	R4942.19	R694.38
				R5636.57
Add for contractor's profit and overheads	@	15.00%	R5636.57	R845.49
				R6482.06
Add cess	@	1.00%	R6482.06	R64.82
Cost of 10 sqm.				R6546.88
Cost of 1 sqm.				R654.69
Say				R654.70

10.4	Providing and laying dry brick on edge flooring in required pattern complete.							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 10 sqm.							
	Materials:-							
06001	Bricks	1000.00	500.00	R12450.00	R6225.00			
0406	Carriage of bricks	1000.00	500.00	R307.42	R153.71			
02003	Fine Sand	cum	0.15	R560.00	R84.00			
0425	Carriage of Sand	cum	0.15	R131.75	R19.76			
	Labour:-							
0220	Mason (brick layer) 2nd class	Day	1.00	R395.00	R395.00			
0212	Coolie	Day	1.00	R310.00	R310.00			
0205	Bhisti/ Waterman	Day	0.05	R310.00	R15.50			
					R7202.97			
	Add for sundries and contingencies	@	3.00%	R7202.97	R216.09			
					R7419.06			
	Add for water charges	@	1.00%	R7419.06	R74.19			
					R7493.25			
	Add GST (multiplying factor)		0.1405	R7493.25	R1052.80			
					R8546.05			
	Add for contractor's profit and overheads	@	15.00%	R8546.05	R1281.91			
					R9827.96			
	Add cess	@	1.00%	R9827.96	R98.28			
	Cost of 10 sqm.				R9926.24			
	Cost of 1 sqm.				R992.62			
	Say				R992.60			

10.5	Cement concrete flooring 1:2:4 (1 cement : 2 floating coat of neat cement, including cemen complete.		•				
10.5.1	40 mm thick with 20 mm nominal size stone aggregate						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 sqm.	Sqm.					
	Materials:-						
04006	20mm nominal size stone ballast	cum	0.267	R4875.00	R1301.63		
04008	10 mm nominal size stone ballast	cum	0.089	R4730.00	R420.97		
0405	Carriage of stone ballast	cum	0.356	R147.57	R52.53		

02003	Fine sand	cum	0.178	R560.00	R99.68
0425	Carriage of Fine sand	cum	0.178	R131.75	R23.45
03001	Cement for slurry	tonne	0.170	R5800.00	R986.00
0421	Carriage of cement	tonne	0.170	R102.47	R17.42
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	0.80	R395.00	R316.00
0220	Beldar	Day	1.40	R395.00	R553.00
0205	Bhisti/ Waterman	Day	1.04	R310.00	R322.40
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50
					R4140.78
	Add for sundries and contingencies	@	3.00%	R4140.78	R124.22
					R4265.00
	Add for water charges	@	1.00%	R4265.00	R42.6
					R4307.65
	Add GST (multiplying factor)		0.1405	R4307.65	R605.22
					R4912.87
	Add for contractor's profit and overheads	@	15.00%	R4912.87	R736.93
					R5649.80
	Add cess	@	1.00%	R5649.80	R56.50
	Cost of 10 sqm.				R5706.30
	Cost of 1 sqm.				R570.63
	Say				R570.60

10.6	Providing and laying cement concrete 1:2:4 (1 cement: 2 fine sand : 4 graded well burnt brick aggregate) flooring finished with a floating coat of neat cement including cement slurry, rounding of edges and strips and cost of glass strips etc. complete.								
10.6.1	40mm thick.								
Code	Description	Unit	Quantity	Rate	Amount				
	Details of cost for 10 sqm.	Sqm.							
	Materials:-								
04002	20mm nominal size well burnt brick aggregate	cum	0.267	R3957.00	R1056.52				
04003	10mm nominal size well burnt brick aggregate	cum	0.089	R3880.00	R345.32				
0405	Carriage of brick aggregate	cum	0.356	R147.57	R52.53				
02003	Fine sand	cum	0.178	R560.00	R99.68				
0425	Carriage of Fine sand	cum	0.178	R131.75	R23.45				
03001	Cement for slurry	tonne	0.170	R5800.00	R986.00				
0421	Carriage of cement	tonne	0.170	R102.47	R17.42				
	Labour:-								
0220	Mason (brick layer) 2nd class	Day	0.80	R395.00	R316.00				
0220	Beldar	Day	1.40	R395.00	R553.00				
0205	Bhisti/ Waterman	Day	1.04	R310.00	R322.40				
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20				
	Machineries:-								
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50				

				R3820.02
Add for sundries and contingencies in/c carriage of glass strips	@	3.00%	R3820.02	R114.60
				R3934.62
Add for water charges	@	1.00%	R3934.62	R39.35
				R3973.97
Add GST (multiplying factor)		0.1405	R3973.97	R558.34
				R4532.31
Add for contractor's profit and overheads	@	15.00%	R4532.31	R679.85
				R5212.16
Add cess	@	1.00%	R5212.16	R52.12
Cost of 10 sqm.				R5264.28
Cost of 1 sqm.				R526.43
Say				R526.40

10.7	Extra for making chequers of approved pavements etc. complete.	pattern i	n Cement	Concrete floors,	steps, landing,
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.	Sqm.			
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	0.36	R395.00	R142.20
0203	Beldar	Day	0.36	R310.00	R111.60
					R253.80
	Add for sundries and contingencies in/c cost of Chequered plate etc. {Lumpsum}	@	6.00%	R253.80	R15.23
					R269.03
	Add for water charges	@	1.00%	R269.03	R2.69
					R271.72
	Add GST (multiplying factor)		0.1405	R271.72	R38.18
					R309.90
	Add for contractor's profit and overheads	@	15.00%	R309.90	R46.49
					R356.39
	Add cess	@	1.00%	R356.39	R3.56
	Cost of 10 sqm.				R359.95
	Cost of 1 sqm.				R36.00
	Say				R36.00

10.8	Providing and laying cement concrete 1:2:4 flooring finished with a floating coat of neat c strips etc. complete.							
10.8.1	25 mm thick with 12.5 mm stone aggregate							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 10 sqm.	Sqm.						
	Materials:-							
04008	Stone aggregate 12.5 mm	cum	0.176	R4730.00	R832.48			
04008	Stone aggregate 10 mm	cum	0.059	R4730.00	R279.07			
04006	Carriage of stone aggregate	cum	0.235	R147.57	R34.68			
02003	Fine sand	cum	0.118	R560.00	R66.08			
0425	Carriage of Fine sand	cum	0.118	R131.75	R15.55			

03001	Cement	tonne	0.122	R5800.00	R707.60
0421	Carriage of cement	tonne	0.122	R102.47	R12.50
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	0.80	R395.00	R316.00
0205	Beldar	Day	1.40	R310.00	R434.00
0212	Bhisti/ Waterman	Day	1.04	R310.00	R322.40
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50
					R3068.06
	Add for sundries and contingencies	@	3.00%	R3068.06	R92.04
					R3160.10
	Add for water charges	@	1.00%	R3160.10	R31.60
					R3191.70
	Add GST (multiplying factor)		0.1405	R3191.70	R448.43
					R3640.13
	Add for contractor's profit and overheads	@	15.00%	R3640.13	R546.02
					R4186.15
	Add cess	@	1.00%	R4186.15	R41.86
	Cost of 10 sqm.				R4228.01
	Cost of 1 sqm.				R422.80
_	Say	_			R422.80

10.8.2	40 mm thick with 20 mm stone aggregate				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.	Sqm.			
	Materials:-				
04006	Stone aggregate 20 mm	cum	0.267	R4875.00	R1301.63
04008	Stone aggregate 10 mm	cum	0.089	R4730.00	R420.97
0405	Carriage of stone aggregate	cum	0.356	R147.57	R52.53
02003	Fine sand	cum	0.178	R560.00	R99.68
0425	Carriage of Fine sand	cum	0.178	R131.75	R23.45
03001	Portland Cement	tonne	0.170	R5800.00	R986.00
0421	Carriage of cement	tonne	0.170	R102.47	R17.42
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	0.80	R395.00	R316.00
0203	Beldar	Day	1.40	R310.00	R434.00
0205	Bhisti/ Waterman	Day	1.04	R310.00	R322.40
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50
					R4021.78
	Add for sundries and contingencies	@	3.00%	R4021.78	R120.65
					R4142.43
	Add for water charges	@	1.00%	R4142.43	R41.42

					R4183.85
	Add GST (multiplying factor)		0.1405	R4183.85	R587.83
					R4771.68
	Add for contractor's profit and overheads	@	15.00%	R4771.68	R715.75
					R5487.43
	Add cess	@	1.00%	R5487.43	R54.87
	Cost of 10 sqm.				R5542.30
	Cost of 1 sqm.				R554.23
_	Say				R554.20

10.9	Providing and laying cement concrete 1:2:4 aggregate) flooring finished with a floating coof edges and strips etc. complete.	•			
10.9.1	25 mm thick with 12.5 mm well burnt brick ag	ggregate			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.	Sqm.			
	Materials:-				
04003	12.5 mm nominal size well burnt brick aggrega	cum	0.176	R3880.00	R682.88
04003	10 mm nominal size well burnt brick aggregate	cum	0.059	R3880.00	R228.92
0405	Carriage of brick aggregate	cum	0.235	R147.57	R34.68
02003	Fine sand	cum	0.118	R560.00	R66.08
0425	Carriage of Fine sand	cum	0.118	R131.75	R15.55
03001	Cement for slurry	tonne	0.122	R5800.00	R707.60
0421	Carriage of cement	tonne	0.122	R102.47	R12.50
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	0.80	R395.00	R316.00
0205	Beldar	Day	1.40	R310.00	R434.00
0212	Bhisti/ Waterman	Day	1.04	R310.00	R322.40
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50
					R2868.31
	Add for sundries and contingencies	@	3.00%	R2868.31	R86.05
					R2954.36
	Add for water charges	@	1.00%	R2954.36	R29.54
					R2983.90
	Add GST (multiplying factor)		0.1405	R2983.90	R419.24
					R3403.14
	Add for contractor's profit and overheads	@	15.00%	R3403.14	R510.47
					R3913.61
	Add cess	@	1.00%	R3913.61	R39.14
	Cost of 10 sqm.				R3952.75
	Cost of 1 sqm.				R395.28
	Say				R395.30

10.9.2	10.9.2 40 mm thick with 20 mm well burnt brick aggregate					
Code	Description	Unit	Quantity	Rate	Amount	

	Details of cost for 10 sqm.	Sqm.			
	Materials:-				
04002	20 mm nominal size well burnt brick aggregate	cum	0.267	R3957.00	R1056.5
04003	12.5 mm nominal size well burnt brick aggrega	cum	0.089	R3880.00	R345.32
0405	Carriage of brick aggregate	cum	0.356	R147.57	R52.53
02003	Fine sand	cum	0.178	R560.00	R99.68
0425	Carriage of Fine sand	cum	0.178	R131.75	R23.4
03001	Cement for slurry	cum	0.170	R5800.00	R986.00
0421	Carriage of cement	cum	0.170	R102.47	R17.42
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	0.80	R395.00	R316.00
0203	Beldar	Day	1.40	R310.00	R434.00
0205	Bhisti/ Waterman	Day	1.04	R310.00	R322.40
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Add for hire & running charges of concrete mixer, water pump	Day	0.03	R1150.00	R34.50
					R3701.02
	Add for sundries and contingencies in/c carriage of glass strips	@	3.00%	R3701.02	R111.03
					R3812.05
	Add for water charges	@	1.00%	R3812.05	R38.12
					R3850.17
	Add GST (multiplying factor)		0.1405	R3850.17	R540.95
					R4391.12
	Add for contractor's profit and overheads	@	15.00%	R4391.12	R658.67
					R5049.79
	Add cess	@	1.00%	R5049.79	R50.50
	Cost of 10 sqm.				R5100.29
	Cost of 1 sqm.				R510.03
	Say				R510.00

10.10

52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
a.	Materials:-				
04006	Stone aggregate 20 mm	cum	0.267	R4875.00	R1301.63
04008	Stone aggregate 10 mm	cum	0.089	R4730.00	R420.97
04009	Stone aggregate 6 mm	cum	0.115	R4390.00	R504.85
0405	Carriage of stone ballast	cum	0.471	R147.57	R69.51
02003	Fine sand	cum	0.115	R560.00	R64.40
0425	Carriage of Fine sand	cum	0.115	R131.75	R15.15

	T				
03001	Cement for concreting	tonne	0.211	R5800.00	R1223.80
03001	Cement for slurry	tonne	0.020	R5800.00	R116.00
0421	Carriage of cement	tonne	0.231	R102.47	R23.67
10018	Metallic floor hardener	litre	2.44	R40.00	R97.60
b.	Labour:-				
0220	Mason (brick layer) 2nd class	Day	2.15	R395.00	R849.25
0220	Beldar	Day	1.60	R395.00	R632.00
0203	Coolie	Day	1.88	R310.00	R582.80
0205	Bhisti	Day	0.27	R310.00	R83.70
					R5985.33
	Add for sundries and contingencies in/c carriage of Metallic floor hardener	@	3.00%	R5985.33	R179.56
					R6164.89
	Add for water charges	@	1.00%	R6164.89	R61.65
					R6226.54
	Add GST (multiplying factor)		0.1405	R6226.54	R874.83
					R7101.37
	Add for contractor's profit and overheads	@	15.00%	R7101.37	R1065.21
					R8166.58
	Add cess	@	1.00%	R8166.58	R81.67
	Cost of 10 sqm.				R8248.25
	Cost of 1 sqm.				R824.83
	Say				R824.80

62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 fine sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.				
a.	Materials:-				
04006	Stone aggregate 20 mm	cum	0.334	R4875.00	R1628.25
04008	Stone aggregate 10 mm	cum	0.111	R4730.00	R525.03
04009	Stone aggregate 6 mm	cum	0.115	R4390.00	R504.85
0405	Carriage of stone ballast	cum	0.560	R147.57	R82.64
02003	Fine sand	cum	0.222	R560.00	R124.32
0425	Carriage of Fine sand	cum	0.222	R131.75	R29.25
03001	Cement for top layer	tonne	0.243	R5800.00	R1409.40
03001	Cement for slurry	tonne	0.020	R5800.00	R116.00
0421	Carriage of cement	tonne	0.263	R102.47	R26.95
10018	Metallic floor hardener	litre	2.44	R40.00	R97.60
b.	Labour:-				
0220	Mason (brick layer) 2nd class	Day	2.15	R395.00	R849.25
0220	Beldar	Day	1.86	R395.00	R734.70
0203	Coolie	Day	1.88	R310.00	R582.80
0205	Bhisti	Day	0.27	R310.00	R83.70

				R6794.74
Add for sundries and contingencies in/c carriage of Metallic floor hardener	@	3.00%	R6794.74	R203.84
				R6998.58
Add for water charges	@	1.00%	R6998.58	R69.99
				R7068.57
Add GST (multiplying factor)		0.1405	R7068.57	R993.13
				R8061.70
Add for contractor's profit and overheads	@	15.00%	R8061.70	R1209.26
				R9270.96
Add cess	@	1.00%	R9270.96	R92.71
Cost of 10 Sqm.				R9363.67
Cost of 1 Sqm.				R936.37
Say				R936.40

10.12	Providing and laying cement concrete paveme	ent includ	ding finishir	ng etc. complete	
10.12.1	with 1:2:4 (1 cement : 2 fine sand : 4 graded st	tone aggre	egate 20 mm	n nominal size)	
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one cum.	cum			
a.	Materials:-				
	Cement concrete 1:2:4 Rate as per item No.4.1.3	cum	1.000	R10456.60	R10456.60
	of S.H.Concrete Work (A)				
b.	Labour:-				
	Extra labour for laying in floors etc.				
0220	Mason (brick layer) 2nd class	Day	0.35	R395.00	R138.25
0220	Beldar	Day	0.18	R395.00	R71.10
0205	Bhisti/ Waterman	Day	0.05	R310.00	R15.50
					R10681.45
	Add for sundries and contingencies except A	@	3.00%	R224.85	R6.75
					R10688.20
	Add for water charges except A	@	1.00%	R231.60	R2.32
					R10690.52
	Add GST (multiplying factor) except A		0.1405	R233.92	R32.87
					R10723.39
	Add for contractor's profit and overheads except A	@	15.00%	R266.79	R40.02
					R10763.41
	Add cess except A	@	1.00%	R306.81	R3.07
	Cost of 1 Cum.				R10766.48
	Say				R10766.50

10.12.2	with 1:2:4 (1 cement : 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for one cum.	cum				
a.	Materials:-					
	Cement concrete 1:2:4 Rate as per item No.4.1.11 of S.H.Concrete Work (A)	cum	1.000	R9306.10	R9306.10	

b.	Labour:-				
	Extra labour for laying in floors etc.				
0220	Mason (brick layer) 2nd class	Day	0.35	R395.00	R138.25
0220	Beldar	Day	0.18	R395.00	R71.10
0205	Bhisti/ Waterman	Day	0.05	R310.00	R15.50
					R9530.95
	Add for sundries and contingencies except A	@	3.00%	R224.85	R6.75
					R9537.70
	Add for water charges except A	@	1.00%	R231.60	R2.32
					R9540.02
	Add GST (multiplying factor) except A		0.1405	R233.92	R32.87
					R9572.89
	Add for contractor's profit and overheads except A	@	15.00%	R266.79	R40.02
					R9612.91
	Add cess except A	@	1.00%	R306.81	R3.07
	Cost of 1 Cum.				R9615.98
	Say				R9616.00

10.13	Providing and laying cement plaster skirting upto 300 mm height with cement mortar 1 : 3 (1 cement : 3 fine sand) finished with a floating coat of neat cement including rounding of junctions etc. complete.						
10.13.1	18 mm thick						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 Sqm						
a.	Materials:-						
	Cement mortar 1:3 = 0.205 cum+ Add for rounding corners = 0.030 cum = 0.235 cum. Cement mortar 1 : 3 (1 cement : 3 fine sand).	cum	0.235	R4026.43	R946.21		
03001	Cement for finishing coat	tonne	0.020	R5800.00	R116.00		
0421	Carriage of cement	tonne	0.020	R102.47	R2.05		
b.	Labour:-						
0220	Mason (brick layer) 2nd class	Day	1.88	R395.00	R742.60		
0212	Coolie	Day	1.88	R310.00	R582.80		
0205	Bhisti	Day	0.54	R310.00	R167.40		
					R2557.06		
	Add for sundries and contingencies	@	3.00%	R2557.06	R76.71		
					R2633.77		
	Add for water charges	@	1.00%	R2633.77	R26.34		
					R2660.11		
	Add GST (multiplying factor)		0.1405	R2660.11	R373.75		
					R3033.86		
	Add for contractor's profit and overheads	@	15.00%	R3033.86	R455.08		
					R3488.94		
	Add cess	@	1.00%	R3488.94	R34.89		
	Cost of 10 sqm.				R3523.83		
	Cost of 1 Sqm.				R352.38		

	Say				R352.40
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10.13.2	21 mm thick				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
a.	Materials:-				
	Cement mortar 1 : 3 (1 cement : 3 fine sand).	cum	0.270	R4026.43	R1087.14
03001	Cement for finishing coat	tonne	0.020	R5800.00	R116.00
0421	Carriage of cement	tonne	0.020	R102.47	R2.05
b.	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.88	R395.00	R742.60
0212	Coolie	Day	1.88	R310.00	R582.80
0205	Bhisti	Day	0.54	R310.00	R167.40
					R2697.99
	Add for sundries and contingencies	@	3.00%	R2697.99	R80.94
					R2778.93
	Add for water charges	@	1.00%	R2778.93	R27.79
					R2806.72
	Add GST (multiplying factor)		0.1405	R2806.72	R394.34
					R3201.06
	Add for contractor's profit and overheads	@	15.00%	R3201.06	R480.16
					R3681.22
	Add cess	@	1.00%	R3681.22	R36.81
	Cost of 10 sqm.				R3718.03
	Cost of 1 Sqm.				R371.80
	Say				R371.80

10.14	Providing and laying 40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4 (1 ordinary cement:2 fine sand:4 graded stone aggregate 12.5 mm nominal size) and top layer 6 mm thick with white, black, chocolate, grey, yellow, pink, blue or green marble chips of sizes from 1 mm to 4 mm nominal size laid in cement marble powder mix 3:1 (3 cement:1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix:7 marble chips) by volume including cement slurry etc. complete.						
10.14.1	Dark shade pigment with ordinary cement						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 Sqm						
	Materials:-						
a)	For underlayer 34mm thick						
04008	Stone aggregate 12.5 mm	cum	0.227	R4730.00	R1073.71		
04008	Stone aggregate 10 mm	cum	0.076	R4730.00	R359.48		
04006	Carriage of stone aggregate	cum	0.303	R147.57	R44.71		
02003	Fine sand	cum	0.510	R560.00	R285.60		
0425	Carriage of Fine sand	cum	0.510	R131.75	R67.19		
03001	Cement	tonne	0.109	R5800.00	R632.20		
03001	Cement for slurry	tonne	0.0405	R5800.00	R234.90		
0421	Carriage of cement	tonne	0.150	R102.47	R15.32		
b)	For top layer 6mm thick						

	Marble chips upto 4mm and downsize White				
03006	& black	quintal	0.872	R500.00	R436.00
0431	Carriage of Marble chips	cum	0.053	R120.56	R6.39
03001	Cement	tonne	0.0405	R5800.00	R234.90
0421	Carriage of cement	tonne	0.0405	R102.47	R4.15
03004	Marble powder	cum	0.007	R3600.00	R25.20
0431	Carriage of Marble powder	cum	0.007	R120.56	R0.84
10007	Dark shade pigment = 3.5kg/ 50kg of cement = 40.5x3.5/50=2.84kg	kg.	2.840	R75.00	R213.00
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.79	R395.00	R707.05
0203	Belder	Day	1.99	R310.00	R616.90
0205	Bhisti	Day	1.04	R310.00	R322.40
0228	Skilled Beldar (for floor rubbing etc.)	Day	1.00	R440.00	R440.00
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50
0120	Machine for rubbing of floors	Day	1.60	R320.00	R512.00
					R6279.64
	Add for sundries and contingencies in/c carriage of pigment & marble powder etc. [Lumpsum]	@	5.50%	R6279.64	R345.38
					R6625.02
	Add for water charges	@	1.00%	R6625.02	R66.25
					R6691.27
	Add GST (multiplying factor)		0.1405	R6691.27	R940.12
					R7631.39
	Add for contractor's profit and overheads	@	15.00%	R7631.39	R1144.71
					R8776.10
	Add cess	@	1.00%	R8776.10	R87.76
	Cost of 10 sqm.				R8863.86
	Cost of 1 Sqm.				R886.39
	Say				R886.40

10.14.2	Light shade pigment with ordinary cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.14.1	Rate as per item no 10.14.1 of SH: Flooring (A)	sqm	10.000	R886.40	R8864.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	2.840	R80.00	R227.20
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
					R8878.20
	Add for sundries and contingencies except A	@	3.00%	R14.20	R0.43
					R8878.63

1	Add for water charges except A	@	1.00%	R14.63	R0.15
					R8878.78
Į.	Add GST (multiplying factor) except A		0.1405	R14.78	R2.08
					R8880.86
	Add for contractor's profit and overheads except A	@	15.00%	R16.86	R2.53
					R8883.39
A	Add cess except A	@	1.00%	R19.39	R0.19
(Cost of 10 sqm.				R8883.58
	Cost of 1 Sqm.				R888.36
(Say				R888.40

10.14.3	Ordinary cement without any pigment				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.14.1	Rate as per item no 10.14.1 of SH: Flooring (A)	sqm	10.000	R886.40	R8864.00
	Less cost of dark shade pigment				
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Deduct for for carriage of pigment (LS)	@	7.50%	-R213.00	-R15.98
					R8635.02
	Add for sundries and contingencies except A	@	3.00%	-R228.98	-R6.87
					R8628.15
	Add for water charges except A	@	1.00%	-R235.85	-R2.36
					R8625.79
	Add GST (multiplying factor) except A		0.1405	-R238.21	-R33.47
					R8592.32
	Add for contractor's profit and overheads except A	@	15.00%	-R271.68	-R40.75
					R8551.57
	Add cess except A	@	1.00%	-R312.43	-R3.12
	Cost of 10 sqm.				R8548.45
	Cost of 1 Sqm.				R854.85
_	Say		_		R854.90

10.14.4	Medium shade pigment with 50% white cement and 50% ordinary cement							
Code	Description	Unit	Quantity	Rate	Amount			
	Detail of cost for 10 Sqm							
	Materials:-							
10.14.1	Rate as per item no 10.14.1 of SH: Flooring (A)	sqm	10.000	R886.40	R8864.00			
	Add difference of cost due to using light shade pigment instead of dark shade pigment							
10017	Add for Green or blue medium shade pigment	kg.	2.840	R60.00	R170.40			
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00			
	Add difference of cost due to using white cement instead of grey cement							
03002	Add for White Cement	tonne	0.0203	R12400.00	R251.72			
03001	Deduct for Portland Cement	tonne	-0.0203	R5800.00	-R117.74			

				R8955.38
Add for sundries and contingencies except A	@	3.00%	R91.38	R2.74
				R8958.12
Add for water charges except A	@	1.00%	R94.12	R0.94
				R8959.06
Add GST (multiplying factor) except A		0.1405	R95.06	R13.36
				R8972.42
Add for contractor's profit and overheads except A	@	15.00%	R108.42	R16.26
				R8988.68
Add cess except A	@	1.00%	R124.68	R1.25
Cost of 10 sqm.				R8989.93
Cost of 1 Sqm.				R898.99
Say				R899.00

10.14.5	Using light shade pigment with white cement i	in top lay	er		
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.14.1	Rate as per item no 10.14.1 of SH: Flooring (A)	sqm	10.000	R886.40	R8864.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	2.840	R80.00	R227.20
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Add difference of cost due to using white cement instead of grey cement				
03002	Add for White Cement	tonne	0.0203	R12400.00	R251.72
03001	Deduct for Portland Cement	tonne	-0.0203	R5800.00	-R117.74
					R9012.18
	Add for sundries and contingencies except A	@	3.00%	R148.18	R4.45
					R9016.63
	Add for water charges except A	@	1.00%	R152.63	R1.53
					R9018.16
	Add GST (multiplying factor) except A		0.1405	R154.16	R21.66
					R9039.82
	Add for contractor's profit and overheads except A	@	15.00%	R175.82	R26.37
					R9066.19
	Add cess except A	@	1.00%	R202.19	R2.02
	Cost of 10 sqm.				R9068.21
	Cost of 1 Sqm.				R906.82
	Say				R906.80

	10.14.6 Using white cement in top layer with no pigment						
	Code Description Unit Quantity Rate Amount						
I		Detail of cost for 10 Sqm					

	Materials:-				
a)	For underlayer 34mm thick				
04008	Stone aggregate 12.5 mm	cum	0.227	R4730.00	R1073.71
04008	Stone aggregate 10 mm	cum	0.076	R4730.00	R359.48
04006	Carriage of stone aggregate	cum	0.303	R147.57	R44.71
02003	Fine sand	cum	0.151	R560.00	R84.56
0425	Carriage of Fine sand	cum	0.151	R131.75	R19.89
03001	Cement	tonne	0.020	R5800.00	R116.00
03001	Cement for slurry	tonne	0.109	R5800.00	R632.20
0421	Carriage of cement	tonne	0.129	R102.47	R13.22
b)	For top layer 6mm thick				
03006	Marble chips 1 to 4 mm size	quintal	0.958	R500.00	R479.00
0431	Carriage of Marble chips	cum	0.056	R120.56	R6.75
03002	White Cement	tonne	0.0405	R12400.00	R502.20
0421	Carriage of cement	tonne	0.0405	R102.47	R4.15
03004	Marble powder	cum	0.007	R3600.00	R25.20
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.79	R395.00	R707.0
0203	Beldar	Day	1.99	R310.00	R616.90
0205	Bhisti	Day	1.04	R310.00	R322.40
0228	Skilled Beldar (for floor rubbing etc.)	Day	1.00	R440.00	R440.00
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50
0120	Machine for rubbing of floors	Day	1.60	R320.00	R512.00
					R6007.12
	Add for sundries and contingencies in/c carriage of pigment & marble powder etc. [Lumpsum]	@	3.00%	R6007.12	R180.21
	[Editipodini]				R6187.33
	Add for water charges	@	1.00%	R6187.33	R61.87
	-				R6249.20
	Add GST (multiplying factor)		0.1405	R6249.20	R878.0
					R7127.2
	Add for contractor's profit and overheads	@	15.00%	R7127.21	R1069.08
	·				R8196.29
	Add cess	@	1.00%	R8196.29	R81.96
	Cost of 10 sqm.			-	R8278.25
	Cost of 1 Sqm.				R827.83
	Say				R827.80

Providing and laying 40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4 (1 ordinary cement:2 fine sand:4 graded well burnt brick aggregate 12.5 mm nominal size) and top layer 6 mm thick with white, black, chocolate, grey, yellow, pink, blue or green marble chips of sizes from 1 mm to 4 mm nominal size laid in cement marble powder mix 3:1 (3 cement: 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix: 7 marble chips) by volume including cement slurry etc. complete.

10.15.1	Dark shade pigment with ordinary cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
a)	For underlayer 34mm thick				
04003	12.5 mm nominal size well burnt brick aggrega	cum	0.227	R3880.00	R880.76
04003	10 mm nominal size well burnt brick aggregate	cum	0.076	R3880.00	R294.88
0405	Carriage of Well burnt brick aggregate	cum	0.303	R147.57	R44.71
02003	Fine sand	cum	0.510	R560.00	R285.60
0425	Carriage of Fine sand	cum	0.510	R131.75	R67.19
03001	Cement	tonne	0.109	R5800.00	R632.20
03001	Cement for slurry	tonne	0.0405	R5800.00	R234.90
0421	Carriage of cement	tonne	0.150	R102.47	R15.32
b)	For top layer 6mm thick				
03006	Marble chips upto 4mm and downsize White & black	quintal	0.872	R500.00	R436.00
0431	Carriage of Marble chips	cum	0.053	R120.56	R6.39
03001	Cement	tonne	0.0405	R5800.00	R234.90
0421	Carriage of cement	tonne	0.0405	R102.47	R4.15
03004	Marble powder	cum	0.007	R3600.00	R25.20
0431	Carriage of Marble powder	cum	0.007	R120.56	R0.84
10007	Dark shade pigment = 3.5kg/ 50kg of cement = 40.5x3.5/50=2.84kg	kg.	2.840	R75.00	R213.00
	Labour:-			R0.00	
0220	Mason (brick layer) 2nd class	Day	1.79	R395.00	R707.05
0203	Belder	Day	1.99	R310.00	R616.90
0205	Bhisti	Day	1.04	R310.00	R322.40
0228	Skilled Beldar (for floor rubbing etc.)	Day	1.00	R440.00	R440.00
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50
0120	Machine for rubbing of floors	Day	1.60	R320.00	R512.00
					R6022.09
	Add for sundries and contingencies in/c carriage of pigment & marble powder etc. [Lumpsum]	@	5.50%	R6022.09	R331.21
	[Euripsum]				R6353.30
	Add for water charges	@	1.00%	R6353.30	R63.53
	,				R6416.83
	Add GST (multiplying factor)		0.1405	R6416.83	R901.56
	, 13 3 /				R7318.39
	Add for contractor's profit and overheads	@	15.00%	R7318.39	R1097.76
	·				R8416.15
	Add cess	@	1.00%	R8416.15	R84.16
	Cost of 10 sqm.				R8500.31
	Cost of 1 Sqm.				R850.03
	Say				R850.00

10.15.2	Light shade pigment with ordinary cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.15.1	Rate as per item no 10.15.1 of SH: Flooring (A)	sqm	10.000	R850.00	R8500.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	2.840	R80.00	R227.20
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
					R8514.20
	Add for sundries and contingencies except A	@	3.00%	R14.20	R0.43
					R8514.63
	Add for water charges except A	@	1.00%	R14.63	R0.15
					R8514.78
	Add GST (multiplying factor) except A		0.1405	R14.78	R2.08
					R8516.86
	Add for contractor's profit and overheads except A	@	15.00%	R16.86	R2.53
					R8519.39
	Add cess except A	@	1.00%	R19.39	R0.19
	Cost of 10 sqm.				R8519.58
	Cost of 1 Sqm.				R851.96
	Say				R852.00

10.15.3	Ordinary cement without any pigment				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.15.1	Rate as per item no 10.15.1 of SH: Flooring (A)	sqm	10.000	R850.00	R8500.00
	Less cost of dark shade pigment				
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Deduct for for carriage of pigment (LS)	@	7.50%	-R213.00	-R15.98
					R8271.02
	Add for sundries and contingencies except A	@	3.00%	-R228.98	-R6.87
					R8264.15
	Add for water charges except A	@	1.00%	-R235.85	-R2.36
					R8261.79
	Add GST (multiplying factor) except A		0.1405	-R238.21	-R33.47
					R8228.32
	Add for contractor's profit and overheads except A	@	15.00%	-R271.68	-R40.75
					R8187.57
	Add cess except A	@	1.00%	-R312.43	-R3.12
	Cost of 10 sqm.				R8184.45
	Cost of 1 Sqm.				R818.45
	Say				R818.50

10.15.4	Medium shade pigment with 50% white cemen	nt and 50%	% ordinary	cement	
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.15.1	Rate as per item no 10.15.1 of SH: Flooring (A)	sqm	10.000	R850.00	R8500.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10017	Add for Green or blue medium shade pigment	kg.	2.840	R60.00	R170.40
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Add difference of cost due to using white cement instead of grey cement				
03002	Add for White Cement	tonne	0.0203	R12400.00	R251.72
03001	Deduct for Portland Cement	tonne	-0.0203	R5800.00	-R117.74
					R8591.38
	Add for sundries and contingencies except A	@	3.00%	R91.38	R2.74
					R8594.12
	Add for water charges except A	@	1.00%	R94.12	R0.94
					R8595.06
	Add GST (multiplying factor) except A		0.1405	R95.06	R13.36
					R8608.42
	Add for contractor's profit and overheads except A	@	15.00%	R108.42	R16.26
					R8624.68
	Add cess except A	@	1.00%	R124.68	R1.25
	Cost of 10 sqm.				R8625.93
	Cost of 1 Sqm.				R862.59
	Say				R862.60

10.15.5	Using light shade pigment with white cement in top layer						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 Sqm						
	Materials:-						
10.15.1	Rate as per item no 10.15.1 of SH: Flooring (A)	sqm	10.000	R850.00	R8500.00		
	Add difference of cost due to using light shade pigment instead of dark shade pigment						
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	2.840	R80.00	R227.20		
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00		
	Add difference of cost due to using white cement instead of grey cement						
03002	Add for White Cement	tonne	0.0203	R12400.00	R251.72		
03001	Deduct for Portland Cement	tonne	-0.0203	R5800.00	-R117.74		
					R8648.18		
	Add for sundries and contingencies except A	@	3.00%	R148.18	R4.45		
					R8652.63		
	Add for water charges except A	@	1.00%	R152.63	R1.53		

					R8654.16
	Add GST (multiplying factor) except A		0.1405	R154.16	R21.66
					R8675.82
	Add for contractor's profit and overheads except A	@	15.00%	R175.82	R26.37
					R8702.19
	Add cess except A	@	1.00%	R202.19	R2.02
	Cost of 10 sqm.				R8704.21
	Cost of 1 Sqm.				R870.42
_	Say				R870.40

10.15.6	Using white cement in top layer with no pigm	ent			
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
a)	For underlayer 34mm thick				
04003	Well burnt brick aggregate 12.5 mm	cum	0.240	R3880.00	R931.20
04003	Well burnt brick aggregate 10 mm	cum	0.080	R3880.00	R310.40
0405	Carriage of Well burnt brick aggregate	cum	0.320	R147.57	R47.22
02003	Fine sand	cum	0.151	R560.00	R84.56
0425	Carriage of Fine sand	cum	0.151	R131.75	R19.89
03001	Cement	tonne	0.020	R5800.00	R116.00
03001	Cement for slurry	tonne	0.109	R5800.00	R632.20
0421	Carriage of cement	tonne	0.129	R102.47	R13.22
b)	For top layer 6mm thick				
03006	Marble chips 1 to 4 mm size	quintal	0.958	R500.00	R479.00
0431	Carriage of Marble chips	cum	0.056	R120.56	R6.75
03002	White Cement	tonne	0.0405	R12400.00	R502.20
0421	Carriage of cement	tonne	0.0405	R102.47	R4.15
03004	Marble powder	cum	0.007	R3600.00	R25.20
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.79	R395.00	R707.05
0203	Beldar	Day	1.99	R310.00	R616.90
0205	Bhisti	Day	1.04	R310.00	R322.40
0228	Skilled Beldar (for floor rubbing etc.)	Day	1.00	R440.00	R440.00
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50
0120	Machine for rubbing of floors	Day	1.60	R320.00	R512.00
					R5818.04
	Add for sundries and contingencies	@	3.00%	R5818.04	R174.54
					R5992.58
	Add for water charges	@	1.00%	R5992.58	R59.93
					R6052.51
	Add GST (multiplying factor)		0.1405	R6052.51	R850.38
					R6902.89
	Add for contractor's profit and overheads	@	15.00%	R6902.89	R1035.43

				R7938.32
Add cess	@	1.00%	R7938.32	R79.38
Cost of 10 sqm.				R8017.70
Cost of 1 Sqm.				R801.77
Say				R801.80

10.16	Providing and laying 40 mm thick marble chunder layer 28 mm thick cement concrete 1: aggregate 12.5 mm nominal size) and top layellow, pink, blue or green marble chips of simarble powder mix 3:1 (3 cement: 1 marble marble powder mix: 3 marble chips) by volu	2:4(1 or ayer 12 mizes from le powder	rdinary cem nm thick w 7 mm to 10) by weight	nent: 2 fine sand ith white, black, mm nominal siz in proportion of	: 4 graded stone chocolate, grey, ze laid in cement f 2 : 3 (2 cement
10.16.1	Dark shade pigment with ordinary cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
a)	For underlayer 28mm thick				
04008	Stone aggregate 12.5 mm	cum	0.190	R4730.00	R898.70
04008	Stone aggregate 10 mm	cum	0.060	R4730.00	R283.80
04006	Carriage of stone aggregate	cum	0.250	R147.57	R36.89
02003	Fine sand	cum	0.125	R560.00	R70.00
0425	Carriage of Fine sand	cum	0.125	R131.75	R16.47
03001	Cement	tonne	0.020	R5800.00	R116.00
03001	Cement for slurry	tonne	0.0897	R5800.00	R520.26
0421	Carriage of cement	tonne	0.110	R102.47	R11.24
b)	For top layer 12mm thick				
03003	Marble chips 7 to 10 mm size	quintal	1.734	R500.00	R867.00
0431	Carriage of Marble chips	cum	0.102	R120.56	R12.30
03001	Cement	tonne	0.081	R5800.00	R469.80
0421	Carriage of cement	tonne	0.081	R102.47	R8.30
03004	Marble powder	cum	0.017	R3600.00	R61.20
0431	Carriage of Marble powder	cum	0.017	R120.56	R2.05
10007	Black colour dark shade pigment @ 3.5kg/50kg of cement = 81x3.5/50=5.67kg	kg.	5.670	R75.00	R425.25
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.79	R395.00	R707.05
0203	Beldar	Day	1.75	R310.00	R542.50
0205	Bhisti	Day	2.27	R310.00	R703.70
0228	Skilled Beldar (for floor rubbing etc.)	Day	1.50	R440.00	R660.00
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.15	R440.00	R66.00
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	@	2.00%	R1150.00	R23.00
0120	Machine for rubbing of floors	@	8.00%	R320.00	R25.60
					R6527.11
	Add for sundries and contingencies in/c carriage of pigment & marble powder etc. [Lumpsum]	@	5.00%	R6527.11	R326.36
					R6853.47

Add for water charges	@	1.00%	R6853.47	R68.53
				R6922.00
Add GST (multiplying factor)		0.1405	R6922.00	R972.54
				R7894.54
Add for contractor's profit and overheads	@	15.00%	R7894.54	R1184.18
				R9078.72
Add cess	@	1.00%	R9078.72	R90.79
Cost of 10 sqm.				R9169.51
Cost of 1 Sqm.				R916.95
Say				R917.00

10.16.2	Light shade pigment with ordinary cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.16.1	Rate as per item no 10.16.1 of SH: Flooring (A)	sqm	10.000	R917.00	R9170.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	5.670	R80.00	R453.60
10007	Deduct for Black colour dark shade pigment	kg.	-5.670	R75.00	-R425.25
					R9198.35
	Add for sundries and contingencies except A	@	3.00%	R28.35	R0.85
					R9199.20
	Add for water charges except A	@	1.00%	R29.20	R0.29
					R9199.49
	Add GST (multiplying factor) except A		0.1405	R29.49	R4.14
					R9203.63
	Add for contractor's profit and overheads except A	@	15.00%	R33.63	R5.04
					R9208.67
	Add cess except A	@	1.00%	R38.67	R0.39
	Cost of 10 sqm.				R9209.06
	Cost of 1 Sqm.				R920.91
	Say				R920.90

10.16.3	Ordinary cement without any pigment				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.16.1	Rate as per item no 10.16.1 of SH: Flooring (A)	sqm	10.000	R917.00	R9170.00
	Less cost of dark shade pigment				
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Deduct for for carriage of pigment (LS)	@	7.50%	-R213.00	-R15.98
					R8941.02
	Add for sundries and contingencies except A	@	3.00%	-R228.98	-R6.87

				R8934.15
Add for water charges except A	@	1.00%	-R235.85	-R2.36
				R8931.79
Add GST (multiplying factor) except A		0.1405	-R238.21	-R33.47
				R8898.32
Add for contractor's profit and overheads except A	@	15.00%	-R271.68	-R40.75
				R8857.57
Add cess except A	@	1.00%	-R312.43	-R3.12
Cost of 10 sqm.				R8854.45
Cost of 1 Sqm.				R885.45
Say				R885.50

10.16.4	Medium shade pigment with 50% white cemen	it and 509	% ordinary c	ement	
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.16.1	Rate as per item no 10.16.1 of SH: Flooring (A)	sqm	10.000	R917.00	R9170.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10017	Add for Green or blue medium shade pigment	kg.	2.840	R60.00	R170.40
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Add difference of cost due to using white cement instead of grey cement				
03002	Add for White Cement	tonne	0.0203	R12400.00	R251.72
03001	Deduct for Portland Cement	tonne	-0.0203	R5800.00	-R117.74
					R9261.38
	Add for sundries and contingencies except A	@	3.00%	R91.38	R2.74
					R9264.12
	Add for water charges except A	@	1.00%	R94.12	R0.94
					R9265.06
	Add GST (multiplying factor) except A		0.1405	R95.06	R13.36
					R9278.42
	Add for contractor's profit and overheads except A	@	15.00%	R108.42	R16.26
					R9294.68
	Add cess except A	@	1.00%	R124.68	R1.25
	Cost of 10 sqm.				R9295.93
	Cost of 1 Sqm.				R929.59
	Say				R929.60

10.16.5	Using light shade pigment with white cement in top layer					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 Sqm					
	Materials:-					
10.16.1	Rate as per item no 10.16.1 of SH: Flooring (A)	sqm	10.000	R917.00	R9170.00	

	Add difference of cost due to using light shade				
	pigment instead of dark shade pigment				
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	2.840	R80.00	R227.20
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Add difference of cost due to using white cement instead of grey cement				
03002	Add for White Cement	tonne	0.0203	R12400.00	R251.72
03001	Deduct for Portland Cement	tonne	-0.0203	R5800.00	-R117.74
					R9318.18
	Add for sundries and contingencies except A	@	3.00%	R148.18	R4.45
					R9322.63
	Add for water charges except A	@	1.00%	R152.63	R1.53
					R9324.16
	Add GST (multiplying factor) except A		0.1405	R154.16	R21.66
					R9345.82
	Add for contractor's profit and overheads except A	@	15.00%	R175.82	R26.37
					R9372.19
	Add cess except A	@	1.00%	R202.19	R2.02
	Cost of 10 sqm.				R9374.21
	Cost of 1 Sqm.				R937.42
	Say				R937.40

10.16.6	Using white cement in top layer with I	no pigment			
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
a)	For underlayer 28mm thick				
04008	Stone aggregate 12.5 mm	cum	0.190	R4730.00	R898.70
04008	Stone aggregate 10 mm	cum	0.060	R4730.00	R283.80
04006	Carriage of stone aggregate	cum	0.250	R147.57	R36.89
02003	Fine sand	cum	0.125	R560.00	R70.00
0425	Carriage of Fine sand	cum	0.125	R131.75	R16.47
03001	Cement	tonne	0.0897	R5800.00	R520.26
03001	Cement for slurry	tonne	0.020	R5800.00	R116.00
0421	Carriage of cement	tonne	0.1097	R102.47	R11.24
b)	For top layer 12mm thick				
03006	Marble chips 1 to 4 mm size	quintal	1.916	R500.00	R958.00
0431	Carriage of Marble chips	cum	0.113	R120.56	R13.60
03002	White Cement	tonne	0.0810	R12400.00	R1004.40
0421	Carriage of cement	tonne	0.0810	R102.47	R8.30
03004	Marble powder	cum	0.017	R3600.00	R61.20
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.79	R395.00	R707.05
0203	Beldar	Day	1.99	R310.00	R616.90
0205	Bhisti	Day	1.04	R310.00	R322.40

0228	Skilled Beldar (for floor rubbing etc.)	Day	1.00	R440.00	R440.00
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50
0120	Machine for rubbing of floors	Day	1.60	R320.00	R512.00
					R6644.91
	Add for sundries and contingencies in/c carriage of pigment & marble powder etc. [Lumpsum]	@	3.00%	R6644.91	R199.35
					R6844.26
	Add for water charges	@	1.00%	R6844.26	R68.44
					R6912.70
	Add GST (multiplying factor)		0.1405	R6912.70	R971.23
					R7883.93
	Add for contractor's profit and overheads	@	15.00%	R7883.93	R1182.59
					R9066.52
	Add cess	@	1.00%	R9066.52	R90.67
	Cost of 10 sqm.				R9157.19
	Cost of 1 Sqm.				R915.72
	Say	_			R915.70

Providing and laying 40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 ordinary cement: 2 fine sand: 4 graded well burnt brick aggregate 12.5 mm nominal size) and top layer 12 mm thick with white, black, chocolate, grey, yellow, pink, blue or green marble chips of sizes from 1 mm to 4 mm nominal size laid in cement marble powder mix 3:1 (3 cement: 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix: 7 marble chips) by volume including cement slurry etc. complete.

10.17.1	Dark shade pigment with ordinary cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
a)	For underlayer 34mm thick				
04003	12.5 mm nominal size well burnt brick aggrega	cum	0.190	R3880.00	R737.20
04003	10 mm nominal size well burnt brick aggregate	cum	0.060	R3880.00	R232.80
0405	Carriage of Well burnt brick aggregate	cum	0.250	R147.57	R36.89
02003	Fine sand	cum	0.125	R560.00	R70.00
0425	Carriage of Fine sand	cum	0.125	R131.75	R16.47
03001	Cement	tonne	0.020	R5800.00	R116.00
03001	Cement for slurry	tonne	0.0897	R5800.00	R520.26
0421	Carriage of cement	tonne	0.110	R102.47	R11.24
b)	For top layer 6mm thick				
03003	Marble chips upto 4mm and downsize White & black	quintal	1.734	R500.00	R867.00
0431	Carriage of Marble chips	cum	0.102	R120.56	R12.30
03001	Cement	tonne	0.081	R5800.00	R469.80
0421	Carriage of cement	tonne	0.081	R102.47	R8.30
03004	Marble powder	cum	0.017	R3600.00	R61.20

0431	Carriage of Marble powder	cum	0.017	R120.56	R2.05
10007	Dark shade pigment = 3.5kg/ 50kg of cement = 40.5x3.5/50=2.84kg	kg.	5.670	R75.00	R425.25
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.79	R395.00	R707.05
0203	Belder	Day	1.75	R310.00	R542.50
0205	Bhisti	Day	2.27	R310.00	R703.70
0228	Skilled Beldar (for floor rubbing etc.)	Day	1.50	R440.00	R660.00
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.15	R440.00	R66.00
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	2.00%	R1150.00	R23.00
0120	Machine for rubbing of floors	Day	8.00%	R320.00	R25.60
					R6314.61
	Add for sundries and contingencies in/c carriage of pigment & marble powder etc. [Lumpsum]	@	5.00%	R6314.61	R315.73
					R6630.34
	Add for water charges	@	1.00%	R6630.34	R66.30
					R6696.64
	Add GST (multiplying factor)		0.1405	R6696.64	R940.88
					R7637.52
	Add for contractor's profit and overheads	@	15.00%	R7637.52	R1145.63
					R8783.15
	Add cess	@	1.00%	R8783.15	R87.83
	Cost of 10 sqm.				R8870.98
	Cost of 1 Sqm.				R887.10
	Say				R887.10

10.17.2	Light shade pigment with ordinary cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.17.1	Rate as per item no 10.17.1 of SH: Flooring (A)	sqm	10.000	R887.10	R8871.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	5.670	R80.00	R453.60
10007	Deduct for Black colour dark shade pigment	kg.	-5.670	R75.00	-R425.25
					R8899.35
	Add for sundries and contingencies except A	@	3.00%	R28.35	R0.85
					R8900.20
	Add for water charges except A	@	1.00%	R29.20	R0.29
					R8900.49
	Add GST (multiplying factor) except A		0.1405	R29.49	R4.14
					R8904.63
	Add for contractor's profit and overheads except A	@	15.00%	R33.63	R5.04

					R8909.67
Add cess	except A	@	1.00%	R38.67	R0.39
Cost of 10	sqm.				R8910.06
Cost of 1	Sqm.				R891.01
Say					R891.00

10.17.3	Ordinary cement without any pigment				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.17.1	Rate as per item no 10.17.1 of SH: Flooring (A)	sqm	10.000	R887.10	R8871.00
	Less cost of dark shade pigment				
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Deduct for for carriage of pigment (LS)	@	7.50%	-R213.00	-R15.98
					R8642.02
	Add for sundries and contingencies except A	@	3.00%	-R228.98	-R6.87
					R8635.15
	Add for water charges except A	@	1.00%	-R235.85	-R2.36
					R8632.79
	Add GST (multiplying factor) except A		0.1405	-R238.21	-R33.47
					R8599.32
	Add for contractor's profit and overheads except A	@	15.00%	-R271.68	-R40.75
					R8558.57
	Add cess except A	@	1.00%	-R312.43	-R3.12
	Cost of 10 sqm.				R8555.45
	Cost of 1 Sqm.				R855.55
	Say				R855.60

10.17.4	Medium shade pigment with 50% white cement and 50% ordinary cement						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 Sqm						
	Materials:-						
10.17.1	Rate as per item no 10.17.1 of SH: Flooring (A)	sqm	10.000	R887.10	R8871.00		
	Add difference of cost due to using light shade pigment instead of dark shade pigment						
10017	Add for Green or blue medium shade pigment	kg.	2.840	R60.00	R170.40		
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00		
	Add difference of cost due to using white cement instead of grey cement						
03002	Add for White Cement	tonne	0.0203	R12400.00	R251.72		
03001	Deduct for Portland Cement	tonne	-0.0203	R5800.00	-R117.74		
					R8962.38		
	Add for sundries and contingencies except A	@	3.00%	R91.38	R2.74		
					R8965.12		
	Add for water charges except A	@	1.00%	R94.12	R0.94		
					R8966.06		

Add GST (multiplying factor) except A		0.1405	R95.06	R13.36
				R8979.42
Add for contractor's profit and overheads except A	@	15.00%	R108.42	R16.26
				R8995.68
Add cess except A	@	1.00%	R124.68	R1.25
Cost of 10 sqm.				R8996.93
Cost of 1 Sqm.				R899.69
Say				R899.70

10.17.5	Using light shade pigment with white cement i	in top lay	er		
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.17.1	Rate as per item no 10.17.1 of SH: Flooring (A)	sqm	10.000	R887.10	R8871.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	2.840	R80.00	R227.20
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Add difference of cost due to using white cement instead of grey cement				
03002	Add for White Cement	tonne	0.0203	R12400.00	R251.72
03001	Deduct for Portland Cement	tonne	-0.0203	R5800.00	-R117.74
					R9019.18
	Add for sundries and contingencies except A	@	3.00%	R148.18	R4.45
					R9023.63
	Add for water charges except A	@	1.00%	R152.63	R1.53
					R9025.16
	Add GST (multiplying factor) except A		0.1405	R154.16	R21.66
					R9046.82
	Add for contractor's profit and overheads except A	@	15.00%	R175.82	R26.37
					R9073.19
	Add cess except A	@	1.00%	R202.19	R2.02
	Cost of 10 sqm.				R9075.21
	Cost of 1 Sqm.				R907.52
	Say				R907.50

10.17.6	Using white cement in top layer with no pigment						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 Sqm						
	Materials:-						
a)	For underlayer 28mm thick						
04003	Well burnt brick aggregate 12.5 mm	cum	0.190	R3880.00	R737.20		
04003	Well burnt brick aggregate 10 mm	cum	0.060	R3880.00	R232.80		
0405	Carriage of Well burnt brick aggregate	cum	0.250	R147.57	R36.89		
02003	Fine sand	cum	0.125	R560.00	R70.00		

0425	Carriage of Fine sand	cum	0.125	R131.75	R16.47
03001	Cement	tonne	0.0897	R5800.00	R520.26
03001	Cement for slurry	tonne	0.020	R5800.00	R116.00
0421	Carriage of cement	tonne	0.1097	R102.47	R11.24
b)	For top layer 12mm thick				
03006	Marble chips 1 to 4 mm size	quintal	1.916	R500.00	R958.00
0431	Carriage of Marble chips	cum	0.113	R120.56	R13.60
03002	White Cement	tonne	0.0810	R12400.00	R1004.40
0421	Carriage of cement	tonne	0.0810	R102.47	R8.30
03004	Marble powder	cum	0.017	R3600.00	R61.20
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.79	R395.00	R707.05
0203	Beldar	Day	1.99	R310.00	R616.90
0205	Bhisti	Day	1.04	R310.00	R322.40
0228	Skilled Beldar (for floor rubbing etc.)	Day	1.00	R440.00	R440.00
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	0.03	R440.00	R13.20
	Machineries:-				
0113	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	Day	0.03	R1150.00	R34.50
0120	Machine for rubbing of floors	Day	1.60	R320.00	R512.00
					R6432.4
	Add for sundries and contingencies	@	3.00%	R6432.41	R192.97
					R6625.38
	Add for water charges	@	1.00%	R6625.38	R66.25
					R6691.63
	Add GST (multiplying factor)		0.1405	R6691.63	R940.17
					R7631.80
	Add for contractor's profit and overheads	@	15.00%	R7631.80	R1144.77
					R8776.57
	Add cess	@	1.00%	R8776.57	R87.7
	Cost of 10 sqm.				R8864.34
	Cost of 1 Sqm.				R886.43
	Say				R886.40

Providing and laying marble chips skirting (upto 300 mm height) rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow, pink, blue or green marble chips of sizes from 1 mm to 4 mm nominal size laid in cement marble powder mix 3: 1 (3 cement : 1 marble powder) by weight in proportion of 4 : 7 (4 cement marble powder mix : 7 marble chips) by volume including cement slurry etc. complete.

10.18.1 18 mm thick with under layer 12 mm thick cement plaster 1 : 3 (1 Cement : 3 fine sand)

10.18.1.1	Using dark shade pigment with ordinary cement in top layer							
Code	Description Unit Quantity Rate Amoun							
	Detail of cost for 10 Sqm							
	Materials:-							
a)	Under layer 12mm thick							
03001	Cement for slurry	tonne	0.0405	R5800.00	R234.90			

0421	Carriage of cement	tonne	0.0405	R102.47	R4.15
	Cement mortar 1 : 3 (1 cement : 3 fine sand) 12mm thick cement mortar = 0.144 cum Extra for rounding = 0.030 cum Total = 0.174 cum	cum	0.174	R4026.43	R700.60
	(Rate as per item no. 3.3)				
b)	Top layer 6mm thick				
03006	Marble chips 1 to 4 mm size	quintal	0.872	R500.00	R436.00
0431	Carriage of Marble chips	cum	0.051	R120.56	R6.15
03001	Cement	tonne	0.041	R5800.00	R237.80
0421	Carriage of cement	tonne	0.041	R102.47	R4.20
03004	Marble dust/ powder	cum	0.007	R3600.00	R25.20
0431	Carriage of Marble powder	cum	0.007	R120.56	R0.84
10007	Dark shade pigment @ 3.5Kg per 50Kg of cement = (3.50x41)/50 = 2.87Kg.	kg.	2.840	R75.00	R213.00
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	3.00	R395.00	R1185.00
0203	Beldar	Day	3.00	R310.00	R930.00
0205	Bhisti	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	7	R440.00	R3080.00
					R7367.84
	Add for sundries (Carriage of pigment & marble powder etc) and contingencies [LS]	@	4.00%	R7367.84	R294.71
					R7662.55
	Add for water charges	@	1.00%	R7662.55	R76.63
					R7739.18
	Add GST (multiplying factor)		0.1405	R7739.18	R1087.35
					R8826.53
	Add for contractor's profit and overheads	@	15.00%	R8826.53	R1323.98
					R10150.51
	Add cess	@	1.00%	R10150.51	R101.51
Cost	Cost of 10 sqm.				R10252.02
	Cost of 1 Sqm.				R1025.20
	Say				R1025.20

10.18.1.2	0.18.1.2 Using light shade pigment with ordinary cement in top layer							
Code	Description	Unit	Quantity	Rate	Amount			
	Detail of cost for 10 Sqm							
	Materials:-							
10.18.1	Rate as per item no 10.18.1(i) of SH: Flooring (A)	sqm	10.000	R1025.20	R10252.00			
	Add difference of cost due to using light shade pigment instead of dark shade pigment							
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	2.840	R80.00	R227.20			
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00			
					R10266.20			

Add for sundries and contingencies except A	@	3.00%	R14.20	R0.43
				R10266.63
Add for water charges except A	@	1.00%	R14.63	R0.15
				R10266.78
Add GST (multiplying factor) except A		0.1405	R14.78	R2.08
				R10268.86
Add for contractor's profit and overheads except A	@	15.00%	R16.86	R2.53
				R10271.39
Add cess except A	@	1.00%	R19.39	R0.19
Cost of 10 sqm.				R10271.58
Cost of 1 Sqm.				R1027.16
Say				R1027.20

10.18.1.3	Using ordinary cement in top layer with no pig	gment			
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.18.1	Rate as per item no 10.18.1(i) of SH: Flooring (A)	sqm	10.000	R1025.20	R10252.00
03004	Marble dust and/or marble chips	cum	0.007	R3600.00	R25.20
	Less cost of dark shade pigment				
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Deduct for for carriage of pigment (LS)	@	0.05%	-R213.00	-R0.11
					R10064.09
	Add for sundries and contingencies except A	@	3.00%	-R187.91	-R5.64
					R10058.45
	Add for water charges except A	@	1.00%	-R193.55	-R1.94
					R10056.51
	Add GST (multiplying factor) except A		0.1405	-R195.49	-R27.47
					R10029.04
	Add for contractor's profit and overheads except A	@	15.00%	-R222.96	-R33.44
					R9995.60
_	Add cess except A	@	1.00%	-R256.40	-R2.56
	Cost of 10 sqm.				R9993.04
	Cost of 1 Sqm.				R999.30
_	Say	_			R999.30

10.18.1.4	10.18.1.4 Medium shade pigment with 50% white cement and 50% ordinary cement							
Code	Description	Unit	Quantity	Rate	Amount			
	Detail of cost for 10 Sqm							
	Materials:-							
10.18.1	Rate as per item no 10.18.1 of SH: Flooring (A)	sqm	10.000	R1025.20	R10252.00			
	Add difference of cost due to using light shade pigment instead of dark shade pigment							
10017	Add for Green or blue medium shade pigment	kg.	2.840	R60.00	R170.40			

10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Add difference of cost due to using white cement instead of grey cement				
03002	Add for White Cement	tonne	0.0203	R12400.00	R251.72
03001	Deduct for Portland Cement	tonne	-0.0203	R5800.00	-R117.74
					R10343.38
	Add for sundries and contingencies except A	@	3.00%	R91.38	R2.74
					R10346.12
	Add for water charges except A	@	1.00%	R94.12	R0.94
					R10347.06
	Add GST (multiplying factor) except A		0.1405	R95.06	R13.36
					R10360.42
	Add for contractor's profit and overheads except A	@	15.00%	R108.42	R16.26
					R10376.68
	Add cess except A	@	1.00%	R124.68	R1.25
	Cost of 10 sqm.				R10377.93
	Cost of 1 Sqm.				R1037.79
	Say				R1037.80

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.18.1	Rate as per item no 10.18.1 of SH: Flooring (A)	sqm	10.000	R1025.20	R10252.0
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	2.840	R80.00	R227.20
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.0
	Add difference of cost due to using white cement instead of grey cement				
03002	Add for White Cement	tonne	0.0405	R12400.00	R502.20
03001	Deduct for Portland Cement	tonne	-0.0405	R5800.00	-R234.90
					R10533.50
	Add for sundries and contingencies except A	@	3.00%	R281.50	R8.4
					R10541.9
	Add for water charges except A	@	1.00%	R289.95	R2.90
					R10544.8
	Add GST (multiplying factor) except A		0.1405	R292.85	R41.1
					R10586.00
	Add for contractor's profit and overheads except A	@	15.00%	R334.00	R50.10
					R10636.10
	Add cess except A	@	1.00%	R384.10	R3.84
	Cost of 10 sqm.				R10639.94
	Cost of 1 Sqm.				R1063.99
·	Say				R1064.00

	Using white cement in top layer with no pign	1	<u> </u>		l e e e e e e e e e e e e e e e e e e e
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
a)	Under layer 12mm thick				
03001	Cement for slurry	tonne	0.020	R5800.00	R116.00
0421	Carriage of cement	tonne	0.020	R102.47	R2.05
	Cement mortar 1 : 3 (1 cement : 3 fine sand) 12mm thick cement mortar = 0.144 cum Extra for rounding = 0.030 cum Total = 0.174 cum	cum	0.174	R4026.43	R700.60
	(Rate as per item no. 3.3)	1			
b)	Top layer 6mm thick				
03006	Marble chips 1 to 4 mm size	quintal	0.958	R500.00	R479.00
0431	Carriage of Marble chips	cum	0.056	R120.56	R6.75
03001	White Cement	tonne	0.0405	R5800.00	R234.90
0421	Carriage of cement	tonne	0.0405	R102.47	R4.15
03004	Marble powder	cum	0.007	R3600.00	R25.20
0431	Carriage of Marble powder	cum	0.007	R120.56	R0.84
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	3.00	R395.00	R1185.00
0203	Beldar	Day	3.00	R310.00	R930.00
0205	Bhisti	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	7.00	R440.00	R3080.00
					R7074.49
	Add for sundries and contingencies	@	3.00%	R7074.49	R212.23
					R7286.72
	Add for water charges	@	1.00%	R7286.72	R72.87
		1			R7359.59
	Add GST (multiplying factor)	1	0.1405	R7359.59	R1034.02
		1			R8393.61
	Add for contractor's profit and overheads	@	15.00%	R8393.61	R1259.04
					R9652.65
	Add cess	@	1.00%	R9652.65	R96.53
	Cost of 10 sqm.	†	† †		R9749.18
	Cost of 1 Sqm.	†	† †		R974.92
	Say				R974.90

10.18.2 21 mm thick with under layer 12 mm thick cement plaster 1 : 3 (1 Cement : 3 fine sand)

10.18.2.1	Using dark shade pigment with ordinary cement in top layer						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 Sqm						
	Materials:-						
a)	Under layer 15mm thick						
03001	Cement for slurry	tonne	0.020	R5800.00	R116.00		
0421	Carriage of cement	tonne	0.020	R102.47	R2.05		

	Cement mortar 1 : 3 (1 cement : 3 fine sand) 15mm thick cement mortar = 0.180 cum Extra for rounding = 0.022 cum Total = 0.202 cum	cum	0.202	R4026.43	R813.34
	(Rate as per item no. 3.3)				
b)	Top layer 6mm thick				
03006	Marble chips 1 to 4 mm size	quintal	0.872	R500.00	R436.00
0431	Carriage of Marble chips	cum	0.051	R120.56	R6.15
03001	Cement	tonne	0.041	R5800.00	R237.80
0421	Carriage of cement	tonne	0.041	R102.47	R4.20
03004	Marble dust/ powder	cum	0.007	R3600.00	R25.20
0431	Carriage of Marble powder	cum	0.007	R120.56	R0.84
10007	Dark shade pigment @ 3.5Kg per 50Kg of cement = (3.50x41)/50 = 2.87Kg.	kg.	2.840	R75.00	R213.00
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	3.00	R395.00	R1185.00
0203	Beldar	Day	3.00	R310.00	R930.00
0205	Bhisti	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	7	R440.00	R3080.00
					R7359.58
	Add for sundries (Carriage of pigment & marble powder etc) and contingencies [LS]	@	4.00%	R7359.58	R294.38
					R7653.96
	Add for water charges	@	1.00%	R7653.96	R76.54
					R7730.50
	Add GST (multiplying factor)		0.1405	R7730.50	R1086.14
					R8816.64
	Add for contractor's profit and overheads	@	15.00%	R8816.64	R1322.50
					R10139.14
	Add cess	@	1.00%	R10139.14	R101.39
	Cost of 10 sqm.				R10240.53
	Cost of 1 Sqm.				R1024.05
	Say				R1024.10

10.18.2.2	Using light shade pigment with ordinary ceme	nt in top	layer		
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.18.2	Rate as per item no 10.18.2 of SH: Flooring (A)	sqm	10.000	R1024.10	R10241.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	2.840	R80.00	R227.20
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
					R10255.20
	Add for sundries and contingencies except A	@	3.00%	R14.20	R0.43
					R10255.63
	Add for water charges except A	@	1.00%	R14.63	R0.15

				R10255.78
Add GST (multiplying factor) except A		0.1405	R14.78	R2.08
				R10257.86
Add for contractor's profit and overheads except A	@	15.00%	R16.86	R2.53
				R10260.39
Add cess except A	@	1.00%	R19.39	R0.19
Cost of 10 sqm.				R10260.58
Cost of 1 Sqm.				R1026.06
Say				R1026.10

10.18.2.3	Using ordinary cement in top layer with no pig	gment			
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.18.2	Rate as per item no 10.18.2 of SH: Flooring (A)	sqm	10.000	R1024.10	R10241.00
03004	Marble dust and/or marble chips	cum	0.007	R3600.00	R25.20
	Less cost of dark shade pigment				
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Deduct for for carriage of pigment (LS)	@	0.05%	-R213.00	-R0.11
					R10053.09
	Add for sundries and contingencies except A	@	3.00%	-R187.91	-R5.64
					R10047.45
	Add for water charges except A	@	1.00%	-R193.55	-R1.94
					R10045.51
	Add GST (multiplying factor) except A		0.1405	-R195.49	-R27.47
					R10018.04
	Add for contractor's profit and overheads except A	@	15.00%	-R222.96	-R33.44
					R9984.60
	Add cess except A	@	1.00%	-R256.40	-R2.56
	Cost of 10 sqm.				R9982.04
	Cost of 1 Sqm.				R998.20
	Say				R998.20

10.18.2.4	Medium shade pigment with 50% white cement and 50% ordinary cement						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 Sqm						
	Materials:-						
10.18.2	Rate as per item no 10.18.1 of SH: Flooring (A)	sqm	10.000	R1024.10	R10241.00		
	Add difference of cost due to using light shade pigment instead of dark shade pigment						
10017	Add for Green or blue medium shade pigment	kg.	2.840	R60.00	R170.40		
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00		
	Add difference of cost due to using white cement instead of grey cement						
03002	Add for White Cement	tonne	0.0203	R12400.00	R251.72		

03001	Deduct for Portland Cement	tonne	-0.0203	R5800.00	-R117.74
					R10332.38
	Add for sundries and contingencies except A	@	3.00%	R91.38	R2.74
					R10335.12
	Add for water charges except A	@	1.00%	R94.12	R0.94
					R10336.06
	Add GST (multiplying factor) except A		0.1405	R95.06	R13.36
					R10349.42
	Add for contractor's profit and overheads except A	@	15.00%	R108.42	R16.26
					R10365.68
	Add cess except A	@	1.00%	R124.68	R1.25
	Cost of 10 sqm.				R10366.93
	Cost of 1 Sqm.				R1036.69
	Say				R1036.70

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10.18.2	Rate as per item no 10.18.2 of SH: Flooring (A)	sqm	10.000	R1024.10	R10241.00
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
10027	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	2.840	R80.00	R227.20
10007	Deduct for Black colour dark shade pigment	kg.	-2.840	R75.00	-R213.00
	Add difference of cost due to using white cement instead of grey cement				
03002	Add for White Cement	tonne	0.0405	R12400.00	R502.20
03001	Deduct for Portland Cement	tonne	-0.0405	R5800.00	-R234.90
					R10522.50
	Add for sundries and contingencies except A	@	3.00%	R281.50	R8.45
					R10530.95
	Add for water charges except A	@	1.00%	R289.95	R2.90
					R10533.8
	Add GST (multiplying factor) except A		0.1405	R292.85	R41.15
					R10575.00
	Add for contractor's profit and overheads except A	@	15.00%	R334.00	R50.10
					R10625.10
	Add cess except A	@	1.00%	R384.10	R3.84
	Cost of 10 sqm.				R10628.94
	Cost of 1 Sqm.				R1062.89
	Say				R1062.90

10.18.2.6 Using white cement in top layer with no pigment						
Code	Description	Unit	Quantity	Rate	Amount	

	Detail of cost for 10 Sqm				
	Materials:-				
a)	Under layer 15mm thick				
03001	Cement for slurry	tonne	0.020	R5800.00	R116.00
0421	Carriage of cement	tonne	0.020	R102.47	R2.05
	Cement mortar 1 : 3 (1 cement : 3 fine sand) 15mm thick cement mortar = 0.180 cum Extra for rounding = 0.022 cum Total = 0.202 cum	cum	20.20%	R4026.43	R813.34
	(Rate as per item no. 3.3)				
b)	Top layer 6mm thick				
03006	Marble chips 1 to 4 mm size	quintal	0.958	R500.00	R479.00
0431	Carriage of Marble chips	cum	0.056	R120.56	R6.75
03001	White Cement	tonne	0.0405	R5800.00	R234.90
0421	Carriage of cement	tonne	0.0405	R102.47	R4.15
03004	Marble powder	cum	0.007	R3600.00	R25.20
0431	Carriage of Marble powder	cum	0.007	R120.56	R0.84
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	3.00	R395.00	R1185.00
0203	Beldar	Day	3.00	R310.00	R930.00
0205	Bhisti	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	7.00	R440.00	R3080.00
					R7187.23
	Add for sundries and contingencies	@	3.00%	R7187.23	R215.62
					R7402.85
	Add for water charges	@	1.00%	R7402.85	R74.03
					R7476.88
	Add GST (multiplying factor)		0.1405	R7476.88	R1050.50
					R8527.38
	Add for contractor's profit and overheads	@	15.00%	R8527.38	R1279.11
					R9806.49
	Add cess	@	1.00%	R9806.49	R98.06
	Cost of 10 sqm.				R9904.55
	Cost of 1 Sqm.				R990.46
	Say				R990.50

10.19	Extra for providing and fixing 2.0 mm thick, 40 mm wide aluminium strips in joints of terrazo flooring complete.						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 metre length						
	Materials:-						
10006	Aluminium strips 2 mm thick & 40 mm wide	kg.	2.31	R230.00	R531.30		
	Labour:-						
0224	Mate	Day	0.02	R310.00	R6.20		
0220	Mason (average)	Day	0.25	R395.00	R98.75		
0220	Beldar	Day	0.25	R395.00	R98.75		
					R735.00		
	Add for sundries and contingencies in/c carriage of of aluminium strips etc.	@	3.00%	R735.00	R22.05		

				R757.05
Add GST (multiplying factor)		0.1405	R757.05	R106.37
				R863.42
Add for contractor's profit and overheads	@	15.00%	R863.42	R129.51
				R992.93
Add cess	@	1.00%	R992.93	R9.93
Cost of 10 metre				R1002.86
Cost of 1 metre				R100.29
Say				R100.30

10.20 Extra for providing and fixing glass strips in joints of terrazo flooring complete.

10.20.1	40 mm wide and 4 mm thick.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metre length				
	Materials:-				
10014	Glass strips = 10m Add 10% for wastage = 1m Total = 11m	Metre	11.00	R20.00	R220.00
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	0.25	R395.00	R98.75
0203	Beldar	Day	0.25	R310.00	R77.50
					R396.25
	Add for sundries and contingencies in/c carriage of glass strips [LS]	@	6.50%	R396.25	R25.76
					R422.01
	Add GST (multiplying factor)		0.1405	R422.01	R59.29
					R481.30
	Add for contractor's profit and overheads	@	15.00%	R481.30	R72.20
					R553.50
	Add cess	@	1.00%	R553.50	R5.54
	Cost of 10 metre				R559.04
	Cost of 1 metre				R55.90
_	Say				R55.90

Extra for providing and laying terrazo flooring complete on stair case treads not exceeding 300 mm in width including cost of forming, nosing etc.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	0.60	R395.00	R237.00
0203	Beldar	Day	0.30	R310.00	R93.00
0212	Coolie	Day	0.30	R310.00	R93.00
					R423.00
	Add for sundries and contingencies	@	3.00%	R423.00	R12.69
					R435.69
	Add for water charges	@	1.00%	R435.69	R4.36

				R440.05
Add GST (multiplying factor)		0.1405	R440.05	R61.83
				R501.88
Add for contractor's profit and overheads	@	15.00%	R501.88	R75.28
				R577.16
Add cess	@	1.00%	R577.16	R5.77
Cost of 10 sqm.				R582.93
Cost of 1 Sqm.				R58.29
Say				R58.30

10.22	Providing and fixing precast terrazo tiles 22 mm, laid in floors, landings, on 20 mm thick jointed with neat cement slurry mixed with p and polishing complete.	bed of c	ement mort	ar 1 : 4 (1 ceme	nt: 4 fine sand)
10.22.1	In light shade using white cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10024	Precast terrazzo tiles 22 mm thick (light shade)	Sqm	11.000	R300.00	R3300.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
03001	Cement for slurry	tonne	0.044	R5800.00	R255.20
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
03002	White Cement for grouting	tonne	0.044	R12400.00	R545.60
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
10027	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	3.080	R80.00	R246.40
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.60	R395.00	R632.00
0212	Coolie	Day	2.00	R310.00	R620.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	1.00	R440.00	R440.00
0205	Bhisti	Day	1.00	R310.00	R310.00
	Machineries:-				
0120	Machine for rubbing of floors	Day	1.6	R320.00	R512.00
					R7600.26
	Add for sundries including carborandum stone etc., carriage of tiles and contingencies [LS]	@	4.50%	R7600.26	R342.01
					R7942.27
	Add for water charges	@	1.00%	R7942.27	R79.42
					R8021.69
	Add GST (multiplying factor)		0.1405	R8021.69	R1127.05
					R9148.74
	Add for contractor's profit and overheads	@	15.00%	R9148.74	R1372.31
					R10521.05
	Add cess	@	1.00%	R10521.05	R105.21
	Cost of 10 sqm.				R10626.26
	Cost of 1 Sqm.				R1062.63
	Say				R1062.60

10.23	Providing and fixing precast terrazo tiles 22 mm, laid in skirting, treads, risers of steps no cement mortar 1 : 3 (1 cement : 3 fine sand) j match the shade of tiles including rubbing and	t exceedii ointed wi	ng 300 mm th neat cem	in height, on 12 nent slurry mixed	mm thick bed of
10.23.1	In light shade using white cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
a.	Materials:-				
10024	Precast terrazzo tiles 22 mm thick (light shade)	Sqm	11.000	R300.00	R3300.00
	Cement mortar 1 : 3 (1 cement : 3 fine sand).	cum	0.144	R4026.43	R579.81
03002	White Cement for slurry For buttering tiles bed sides =44 kg. + For grouting =22 kg. Total = 66 kg	tonne	0.066	R12400.00	R818.40
0421	Carriage of cement	tonne	0.066	R102.47	R6.76
10027	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment $66 \times 3.5/50 = 4.62$	kg.	4.620	R80.00	R369.60
b.	Labour:-				
0220	Mason (brick layer) 2nd class	Day	3.25	R395.00	R1283.75
0212	Coolie	Day	3.25	R310.00	R1007.50
0228	Skilled Beldar (for floor rubbing etc.)	Day	7.60	R440.00	R3344.00
					R10709.82
	Add for sundries including carborandum stone and polishing powder etc. carriage of tiles and contingencies [LS]	@	3.00%	R10709.82	R321.29
					R11031.11
	Add for water charges	@	1.00%	R11031.11	R110.31
					R11141.42
	Add GST (multiplying factor)		0.1405	R11141.42	R1565.37
					R12706.79
	Add for contractor's profit and overheads	@	15.00%	R12706.79	R1906.02
					R14612.81
	Add cess	@	1.00%	R14612.81	R146.13
	Cost of 10 sqm.				R14758.94
	Cost of 1 Sqm.				R1475.89
	Say				R1475.90
			•		
	TILE FLOORING				
10.24	Providing and fixing precast terrazo tiles 22 mm, fixed in walls, on 12 mm thick bed of with neat cement slurry mixed with pigmen polishing complete.	cement m	ortar 1 : 3	(1 cement: 3 fir	ne sand) jointed
10.24.1	In light shade using white cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
a.	Materials:-				
10024	Precast terrazzo tiles 22 mm thick (light shade)	Sqm	11.000	R300.00	R3300.00
	Cement mortar 1 : 3 (1 cement : 3 fine sand).	cum	0.144	R4026.43	R579.81
03001	Cement for slurry	tonne	0.044	R5800.00	R255.20

03002	White Cement for grouting	tonne	0.044	R12400.00	R545.60
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
10027	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	3.080	R80.00	R246.40
b.	Labour:-				
0224	Mate	Day	0.39	R310.00	R120.90
0220	Mason (average)	Day	3.00	R395.00	R1185.00
0220	Beldar	Day	4.50	R395.00	R1777.50
0203	Coolie	Day	1.75	R310.00	R542.50
0205	Bhisti/ Waterman	Day	0.5	R310.00	R155.00
C.	Machineries:-				
	Add for cost of oxalic acid powder, carborundum stone & carriage of pigment etc.	@	0.50%	R8716.93	R43.58
	Add for hire and maintenance of pumps, polishing machine etc.	@	0.50%	R8760.51	R43.80
					R8804.31
	Add for sundries and contingencies	@	3.00%	R8804.31	R264.13
					R9068.44
	Add for water charges	@	1.00%	R9068.44	R90.68
					R9159.12
	Add GST (multiplying factor)		0.1405	R9159.12	R1286.86
					R10445.98
	Add for contractor's profit and overheads	@	15.00%	R10445.98	R1566.90
					R12012.88
	Add cess	@	1.00%	R12012.88	R120.13
	Cost of 10 sqm.				R12133.01
	Cost of 1 Sqm.				R1213.30
	Say				R1213.30

10.25	Providing and fixing chequered terrazo tiles mm, laid on floors, footpath & courtyard on a fine sand) jointed with neat cement slurr including rubbing and polishing complete.	20 mm thi	ck bed of	cement mortar 1	: 4 (1 cement : 4
10.25.1	Light shade pigment using white cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
a.	Materials:-				
10013	Chequered terrazzo tiles 22 mm thick (light shade)	Sqm	11.000	R300.00	R3300.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
03001	Cement for slurry	tonne	0.044	R5800.00	R255.20
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
03002	White Cement for grouting	tonne	0.044	R12400.00	R545.60
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
10027	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg.	3.080	R80.00	R246.40
b.	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.60	R395.00	R632.00
0212	Coolie	Day	2.00	R310.00	R620.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	1.00	R440.00	R440.00

0205	Bhisti	Day	1.00	R310.00	R310.00
C.	Machineries:-				
0120	Machine for rubbing of floors	Day	1.60	R320.00	R512.00
					R7600.26
	Add for sundries including carborandum stone and polishing powder etc. carriage of tiles and contingencies [LS]	@	3.00%	R7600.26	R228.01
					R7828.27
	Add for water charges	@	1.00%	R7828.27	R78.28
					R7906.55
	Add GST (multiplying factor)		0.1405	R7906.55	R1110.87
					R9017.42
	Add for contractor's profit and overheads	@	15.00%	R9017.42	R1352.61
					R10370.03
	Add cess	@	1.00%	R10370.03	R103.70
	Cost of 10 sqm.				R10473.73
	Cost of 1 Sqm.				R1047.37
	Say				R1047.40

10.25.2	Dark shade pigment using ordinary cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
a.	Materials:-				
10012	Chequered terrazzo tiles 22 mm thick (dark shade)	Sqm	11.000	R180.00	R1980.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
03001	Cement for slurry	tonne	0.044	R5800.00	R255.20
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
03001	Cement for grouting	tonne	0.044	R5800.00	R255.20
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
10007	Black colour dark shade pigment	kg.	3.080	R75.00	R231.00
b.	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.60	R395.00	R632.00
0212	Coolie	Day	2.00	R310.00	R620.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	1.00	R440.00	R440.00
0205	Bhisti	Day	1.00	R310.00	R310.00
C.	Machineries:-				
0120	Machine for rubbing of floors	Day	1.60	R320.00	R512.00
					R5974.46
	Add for sundries and contingencies	@	3.00%	R5974.46	R179.23
					R6153.69
	Add for water charges	@	1.00%	R6153.69	R61.54
					R6215.23
	Add GST (multiplying factor)		0.1405	R6215.23	R873.24
					R7088.47
	Add for contractor's profit and overheads	@	15.00%	R7088.47	R1063.27
					R8151.74
	Add cess	@	1.00%	R8151.74	R81.52

Cost of 10 sqm.		R8233.26
Cost of 1 Sqm.		R823.33
Say		R823.30

10.26	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resistant cement mortar bedding and joints filled with acid and/or alkali resisting cement as per IS: 4457 complete as per direction of Engineer-in-charge							
10.26.1	In dado/skirting on 12 mm thick mortar 1:4 (1	In dado/skirting on 12 mm thick mortar 1:4 (1 cement : 4 fine sand).						
Code	Description	Unit	Quantity	Rate	Amount			
	Detail of cost for 1 Sqm							
	Materials:-							
10003	Acid proof tiles of size 300x300mm, 10mm thick =11.11 nos+ Add wastage and breakage @ 2.5% = 0.28 nos. '= 11.39 nos. Say 12 nos.	10.00	12 Nos.	R550.00	R660.00			
	12mm thick Cement mortar 1 : 4 (1 cement : 4 fine sand)	cum	0.014	R3259.11	R45.63			
	(Rate as per item no. 3.4)							
10004	Acid proof cementfor slurry over plaster 3.3kg/sqm = 10.00x3.3 kg/sqm = 33 kg= 0.033 tonne	tonne	0.033	R8500.00	R280.50			
0421	Carriage of cement	tonne	0.033	R102.47	R3.38			
10004	Acid proof cement	tonne	0.0086	R8500.00	R73.10			
03001	Less Portland Cement	tonne	0.0086	R5800.00	-R49.88			
	Labour:-							
0219	Mason (brick layer) 1st class	Day	0.25	R440.00	R110.00			
0212	Coolie	Day	0.25	R310.00	R77.50			
					R1200.23			
	Add for sundries (Mortar for pointing in acid/alkali resistant cement, carriage of cement, tiles etc.) and contingencies [LS]	@	14.00%	R1200.23	R168.03			
					R1368.26			
	Add for water charges	@	1.00%	R1368.26	R13.68			
					R1381.94			
	Add GST (multiplying factor)		0.1405	R1381.94	R194.16			
					R1576.10			
	Add for contractor's profit and overheads	@	15.00%	R1576.10	R236.42			
					R1812.52			
	Add cess	@	1.00%	R1812.52	R18.13			
	Cost of 1 Sqm.				R1830.65			
	Say				R1830.70			

10.26A	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS: 4457, complete as per the direction of Engineer-in- Charge.					
10.26A.1	In flooring on a bed of 10 mm thick mortar 1:4	1 (1 acid p	roof cemer	nt : 4 coarse sand)		
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 1 Sqm					
	Materials:-					

10003	Acid proof tiles of size 300x300mm, 10mm thick =11.11 nos+ Add wastage and breakage @ 2.5% = 0.28 nos. '= 11.39 nos. Say 12 nos.	10.00	12 Nos.	R550.00	R660.00
	12mm thick Cement mortar 1 : 4 (1 cement : 4 fine sand)	cum	0.012	R3259.11	R39.11
	(Rate as per item no. 3.4)				
03001	Portland Cement for slurry over bed @ 3.3kg per sqm = 10.00x3.3 kg/sqm = 33 kg= 0.033 tonne	tonne	0.033	R5800.00	R191.40
0421	Carriage of cement	tonne	0.033	R102.47	R3.38
10004	Acid proof cement	tonne	0.0086	R8500.00	R73.10
03001	Less Portland Cement	tonne	0.0086	R5800.00	-R49.88
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
					R1067.11
	Add for sundries (Mortar for pointing in acid/alkali resistant cement, carriage of cement, tiles etc.) and contingencies [LS]	@	15.00%	R1067.11	R160.07
					R1227.18
	Add for water charges	@	1.00%	R1227.18	R12.27
					R1239.45
	Add GST (multiplying factor)		0.1405	R1239.45	R174.14
					R1413.59
	Add for contractor's profit and overheads	@	15.00%	R1413.59	R212.04
					R1625.63
	Add cess	@	1.00%	R1625.63	R16.26
	Cost of 1 Sqm.				R1641.89
	Say				R1641.90

10.27	Tile work in skirting, risers of steps and dado up to 2 m height over 12 mm thick bed of cement mortar 1:3 (1 cement :3 fine sand) and jointed with grey cement slurry @ 3.3 kg/sqm, including pointing in white cement mixed with pigment of matching shade complete.						
10.27.1	8mm thick Rajnagar marble tiles (polished)						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 1 Sqm						
	Materials:-						
10002	8 mm thick marble tiles (polished) Raj Nagar including wastag	Sqm	1.061	R400.00	R424.40		
0.014	12mm thick Cement mortar 1 : 3 (1 cement : 3 fine sand) = 1.00x0.014 = 0.014 cum	cum	0.014	R4026.43	R56.37		
	(Rate as per item no. 3.4)						
03001	Portland Cement for slurry =1.00x3.3 kg/sqm = 3.3 kg= 0.0033 tonne	tonne	0.003	R5800.00	R19.14		
0421	Carriage of cement	tonne	0.003	R102.47	R0.34		
	Labour:-						
0219	Mason (brick layer) 1st class	Day	0.25	R440.00	R110.00		
0212	Coolie	Day	0.25	R310.00	R77.50		
	Machineries:-						
	Add for cost of white cement etc.	@	2.00%	R687.75	R13.76		

	_			R701.51
Add for sundries (Mortar for pointing in white cement, pigment, carriage of tiles etc.) and contingencies [LS]	@	7.25%	R701.51	R50.86
				R752.37
Add for water charges	@	1.00%	R752.37	R7.52
				R759.89
Add GST (multiplying factor)		0.1405	R759.89	R106.76
				R866.65
Add for contractor's profit and overheads	@	15.00%	R866.65	R130.00
				R996.65
Add cess	@	1.00%	R996.65	R9.97
Cost of 1 Sqm.				R1006.62
Say	_			R1006.60

STONE FLOORING

Providing and fixing Marble stone in floors over 20 mm thick bed of cement mortar 1 : 4 (1 cement : 4 fine sand) jointed with ordinary cement slurry including pointing with white cement mixed with of matching shade, including rubbing and polishing complete.

10.28.1 18 mm thick Marble stone

10.28.1.1 Makrana white marble 2nd quality

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10034	plain veined 18 mm thick. 20mm thick marble slab = 10.00sqm.+ Add for wastage 15% = 1.50sqm. Total = 11.50sqm	Sqm	11.500	R1600.00	R18400.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Portland Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12
	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R24138.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R24138.16	R724.14
					R24862.30
	Add for water charges	@	1.00%	R24862.30	R248.62
		_			R25110.92

Add GST (multiplying factor)		0.1405	R25110.92	R3528.08
				R28639.00
Add for contractor's profit and overheads	@	15.00%	R28639.00	R4295.85
				R32934.85
Add cess	@	1.00%	R32934.85	R329.35
Cost of 10 sqm.				R33264.20
Cost of 1 Sqm.				R3326.42
Say				R3326.40

10.28.1.2	Raj Nagar plain marble				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
07006	Raj Nagar piain marbie: 18 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm.	Sqm	11.500	R700.00	R8050.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12
	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R13788.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R13788.16	R413.64
					R14201.80
	Add for water charges	@	1.00%	R14201.80	R142.02
					R14343.82
	Add GST (multiplying factor)		0.1405	R14343.82	R2015.31
					R16359.13
	Add for contractor's profit and overheads	@	15.00%	R16359.13	R2453.87
					R18813.00
	Add cess	@	1.00%	R18813.00	R188.13
	Cost of 10 sqm.				R19001.13
	Cost of 1 Sqm.				R1900.11
	Say				R1900.10
10.28.1.3	Agaria White marble				
Code	Description	Unit	Quantity	Rate	Amount

	Detail of cost for 10 Sqm				
	Materials:-				
10005	Agaria white marble: 18 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm.	Sqm	11.500	R1200.00	R13800.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12
	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R19538.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R19538.16	R586.14
					R20124.30
	Add for water charges	@	1.00%	R20124.30	R201.24
					R20325.54
	Add GST (multiplying factor)		0.1405	R20325.54	R2855.74
					R23181.28
	Add for contractor's profit and overheads	@	15.00%	R23181.28	R3477.19
					R26658.47
	Add cess	@	1.00%	R26658.47	R266.58
	Cost of 10 sqm.				R26925.05
	Cost of 1 Sqm.				R2692.51
	Say				R2692.50

10.28.1.4	Black Zebra marble				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10008	18 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 2.50sqm. Total = 11.50sqm.	Sqm	11.500	R560.00	R6440.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12

	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R12178.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R12178.16	R365.34
					R12543.50
	Add for water charges	@	1.00%	R12543.50	R125.44
					R12668.94
	Add GST (multiplying factor)		0.1405	R12668.94	R1779.99
					R14448.93
	Add for contractor's profit and overheads	@	15.00%	R14448.93	R2167.34
					R16616.27
	Add cess	@	1.00%	R16616.27	R166.16
	Cost of 10 sqm.				R16782.43
	Cost of 1 Sqm.				R1678.24
	Say				R1678.20

10.28.1.5	Udaipur green marble				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10028	18 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm.	Sqm	11.500	R700.00	R8050.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12
	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R13788.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R13788.16	R413.64
					R14201.80

Add for water charges	@	1.00%	R14201.80	R142.02
				R14343.82
Add GST (multiplying factor)		0.1405	R14343.82	R2015.31
				R16359.13
Add for contractor's profit and overheads	@	15.00%	R16359.13	R2453.87
				R18813.00
Add cess	@	1.00%	R18813.00	R188.13
Cost of 10 sqm.				R19001.13
Cost of 1 Sqm.				R1900.11
Say				R1900.10

10.28.1.6	Pink plain marble				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10023	PINK plain marble: 18 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm.	Sqm	11.500	R700.00	R8050.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12
	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R13788.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R13788.16	R413.64
					R14201.80
	Add for water charges	@	1.00%	R14201.80	R142.02
					R14343.82
	Add GST (multiplying factor)		0.1405	R14343.82	R2015.31
					R16359.13
	Add for contractor's profit and overheads	@	15.00%	R16359.13	R2453.87
					R18813.00
	Add cess	@	1.00%	R18813.00	R188.13
	Cost of 10 sqm.				R19001.13
	Cost of 1 Sqm.				R1900.11
	Say				R1900.10

10.28.2	14 mm thick Marble stone				
10.28.2.1	Makrana white marble 2nd quality				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10035	18 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm.	Sqm	11.500	R1350.00	R15525.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12
	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R21263.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R21263.16	R637.89
					R21901.05
	Add for water charges	@	1.00%	R21901.05	R219.01
					R22120.06
	Add GST (multiplying factor)		0.1405	R22120.06	R3107.87
					R25227.93
	Add for contractor's profit and overheads	@	15.00%	R25227.93	R3784.19
					R29012.12
	Add cess	@	1.00%	R29012.12	R290.12
	Cost of 10 sqm.				R29302.24
	Cost of 1 Sqm.				R2930.22
	Say				R2930.20

10.28.2.2	Raj Nagar plain marble				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
07013	Raj Nagar plain marble: 18 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm.	Sqm	11.500	R550.00	R6325.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				

	Cement for slurry @4.4kg/sqm.				
03001	(i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12
	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R12063.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R12063.16	R361.89
			1.000		R12425.05
	Add for water charges	@	1.00%	R12425.05	R124.25
	ALLOST (W. L. C. L.)		0.1.105	D40540.00	R12549.30
	Add GST (multiplying factor)		0.1405	R12549.30	R1763.18
	Add for contractor's rest; to add accorded		15.00%	D44040 40	R14312.48
	Add for contractor's profit and overheads	@	15.00%	R14312.48	R2146.87
	0.14		1.000/	D40450.05	R16459.35
	Add cess	@	1.00%	R16459.35	R164.59
	Cost of 10 sqm.				R16623.94
	Cost of 1 Sqm.				R1662.39
	Say				R1662.40
10.28.2.3	Agaria White marble				
10.28.2.3 Code	Agaria White marble Description	Unit	Quantity	Rate	Amount
		Unit	Quantity	Rate	Amount
	Description Detail of cost for 10 Sqm Materials:-	Unit	Quantity	Rate	Amount
	Description Detail of cost for 10 Sqm	Unit Sqm	Quantity 11.500	Rate R800.00	Amount R9200.00
Code	Description Detail of cost for 10 Sqm Materials:- Agaria White marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm.				R9200.00
Code	Description Detail of cost for 10 Sqm Materials:- Agaria White marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm. Cement mortar 1 : 4 (1 cement : 4 fine sand). (Rate as per item no. 3.4)	Sqm	11.500	R800.00	
Code	Description Detail of cost for 10 Sqm Materials:- Agaria White marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm. Cement mortar 1 : 4 (1 cement : 4 fine sand). (Rate as per item no. 3.4) Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg.	Sqm	11.500	R800.00	R9200.00 R730.04
10041	Description Detail of cost for 10 Sqm Materials:- Agaria White marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm. Cement mortar 1 : 4 (1 cement : 4 fine sand). (Rate as per item no. 3.4) Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg.	Sqm	11.500	R800.00 R3259.11	R9200.00 R730.04 R290.00
10041 03001	Description Detail of cost for 10 Sqm Materials:- Agaria White marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm. Cement mortar 1 : 4 (1 cement : 4 fine sand). (Rate as per item no. 3.4) Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	Sqm cum	0.224	R800.00 R3259.11 R5800.00	R9200.00 R730.04 R290.00
10041 03001	Description Detail of cost for 10 Sqm Materials:- Agaria White marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm. Cement mortar 1 : 4 (1 cement : 4 fine sand). (Rate as per item no. 3.4) Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kq. Carriage of cement	Sqm cum	0.224	R800.00 R3259.11 R5800.00	R9200.00 R730.04 R290.00
10041 03001	Description Detail of cost for 10 Sqm Materials:- Agaria White marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm. Cement mortar 1 : 4 (1 cement : 4 fine sand). (Rate as per item no. 3.4) Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg. Carriage of cement Labour:-	Sqm cum	0.224	R800.00 R3259.11 R5800.00	R9200.00
10041 03001 0421	Description Detail of cost for 10 Sqm Materials:- Agaria White marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm. Cement mortar 1 : 4 (1 cement : 4 fine sand). (Rate as per item no. 3.4) Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg. Carriage of cement Labour:- (for finishing, polishing and fixing)	Sqm cum tonne	0.224 0.050 0.050	R800.00 R3259.11 R5800.00 R102.47	R9200.00 R730.04 R290.00 R5.12
03001 0421	Description Detail of cost for 10 Sqm Materials:- Agaria White marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm. Cement mortar 1 : 4 (1 cement : 4 fine sand). (Rate as per item no. 3.4) Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg. Carriage of cement Labour:- (for finishing, polishing and fixing) Mason (brick layer) 1st class	Sqm cum tonne tonne	0.224 0.050 0.050	R800.00 R3259.11 R5800.00 R102.47 R440.00	R9200.00 R730.04 R290.00 R5.12
Code 10041 03001 0421 0213 0220	Description Detail of cost for 10 Sqm Materials:- Agaria White marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm. Cement mortar 1 : 4 (1 cement : 4 fine sand). (Rate as per item no. 3.4) Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kq. Carriage of cement Labour:- (for finishing, polishing and fixing) Mason (brick layer) 1st class Beldar	sqm cum tonne tonne Day Day	11.500 0.224 0.050 0.050	R800.00 R3259.11 R5800.00 R102.47 R440.00 R395.00	R9200.00 R730.04 R290.00 R5.12 R528.00 R395.00

0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R14938.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R14938.16	R448.14
					R15386.30
	Add for water charges	@	1.00%	R15386.30	R153.86
					R15540.16
	Add GST (multiplying factor)		0.1405	R15540.16	R2183.39
					R17723.55
	Add for contractor's profit and overheads	@	15.00%	R17723.55	R2658.53
					R20382.08
	Add cess	@	1.00%	R20382.08	R203.82
	Cost of 10 sqm.				R20585.90
	Cost of 1 Sqm.				R2058.59
	Say				R2058.60

10.28.2.4	Black Zebra marble				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10042	Black Zebra marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm.	Sqm	11.500	R420.00	R4830.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12
	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R10568.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R10568.16	R317.04
					R10885.20
	Add for water charges	@	1.00%	R10885.20	R108.85
					R10994.05
	Add GST (multiplying factor)		0.1405	R10994.05	R1544.66
					R12538.71
	Add for contractor's profit and overheads	@	15.00%	R12538.71	R1880.81
					R14419.52

Add cess	@	1.00%	R14419.52	R144.20
Cost of 10 sqm.				R14563.72
Cost of 1 Sqm.				R1456.37
Say				R1456.40

10.28.2.5	Udaipur green marble				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10043	Udaipur green marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm.	Sqm	11.500	R680.00	R7820.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12
	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R13558.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R13558.16	R406.74
					R13964.90
	Add for water charges	@	1.00%	R13964.90	R139.65
					R14104.55
	Add GST (multiplying factor)		0.1405	R14104.55	R1981.69
					R16086.24
	Add for contractor's profit and overheads	@	15.00%	R16086.24	R2412.94
					R18499.18
	Add cess	@	1.00%	R18499.18	R184.99
	Cost of 10 sqm.				R18684.17
	Cost of 1 Sqm.				R1868.42
	Say		<u> </u>		R1868.40

10.28.2.6 Pink plain marble							
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 Sqm						
	Materials:-						

10044	Pink plain marble: 14 mm thick marble slab = 10.00sqm. + Add for wastage 15% = 1.50sqm. Total = 11.50sqm.	Sqm	11.500	R700.00	R8050.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 Kg. (ii) for jointing = 6 Kg. Total = 50 Kg.	tonne	0.050	R5800.00	R290.00
0421	Carriage of cement	tonne	0.050	R102.47	R5.12
	Labour:-				
	(for finishing, polishing and fixing)				
0213	Mason (brick layer) 1st class	Day	1.20	R440.00	R528.00
0220	Beldar	Day	1.00	R395.00	R395.00
0203	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R13788.16
	Add for sundries (Carriage of marble slab) and contingencies	@	3.00%	R13788.16	R413.64
					R14201.80
	Add for water charges	@	1.00%	R14201.80	R142.02
					R14343.82
	Add GST (multiplying factor)		0.1405	R14343.82	R2015.31
					R16359.13
	Add for contractor's profit and overheads	@	15.00%	R16359.13	R2453.87
					R18813.00
	Add cess	@	1.00%	R18813.00	R188.13
	Cost of 10 sqm.				R19001.13
	Cost of 1 Sqm.				R1900.11
	Say				R1900.10

10.29	Extra for prefinished nosing to treads of steps	of marble	e stone.		
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Mtr.	Metre			
	Labour:-				
0221	Mason (for ornamental stone work) 1st class	Day	2.00	R500.00	R1000.00
0203	Beldar	Day	1.50	R310.00	R465.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	2.50	R440.00	R1100.00
					R2565.00
	Add for sundries and contingencies	@	3.00%	R2565.00	R76.95
					R2641.95
	Add for water charges	@	1.00%	R2641.95	R26.42
					R2668.37
	Add GST (multiplying factor)		0.1405	R2668.37	R374.91
					R3043.28
	Add for contractor's profit and overheads	@	15.00%	R3043.28	R456.49

					R3499.77
Į.	Add cess	@	1.00%	R3499.77	R35.00
	Cost of 10 Mtr.				R3534.77
(Cost of 1 Mtr.				R353.48
S	Say				R353.50

10.30	Extra for marble flooring complete in treads of steps and risers using single length upto 2.00 metre.					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 Sqm					
	Labour:-					
0221	Mason (for ornamental stone work) 1st class	Day	1.95	R500.00	R975.00	
0203	Beldar	Day	1.40	R310.00	R434.00	
0212	Coolie	Day	0.75	R310.00	R232.50	
0228	Skilled Beldar (for floor rubbing etc.)	Day	3.18	R440.00	R1399.20	
					R3040.70	
	Add for sundries and contingencies	@	3.00%	R3040.70	R91.22	
					R3131.92	
	Add GST (multiplying factor)		0.1405	R3131.92	R440.03	
					R3571.95	
	Add for contractor's profit and overheads	@	15.00%	R3571.95	R535.79	
					R4107.74	
	Add cess	@	1.00%	R4107.74	R41.08	
	Cost of 10 sqm.				R4148.82	
	Cost of 1 Sqm.				R414.88	
	Say				R414.90	

Providing and fixing Kota stone in floors over 20 mm thick bed of cement mortar 1 : 4 (1 cement : 10.31 4 fine sand) jointed with ordinary cement slurry including pointing with ordinary cement mixed with pigment of matching shade, including rubbing and polishing complete.

10.31.1	Kota stone slab 25mm thick				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm	Sqm			
	Materials:-				
10020	Kota stone slab 20 mm to 25 mm thick (semi- polished) including 15% wastage = 10.00 sqm Add for wastage = 1.50 sqm Total = 11.50 sqm	Sqm	11.500	R450.00	R5175.00
0469	Carriage of slabs	tonne	0.670	R102.47	R68.65
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
	(Rate as per item no. 3.4)				
03001	Cement for slurry: (i) for bedding = 44 kg (ii) for joints = 20 kg Total = 64 kg or 0.064 tonne	tonne	0.064	R5800.00	R371.20
0421	Carriage of cement	tonne	0.064	R102.47	R6.56

10007	Black colour dark shade pigment @ 3.50 kgs. per 50 kg of cement	kg.	4.480	R75.00	R336.00
	Labour:-				
0220	Mason (brick layer) 2nd class	Day	1.20	R395.00	R474.00
0203	Beldar	Day	1.00	R310.00	R310.00
0212	Coolie	Day	1.00	R310.00	R310.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	5.00	R440.00	R2200.00
	Machinery:-				
0120	Machine for rubbing of floors	Day	4.00	R320.00	R1280.00
					R11261.45
	Add for sundries and contingencies	@	3.00%	R11261.45	R337.84
					R11599.29
	Add for water charges	@	1.00%	R11599.29	R115.99
					R11715.28
	Add GST (multiplying factor)		0.1405	R11715.28	R1646.00
					R13361.28
	Add for contractor's profit and overheads	@	15.00%	R13361.28	R2004.19
					R15365.47
	Add cess	@	1.00%	R15365.47	R153.65
	Cost of 10 sqm.				R15519.12
	Cost of 1 Sqm.				R1551.91
	Say				R1551.90

10.32	Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement:3 fine sand) and joined with ordinary cement slurry mixed with pigment to match the shade of slabs, including rubbing and polishing complete.						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 Sqm						
	Materials:-						
10020	Kota stone slab 20 mm to 25 mm thick (semi- polished) including 15% wastage = 10.00 sqm Add for wastage = 1.50 sqm Total = 11.50 sqm	Sqm	11.500	R450.00	R5175.00		
0469	Carriage of slabs	tonne	0.670	R102.47	R68.65		
	Cement mortar 1 : 3 (1 cement : 3 fine sand).	cum	0.114	R4026.43	R459.01		
	(Rate as per item no. 3.4)						
03001	Cement for slurry: (i) for bedding = 44 kg (ii) for joints = 20 kg Total = 64 kg or 0.064 tonne	tonne	0.064	R5800.00	R371.20		
0421	Carriage of cement	tonne	0.064	R102.47	R6.56		
10007	Dark shade pigment @ 3.50 kgs. per 50 kg of cement	kg.	4.480	R75.00	R336.00		
	Labour:-						
0220	Mason (brick layer) 2nd class	Day	3.00	R395.00	R1185.00		
0203	Beldar	Day	3.00	R310.00	R930.00		
0212	Coolie	Day	1.00	R310.00	R310.00		
0228	Skilled Beldar (for floor rubbing etc.)	Day	7.00	R440.00	R3080.00		

				R11921.42
Add for sundries and contingencies	@	3.00%	R11921.42	R357.64
				R12279.06
Add for water charges	@	1.00%	R12279.06	R122.79
				R12401.85
Add GST (multiplying factor)		0.1405	R12401.85	R1742.46
				R14144.31
Add for contractor's profit and overheads	@	15.00%	R14144.31	R2121.65
				R16265.96
Add cess	@	1.00%	R16265.96	R162.66
Cost of 10 sqm.				R16428.62
Cost of 1 Sqm.				R1642.86
Say				R1642.90

10.33	Providing and fixing 25 mm thick wooden plawith iron screws complete.	anking, tor	ngued and g	grooved in floors	s including fixing
10.33.1	With teak wood local				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm	Sqm			
	Materials:-				
08290	Details of cost for 2.5x4=10 sqm. Second class indian teak wood No of joints = 4000/138 = 28.97 Total = (29-1) = 28 nos Qty of wood required 2.5(4+0.336)x0.025 = 0.271 cum Add wastage @ 10 % = 0.027 cum Total = 0.2981 cum = 298.1 cudm	cum	0.2981	R52000.00	R15501.20
0473	Carriage of timber	cum	0.2981	R74.50	R22.21
08100	Oxidised mild steel screws 50 mm (slotted counters sunk head type)	100 nos.	2.00	R80.00	R160.00
	Labour:-				
0209	Carpenter 1st class	Day	2.68	R440.00	R1179.20
0203	Belder	Day	1.35	R310.00	R418.50
					R17281.11
	Add for sundries (glue) and contingencies [LS]	@	3.00%	R17281.11	R518.43
					R17799.54
	Add GST (multiplying factor)		0.1405	R17799.54	R2500.84
					R20300.38
	Add for contractor's profit and overheads	@	15.00%	R20300.38	R3045.06
					R23345.44
	Add cess	@	1.00%	R23345.44	R233.45
	Cost of 10 sqm.				R23578.89
	Cost of 1 Sqm.				R2357.89
	Say				R2357.90

38 mm thick wood block flooring of local teak wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10 mm nominal size) to be paid separately, coated with a thin layer of hot bitumen penetration 80/25 (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1 Sqm	Sqm			
	Materials:-				
05006	Bitumen blown type i) For bed layer @ 2.45kg/sqm. = 2.45kg+ ii) For dipping blocks L.S. = 2.00Kg. Total = 4.45kg. Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	0.0044	R40138.00	R176.61
0472	Carriage of bitumen	tonne	0.0044	R102.47	R0.45
08290	2nd class teal wood in scanting for wooden blocks 1 sqm x 0.038 m = 0.038 cum Add 10 % wastage = 0.0038 cum Total = 0.0418 cum or 41.8 cudm 2nd class teak wood in scantling	cum	0.042	R52000.00	R2184.00
0473	Carriage of timber	cum	0.042	R74.50	R3.13
	Labour:-				
0209	Carpenter 1st class	Day	1.75	R440.00	R770.00
0203	Belder	Day	2.25	R310.00	R697.50
0212	Coolie	Day	1.50	R310.00	R465.00
0225	Mistry	Day	0.10	R395.00	R39.50
					R4336.19
	Add for sundries (such as fuel, kerosene oil, sand paper etc.) and contingencies [LS]	@	3.00%	R4336.19	R130.09
					R4466.28
	Add GST (multiplying factor)		0.1405	R4466.28	R627.51
					R5093.79
	Add for contractor's profit and overheads	@	15.00%	R5093.79	R764.07
					R5857.86
	Add cess	@	1.00%	R5857.86	R58.58
	Cost of 1 Sqm.				R5916.44
	Say				R5916.40

Providing & fixing in position high density fiber laminated wooden flooring with planks of sizes 8mm thick, 1202mm length (minimum) and 192 mm wide(minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) conforming to EN 13329 standard issued by Manufacturer. The flooring shall be fixed with tongue and groove interlocking system, with underlayment of 4mm thick expanded poly ethylene foam sheets having density 40kg/m3, over prepared surface with necessary T-profile planks of size 2286mm x 45mm x 15 mm and door reducer of size 2286mm x 45mm x 12 mm, wherever required. The wood planks shall have minimum density of 850 Kg/cum with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.

10.35.1 AC 3 Grade

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 m x 10 m = 100 sqm.				
	Materials:-				
10067	Laminated wood Plank Flooring 8mm thick of minimum size 1202mm x 192mm (Add for wastage @10%) = 110 sqm	sqm	110.00	R950.00	R104500.00
10069	Laminated wood T-profile 15mm thick of size 2286mm x 45mm	metre	15.25	R290.00	R4422.50
10070	Laminated wood door reducer 12mm thick of size 2286mm x 45mm	metre	2.00	R290.00	R580.00

10059	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3 sqm (Add for wastage @5%) = 105 sqm	sqm	105.00	R18.00	R1890.00
	Labour:-				
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.00
0203	Beldar	Day	2.50	R310.00	R775.00
	Sundries				R100.00
					R113367.50
	Add for sundries and contingencies	@	3.00%	R113367.50	R3401.03
					R116768.53
	Add for water charges	@	1.00%	R116768.53	R1167.69
					R117936.22
	Add GST (multiplying factor)		0.1405	R117936.22	R16570.04
					R134506.26
	Add for contractor's profit and overheads	@	15.00%	R134506.26	R20175.94
					R154682.20
	Add cess	@	1.00%	R154682.20	R1546.82
	Cost of 100 sqm.				R156229.02
	Cost of 1 Sqm.				R1562.29
	Say				R1562.30

10.35.2 AC 4 Grade

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 m x 10 m = 100 sqm.				
	Materials:-				
10068	Laminated wood Plank Flooring 8mm thick of minimum size 1202mm x 192mm (Add for wastage @10%) = 110 sgm	sqm	110.00	R1180.00	R129800.0
10069	Laminated wood T-profile 15mm thick of size 2286mm x 45mm	metre	15.25	R290.00	R4422.50
10070	Laminated wood door reducer 12mm thick of size 2286mm x 45mm	metre	2.00	R290.00	R580.00
10059	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3 sqm (Add for wastage @5%) = 105 sqm	sqm	105.00	R18.00	R1890.00
	Labour:-				
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.0
0203	Beldar	Day	2.50	R310.00	R775.00
					R138567.5
	Add for sundries and contingencies	@	3.00%	R138567.50	R4157.03
					R142724.5
	Add for water charges	@	1.00%	R142724.53	R1427.25
					R144151.78
	Add GST (multiplying factor)		0.1405	R144151.78	R20253.3
					R164405.11
	Add for contractor's profit and overheads	@	15.00%	R164405.11	R24660.77
					R189065.88
	Add cess	@	1.00%	R189065.88	R1890.66
	Cost of 100 sqm.				R190956.54
	Cost of 1 Sqm.				R1909.57

Say			R1909.60	
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Providing & fixing in position high density fiber laminated wood in wall skirting with planks of sizes 12mm thick, 2286mm length (minimum) and 60mm wide(minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) conforming to EN 13329 standard issued by Manufacturer. The skirting shall be fixed with SS screws & rawl plugs, over prepared surface. The wood planks shall have minimum density of 850 Kg/cum with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 170 running metre Skirting				
	Materials:-				
10071	Laminated wood Skirting 12mm thick of Size 2286mm x 60mm 170 m Add 2.5% wastage= 4.25 Total = 174.25 m	metre	174.25	R202.00	R35198.50
08239	Stainless steel screws 50 mm (75x2 = 150 Nos.)	100 Nos.	1.50	R270.00	R405.00
	Labour:-				
0209	Carpenter 1st class	Day	1.00	R440.00	R440.00
0203	Beldar	Day	1.00	R310.00	R310.00
					R36353.50
	Add for sundries				R35.00
					R36388.50
	Add for water charges	@	1.00%	R36388.50	R363.89
					R36752.39
	Add GST (multiplying factor)		0.1405	R36752.39	R5163.71
					R41916.10
	Add for contractor's profit and overheads	@	15.00%	R41916.10	R6287.42
					R48203.52
	Add cess	@	1.00%	R48203.52	R482.04
	Cost of 170 m				R48685.56
	Cost of 1 m				R286.39
	Say				R286.40

10.37

Providing and fixing MS angle ($50 \times 50 \times 5 \text{ mm}$) to act as nosing with lugs of MS flat $10 \times 5 \text{ mm}$, 100 mm long forked at end 60 cm apart (minimum three lugs to be provided) including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 3m (11.40+0.24kg = 11.64kg)				
	Materials:-				
	Angle iron 50x50x5 mm = 3 m Add wastage @ 5% = 0.15 m Total=3.15 m @ 3.80 kg per m = 11.97 kg Say 0.12 qtl				
05056	Structurals such as tees, angles channels and R.S. Joists	Quintal	0.12	R4700.00	R564.00
	Lugs 10x5 mm flat = 6x0.10 = 0.60 m@ 0.40 kg per m = 0.24 kg Add wastage @ 5% = 0.012 kg Total 0.252 kg or 0.0025 qt				

05026	Flats upto 10 mm in thickness	Quintal	0.0025	R4725.00	R11.81
0468	Carriage of steel	tonne	0.01225	R102.47	R1.26
				R2.00	R12.00
09022	Welding by electric plant	cm	6.00	R2.00	K12.00
	Priming coat 3x0.20 = 0.60 sqm (A)				
	As per item 12.33.3	Sqm	0.60	R31.70	R19.02
	Labour:-				
0207	Blaksmith 2nd class	Day	0.09	R395.00	R35.55
0219	Mason (brick layer) 1st class	Day	0.45	R440.00	R198.00
0203	Beldar	Day	0.25	R310.00	R77.50
					R919.14
	Add for sundries and contingencies except "A"	@	3.00%	R900.12	R27.00
					R946.14
	Add GST (multiplying factor) except "A"		0.1405	R927.12	R130.26
					R1076.40
	Add for contractor's profit and overheads except "A"	@	15.00%	R1057.38	R158.61
					R1235.01
	Add cess except "A"	@	1.00%	R1215.99	R12.16
	Cost of 11.64 Kg.				R1247.17
	Cost of 1 Kg.				R107.15
	Say				R107.20

VITRIFIED FLOOR TILES

10.38

Providing and fixing 1st quality ceramic glazed wall tiles (minimum 200 x 300) conforming to IS: 15622 - 2017 (thickness to be specified by the manufacturer) of approved make in all colours, shades of any size as approved by Engineer-in-charge in skirting, risers of steps and dados, laid over 12 mm thick bed of cement mortar 1: 3 (1 cement: 3 fine sand) jointed with ordinary cement slurry including pointing with white cement mixed with pigment of matching shade complete.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10011	Ceramic Glazed tiles = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm Ceramic Glazed Tiles Ist quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	Sqm	1.025	R260.00	R266.50
	12mm thick Cement mortar 1 : 3	Cum	0.0144	R3259.11	R46.93
	(Rate as per item No.3.3)				
03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.25	R440.00	R110.00
0212	Coolie	Day	0.25	R310.00	R77.50
					R520.41
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	13.75%	R520.41	R71.56

				R591.97
Add for water charges	@	1.00%	R591.97	R5.92
				R597.89
Add GST (multiplying factor)		0.1405	R597.89	R84.00
				R681.89
Add for contractor's profit and overheads	@	15.00%	R681.89	R102.28
				R784.17
Add cess	@	1.00%	R784.17	R7.84
Cost of 1 Sqm.				R792.01
Say				R792.00

10.38A

Providing and fixing rectified glazed wall tiles 300 x 450 mm or more conforming to IS: 15622 - 2017 (thickness to be specified by the manufacturer) of approved make in all colours, shades of any size as approved by Engineer-in-charge in skirting, risers of steps and dados, laid over 12 mm thick bed of cement mortar 1: 3 (1 cement: 3 fine sand) jointed with ordinary cement slurry including pointing with white cement mixed with pigment of matching shade complete.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10072	more = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm	Sqm	1.025	R400.00	R410.00
	12mm thick Cement mortar 1 : 3	Cum	0.0144	R3259.11	R46.93
	(Rate as per item No.3.3)				
03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.25	R440.00	R110.00
0212	Coolie	Day	0.25	R310.00	R77.50
					R663.91
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	13.75%	R663.91	R91.29
					R755.20
	Add for water charges	@	1.00%	R755.20	R7.55
					R762.75
	Add GST (multiplying factor)		0.1405	R762.75	R107.17
					R869.92
	Add for contractor's profit and overheads	@	15.00%	R869.92	R130.49
					R1000.41
	Add cess	@	1.00%	R1000.41	R10.00
	Cost of 1 Sqm.				R1010.41
	Say				R1010.40

Providing and laying ceramic floor tiles in different sizes (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 - 2017 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid over 20 mm thick cement mortar 1:4 (1 cement: 4 fine sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc. complete.

10.39.1	Mat Finish Tiles				
10.39.1.1	Ceramic Tiles 1st quality 300 x 300mm in all	shades an	d designs		
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10010	Ceramic (Matt finish) Tiles Ist quality 300 x 300mm in all shades and designs of White, Ivory, grey, Fuem Red brown etc. Ceramic (Matt finish) Tiles Ist quality 300 x 300mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm	sqm	1.025	R280.00	R287.00
	20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
	(Rate as per item No.3.4)				
03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
					R534.70
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	8.25%	R534.70	R44.11
					R578.81
	Add for water charges	@	1.00%	R578.81	R5.79
					R584.60
	Add GST (multiplying factor)		0.1405	R584.60	R82.14
					R666.74
	Add for contractor's profit and overheads	@	15.00%	R666.74	R100.01
					R766.75
	Add cess	@	1.00%	R766.75	R7.67
	Cost of 1 Sqm.				R774.42
	Say				R774.40

10.39.1.2	Ceramic Tiles 1st quality 400 x 400mm in all	shades an	d designs		
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10009	Ceramic (Matt finish) Tiles Ist quality 400 x 400mm in all shades and designs of White, Ivory, grey, Fuem Red brown etc. Ceramic (Matt finish) Tiles Ist quality 400 x 400mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm	sqm	1.025	R300.00	R307.50
	20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
	(Rate as per item No.3.4)				

03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
0721	Labour:-	torne	0.0000	102.17	1.0.01
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
		-			R555.20
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	8.25%	R555.20	R45.80
					R601.00
	Add for water charges	@	1.00%	R601.00	R6.01
					R607.01
	Add GST (multiplying factor)		0.1405	R607.01	R85.28
					R692.29
	Add for contractor's profit and overheads	@	15.00%	R692.29	R103.84
					R796.13
	Add cess	@	1.00%	R796.13	R7.96
	Cost of 1 Sqm.				R804.09
	Say				R804.10

10.39.1	Anti-Skid Tiles				
10.39.1.1	Ceramic Tiles 1st quality 300 x 300mm in all	shades ar	nd designs		
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10073	Ceramic (Anti-Skid) Tiles Ist quality 300 x 300mm in all shades and designs of White, Ivory, grey, Fuem Red brown etc. Ceramic (Anti-Skid) Tiles Ist quality 300 x 300mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm	sqm	1.025	R325.00	R333.13
	20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
	(Rate as per item No.3.4)				
03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
					R580.83
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	8.25%	R580.83	R47.92
					R628.75
	Add for water charges	@	1.00%	R628.75	R6.29
					R635.04
	Add GST (multiplying factor)		0.1405	R635.04	R89.22
					R724.26
	Add for contractor's profit and overheads	@	15.00%	R724.26	R108.64
					R832.90
	Add cess	@	1.00%	R832.90	R8.33

Cost of 1 Sqm.		R841.23
Say		R841.20

Ceramic Tiles 1st quality 400 x 400mm in all		, , , , , , , , , , , , , , , , , , , 	Data	Amazumt
Description	Unit	Quantity	Rate	Amount
<u>'</u>	Sqm			
400mm in all shades and designs of White, Ivory, grey, Fuem Red brown etc. Ceramic (Anti-Skid) Tiles Ist quality 400 x 400mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm	sqm	1.025	R345.00	R353.63
20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
(Rate as per item No.3.4)				
Cement for slurry	tonne	0.0033	R5800.00	R19.14
Carriage of cement	tonne	0.0033	R102.47	R0.34
Labour:-				
Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
Coolie	Day	0.20	R310.00	R62.00
				R601.33
Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	8.25%	R601.33	R49.61
.==.				R650.94
Add for water charges	@	1.00%	R650.94	R6.51
				R657.45
Add GST (multiplying factor)		0.1405	R657.45	R92.37
				R749.82
Add for contractor's profit and overheads	@	15.00%	R749.82	R112.47
				R862.29
Add cess	@	1.00%	R862.29	R8.62
Cost of 1 Sqm.				R870.91
Say				R870.90
	Materials:- Ceramic (Anti-Skid) Tiles Ist quality 400 x 400mm in all shades and designs of White, Ivory, grey, Fuem Red brown etc. Ceramic (Anti-Skid) Tiles Ist quality 400 x 400mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm 20mm thick Cement mortar 1 : 4 (Rate as per item No.3.4) Cement for slurry Carriage of cement Labour:- Mason (brick layer) 1st class Coolie Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	Materials:- Ceramic (Anti-Skid) Tiles Ist quality 400 x 400mm in all shades and designs of White, Ivory, grey, Fuem Red brown etc. Ceramic (Anti-Skid) Tiles Ist quality 400 x 400mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm 20mm thick Cement mortar 1 : 4 (Rate as per item No.3.4) Cement for slurry Carriage of cement Labour:- Mason (brick layer) 1st class Day Coolie Day Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for contractor's profit and overheads @ Add cess @ Add cess	Detail of cost for 1Sqm Materials:- Ceramic (Anti-Skid) Tiles Ist quality 400 x 400mm in all shades and designs of White, Ivory, grey, Fuem Red brown etc. Ceramic (Anti-Skid) Tiles Ist quality 400 x 400mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm 20mm thick Cement mortar 1 : 4 (Rate as per item No.3.4) Cement for slurry Carriage of cement Labour:- Mason (brick layer) 1st class Day O.20 Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS] Add for water charges Add for contractor's profit and overheads @ 1.00% Add cess @ 1.00% Add cess @ 1.00%	Detail of cost for 1Sqm Materials:- Ceramic (Anti-Skid) Tiles Ist quality 400 x 400mm in all shades and designs of White, Ivory, grey, Fuem Red brown etc. Ceramic (Anti-Skid) Tiles Ist quality 400 x 400mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm 20mm thick Cement mortar 1 : 4 (Rate as per item No.3.4) Cement for slurry Carriage of cement Labour:- Mason (brick layer) 1st class Coolie Day Day Day Day Day Day Day R650.94 Add for water charges Add for contractor's profit and overheads @ 1.00% R749.82 Add cess @ 1.00% R862.29

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10026	Rectified Ceramic Glazed floor tiles 300x 300 mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm Rectified Ceramic Glazed Tiles Ist quality 300x300mm or more in all shades designs White, Ivory, Grey, Fuem Red Brown etc.	sqm	1.025	R320.00	R328.00

	20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
	(Rate as per item No.3.4)				
03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
					R575.70
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	5.00%	R575.70	R28.79
					R604.49
	Add for water charges	@	1.00%	R604.49	R6.04
					R610.53
	Add GST (multiplying factor)		0.1405	R610.53	R85.78
					R696.31
	Add for contractor's profit and overheads	@	15.00%	R696.31	R104.45
					R800.76
	Add cess	@	1.00%	R800.76	R8.01
	Cost of 1 Sqm.				R808.77
	Say				R808.80

Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS: 15622 - 2017, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid over 20 mm thick Cement Mortar 1:4 (1 cement: 4 fine sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10025	Rectified Ceramic Glazed floor tiles 300x 300 mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm Rectified Ceramic Glazed Tiles Ist quality 300x300mm or more in all shades designs except White, Ivory, Grey, Fuem Red Brown	sqm	1.025	R350.00	R358.75
	20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
	(Rate as per item No.3.4)				
03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
					R606.45
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	4.75%	R606.45	R28.81
					R635.26
	Add for water charges	@	1.00%	R635.26	R6.35

				R641.61
Add GST (multiplying factor)		0.1405	R641.61	R90.15
				R731.76
Add for contractor's profit and overheads	@	15.00%	R731.76	R109.76
				R841.52
Add cess	@	1.00%	R841.52	R8.42
Cost of 1 Sqm.				R849.94
Say				R849.90

Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622 - 2017, of approved make, in all colours and shades, laid over 20mm thick cement mortar 1:4 (1 cement : 4 fine sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.

10.42.1	Soluble Salt Stainfree vitrified tiles				
10.42.1.1	Size of tile 60x60 cm				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10031	Soluble Salt Stainfree vitrified tiles 60x60 cm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm Soluble Salt Stainfree vitrified tiles 60x60 cm	sqm	1.025	R400.00	R410.00
	20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
	(Rate as per item No.3.4)				
03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
					R657.70
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	3.00%	R657.70	R19.73
					R677.43
	Add for water charges	@	1.00%	R677.43	R6.77
					R684.20
	Add GST (multiplying factor)		0.1405	R684.20	R96.13
					R780.33
	Add for contractor's profit and overheads	@	15.00%	R780.33	R117.05
					R897.38
	Add cess	@	1.00%	R897.38	R8.97
	Cost of 1 Sqm.				R906.35
	Say				R906.40

10.42.2	Double charged Stainfree vitrified tiles				
10.42.2.1	Size of tile 60x60 cm				
Code	Description	Unit	Quantity	Rate	Amount

	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10032	Double charged Stainfree vitrified tiles 60x60 cm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm Double charged Stainfree vitrified tiles 60x60 cm	sqm	1.025	R550.00	R563.75
	20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
	(Rate as per item No.3.4)				
03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
					R811.45
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	3.00%	R811.45	R24.34
					R835.79
	Add for water charges	@	1.00%	R835.79	R8.36
					R844.15
	Add GST (multiplying factor)		0.1405	R844.15	R118.60
					R962.75
	Add for contractor's profit and overheads	@	15.00%	R962.75	R144.41
					R1107.16
	Add cess	@	1.00%	R1107.16	R11.07
	Cost of 1 Sqm.				R1118.23
	Say				R1118.20

10.42.2.2	Size of tile 80x80 cm				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10029	Double charged Stainfree vitrified tiles 80x80 cm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm Double charged Stainfree vitrified tiles 80x80 cm	sqm	1.025	R800.00	R820.00
	20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
	(Rate as per item No.3.4)				
03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
					R1067.70
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	3.00%	R1067.70	R32.03
					R1099.73

Add for water charges	@	1.00%	R1099.73	R11.00
				R1110.73
Add GST (multiplying factor)		0.1405	R1110.73	R156.06
				R1266.79
Add for contractor's profit and overheads	@	15.00%	R1266.79	R190.02
				R1456.81
Add cess	@	1.00%	R1456.81	R14.57
Cost of 1 Sqm.				R1471.38
Say				R1471.40

10.42.2.3	Size of tile 120 x 60 cm				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10075	Double charged Stainfree vitrified tiles 120 x 60 cm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm Double charged Stainfree vitrified tiles 120 x 60 cm	sqm	1.025	R1420.00	R1455.50
	20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
	(Rate as per item No.3.4)				
03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
					R1703.20
	Add for sundries (Carriage of tiles, Mortar for pointing in white cement) and contingencies [LS]	@	3.00%	R1703.20	R51.10
					R1754.30
	Add for water charges	@	1.00%	R1754.30	R17.54
					R1771.84
	Add GST (multiplying factor)		0.1405	R1771.84	R248.94
					R2020.78
	Add for contractor's profit and overheads	@	15.00%	R2020.78	R303.12
					R2323.90
	Add cess	@	1.00%	R2323.90	R23.24
	Cost of 1 Sqm.				R2347.14
	Say				R2118.90

10.43	Deduet for not using 20mm thick cement mo floor tiles.	rtar 1:4 (1	1 cement : 4	fine sand) bed	ding in laying of
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 sqm where 20mm bed is not done	Sqm			
	Materials:-				
	20mm thick Cement mortar 1 : 4	cum	0.024	R3259.11	R78.22
	(Rate as per item No.3.4)				

03001	Cement for slurry	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00
0212	Coolie	Day	0.20	R310.00	R62.00
					R247.70
	Add for sundries (Mortar for pointing in white cement) and contingencies [LS]	@	15.00%	R247.70	R37.16
					R284.86
	Add for water charges	@	1.00%	R284.86	R2.85
					R287.71
	Add GST (multiplying factor)		0.1405	R287.71	R40.42
					R328.13
	Add for contractor's profit and overheads	@	15.00%	R328.13	R49.22
					R377.35
	Add cess	@	1.00%	R377.35	R3.77
	Cost of 1 Sqm.				R381.12
	Say				R381.10

10.44	Fixing glazed/Ceramic/Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, using 5kg. adhesive per sqm of tile area, in average 3mm thickness.							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 1 sqm	Sqm						
	Materials:-							
10019	Quantity of high polymer modified quickset tile adhesive = 1.00x5 Kg/Sqm. = 5.00 Kg.	kg.	5.00	R10.00	R50.00			
	Labour:-							
	For fixing							
0219	Mason (brick layer) 1st class	Day	0.20	R440.00	R88.00			
0212	Coolie	Day	0.20	R310.00	R62.00			
					R200.00			
	Add for sundries (i/c carriage of cement, Mortar for pointing in white cement) and contingencies [LS]	@	44.00%	R200.00	R88.00			
					R288.00			
	Add for water charges	@	1.00%	R288.00	R2.88			
					R290.88			
	Add GST (multiplying factor)		0.1405	R290.88	R40.87			
					R331.75			
	Add for contractor's profit and overheads	@	15.00%	R331.75	R49.76			
					R381.51			
	Add cess	@	1.00%	R381.51	R3.82			
	Cost of 1 Sqm.				R385.33			
	Say				R385.30			

Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622 - 2017, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 fine sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete

10.45.1	Soluble Salt Stainfree vitrified tiles				
10.45.1.1	Size of tile 60x60 cm				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10031	Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+ Add wastage & breakage @ 2.5% = 0.025 sqm Total = 1.025 sqm Vitrified floor tile 60x60 cm	sqm	1.025	R400.00	R410.00
	12mm thick Cement mortar 1 : 3	cum	0.014	R4026.43	R56.37
	(Rate as per item No.3.1.3)				
03001	Cement for slurry over bed @ 3.3kg/sqm	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.25	R440.00	R110.00
0212	Coolie	Day	0.25	R310.00	R77.50
					R673.35
	Add for sundries (including carriage of quick set polymer, Carriage of tiles & Mortar for pointing in white cement) and contingencies [LS]	@	6.50%	R673.35	R43.77
					R717.12
	Add for water charges	@	1.00%	R717.12	R7.17
					R724.29
	Add GST (multiplying factor)		0.1405	R724.29	R101.76
					R826.05
	Add for contractor's profit and overheads	@	15.00%	R826.05	R123.91
					R949.96
	Add cess	@	1.00%	R949.96	R9.50
	Cost of 1 Sqm.				R959.46
	Say				R959.50

10.45.2	Double charged Stainfree vitrified tiles				
10.45.2.1	Size of tile 60x60 cm				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10032	Double charged Stainfree vitrified tiles 60x60 cm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm Double charged Stainfree vitrified tiles 60x60 cm	sqm	1.025	R550.00	R563.75
	12mm thick Cement mortar 1 : 3	cum	0.014	R4026.43	R56.37
	(Rate as per item No.3.1.3)				
03001	Cement for slurry over bed @ 3.3kg/sqm	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.25	R440.00	R110.00
0212	Coolie	Day	0.25	R310.00	R77.50

					R827.10
	Add for sundries (including carriage of quick set polymer, Carriage of tiles & Mortar for pointing in white cement) and contingencies [LS]	@	6.50%	R827.10	R53.76
					R880.86
	Add for water charges	@	1.00%	R880.86	R8.81
					R889.67
	Add GST (multiplying factor)		0.1405	R889.67	R125.00
					R1014.67
	Add for contractor's profit and overheads	@	15.00%	R1014.67	R152.20
					R1166.87
	Add cess	@	1.00%	R1166.87	R11.67
	Cost of 1 Sqm.				R1178.54
	Say				R1178.50
	Size of tile 80x80 cm		<u> </u>		
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:- Double charged Stainfree vitrified tiles 80x80				
10029	cm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm Double charged Stainfree vitrified tiles 80x80 cm	sqm	1.025	R800.00	R820.00
	12mm thick Cement mortar 1 : 3	cum	0.014	R4026.43	R56.37
	(Rate as per item No.3.1.3)				
03001	Cement for slurry over bed @ 3.3kg/sqm	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.25	R440.00	R110.00
0212	Coolie	Day	0.25	R310.00	R77.50
					R1083.35
	Add for sundries (including carriage of quick set polymer, Carriage of tiles & Mortar for pointing in white cement) and contingencies [LS]	@	5.75%	R1083.35	R62.29
					R1145.64
	Add for water charges	@	1.00%	R1145.64	R11.46
					R1157.10
	Add GST (multiplying factor)		0.1405	R1157.10	R162.57
					R1319.67
	Add for contractor's profit and overheads	@	15.00%	R1319.67	R197.95
					R1517.62
	Add cess	@	1.00%	R1517.62	R15.18
	Cost of 1 Sqm.				R1532.80
	Say				R1532.80

10.45.2.3	Size of tile 120x60 cm				
Code	Description	Unit	Quantity	Rate	Amount

	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10075	Double charged Stainfree vitrified tiles 120 x 60 cm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm Double charged Stainfree vitrified tiles 120 x 60 cm	sqm	1.025	R1420.00	R1455.50
	12mm thick Cement mortar 1 : 3	cum	0.014	R4026.43	R56.37
	(Rate as per item No.3.1.3)				
03001	Cement for slurry over bed @ 3.3kg/sqm	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.25	R440.00	R110.00
0212	Coolie	Day	0.25	R310.00	R77.50
					R1718.85
	Add for sundries (including carriage of quick set polymer, Carriage of tiles & Mortar for pointing in white cement) and contingencies [LS]	@	4.00%	R1718.85	R68.75
					R1787.60
	Add for water charges	@	1.00%	R1787.60	R17.88
					R1805.48
	Add GST (multiplying factor)		0.1405	R1805.48	R253.67
					R2059.15
	Add for contractor's profit and overheads	@	15.00%	R2059.15	R308.87
					R2368.02
	Add cess	@	1.00%	R2368.02	R23.68
	Cost of 1 Sqm.				R2391.70
	Say				R2391.70

Providing and fixing Vitrified chequered floor tiles 300 x 300 mm or more, (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 4457-2007, of approved brand & manufacturer, laid in footpath & courtyard, over 20 mm thick bed of cement mortar 1 : 4 (1 cement : 4 fine sand) including grouting of joints (Payment for grouting of joints to be made separately)

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10076	Vitrified chequered floor tiles 300 x 300 mm or more	Sqm	10.500	R820.00	R8610.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
03001	Cement for slurry	tonne	0.044	R5800.00	R255.20
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
	Labour:-				
0220	Mason 2nd class	Day	1.40	R395.00	R553.00
0212	Coolie	Day	1.40	R310.00	R434.00
0205	Bhisti/ Waterman	Day	0.50	R310.00	R155.00
					R10741.75

Add for sundries and contingencies	@	3.00%	R10741.75	R322.25
				R11064.00
Add for water charges	@	1.00%	R11064.00	R110.64
				R11174.64
Add GST (multiplying factor)		0.1405	R11174.64	R1570.04
				R12744.68
Add for contractor's profit and overheads	@	15.00%	R12744.68	R1911.70
				R14656.38
Add cess	@	1.00%	R14656.38	R146.56
Cost of 10 sqm.				R14802.94
Cost of 1 Sqm.				R1480.29
Say				R1480.30

Providing and fixing tactiles of standardized designs conforming to RNIB (The Royal National Institute for the Blind, UK), DETR (Department of the Environment, Transport and the Regions, UK) & ADA (Americans with Disabilities Act, USA) of size 300 x 300 mm in floors, (thickness to be specified by the manufacturer) specially designed to assist the visually impaired - "foot braille", with water absorption less than 0.5%, of approved brand & manufacturer, laid on 20 mm thick bed of cement mortar 1 : 4 (1 cement : 4 fine sand) including grouting of joints (Payment for grouting of joints to be made separately)

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10077	Tactiles floor tiles 300 x 300 mm	Sqm	10.500	R2150.00	R22575.00
	Cement mortar 1:4 (1 cement: 4 fine sand).	cum	0.224	R3259.11	R730.04
03001	Cement for slurry	tonne	0.044	R5800.00	R255.20
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
	Labour:-				
0220	Mason 2nd class	Day	1.40	R395.00	R553.00
0212	Coolie	Day	1.40	R310.00	R434.00
0205	Bhisti/ Waterman	Day	0.50	R310.00	R155.00
					R24706.75
	Add for sundries and contingencies	@	3.00%	R24706.75	R741.20
					R25447.95
	Add for water charges	@	1.00%	R25447.95	R254.48
					R25702.43
	Add GST (multiplying factor)		0.1405	R25702.43	R3611.19
					R29313.62
	Add for contractor's profit and overheads	@	15.00%	R29313.62	R4397.04
					R33710.66
	Add cess	@	1.00%	R33710.66	R337.11
	Cost of 10 sqm.				R34047.77
	Cost of 1 Sqm.				R3404.78
	Say				R3404.80

Grouting the joints of flooring tiles in different sizes having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.

10.48.1	Size of tile 60x60 cm				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10046	Epoxy grout	kg	0.18	R360.00	R64.80
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.08	R440.00	R35.20
0212	Coolie	Day	0.08	R310.00	R24.80
					R124.80
	Add for sundries and contingencies	@	3.00%	R124.80	R3.74
					R128.54
	Add for water charges	@	1.00%	R128.54	R1.29
					R129.83
	Add GST (multiplying factor)		0.1405	R129.83	R18.24
					R148.07
	Add for contractor's profit and overheads	@	15.00%	R148.07	R22.21
					R170.28
	Add cess	@	1.00%	R170.28	R1.70
	Cost of 1 Sqm.				R171.98
	Say				R172.00

10.48.2	Size of tile 80x80 cm				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm				
	Materials:-				
10046	Epoxy grout	kg	0.15	R360.00	R54.00
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.06	R440.00	R26.40
0212	Coolie	Day	0.06	R310.00	R18.60
					R99.00
	Add for sundries and contingencies	@	3.00%	R99.00	R2.97
					R101.97
	Add for water charges	@	1.00%	R101.97	R1.02
					R102.99
	Add GST (multiplying factor)		0.1405	R102.99	R14.47
					R117.46
	Add for contractor's profit and overheads	@	15.00%	R117.46	R17.62
					R135.08
	Add cess	@	1.00%	R135.08	R1.35
	Cost of 1 Sqm.				R136.43
	Say				R136.40

10.48.3 Size of tile 120x60 cm

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
10046	Epoxy grout	kg	0.11	R360.00	R39.60
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.04	R440.00	R17.60
0212	Coolie	Day	0.04	R310.00	R12.40
					R69.60
	Add for sundries and contingencies	@	3.00%	R69.60	R2.09
					R71.69
	Add for water charges	@	1.00%	R71.69	R0.72
					R72.41
	Add GST (multiplying factor)		0.1405	R72.41	R10.17
					R82.58
	Add for contractor's profit and overheads	@	15.00%	R82.58	R12.39
					R94.97
	Add cess	@	1.00%	R94.97	R0.95
	Cost of 1 Sqm.				R95.92
	Say				R95.90

Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				
	Mortar for pointing in white cement with matching pigment	LS	3.12	R1.30	R4.06
	Labour:-				
		LS	1	R1.30	R1.30
					R5.36
	Add for sundries and contingencies	@	3.00%	R5.36	R0.16
					R5.52
	Add for water charges	@	1.00%	R5.52	R0.06
					R5.58
	Add GST (multiplying factor)		0.1405	R5.58	R0.78
					R6.36
	Add for contractor's profit and overheads	@	15.00%	R6.36	R0.95
					R7.31
	Add cess	@	1.00%	R7.31	R0.07
	Cost of 1 Sqm.				R7.38
	Say				R7.40

Providing and fixing glazed screen printed border tile 75mm wide having thickness 5mm, of approved quality & make, in all shades, design and prints, in dado, over 12mm thick bed of cement mortar 1:3 (1 Cement : 3 fine sand) and jointing with grey cement slurry @ 3.3 kg/sqm including pointing with white cement mixed with pigment of matching shade, all complete as approved by Engineer - in - Charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details for 1sqm (i.e. 13.33m length)	Sqm			
	Materials:-				
10047	Border tiles 200x75mm size 5mm thick Tile required=1.00/(0.20x0.075)=66.70 tile. Add 2.5% wastage = 1.67 tile Total 68.37 say 68 tiles	each	68	R16.00	R1088.00
	12mm thick Cement mortar 1 : 3	cum	0.014	R4026.43	R56.37
	(Rate as per item No.3.1.3)				
03001	Cement for slurry over bed @ 3.3kg/sqm	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.25	R440.00	R110.00
0212	Coolie	Day	0.25	R310.00	R77.50
					R1351.35
	Add for sundries (including Mortar for pointing in white cement, Carriage of tiles) and contingencies [LS]	@	9.00%	R1351.35	R121.62
					R1472.97
	Add for water charges	@	1.00%	R1472.97	R14.73
					R1487.70
	Add GST (multiplying factor)		0.1405	R1487.70	R209.02
					R1696.72
	Add for contractor's profit and overheads	@	15.00%	R1696.72	R254.51
					R1951.23
	Add cess	@	1.00%	R1951.23	R19.51
	Details of cost for 1sqm i.e. 13.33 mts				R1970.74
	Cost of 1 metre				R147.84
	Say				R147.80

Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 fine sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm, mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.	Sqm			
	Materials:-				
	Under layer 12mm thick Cement mortar 1 : 4	cum	0.014	R3259.11	R45.63
	(Rate as per item No.3.1.4)				
	Labour:-				
0220	Cement slurry for subgrade	Day	0.67	R395.00	R264.65
0203	Beldar	Day	0.75	R310.00	R232.50
0205	Bhisti/ Waterman	Day	0.92	R310.00	R285.20
03001	Cement slurry for subgrade	tonne	0.0400	R5800.00	R232.00
0421	Carriage of cement	tonne	0.0400	R102.47	R4.10
	Labour:- for applying cement slurry				
0203	Beldar	Day	0.50	R310.00	R155.00

	Say				R408.40
	Cost of 1 sqm				R408.3
	Cost of 10 sqm	Ü	1.0070		R4083.5
	Add cess [except A]	@	1.00%	R3895.86	R38.9
	[except A]		10.00%		R4044.5
	Add for contractor's profit and overheads	@	15.00%	R3387.70	R508.1
	Add 651 (Hattipfying factor) [except A]		0.1400	112970.30	R3536.4
	Add GST (multiplying factor) [except A]		0.1405	R2970.36	R3119.0 R417.3
	Add for water charges [except A]	@	1.00%	K294U.90	R29.4 R3119.0
	Add for water sharmes (syeart A)		1 000/	R2940.95	R3089.6 R29.4
	Add for sundries and contingencies in/c Carriage of tiles [except A] (Lumpsum)	@	5.25%	R2794.25	R146.7
0200	The transfer of the transfer o	24,	0.0.	11010100	R2942.9
0205	Bhisti/ Waterman	Day	0.54	R310.00	R167.4
0212	Coolie	Day	1.00	R310.00	R310.0
0217	Beldar	Day	1.00	R310.00	R310.0
0219	Labour:- Mason (brick layer) 1st class	Day	1.20	R440.00	R528.0
	Water proofing materials [Rate as per item No. 4.5.2] [A]	per bag of 50 kg cement	1.38	R61.50	R84.8
10049	Synthetic polyster triangular Rate as per Item No.4.18 of SH: CONCRETE WORK [A]	per bag of 50 kg cement	1.38	R46.25	R63.8
	(Rate as per item No.3.1.4)				
	Cement mortar 1 : 4 for filling of Crazy tile	cum	0.03	R3259.11	R97.7
10048	Top layer with tile piece and gap filling with cement motar: Ceramic tile piece for crazy flooring assuming 70% tile area and 30% of joint filler/mixture. (7.00x0.010)=0.07 0.872x0.07/0.051=1.20 qtl Ceremic Tiles Pieces for Crazy Flooring	quintal	1.20	R135.00	R162.0

10.52	Crazy marble stone flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportio of 4:7 (4 cement marble powder mix : 7 white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 25 mm thick cement concrete 1:2:4 (cement : 2 fine sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishin and cement slurry etc. complete.							
10.52.1	14 mm thick crazy marble stone white, black or as specified							
Code	Description	Unit	Quantity	Rate	Amount			
	Details for 10sqm	Sqm						
	Materials:-							
	Under layer 25mm thick Cement concrete 1 : 2 : 4 [A]	cum	0.25	R10766.50	R2691.63			
	(Rate as per item No.10.12.1)							
03001	Cement for slurry over bed @ 3.3kg/sqm	tonne	0.0400	R5800.00	R232.00			
0421	Carriage of cement	tonne	0.0400	R102.47	R4.10			
	Labour:-							
0203	Beldar	Day	0.50	R310.00	R155.00			

	Say				R1082.4
	Cost of 1 sqm				R1082.4
	Cost of 10 sqm.				R10824.3
	Add cess [except A]	@	1.00%	R8052.15	R80.5
	[except A]	@	15.00%	R7001.87	R1050.2
	Add for contractor's profit and overheads				R9693.5
	Add GST (multiplying factor) [except A]		0.1405	R6139.30	R862.5
					R8830.9
	Add for water charges [except A]	@	1.00%	R6078.51	R60.7
					R8770.1
	Add for sundries and contingencies [except A]	@	3.00%	R5901.47	R177.0
					R8593.1
	Add for hire and maintenance of pumps, polishing machine etc. [except A]	@	2.00%	R5785.75	R115.7
	Add for cost of oxalic acid powder, carborundum stone & carriage of marble slab etc. [except A]	@	5.00%	R5510.24	R275.5
0228	Skilled belder (for rubbing floor)	Day	5.00	R440.00	R2200.0
0212	Coolie	Day	1.00	R310.00	R310.0
0205	Bhisti/ Waterman	Day	0.54	R310.00	R167.4
0203	Beldar	Day	1.00	R310.00	R310.0
0219	Mason (1st class)	Day	1.20	R440.00	R528.0
0.107	Labour:-	1011110	0.2 100	1(102.11	
0469	Cariage of stone	tonne	0.2400	R102.47	R24.5
0421	Carriage of certein	cum	0.0410	R120.56	R6.1
03006	& black Carriage of cement	quintal tonne	0.872 0.0410	R500.00 R102.47	R436.0 R4.2
10027	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment @ 3.5kg/50kg of cement = 40.5x3.5/50=2.84kg Marble chips upto 4mm and downsize White	kg	2.84	R80.00	R227.2
03004	Marble dust power	tonne	0.007	R3600.00	R25.2
03002	White cement	tonne	0.041	R12400.00	R508.4
10050	crazy flooring (Assume 70% of marble stone are and 30% of joint filer/mixture 7sqmx0.02m = 0.14 cum 0.872x0.14/0.051 = 2.40q White marble rajnagar plain stone pieces for crazy flooring	quintal	2.4	R155.00	R372.0
	Top layer with marble pieces and gap filling with marble powder mixture Marble pieces for				

Providing and fixing Glass mossaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design, fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost per 8 sqm	Sqm			

	Materials:-				
10052	Glass mossaic tiles (20 mm x 20 mm x 4mm) Add for wastage 2.5%= 0.2 sqm Total: 8.20 sqm Glass mossaic tiles (20 mm x 20 mm x 4 mm)	sqm	8.200	R2050.00	R16810.00
10051	Tile fixing chemical adhesive	kg	20	R20.00	R400.00
10053	Cement polymer Grout Compound	kg	10	R28.00	R280.00
10054	Acid for cleaning tiles	litre	4	R18.00	R72.00
	Labour:-(for finishing , polishing and fixing)				
0219	Mason (brick layer) 1st class	Day	1.60	R440.00	R704.00
0212	Coolie	Day	1.60	R310.00	R496.00
					R18762.00
	Add for sundries and contingencies including carriage of marble slab & adhesive etc.	@	3.00%	R18762.00	R562.86
					R19324.86
	Add for water charges	@	1.00%	R19324.86	R193.25
					R19518.11
	Add GST (multiplying factor)		0.1405	R19518.11	R2742.29
					R22260.40
	Add for contractor's profit and overheads	@	15.00%	R22260.40	R3339.06
					R25599.46
	Add cess	@	1.00%	R25599.46	R255.99
	Cost of 8 sqm.				R25855.45
	Cost of 1 Sqm.				R3231.93
	Say				R3231.90

Providing and fixing 25 mm thick pre-polished colored concrete designer tiles making by strong vibratory compaction technology using 50% white cement and 50% ordinary cement of size 300mm x 300mm, laid in footpath & courtyard, on 20 mm thick bed of cement mortar 1 : 4 (1 cement : 4 fine sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete as per direction of the Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10001	25 mm thick pre-polished colored concrete designer tiles of size 300mm x 300mm (using 50% white cement and 50% ordinary cement)	Sqm	10.500	R350.00	R3675.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
03001	Cement for slurry	tonne	0.0275	R5800.00	R159.50
0421	Carriage of cement	tonne	0.0275	R102.47	R2.82
03001	Cement for grouting	tonne	0.044	R5800.00	R255.20
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
	Labour:-				
0220	Mason (average)	Day	1.60	R420.00	R672.00
0220	Beldar	Day	1.60	R395.00	R632.00
0205	Bhisti/ Waterman	Day	0.50	R310.00	R155.00
	Machineries:-				

Add for carriage of materials etc.	@	0.50%	R6286.07	R31.43
				R6317.50
Add for sundries and contingencies	@	3.00%	R6317.50	R189.53
				R6507.03
Add for water charges	@	1.00%	R6507.03	R65.07
				R6572.10
Add GST (multiplying factor)		0.1405	R6572.10	R923.38
				R7495.48
Add for contractor's profit and overheads	@	15.00%	R7495.48	R1124.32
				R8619.80
Add cess	@	1.00%	R8619.80	R86.20
Cost of 10 sqm.				R8706.00
Cost of 1 Sqm.				R870.60
Say				R870.60

Providing and fixing precast chequered cement concrete tiles 18 mm thick, laid in footpath & courtyard, on 20 mm thick bed of cement mortar 1 : 4 (1 cement : 4 fine sand) jointed with neat cement slurry including rubbing and cleaning complete as per direction of the Engineer-in-Charge.

i.	In dark shade using ordinary cement				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
10012	Chequered tiles 18 mm thick (dark shade)	Sqm	10.500	R180.00	R1890.00
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
03001	Cement for slurry	tonne	0.044	R5800.00	R255.20
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
03001	Cement for grouting	tonne	0.044	R5800.00	R255.20
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
	Labour:-				
0212	Mason 2nd class	Day	1.40	R310.00	R434.00
0203	Coolie	Day	1.40	R310.00	R434.00
0205	Bhisti/ Waterman	Day	0.50	R310.00	R155.00
					R4162.46
	Add for sundries and contingencies	@	3.00%	R4162.46	R124.87
					R4287.33
	Add for water charges	@	1.00%	R4287.33	R42.87
					R4330.20
	Add GST (multiplying factor)		0.1405	R4330.20	R608.39
					R4938.59
	Add for contractor's profit and overheads	@	15.00%	R4938.59	R740.79
					R5679.38
	Add cess	@	1.00%	R5679.38	R56.79
	Cost of 10 sqm.				R5736.17
	Cost of 1 Sqm.				R573.62
	Say				R573.60

Providing and laying 500x500x40 mm thick Turf paver (Turfpave XD) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size well burnt brick aggregate and base course and filling with 150 mm thick fine sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
04002	Brick Aggregate (Single size) : 20 mm nominal size 1 x 10 x 0.15 = 1.5cum	cum	1.500	R3957.00	R5935.50
0405	Carriage: Stone aggregate	cum	1.500	R147.57	R221.36
	Labour:-				
	[for spreading ramming and consolidation of sub grade]				
0212	Coolie	Day	0.70	R310.00	R217.00
0203	Beldar	Day	0.52	R310.00	R161.20
0205	Bhisti/ Waterman	Day	0.36	R310.00	R111.60
	Providing and filling of sand [Rate vide 2.18] - [A]	cum	1.50	R615.70	R923.55
10055	500x500x40 mm thick Turf paver	sqm	10.00	R550.00	R5500.00
	Labour:-				
	[for laying of Turf pave]				
0219	Mason (brick layer) 1st class	Day	0.50	R440.00	R220.00
0203	Beldar	Day	1.00	R310.00	R310.00
					R13600.21
	Add for sundries and contingencies [except A]	@	3.00%	R12676.66	R380.30
					R13980.51
	Add for water charges [except A]	@	1.00%	R13056.96	R130.57
					R14111.08
	Add GST (multiplying factor) [except A]		0.1405	R13187.53	R1852.85
					R15963.93
	Add for contractor's profit and overheads [except A]	@	15.00%	R15040.38	R2256.06
					R18219.99
	Add cess [except A]	@	1.00%	R17296.44	R172.96
	Cost of 10 sqm.				R18392.95
	Cost of 1 Sqm.				R1839.30
	Say				R1839.30

Providing and laying readymade vitrified step (riser) tiles of size 1200 x 600 mm (15mm thickness), with water absorption less than 0.5 % and conforming to I.S. 4457 : 2007, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 fine sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 1Sqm	Sqm			
	Materials:-				

10078	Readymade vitrified step (riser) tiles of size 1200 x 600mm (15mm thickness) = 1.00 sqm+ Add wastage & breakage @ 2.5% = 0.025 sqm Total = 1.025 sqm Readymade vitrified step (riser) tiles of size 1200 x 600mm (15mm thickness)	sqm	1.025	R2700.00	R2767.50
	12mm thick Cement mortar 1 : 3	cum	0.014	R4026.43	R56.37
	(Rate as per item No.3.1.3)				
03001	Cement for slurry over bed @ 3.3kg/sqm	tonne	0.0033	R5800.00	R19.14
0421	Carriage of cement	tonne	0.0033	R102.47	R0.34
	Labour:-				
0219	Mason (brick layer) 1st class	Day	0.25	R440.00	R110.00
0203	Coolie	Day	0.25	R310.00	R77.50
					R3030.85
	Add for sundries (including carriage of quick set polymer, Carriage of tiles & Mortar for pointing in white cement) and contingencies [LS]	@	6.50%	R3030.85	R197.01
					R3227.86
	Add for water charges	@	1.00%	R3227.86	R32.28
					R3260.14
	Add GST (multiplying factor)		0.1405	R3260.14	R458.05
					R3718.19
	Add for contractor's profit and overheads	@	15.00%	R3718.19	R557.73
					R4275.92
	Add cess	@	1.00%	R4275.92	R42.76
	Cost of 1 Sqm.				R4318.68
	Say				R4318.70

Providing and laying readymade vitrified step (tread) tiles of size 1200 x 300 mm (15mm thickness double bull nosing), with water absorption less than 0.5 % and conforming to I.S. 4457 : 2007, of approved make, in all colours & shade, in steps, laid on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 fine sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
	Readymade vitrified step tiles of size 1200 x 300 mm (15mm thickness) = 10.00 sqm+ Add wastage & breakage @ 2.5% = 0.25 sqm Total = 10.25 sqm				
10079	Readymade vitrified step tiles of size 1200 x 300 mm (15mm thickness)	Sqm	10.500	R2825.00	R29662.50
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.224	R3259.11	R730.04
03001	Cement for slurry	tonne	0.044	R5800.00	R255.20
0421	Carriage of cement	tonne	0.044	R102.47	R4.51
	Labour:-				
0220	Mason 2nd class	Day	1.40	R395.00	R553.00
0212	Coolie	Day	1.40	R310.00	R434.00
0205	Bhisti/ Waterman	Day	0.50	R310.00	R155.00
					R31794.25

Add for sundries and contingencies	@	3.00%	R31794.25	R953.83
				R32748.08
Add for water charges	@	1.00%	R32748.08	R327.48
				R33075.56
Add GST (multiplying factor)		0.1405	R33075.56	R4647.12
				R37722.68
Add for contractor's profit and overheads	@	15.00%	R37722.68	R5658.40
				R43381.08
Add cess	@	1.00%	R43381.08	R433.81
Cost of 10 sqm.				R43814.89
Cost of 1 Sqm.				R4381.49
Say				R4381.50

BAMBOOWOOD FLOORING

10.59

Providing & fixing in position Phenol bonded Bamboowood flooring with planks of sizes 14mm thick, 1800mm length (minimum) and 130 mm wide(minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The flooring shall be fixed with tongue and groove interlocking system, with underlayment of 4mm thick expanded poly ethylene foam sheets having density 40kg/cum, over prepared surface with necessary quarter round planks of size 1900mm x 18mm and door reducer of size 1900mm x 44mm, wherever required. The bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 m x 10 m = 100 sqm.				
	Materials:-				
10056	Bamboo wood Tile Flooring 14mm thick of minimum size 1800mm x 130mm sqm (Add for wastage @10%) = 110 sqm	sqm	110.00	R3700.00	R407000.00
10057	Bamboo wood Quarter Round 18mm thick of size 1900mm x 18mm	metre	39.90	R120.00	R4788.00
10058	Bamboo wood door reducer 14mm thick of size 1900mm x 44mm	metre	2.00	R270.00	R540.00
10059	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3 sqm (Add for wastage @5%) = 105 sqm	sqm	105.00	R18.00	R1890.00
10060	Silicon based Joint Sealant for Tiles	kg	5.00	R150.00	R750.00
10061	Rubber base Adhesive	kg	5.00	R160.00	
	Labour:-				
0210	Carpenter 1st class	Day	3.00	R440.00	R1320.00
0203	Beldar	Day	3.00	R310.00	R930.00
					R417218.00
	Add for sundries and contingencies				R170.00
					R417388.00
	Add for water charges	@	1.00%	R417388.00	R4173.88
					R421561.88
	Add GST (multiplying factor)		0.1405	R421561.88	R59229.44
					R480791.32
	Add for contractor's profit and overheads	@	15.00%	R480791.32	R72118.70
					R552910.02

Add cess	@	1.00%	R552910.02	R5529.10
Cost of 100 sqm.				R558439.12
Cost of 1 Sqm.				R5584.39
Say				R5584.40

10.60

Providing & fixing in position Phenol bonded Bamboo wood in wall skirting with planks of sizes 14mm thick, 1900mm length (minimum) and 85mm wide(minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The skirting shall be fixed with SS screws & rawl plugs, over underlayment of 4mm thick, expanded poly ethylene foam sheets having 40kg/cum density over prepared surface. The bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm. Skirting				
	Materials:-				
10062	Bamboo wood Skirting 14mm thick of Size 1900mm x 85mm Area of 1 length skirting is 1.9 m x 0.085 m = 0.162 sqm Quantity required for 10 sqm = 10 / 0.1615 = 61.92 pieces Add 2.5% wastage= 1.548 Total = 61.92 + 1.548 = 63.468 Qty in running mtr = 63.468 x1.9m = 120.59 running meter	metre	120.59	R325.00	R39191.75
10059	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3 sqm (Add for wastage @5%) = 105 sqm	sqm	10.50	R18.00	R189.00
10060	Silicon based Joint Sealant for Tiles	kg	1.00	R150.00	R150.00
10061	Rubber base Adhesive	kg	1.00	R160.00	R160.00
08239	Stainless steel screws 50 mm (62x3 = 186 Nos.)	100 Nos.	1.86	R270.00	R502.20
	Labour:-				
0210	Carpenter 1st class	Day	1.00	R440.00	R440.00
0203	Beldar	Day	1.00	R310.00	R310.00
					R40942.95
	Add for sundries				R35.00
					R40977.95
	Add for water charges	@	1.00%	R40977.95	R409.78
					R41387.73
	Add GST (multiplying factor)		0.1405	R41387.73	R5814.98
					R47202.71
	Add for contractor's profit and overheads	@	15.00%	R47202.71	R7080.41
					R54283.12
	Add cess	@	1.00%	R54283.12	R542.83
	Cost of 10 sqm.				R54825.95
	Cost of 1 Sqm.				R5482.60
	Say				R5482.60

Providing & fixing in position Phenol bonded Bamboowood wall cladding at all height with planks of sizes 10mm thick, 1800mm length (minimum) and 130 mm wide (minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC), with necessary profiled edges fixed with 40mm SS screws 5 nos in each tile to frame work made of local teak wood of size 20x15 mm in centre of each tile and bottom and top of work height, 40x15mm placed at ends of each tile. The cladding shall be laid over backlayment of 1.00 mm thick expanded poly ethylene foam of density 40kg/cum in two layers, first layer on wall surface before fixing wooden frame and second layer on frame under cladding. The bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 m x 9.5 m = 95 sqm				
	Materials:-				
10063	Bamboo wood Tile Wall Cladding 10mm thick of size 1900mm x 135mm10 x 9.5 = 95 + 9.5 (Add for wastage @10%) = 104.5 sqm	sqm	104.50	R3350.00	R350075.00
10064	1900mm x 44mm At end joints of planks = 4x9.91 = 39.64 mtr + 1.98 (Add for wastage	metre	41.62	R265.00	R11029.30
10065	Bamboo wood Threshold 14mm thick of size 1900mm x 44mm At perriferi of cladding = 2x(10+9.5)+1.95 (Add for wastage @5%) = 40.95 metre	metre	40.95	R265.00	R10851.75
08290	Local teak wood in planks 10 metre height, at every 1.9 meter height one length of 10 metre i.e (5x9.91x0.02x .015+2x10x0.02x.015+2x9.50x.02x.015+4x9.91x0.04x0.015)+wastage @5% =0.052866 cum	cum	0.05287	R52000.00	R2749.24
10066	High Density expanded poly ethylene (EPE) Foam 1mm thick (2x10x9.5) = 190 + 9.5 (Add for wastage @5%)=199.5 sqm	sqm	199.50	R8.00	R1596.00
08239	Stainless steel screws 50 mm @500mm c/c at teak wood frame	100 Nos.	2.58	R270.00	R696.60
08241	Stainless steel screws 30 mm (5nos in each panels) No of panels=95/(1.9 x 0.135)=370 nos No. of screws= 370 x 5=1850 nos	100 Nos.	18.50	R190.00	R3515.00
	Labour:-				
0210	Carpenter 1st class	Day	5.00	R440.00	R2200.00
0210	Carpenter 2nd class	Day	5.00	R395.00	R1975.00
0203	Beldar	Day	5.00	R310.00	R1550.00
					R386237.89
	Add for sundries				R150.00
					R386387.89
	Add for water charges	@	1.00%	R386387.89	R3863.88
					R390251.77
	Add GST (multiplying factor)		0.1405	R390251.77	R54830.37
					R445082.14
	Add for contractor's profit and overheads	@	15.00%	R445082.14	R66762.32
					R511844.46
	Add cess	@	1.00%	R511844.46	R5118.44
	Cost of 95 sqm.				R516962.90
	Cost of 1 Sqm.				R5441.71
	Say				R5441.70

SUB HEAD : 11 ROOFING

	GALVANISED STEEL SHEET ROOFING						
11.1	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers filled with white lead and including a coat of approved steel						
11.1.1	0.80mm thick with zinc coating not less than 2	275gm/	m²				
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for a roof with each sloping side 18.09x5.10m and slope being flatter than 1 vertical to 2.5 horizontal Area of roof = 2x18.09x5.1 = 184.518 sqm. Details of length and breadth. Length 26(laps)x0.135(each lap)=3.51 Width of Corrugator sheet with 10 corrugation measured end to end = 0.8 metres 27 (nos. of sheets)x0.80 (width of sheet) = 21.60 length Less laps = 3.51 Length = 18.09 Breadth on one side C.G.S. Sheet 1 No. of = 2.5 metres length+ C.G.S. Sheet 1 No. of = 2.8 metres length Total = 5.3 metres Deduct end lap of 20cm (-)0.2 metres breadth = 5.1m						
	MATERIALS:						
	C.G.I.Sheets 0.8mm thick 2x27=54nos. @15.82Kg.each Total = 854.38Kg(X) 2.5mx0.9m is the size of plain G.I.sheet which on being corrugated will become 2.5mx0.8m (The size of plain sheet is taken because the weight is available only of plain sheets) (Refer I.S. Code 277-1962) 2x27=54nos. of size. 2.8x0.9@17.72Kg each = 956.8Kg (Y) Total of (X)+(Y) = 1811.16Kg. Add wastage @5% = 90.56Kg. Total = 1901.72Kg = 19.02q						
11019	Galvanised steel corrugated sheets	q	19.02	R5600.00	R106512.00		
	G.I. scam bolts and nuts 60cm centre to centre zig zag i.e. 30cm. centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos.						
05029	Galvanised steel bolts & nuts 6 mm dia and 25 mmlong round head with slots	10 Nos.	884	R38.00	R3359.20		
11020	Galvanised steel J or L hooks 8 mm dia (No. of purlins to be used 5 on either side) 2x5x27 (No. of sheets) x 23 Nos. of bolts in each sheet = 810 Nos	10 Nos.	810	R120.00	R9720.00		
11017	G.I. Limpet washer (total of seam and J bolts) 884+810=1694 Nos	cent	1694	R22.00	R372.68		

11006	Bitumen washers	cent	1694	R30.00	R508.20
12001	Red oxide Zinc chromate primer	litre	2.53	R100.00	R253.00
11060	Roofing paint for iron sheets in red colour	litre	3.75	R120.00	R450.00
	CARRIAGE				
0428	Sheets	tonne	1.902	R102.47	R194.90
	LABOUR:				
0225	Mistry	Day	1.30	R395.00	R513.50
0207	Carpenter 2nd class	Day	15.50	R395.00	R6122.50
0203	Beldar	Day	15.50	R310.00	R4805.00
0007	Dainter	Davi	1 1 0	R395.00	D446.25
0227	Painter	Day	1.13		R446.35
0212	Coolie	Day	1.13	R310.00	R350.30
0227	Painter	Day	2.53	R395.00	R999.35
0212	Coolie	Day	2.53	R310.00	R784.30
					R135391.28
	Add for sundries (Carriage of bolts and washers, Carriage of material, Brushes and Sandpapers) and contingencies [L.S.]	@	3.00%	R135391.28	R4061.74
					R139453.02
	Add for water charges	@	1.00%	R139453.02	R1394.53
					R140847.55
	Add GST (multiplying factor)		0.1405	R140847.55	R19789.08
					R160636.63
	Add for overheads and contractor's profit	@	15.00%	R160636.63	R24095.49
					R184732.12
	Add cess	@	1.00%	R184732.12	R1847.32
	Cost of 0.80mm thick C.G.S. sheet roofing of area 184.518 Sqm .				R186579.44
	Cost per sqm				R1011.17
	Rate per sqn	า		Say	R1011.20

11.1.2	0.63mm thick with zinc coating not less than 275gm/m ²						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for a roof with each sloping side 18.09x5.10m and slop being flatter than 1 vertical to 2.5 horizontal Area of roof = 2x18.09x5.1 = 184.518 sqm. Details of length and breadth. Length = 26(laps)x0.135(each lap)=3.51 Width of Corrugator sheet with 10 corrugation measured end to end = 0.8 metres 27 (nos. of sheets)x0.80 (width of sheet) = 21.60 length Less laps = 3.51 Length = 18.09 Breadth on one side- C.G.S. Sheet 1 No. of = 2.5 metres length+ C.G.S. Sheet 1 No. of = 2.8 metres length = 5.3 metres Deduct end lap of 20cm (-)0.2 metres breadth = 5.1m						
	MATERIALS:						

	C.G.I.Sheets 0.63mm thick 2x27=54nos. @12.82Kg.each = 692.28 Kg(X) 2.5mx0.9m is the size of plain G.I.sheet which on being corrugated will become 2.5mx0.8m (The size of plain sheet is taken because the weight is available only of plain sheets) (Refer I.S. Code 277-1962) 2x27=54nos. of size.				
	2.8x0.9@13.38Kg each = 775.44Kg (Y) Total of (X)+(Y) = 1467.72Kg. Add wastage @5% = 73.39Kg. Total = 1541.11Kg = 15.41q				
11019	Galvanised steel corrugated sheets	q	15.41	R5600.00	R86296.00
	G.I. scam bolts and nuts 60cm centre to centre zig zag i.e. 30cm. centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos .				
05029	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos.	884	R38.00	R3359.20
11020	Galvanised steel J or L hooks 8 mm dia (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 Nos.	810	R120.00	R9720.00
11017	G.I. Limpet washer (total of seam and J bolts) 884+810=1694 Nos	cent	1694	R22.00	R372.68
11006	Bitumen washers	cent	1694	R30.00	R508.20
12001	Red oxide Zinc chromate primer	litre	2.53	R100.00	R253.00
11060	Roofing paint for iron sheets in red colour	litre	3.75	R120.00	R450.00
	CARRIAGE				
0428	Sheets	tonne	1.541	R102.47	R157.91
0225	LABOUR : Mistry	Day	1.30	R395.00	R513.50
0223	Carpenter 2nd class	Day	15.50	R395.00	R6122.50
0203	Beldar	Day	15.50	R310.00	R4805.00
0227	Painter	Day	1.13	R395.00	R446.35
0212	Coolie	Day	1.13	R310.00	R350.30
0227	Painter	Day	2.53	R395.00	R999.35
0212	Coolie	Day	2.53	R310.00	R784.30
					R115138.29
	Add for sundries (Carriage of bolts and washers, Carriage of material, Brushes and Sandpapers) and contingencies [L.S.]	@	3.00%	R115138.29	R3454.15
					R118592.44
	Add for water charges	@	1.00%	R118592.44	R1185.92
	Add CST (multiplying factor)		0.1405	R119778.36	R119778.36 R16828.86
	Add GST (multiplying factor)		0.1405	N119778.30	R136607.22
	Add for overheads and contractor's profit	@	15.00%	R136607.22	R20491.08
			1.000	D457000 00	R157098.30
	Add cess Cost of 0.63mm thick C.G.S. sheet roofing of	@	1.00%	R157098.30	R1570.98
	area 184.518 Sqm .				R158669.28
	Cost per sqm				R859.91
	Rate per sqm			Say	R859.90

11.2	Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimeter for chimney stacks, sky light etc. :							
11.2.1	0.80mm thick							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm2 and the perimeter of the hole 3 metre							
	LABOUR:							
0206	Blacksmith 1st class	Day	0.12	R440.00	R52.80			
0203	Belder	Day	0.12	R310.00	R37.20			
					R90.00			
	Add for sundries and contingencies	@	3.00%	R90.00	R2.70			
					R92.70			
	Add for water charges	@	1.00%	R92.70	R0.93			
					R93.63			
	Add GST (multiplying factor)		0.1405	R93.63	R13.16			
					R106.79			
	Add for overheads and contractor's profit	@	15.00%	R106.79	R16.02			
					R122.81			
	Add cess	@	1.00%	R122.81	R1.23			
	Cost of 3.00 metres				R124.04			
	Cost per metre				R41.35			
	Rate per metre			Say	R41.40			

11.2.2	0.63mm thick				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 3 metres periphery				
	Assuming a hole of 10dmx5dm area of the				
	hole 50dm2 and the perimeter of the hole 3				
	metre				
	LABOUR:				
0206	Blacksmith 1st class	Day	0.12	R440.00	R52.80
0203	Belder	Day	0.12	R310.00	R37.20
					R90.00
	Add for sundries and contingencies	@	3.00%	R90.00	R2.70
					R92.70
	Add for water charges	@	1.00%	R92.70	R0.93
					R93.63
	Add GST (multiplying factor)		0.1405	R93.63	R13.16
					R106.79
	Add for overheads and contractor's profit	@	15.00%	R106.79	R16.02
					R122.81
	Add cess	@	1.00%	R122.81	R1.23
	Cost of 3.00 metres				R124.04
	Cost per metre				R41.35
	Rate per metre	,		Say	R41.40

11.3	Extra for circular cutting in C.G.S. sheet roofir decimeter	ng for m	naking oper	ning of area exceed	ling 40 square		
11.3.1	0.80mm thick						
Code	Description	Unit	Quantity	Rate	Amount		

	Rate per metr	е		Say	R232.5
	Cost per metre				R232.4
	Cost of 15.71 metres				R3651.9
	Add cess	@	1.00%	R3615.75	R36.1
			1.050	B0045 ==	R3615.7
	Add for overheads and contractor's profit	@	15.00%	R3144.13	R471.6
	Trad 551 (maniprying factor)		0.1100	1127 00.00	R3144.
	Add GST (multiplying factor)		0.1405	R2756.80	R2756.
	Add for water charges	@	1.00%	R2729.50	R27. R2756.
	Add for water shares		1.000/	D2720 50	R2729.
	Add for sundries and contingencies	@	3.00%	R2650.00	R79
					R2650.
0203	Belder	Day	5.00	R310.00	R1550
0206	Blacksmith 1st class	Day	2.50	R440.00	R1100
	LABOUR:		 		
	= 15.71 metre				
	metre Perimetre of 10 nos 10x22/7x0.5				
	Details of cost for 10 holes of 0.5 metre dia-				
Code	Description	Unit	Quantity	Rate	Amount
11.3.2	0.63mm thick				
	Rate per metre			Say	R232.
	Cost per metre				R232.
	Cost of 15.71 metres		1,00,0	1123.00	R3651.
	Add cess	@	1.00%	R3615.75	R36.
	Add for overheads and contractor's profit	<u> </u>	15.00%	N3144.13	R471.
	Add for overheads and contractors profit	@	1E 00%	R3144.13	R3144. R471.
	Add GST (multiplying factor)		0.1405	R2756.80	R387.
					R2756.
	Add for water charges	@	1.00%	R2729.50	R27.
	<i>j</i>				R2729.
	Add for sundries and contingencies	@	3.00%	R2650.00	R79.
UZU 3	Boldon	Бау	3.00	1.010.00	R2650.
0208	Belder	Day Day	5.00	R310.00	R1550.
0206	LABOUR : Blacksmith 1st class	Dov	2.50	R440.00	R1100.
	= 15.71 metre				
	Perimetre of 10 nos 10x22/7x0.5				
	metre				

11.4	Providing ridges or hips of width 60 cm over or L hooks, bolts and nuts 8 mm dia G.I. limpe	all widet and b	th plain G.S itumen was	sheet fixed with shers complete.	polymer coated J	
11.4.1	0.80mm thick with zinc coating not less than 275gm/m ²					
Code	Description	Unit	Quantity	Rate	Amount	

	Cost per m Rate per m			Say	R642.78
					B = 1.5 = -
	Cost of 10.35 metres				R6652.77
	Add cess	@	1.00%	R6586.90	R65.87
				_	R6586.90
	Add for overheads and contractor's profit	@	15.00%	R5727.74	R859.16
	Add 631 (marriprying factor)		0.1400	13022.13	R5727.74
	Add GST (multiplying factor)		0.1405	R5022.13	R5022.13 R705.61
	Add for water charges	@	1.00%	R4972.41	R49.72
					R4972.41
	Add for sundries and contingencies in/c carriage of G.I. seam bolts and washers [LS]	@	3.00%	R4827.58	R144.83
0203	Deliae.	Day	2.40	1.010.00	R4827.58
0203	Belder	Day	2.40	R310.00	R744.00
0207	Blacksmith 2nd class	Day	0.80	R395.00	R316.00
0206	Blacksmith 1st class	Day	1.200	R440.00	R528.00
0225	Mistry	Day	0.40	R395.00	R158.00
	LABOUR:			-	
0428	Sheets	tonne	0.058	R102.47	R5.94
11000	CARRIAGE	COITE	20	1.00.00	1.011.
11006	Bitumen washers	cent	28	R30.00	R8.40
11018	25mmx6mm (There are 14 joints) G.I. plain washer for seam bolts	Nos. cent	28	R33.00	R9.24
11061	Seam bolts and nuts 6 mm dia and 25 mm long	10	28	R15.00	R42.00
11021	G.I. plain sheets 0.80 thick 1.80x0.90m size 5 nos. @ 11.39Kg. sheet = 56.95Kg + Add 2% wastage = 1.14 Kg. Total = 58.09 Kg. or 0.58 q.	q	0.58	R5200.00	R3016.00
	MATERIALS:				
	Details of cost for 10.35 metres long ridge 0.80mm thick with zinc coating not less than 275gm/m2 Consider the length of the ridge 10.35 metres. The ridge will be made out of plain G.I. Sheets 0.9mx1.8m Three pieces will be 0.9m long and 0.60m wide overlapping 22.5cm.				

11.4.2	0.63mm thick with zinc coating not less than 275gm/m ²					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 10.35 metre long ridge.					
	MATERIALS:					
11021	Details of cost for 10.35 metre long ridge. G.I.plain sheets 0.63mm thick 1.8x0.9m size 5 nos. @9.23 Kg. per sheet = 46.15 Kg. + Add 2% wastage = 0.91 Kg. Total = 47.07 Kg. Say 47 Kg. or 0.47 q.	q	0.47	R5200.00	R2444.00	

11061	Seam bolts and nuts 6 mm dia and 25 mm long 25mmx6mm (There are 14 joints)	10 Nos.	28	R15.00	R42.00
11018	G.I. plain washer for seam bolts	cent	28	R33.00	R9.24
11006	Bitumen washers	cent	28	R30.00	R8.40
	CARRIAGE				
0428	Sheets	tonne	0.047	R102.47	R4.82
	LABOUR:				
0225	Mistry	Day	0.40	R395.00	R158.00
0206	Blacksmith 1st class	Day	1.200	R440.00	R528.00
0207	Blacksmith 2nd class	Day	0.80	R395.00	R316.00
0203	Belder	Day	2.40	R310.00	R744.00
					R4254.46
	Add for sundries and contingencies in/c carriage of G.I. seam bolts and washers [LS]	@	3.00%	R4254.46	R127.63
					R4382.09
	Add for water charges	@	1.00%	R4382.09	R43.82
			0.4.405	D 4405 04	R4425.91
	Add GST (multiplying factor)		0.1405	R4425.91	R621.84 R5047.75
	Add for overheads and contractor's profit	@	15.00%	R5047.75	R757.16
					R5804.91
	Add cess	@	1.00%	R5804.91	R58.05
	Cost of 10.35 metres				R5862.96
	Cost per m				R566.47
	Rate per r	n		Say	R566.50

11.5	Providing valleys of 90 cm wide overall in plain G.S. sheet fixed with polymer coated J, or L hook bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete:							
11.5.1	1.60mm thick with zinc coating not less than 350gm/m ²							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 9.325m							
	MATERIALS:							
11021	G.I. plain sheets 2.5x0.9m 4 nos. @ 29.95Kg/sheet =119.80Kg.+ Add 2% wastage = 2.40Kg. Total = 122.20 kg. or 1.222q.	q	1.222	R5200.00	R6354.40			
11061	Seam bolts and nuts 6 mm dia and 25 mm long 25mmx6mm (There are 14 joints)	10 Nos.	12	R15.00	R18.00			
11018	G.I. plain washer for seam bolts	cent	12	R33.00	R3.96			
11006	Bitumen washers	cent	12	R30.00	R3.60			
	CARRIAGE							
0428	Sheets	tonne	0.1222	R102.47	R12.52			
	LABOUR:							
0225	Mistry	Day	0.40	R395.00	R158.00			

0206	Blacksmith 1st class	Day	1.20	R440.00	R528.00
0207	Blacksmith 2nd class	Day	0.80	R395.00	R316.00
0203	Belder	Day	2.40	R310.00	R744.00
					R8138.48
	Add for sundries and contingencies in/c carriage of G.I. seam bolts and washers [LS]	@	3.00%	R8138.48	R244.15
					R8382.63
	Add for water charges	@	1.00%	R8382.63	R83.83
					R8466.46
	Add GST (multiplying factor)		0.1405	R8466.46	R1189.54
					R9656.00
	Add for overheads and contractor's profit	@	15.00%	R9656.00	R1448.40
					R11104.40
	Add cess	@	1.00%	R11104.40	R111.04
	Cost of 9.325 metres				R11215.44
	Cost per m				R1202.73
	Rate per m			Say	R1202.70

11.6	Providing and fixing of 40 cm over all width in plain, G.S. sheet fixed with polymer coated J, hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed wall with cement mortar 1:3 (1cement : 3 fine sand).							
11.6.1	1.00mm thick with zinc coating not less than 275gm/m ²							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 12.125m Consider a length of flashing 12.125 metres .							
	MATERIALS:							
11021	G.I. plain sheet 1.25mm thick 3.2x0.75m 2 nos. @ 20.64 Kg. = 41.28 Kg.+ Add 2% wastage = 0.83 Kg Total = 42.11 Kg. or 0.4211 quintal	q	0.4211	R5200.00	R2189.72			
11061	Seam bolts and nuts 6 mm dia and 25 mm long (taking 2 bolts per joints)	10 Nos.	6	R15.00	R9.00			
11017	G.I. Limpet washer	cent	6	R22.00	R1.32			
11006	Bitumen washers	cent	6	R30.00	R1.80			
	CARRIAGE							
0428	Sheets	tonne	0.04211	R102.47	R4.32			
	LABOUR:							
0225	Mistry	Day	0.50	R395.00	R197.50			
0206	Blacksmith 1st class	Day	1.48	R440.00	R651.20			
0207	Blacksmith 2nd class	Day	1.00	R395.00	R395.00			
0203	Belder	Day	3.00	R310.00	R930.00			
					R4379.86			
	Add for sundries and contingencies in/c carriage of G.I. seam bolts and washers [LS]	@	3.00%	R4379.86	R131.40			
		1			R4511.26			
	Add for water charges	@	1.00%	R4511.26	R45.11			
	, , ,				R4556.37			
	Add GST (multiplying factor)		0.1405	R4556.37	R640.17			
					R5196.54			

Cost per m			Say	R497.80
				R497.80
Cost of 12.125 metres				R6035.78
Add cess	@	1.00%	R5976.02	R59.76
				R5976.02
Add for overheads and contractor's profit	@	15.00%	R5196.54	R779.48

11.7	Providing and fixing 15 cm wide 45 cm over brackets 40x3mm size, bolts, nuts and washer rain water pipes complete.							
11.7.1	0.80mm thick with zinc coating not less than 275gm/m ²							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 9.04m 0.80mm thick with zinc coating not less than 275gm/m2		J					
	MATERIALS:							
11021	Consider a length of 9.04m Sheet used = 2.5x0.90m = 2 nos. Wt. = 2x15.82=31.64 Kg. = 0.3164q Total = 0.3164 quintal	q	0.3164	R5200.00	R1645.28			
05026	Flats upto 10 mm in thickness	q	0.0749	R4725.00	R353.90			
05029	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos.	20	R38.00	R76.00			
05027	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30	R9.50	R285.00			
11018	G.I. plain washer thin	cent	70	R33.00	R23.10			
11006	Bitumen washers	cent	40	R30.00	R12.00			
	CARRIAGE							
0428	Carriage of G.I. sheet and accessories	tonne	0.03164	R102.47	R3.24			
	LABOUR:							
0206	Blacksmith 1st class	Day	0.50	R440.00	R220.00			
0203	Beldar	Day	0.50	R310.00	R155.00			
		,						
0225	Mistry	Day	0.28	R395.00	R110.60			
0206	Blacksmith 1st class	Day	0.84	R440.00	R369.60			
0208*	Carpenter	Day	0.62	R420.00	R260.40			
0203	Beldar	Day	1.68	R310.00	R520.80			
		,			R4034.92			
	Add for sundries (Carriage of G.I. seam bolts and washers) and contingencies [LS]	@	3.00%	R4034.92	R121.05			
					R4155.97			
	Add for water charges	@	1.00%	R4155.97	R41.56			
	Add GST (multiplying factor)		0.1405	R4197.53	R4197.53 R589.75			
	The continuity ing factor)		0.1700	107.00	R4787.28			
	Add for overheads and contractor's profit	@	15.00%	R4787.28	R718.09			
			1.0-0:		R5505.37			
	Add cess Cost of Cost of 9.04 metres	@	1.00%	R5505.37	R55.05 R5560.42			
	Cost per m				R615.09			
	Loost her III				1.013.09			

Rate per m Say R61

11.7.2	0.63mm thick with zinc coating not less than	275gm/	m²		
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 9.04m				
	0.63mm thick with zinc coating not less than				
	275gm/m2 MATERIALS :				
	Consider a length of 9.04m Sheet used =				
11021	2.5x0.90m = 2 nos. Wt. = 2x11.82=23.64 Kg. =	q	0.2364	R5200.00	R1229.28
11021	0.2364g Total = 0.2364 quintal	Ч	0.2304	110200.00	1(1220.20
05026	Flats upto 10 mm in thickness	q	0.0749	R4725.00	R353.90
05029	Galvanised steel bolts & nuts 6 mm dia and 25	10	20	R38.00	R76.00
03027	mm long round head with slots	Nos.	20	1100.00	117 0.00
05027	Galvanised steel bolts & nuts 10 mm dia and	each	30	R9.50	R285.00
	125 mm long round head with slots				500.40
11018	G.I. plain washer thin	cent	70	R33.00	R23.10
11006	Bitumen washers	cent	40	R30.00	R12.00
	CARRIAGE				
0428	Carriage of G.I. sheet and accessories	tonne	0.02364	R102.47	R2.42
	LABOUR:				
0206	Blacksmith 1st class	Day	0.50	R440.00	R220.00
0203	Beldar	Day	0.50	R310.00	R155.00
	LABOUR:				
0225	Mistry	Day	0.28	R395.00	R110.60
0206	Blacksmith 1st class	Day	0.84	R440.00	R369.60
0208*	Carpenter	Day	0.62	R420.00	R260.40
0203	Beldar	Day	1.68	R310.00	R520.80
					R3618.10
	Add for sundries (Carriage of G.I. seam bolts	@	3.00%	R3618.10	R108.54
	and washers) and contingencies [LS]	œ.	3.00%	13010.10	100.54
					R3726.64
	Add for water charges	@	1.00%	R3726.64	R37.27
			0.1.10=		R3763.91
	Add GST (multiplying factor)		0.1405	R3763.91	R528.83 R4292.74
	Add for every contract of the	-	15.000/	D 4000 74	
	Add for overheads and contractor's profit	@	15.00%	R4292.74	R643.91
	Add coop	6	1.000/	D4000.05	R4936.65
	Add cess Cost of Cost of 9.04 metres	@	1.00%	R4936.65	R49.37 R4986.02
	Cost or Cost of 9.04 metres Cost per m				R4986.02 R551.55
				Cov	R551.60
	Rate per m			Say	10.1CC

11.8	Providing flat iron brackets 50x3mm size with necessary bolts, nuts and washers etc. for fixing G.S. sheets gutters with purlins.					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 20 metres					
	MATERIALS:					

05026	Flat 50x3mm size	q	0.1163	R4725.00	R549.52
	Flats upto 10 mm in thickness				
11128	Mild steel bolts 6 mm dia and 25 mm long	10	38	R10.00	R38.00
	with hexagonal head	Nos.	00		
11018	G.I. plain washer thin	cent	19	R33.00	R6.27
	LABOUR:				
0206	Blacksmith 1st class	Day	0.38	R440.00	R167.20
0203	Beldar	Day	0.38	R310.00	R117.80
					R878.79
	Add for sundries and contingencies	@	3.00%	R878.79	R26.36
					R905.15
	Add for water charges	@	1.00%	R905.15	R9.05
					R914.20
	Add GST (multiplying factor)		0.1405	R914.20	R128.45
					R1042.65
	Add for overheads and contractor's profit	@	15.00%	R1042.65	R156.40
					R1199.05
	Add cess	@	1.00%	R1199.05	R11.99
	Cost for 20 metres				R1211.04
	Cost per m				R60.55
	Rate per r	n		Say	R60.60

	MISCELLANEOUS R	OOFING	WORKS					
11.9	Painting top of roofs with bitumen of approved quality @ 17kg per 10 sqm impregnated with a confidence of coarse sand at 60 cudm per 10 sqm, including cleaning the slab surface with brushes and find with a piece of cloth lightly soaked in kerosene oil complete:							
11.9.1	With residual type petroleum bitumen of grade VG -10							
Code	Description	Unit	Quantity	Rate	Amount			
	Consider for painting top of roofs of 10 sqm area.							
	MATERIALS:							
04011	Bitumen 80/100 Paving bitumen VG-10 of approved quality	tonne	0.017	R39335.00	R668.70			
02002	Fuel for heating Coal (steam)	q	0.035	R460.00	R16.10			
02004	Kerosene oil	litre	1.22	R52.00	R63.44			
02003	Fine sand	cum	0.06	R560.00	R3.36			
	CARRIAGE							
0472	Bitumen 80/100	tonne	0.017	R102.47	R1.74			
0425	Sand	cum	0.06	R131.75	R7.91			
	LABOUR:							
0203	Belder (for cleaning the surface, applying kerosene oil, heating materials and carrying the hot tar over the roof)	Day	0.38	R310.00	R117.80			
0227	Painter	Day	0.15	R395.00	R59.25			
					R938.30			

Add for sundries (Brushes and T and P) and contingencies [LS]	@	3.00%	R938.30	R28.15
				R966.45
Add for water charges	@	1.00%	R966.45	R9.66
				R976.11
Add GST (multiplying factor)		0.1405	R976.11	R137.14
				R1113.25
Add for overheads and contractor's profit	@	15.00%	R1113.25	R166.99
				R1280.24
Add cess	@	1.00%	R1280.24	R12.80
Cost of painting with residual type of petroleum bitumen for 10 sqm area				R1293.04
Cost per sqm				R129.30
Rate per sqm	1		Say	R129.30

11.10	Providing and laying pressed clay tiles (as pe approved size) on roofs jointed with cemes 2% integral water proofing compound laid of 3 times and) and finished neat complete.	nt mort	ar 1:4 (1 c	cement: 4 fine s	and) mixed with
Code	Description	Unit	Quantity	Rate	Amount
	Consider an area of 10 sqm				
	MATERIALS:				
11057	Pressed clay tiles 20 mm thick 250 x 250 mm size	1000 Nos.	160	R8800.00	R1408.00
3.1.2	Cement mortar (1:4) for laying	cum	0.037	R3259.11	R120.59
3.1.2	Cement mortar (1:4) for bedding	cum	0.224	R3259.11	R730.04
04015	Integral water proofing compound 2% by weight of cement Water proofing materials	kg	0.01	R37.00	R0.37
	CARRIAGE				
0403	Brick tiles	1000 Nos.	160	R184.45	R29.51
	LABOUR:				
0219	Mason (brick layer) 1st class	Day	0.60	R440.00	R264.00
0203	Belder	Day	2.60	R310.00	R806.00
					R3358.51
	Add for sundries and contingencies	@	3.00%	R3358.51	R100.76
					R3459.27
	Add for water charges	@	1.00%	R3459.27	R34.59 R3493.86
	Add GST (multiplying factor)		0.1405	R3493.86	R3493.86 R490.89
	co. (manapiying fuotor)		5.1.100	. 10 . 30. 00	R3984.75
	Add for overheads and contractor's profit	@	15.00%	R3984.75	R597.71
					R4582.46
	Add cess	@	1.00%	R4582.46	R45.82
	Cost of laying pressed clay tiles for 10 sqm area				R4628.28
	Cost per sqm				R462.83
	Rate per sqm			Say	R462.80

Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 fine sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.

Code	Description	Unit	Quantity	Rate	Amount
	Consider 45x45 cm khurra 1 No.				
	MATERIALS:				
04006	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0067	R5262.00	R35.26
04008	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0022	R4662.00	R10.26
0405	Carriage of Stone aggregate below 40 mm nominal size	cum	0.0089	R147.57	R1.31
02002	Fine sand	cum	0.0044	R460.00	R2.02
0425	Carriage of Fine sand	cum	0.0044	R131.75	R0.58
03001	Portland Cement (OPC-43 grade)	tonne	0.0032	R5800.00	R18.56
0421	Carriage of Cement	tonne	0.0032	R102.47	R0.33
11036	Polyvinyle chloride sheet 400 micron thick	sqm	1.00	R40.00	R40.00
03001	Portland Cement (OPC-43 grade)	tonne	0.0006	R5800.00	R3.48
0421	Carriage of Cement	tonne	0.0006	R102.47	R0.06
3.1.3	Cement mortar 1:3 (1 cement : 3 fine sand)	cum	0.0041	R4026.43	R16.51
	LABOUR:				
0203	Belder	Day	0.009	R310.00	R2.79
0212	Coolie	Day	0.006	R310.00	R1.86
0205	Bhisti	Day	0.0027	R310.00	R0.84
0219	Mason (brick layer) 1st class	Day	0.0005	R440.00	R0.22
0220	Mason (brick layer) 2nd class	Day	0.0005	R395.00	R0.20
0224	Mate	Day	0.0004	R310.00	R0.12
0218*	Mason (average)	Day	0.0235	R420.00	R9.87
0212	Coolie	Day	0.0235	R310.00	R7.29
0205	Bhisti	Day	0.0233	R310.00	R2.42
0200	Britott	Day	0.0070	11010100	
0218*	Mason (average)	Day	0.0080	R420.00	R3.36
0212	Coolie	Day	0.0080	R440.00	R3.52
					R160.86
	Add for sundries (Hire and running charge of mechanical mixer, Rounding of edges and making outlet) and contingencies [LS]		10.00%	D400.00	D00.05
		@	18.00%	R160.86	R28.95 R189.81
	Add for water charges	@	1.00%	R189.81	R189.81
-	Add for water charges	<u> </u>	1.00/0	10.60171	R1.90 R191.71
	Add GST (multiplying factor)		0.1405	R191.71	R26.94
					R218.65
	Add for overheads and contractor's profit	@	15.00%	R218.65	R32.80
		_	4.000	D054 15	R251.45
	Add cess	@	1.00%	R251.45	R2.51
	Cost of making 1 No. (45x45) cm khurra with 1:2:4 cement concrete				R253.96
	Rate per Khurrah			Say	R254.00

11.12	Providing & fixing UV stabilised fiberglass including fixing with polymer coated plain/bitumen washers complete but exclud sheets shall be manufactured out of 240 Ultra-violet stabiliser in resin system under the being of uniform pigmentation and thickness will and IS 12866. The sheets shall be opaque or as specified.	'J' or ling th 0 TEX er appr thout	'L' hooks e cost of panel rov oximately air pockets	, bolts & nuts purlins, rafters, vigs incorporatin 2400 psi and hot and shall conf	8mm dia. G.I trusses etc. The g minimum 0.3% cured. They shall orm to IS 10192
11.12.1	2mm thick corrugated (2.5" or 4.2" or 6") or st	ep-dow	n (2"or 3"o	r 6") as specified.	
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for area of roof. 2x18.09x5.1 = 184.518 sqm.				
	MATERIALS:				
11084	2 mm thick UV stabilised F.R.P. corrugated sheets	sqm	240.408	R490.00	R117799.92
05029	G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos. Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos.	884	R38.00	R3359.20
11020	G.I.,J or L hooks 8mm dia. (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 nos. of bolts in each sheet = 810 nos. Galvanised steel J or L hooks 8 mm dia	10 Nos.	810	R120.00	R9720.00
11017	G.I. Limpet washer (total of seam and J bolts) 884+810= 1694	cent	1694	R22.00	R372.68
11006	Bitumen washers	cent	1694	R30.00	R508.20
	LABOUR:				
0225	Mistry	Day	1.30	R395.00	R513.50
0210	Carpenter 2nd class Beldar	Day	15.50 15.50	R395.00 R310.00	R6122.50 R4805.00
0203	Beidai	Day	15.50	K310.00	R143201.00
	Add for sundries (Carriage of sheet, bolts and washers) and contingencies	@	3.00%	R143201.00	R4296.03
	, , , , , , , , , , , , , , , , , , ,				R147497.03
	Add for water charges	@	1.00%	R147497.03	R1474.97
	Add GST (multiplying factor)		0.1405	R148972.00	R148972.00 R20930.57
	, ida cor (maniprying factor)		5.1705	111 1001 2.00	R169902.57
	Add for overheads and contractor's profit	@	15.00%	R169902.57	R25485.39
	Add coss	@	1 000/	D105207.06	R195387.96
	Add cess Cost of 184.518 sqm. area	@	1.00%	R195387.96	R1953.88 R197341.84
	Cost per sqm				R1069.50
	Rate per sqm			Say	R1069.50
11.12.2	2mm thick flat				
Code	Description	Unit	Quantity	Rate	Amount

MATERIALS: UV stabilised 2 mm thick plain FRP sheet G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos. Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	sqm 10 Nos.	240.408	R450.00	R108183.60
G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos. Galvanised steel bolts & nuts 6 mm dia and	10		R450.00	R108183.60
zig-zag i.e. 30cm centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos. Galvanised steel bolts & nuts 6 mm dia and				
		884	R38.00	R3359.20
G.I.,J or L hooks 8mm dia. (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 nos. of bolts in each sheet = 810 nos. Galvanised steel J or L hooks 8 mm dia	10 Nos.	810	R120.00	R9720.00
G.I. Limpet washer (total of seam and J bolts) 384+810= 1694	cent	1694	R22.00	R372.68
Bitumen washers	cent	1694	R30.00	R508.20
_ABOUR:				
Mistry	Day	1.30	R395.00	R513.50
Carpenter 2nd class	Day	15.50	R395.00	R6122.50
Beldar	Day	15.50	R310.00	R4805.00
				R133584.68
Add for sundries (Carriage of sheet, bolts and washers) and contingencies	@	3.00%	R133584.68	R4007.54
				R137592.22
Add for water charges	@	1.00%	R137592.22	R1375.92
A 11 00T / 111 1 1 1 C 1 1		0.4.405	D400000 44	R138968.14
Add GST (multiplying factor)		0.1405	R138968.14	R19525.02 R158493.16
Add for overheads and contractor's profit	@	15.00%	R158493.16	R23773.97
				R182267.13
Add cess	@	1.00%	R182267.13	R1822.67
Cost of 184.518 sqm. area				R184089.80
Cost per sqm				R997.68
Rate per sqm			Say	R997.70
	os. of bolts in each sheet = 810 nos. alvanised steel J or L hooks 8 mm dia I. Limpet washer otal of seam and J bolts) 84+810= 1694 itumen washers ABOUR: Mistry arpenter 2nd class eldar dd for sundries (Carriage of sheet, bolts and rashers) and contingencies dd for water charges dd GST (multiplying factor) dd for overheads and contractor's profit dd cess ost of 184.518 sqm. area ost per sqm	Nos. of bolts in each sheet = 810 nos. alvanised steel J or L hooks 8 mm dia I. Limpet washer otal of seam and J bolts) 84+810=1694 itumen washers ABOUR: Mistry arpenter 2nd class eldar Day add for sundries (Carriage of sheet, bolts and vashers) and contingencies dd for water charges dd GST (multiplying factor) dd for overheads and contractor's profit @ dd cess ost of 184.518 sqm. area ost per sqm	os. of bolts in each sheet = 810 nos. alvanised steel J or L hooks 8 mm dia I. Limpet washer otal of seam and J bolts) 84+810= 1694 itumen washers ABOUR: Mistry	Nos. of bolts in each sheet = 810 nos. Nos. 810 R120.00

11.13	Providing and fixing precoated galvanised irons as approved by Engineer-in-charge) 0.50 mm or grams per sqm as per IS: 277, in 240 mpa stees sheet and polyester top coat 15-18 microns. Siminimum to avoid scratches during transport metre or as desired by Engineer-in-charge. The screws of size (5.5x 55 mm) with EPDM seas curved surfaces, excluding the cost of purling shape wherever required.	(+ 0.05 °c) el grade cheet sh cation au ne sheet l, comp	%) total coa , 5-7 micro ould have nd should l shall be fi lete upto a	ited thickness with ns epoxy primer o protective guard f be supplied in sing xed using self dril any pitch in horiz	n zinc coating 120 n both side of the ilm of 25 microns gle length upto 12 lling /self tapping ontal/ vertical or
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of 216.14 sqm. Consider a shed of 20x10 metres. (External dimensions of plinth). Area of roof 20.2x10.70m = 216.14 sqm.				
	MATERIALS:				-

	Rate per sqm			Say	R667.20
	Cost per sqm				R667.20
	Cost of Pre-painted Galvanised Iron sheet roof of 216.14 sqm .				R144207.89
	Add cess	@	1.00%	R142780.09	R1427.80
					R142780.09
	Add for overheads and contractor's profit	@	15.00%	R124156.60	R18623.49
	rad GoT (marriprying factor)		0.1100	11100001100	R124156.60
	Add GST (multiplying factor)		0.1405	R108861.55	R15295.0
	Add for water charges	w	1.00%	K107763.71	R108861.5
	Add for water charges	@	1 00%	R107783.71	R107783.7 ⁻ R1077.8 ⁴
	Add for sundries and contingencies	@	3.00%	R104644.38	R3139.33
					R104644.38
0203	Beldar	Day	9.34	R310.00	R2895.4
0210	Carpenter 2nd class	Day	9.34	R395.00	R3689.30
0225	Mistry	Day	2.34	R395.00	R924.30
	LABOUR:				
11018	G.I. plain washer thick	cent	476	R33.00	R157.08
11006	Bitumen washers	cent	476	R30.00	R142.80
11020	Galvanised steel J or L hooks 8 mm dia	10 Nos.	476	R120.00	R5712.00
11049	Sheets used = 20 nos.x10.70mx 1.06m = 226.84sqm Add 3% wastage = 6.81 Total = 233.65sqm. Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	233.65	R390.00	R91123.50

11.14	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 1518 microns using self drilling/ self tapping screws complete for Ridges/Valley/Gutter/Flashing of width 600mm.						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 20.20 metre One piece plain ridges Consider a shed of 20x10m (external dimensions at plinth). Length of ridges 20.2 metre + 5% wastage = 23.11 metre.						
	MATERIALS:						
11054	Precoated galvanised steel plain ridges 0.50 mm TCT and 500 -600 mm wide	m	23.11	R240.00	R5546.40		
	LABOUR:						
0225	Mistry	Day	0.14	R395.00	R55.30		
0210	Carpenter 2nd class	Day	0.55	R395.00	R217.25		
0203	Beldar	Day	1.64	R310.00	R508.40		
					R6327.35		
	Add for sundries and contingencies	@	3.00%	R6327.35	R189.82		
					R6517.17		
	Add for water charges	@	1.00%	R6517.17	R65.17		
					R6582.34		
	Add GST (multiplying factor)		0.1405	R6582.34	R924.82		

				R7507.16
Add for overheads and contractor's profit	@	15.00%	R7507.16	R1126.07
				R8633.23
Add cess	@	1.00%	R8633.23	R86.33
Cost of providing and fixing 23.11m ridges				R8719.56
Cost per m				R377.31
Rate per m			Say	R377.30

11.15	Supply & installation of pre-painted Galvalum of corrugation as approved by Engineer-in-Rolled Steel coated with Zinc-Aluminium a confirming to ASTM A792/A792M and AS139 quality Polyester coating, top coated of momicron, having epoxy primer coat of 5 microfilm of 25 microns minimum to avoid supplied in single length upto 12 metre or a fixed using self drilling /self tapping screpolymer coated J or L hooks, bolts and washers or with G.I. limpet washers filled horizontal/ vertical or curved surfaces exclincluding cutting to size and shape wherever	charge) Iloy co. 7, Alloy odified on on bo a scrato as desir ews of nuts 8r ed with	in 550mp ating of 43 coating Az polyester of th side. Sh ches while ed by Eng size (5.5x nm diameto the cost of	pa steel grade, r 3.5% Zn, 55% Al Z150/AZ70, colour of 20 micron, bac eet should have transportation ineer-in-charge. T 55mm) with EPI er with bitumen ead complete up	made out of Cold and 1.5% Silicon coated with high ck side coat of 5 protective guard and should be the sheet shall be DM seal or with and G.I. limpet to any pitch in
11.15.1	0.40mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
	Consider a godown measuring 12x22m (outer di at one end. The roof will have 250mm projection Hence, the area of covered roof = 1x22.50x13. Actual area of sheets to be used = 23x13.67x1.00 MATERIALS:	ns on all . 67 = 30	sides. 7.58 sqm	ooi is proposea wii	in a rise of 6.0m
11037	0.40mm thick Pre-painted Galvalume sheet	sqm	333.27	R390.00	R129975.30
11020	Polymer coated J or L hooks with nuts Considering 2.40 Nos. per sqm, For an area of 307.58 sqm area, No. of bolts required 738.19 Nos. Wastage = 36.81 Nos. Total = 775 Nos.	10 Nos.	775	R120.00	R9300.00
11006	GI Washers	cent	775	R30.00	R232.50
11018	Bitumen washers	cent	775	R33.00	R255.75
	LABOUR :				11.00
0225	Foreman	Day	3.00	R395.00	R1185.00
0210	Carpenter	Day	18.00	R395.00	R7110.00
0203	Helper	Day	18.00	R310.00	R5580.00
					R153638.55
	Add for carriage of sheets	@	0.50%		R768.19
					R154406.74
	Add for scaffolding, ropes, pulley etc.	@	0.75%		R1158.05
	Add for cat ladders or roof boards	@	0.50%		R155564.79 R777.82
					R156342.61
	Add for sundries and contingencies	@	3.00%	R156342.61	R4690.28
					R161032.89
	Add for water charges	@	1.00%	R161032.89	R1610.33
					R162643.22
	Add GST (multiplying factor)		0.1405	R162643.22	R22851.37

				R185494.59
Add for overheads and contractor's profit	@	15.00%	R185494.59	R27824.19
				R213318.78
Add cess	@	1.00%	R213318.78	R2133.19
Cost of Pre-painted Galvalume Sheet roof of 307.58 sqm				R215451.97
Cost per sqm				R700.47
Rate per sqm	_		Say	R700.50

11.15.2	0.45mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				
11038	0.45mm thick Pre-painted Galvalume sheet	sqm	333.27	R420.00	R139973.40
11020	Polymer coated J or L hooks with nuts Considering 2.40 Nos. per sqm, For an area of 307.58 sqm area, No. of bolts required 738.19 Nos. Wastage = 36.81 Nos. Total = 775 Nos.	10 Nos.	775	R120.00	R9300.00
11006	GI Washers	cent	775	R30.00	R232.50
11018	Bitumen washers	cent	775	R33.00	R255.75
	LABOUR:				
0225	Foreman	Day	3.00	R395.00	R1185.00
0210	Carpenter	Day	18.00	R395.00	R7110.00
0203	Helper	Day	18.00	R310.00	R5580.00
					R163636.65
	Add for carriage of sheets	@	0.50%		R818.18
					R164454.83
	Add for scaffolding, ropes, pulley etc.	@	0.75%		R1233.41
					R165688.24
	Add for cat ladders or roof boards	@	0.50%		R828.44
					R166516.68
	Add for sundries and contingencies	@	3.00%	R166516.68	R4995.50
					R171512.18
	Add for water charges	@	1.00%	R171512.18	R1715.12
					R173227.30
	Add GST (multiplying factor)		0.1405	R173227.30	R24338.44
					R197565.74
	Add for overheads and contractor's profit	@	15.00%	R197565.74	R29634.86
					R227200.60
	Add cess	@	1.00%	R227200.60	R2272.01
	Cost of Pre-painted Galvalume sheet roof of 307.58 sqm				R229472.61
	Cost per sqm				R746.06
	Rate per sqm			Say	R746.10

11.15.3	0.50mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				
11039	0.50mm thick Pre-painted Galvalume sheet	sqm	333.27	R495.00	R164968.65
11020	Polymer coated J or L hooks with nuts Considering 2.40 Nos. per sqm, For an area of 307.58 sqm area, No. of bolts required 738.19 Nos. Wastage = 36.81 Nos. Total = 775 Nos.	10 Nos.	775	R120.00	R9300.00

11006	GI Washers	cent	775	R30.00	R232.50
11018	Bitumen washers	cent	775	R33.00	R255.75
	LABOUR:				
0225	Foreman	Day	3.00	R395.00	R1185.00
0210	Carpenter	Day	18.00	R395.00	R7110.00
0203	Helper	Day	18.00	R310.00	R5580.00
					R188631.90
	Add for carriage of sheets	@	0.50%		R943.16
					R189575.06
	Add for scaffolding, ropes, pulley etc.	@	0.75%		R1421.81
					R190996.87
	Add for cat ladders or roof boards	@	0.50%		R954.98
					R191951.85
	Add for sundries and contingencies	@	3.00%	R191951.85	R5758.56
					R197710.41
	Add for water charges	@	1.00%	R197710.41	R1977.10
					R199687.51
	Add GST (multiplying factor)		0.1405	R199687.51	R28056.10
					R227743.61
	Add for overheads and contractor's profit	@	15.00%	R227743.61	R34161.54
					R261905.15
	Add cess	@	1.00%	R261905.15	R2619.05
	Cost of Pre-painted Galvalume sheet roof of 307.58 sqm				R264524.20
	Cost per sqm				R860.02
	Rate per sqm			Say	R860.00

11.15.4	0.60mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
Code	MATERIALS :	Ullit	Qualitity	Kale	Amount
	IVIA I ERIALS :				
11040	0.60mm thick Pre-painted Galvalume sheet	sqm	333.27	R590.00	R196629.30
11020	Polymer coated J or L hooks with nuts Considering 2.40 Nos. per sqm, For an area of 307.58 sqm area, No. of bolts required 738.19 Nos. Wastage = 36.81 Nos. Total = 775 Nos.	10 Nos.	775	R120.00	R9300.00
11006	GI Washers	cent	775	R30.00	R232.50
11018	Bitumen washers	cent	775	R33.00	R255.75
	LABOUR:				
0225	Foreman	Day	3.00	R395.00	R1185.00
0210	Carpenter	Day	18.00	R395.00	R7110.00
0203	Helper	Day	18.00	R310.00	R5580.00
					R220292.55
	Add for carriage of sheets	@	0.50%		R1101.46
					R221394.01
	Add for scaffolding, ropes, pulley etc.	@	0.75%		R1660.46
					R223054.47
	Add for cat ladders or roof boards	@	0.50%		R1115.27
					R224169.74
	Add for sundries and contingencies	@	3.00%	R224169.74	R6725.09
_					R230894.83
	Add for water charges	@	1.00%	R230894.83	R2308.95
					R233203.78
_	Add GST (multiplying factor)		0.1405	R233203.78	R32765.13
					R265968.91
	Add for overheads and contractor's profit	@	15.00%	R265968.91	R39895.34

				R305864.25
Add cess	@	1.00%	R305864.25	R3058.64
Cost of Pre-painted Galvalume she 307.58 sqm	et roof of			R308922.89
Cost per sqm				R1004.37
F	Rate per sqm		Say	R1004.40

11.15.5	0.80mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				
11041	0.80mm thick Pre-painted Galvalume sheet	sqm	333.27	R790.00	R263283.30
11020	Polymer coated J or L hooks with nuts Considering 2.40 Nos. per sqm, For an area of 307.58 sqm area, No. of bolts required 738.19 Nos. Wastage = 36.81 Nos. Total = 775 Nos.	10 Nos.	775	R120.00	R9300.00
11006	GI Washers	cent	775	R30.00	R232.50
11018	Bitumen washers	cent	775	R33.00	R255.75
	LABOUR:				
0225	Foreman	Day	3.00	R395.00	R1185.00
0210	Carpenter	Day	18.00	R395.00	R7110.00
0203	Helper	Day	18.00	R310.00	R5580.00
					R286946.55
	Add for carriage of sheets	@	0.50%		R1434.73
					R288381.28
	Add for scaffolding, ropes, pulley etc.	@	0.75%		R2162.86
					R290544.14
	Add for cat ladders or roof boards	@	0.50%		R1452.72
					R291996.86
	Add for sundries and contingencies	@	3.00%	R291996.86	R8759.91
					R300756.77
	Add for water charges	@	1.00%	R300756.77	R3007.57
					R303764.34
	Add GST (multiplying factor)		0.1405	R303764.34	R42678.89
	, , , , , , , , , , , , , , , , , , ,				R346443.23
	Add for overheads and contractor's profit	@	15.00%	R346443.23	R51966.48
					R398409.71
	Add cess	@	1.00%	R398409.71	R3984.10
	Cost of Pre-painted Galvalume sheet roof of				
	307.58 sqm				R402393.81
	Cost per sqm				R1308.26
	Rate per sqm			Say	R1308.30

11.16	Supply & installation of pre-painted Galvalur grade, made out of Cold rolled steel coated wand 1.5% Silicon confirming to AASTM A7 colour coated with high quality polyester coback side coat of 5 micron, having epoxy priprotective guard film of 25 microns mining should have protective guard film of transportation. The sheet shall be fixed using or with polymer coated J or L hooks, bo bitumen wishers complete for Ridges/Valley/	vith Zing 92/A79 ating, to mer coa mum to 25 mi g self o Its and	c-Aluminium 2M and Assop coated of the of 5 micros avoid screens mindrilling /serouts G.I.	m alloy coating of S1397, Alloy coat of modified polyes on on both side. Stratches while transimum to avoid of tapping screws seam bolts and numbers.	43.5% Zn, 55% Aling AZ150/AZ70, eter of 20 micron, heet should have asportation. Sheet scratches while with EPDM seal
11.16.1	0.40mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
	Consider roof shown as in Fig. earlier, accordi			ridge for the abov	
	20.50m				
	MATERIALS:				
11043	0.40mm thick ridge plain Length of ridge = 20.50m Add wastage = 1.50m Total = 22.0m	m	22.00	R225.00	R4950.00
	Polymer coated J or L hooks with nuts: as the ridge is fixed with the same hooks used to fix the sheet no separate hooks are required				
	LABOUR:				
0225	Foreman	Day	0.25	R395.00	R98.75
0210	Carpenter	Day	0.75	R395.00	R296.25
0203	Helper	Day	1.50	R310.00	R465.00
			0.500/		R5810.00
	Add for carriage of sheets	@	0.50%		R29.05 R5839.05
	Add for scaffolding, ropes, pulley etc.	@	0.75%		R43.79
	Add for scarrolding, ropes, pulley etc.	<u> </u>	0.75%		R5882.84
	Add for cat ladders or roof boards	@	0.50%		R29.41
	rida for dat laddord of foot boards		0.00%		R5912.25
	Add for sundries and contingencies	@	3.00%	R5912.25	R177.37
	, v				R6089.62
	Add for water charges	@	1.00%	R6089.62	R60.90
					R6150.52
	Add GST (multiplying factor)		0.1405	R6150.52	R864.15
					R7014.67
	Add for overheads and contractor's profit	@	15.00%	R7014.67	R1052.20
					R8066.87
	Add cess	@	1.00%	R8066.87	R80.67
	Cost of providing and fixing 20.5m ridges				R8147.54
	Cost per m				R397.44
	Rate per m			Say	R397.40

11.16.2	0.45mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				

11042	0.45mm thick ridge plain Length of ridge = 20.50m Add wastage = 1.50m Total = 22.0m	m	22.00	R235.00	R5170.00
	Polymer coated J or L hooks with nuts: as the ridge is fixed with the same hooks used to fix the sheet no separate hooks are required				
	LABOUR:				
0225	Foreman	Day	0.25	R395.00	R98.75
0210	Carpenter	Day	0.75	R395.00	R296.25
0203	Helper	Day	1.50	R310.00	R465.00
					R6030.00
	Add for carriage of sheets	@	0.50%		R30.15
					R6060.15
	Add for scaffolding, ropes, pulley etc.	@	0.75%		R45.45
					R6105.60
	Add for cat ladders or roof boards	@	0.50%		R30.53
					R6136.13
	Add for sundries and contingencies	@	3.00%	R6136.13	R184.08
					R6320.21
	Add for water charges	@	1.00%	R6320.21	R63.20
					R6383.41
	Add GST (multiplying factor)		0.1405	R6383.41	R896.87
					R7280.28
	Add for overheads and contractor's profit	@	15.00%	R7280.28	R1092.04
					R8372.32
_	Add cess	@	1.00%	R8372.32	R83.72
	Cost of providing and fixing 20.5m ridges				R8456.04
	Cost per m				R412.49
	Rate per m			Say	R412.50

11.16.3	0.50mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				
11044	0.50mm thick ridge plain Length of ridge = 20.50m Add wastage = 1.50m Total = 22.0m	m	22.00	R275.00	R6050.00
	Polymer coated J or L hooks with nuts: as the ridge is fixed with the same hooks used to fix the sheet no separate hooks are required				
	LABOUR:				
0225	Foreman	Day	0.25	R395.00	R98.75
0210	Carpenter	Day	0.75	R395.00	R296.25
0203	Helper	Day	1.50	R310.00	R465.00
					R6910.00
	Add for carriage of sheets	@	0.50%		R34.55
					R6944.55
	Add for scaffolding, ropes, pulley etc.	@	0.75%		R52.08
					R6996.63
	Add for cat ladders or roof boards	@	0.50%		R34.98
					R7031.61
	Add for sundries and contingencies	@	3.00%	R7031.61	R210.95
					R7242.56
	Add for water charges	@	1.00%	R7242.56	R72.43

d for overheads and contractor's profit d cess	@	15.00%	R8342.75 R9594.16	R1251.41 R9594.16 R95.94
d for overheads and contractor's profit	@	15.00%	R8342.75	
d for overheads and contractor's profit	@	15.00%	R8342.75	R1251.41
				R8342.75
d GST (multiplying factor)		0.1405	R7314.99	R1027.76
d	GST (multiplying factor)	GST (multiplying factor)	GST (multiplying factor) 0.1405	GST (multiplying factor) 0.1405 R7314.99

11.16.4	0.60mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				
11045	0.60mm thick ridge plain Length of ridge = 20.50m Add wastage = 1.50m Total = 22.0m	m	22.00	R330.00	R7260.00
	Polymer coated J or L hooks with nuts: as the ridge is fixed with the same hooks used to fix the sheet no separate hooks are required				
	LABOUR:				
0225	Foreman	Day	0.25	R395.00	R98.75
0210	Carpenter	Day	0.75	R395.00	R296.25
0203	Helper	Day	1.50	R310.00	R465.00
					R8120.00
	Add for carriage of sheets	@	0.50%		R40.60
					R8160.60
	Add for scaffolding, ropes, pulley etc.	@	0.75%		R61.20
					R8221.80
	Add for cat ladders or roof boards	@	0.50%		R41.11
					R8262.91
	Add for sundries and contingencies	@	3.00%	R8262.91	R247.89
					R8510.80
	Add for water charges	@	1.00%	R8510.80	R85.11
					R8595.91
	Add GST (multiplying factor)		0.1405	R8595.91	R1207.73
					R9803.64
	Add for overheads and contractor's profit	@	15.00%	R9803.64	R1470.55
					R11274.19
	Add cess	@	1.00%	R11274.19	R112.74
	Cost of providing and fixing 20.5m ridges				R11386.93
	Cost per m				R555.46
	Rate per m			Say	R555.50

11.16.5	0.80mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				
11046	0.80mm thick ridge plain Length of ridge = 20.50m Add wastage = 1.50m Total = 22.0m	m	22.00	R430.00	R9460.00

	Polymer coated J or L hooks with nuts: as the ridge is fixed with the same hooks used to fix the sheet no separate hooks are required				
	LABOUR:				
0225	Foreman	Day	0.25	R395.00	R98.75
0210	Carpenter	Day	0.75	R395.00	R296.25
0203	Helper	Day	1.50	R310.00	R465.00
					R10320.00
	Add for carriage of sheets	@	0.50%		R51.60
					R10371.60
	Add for scaffolding, ropes, pulley etc.	@	0.75%		R77.79
					R10449.39
	Add for cat ladders or roof boards	@	0.50%		R52.25
					R10501.64
	Add for sundries and contingencies	@	3.00%	R10501.64	R315.05
					R10816.69
	Add for water charges	@	1.00%	R10816.69	R108.17
					R10924.86
	Add GST (multiplying factor)		0.1405	R10924.86	R1534.94
					R12459.80
	Add for overheads and contractor's profit	@	15.00%	R12459.80	R1868.97
					R14328.77
	Add cess	@	1.00%	R14328.77	R143.29
	Cost of providing and fixing 20.5m ridges				R14472.06
	Cost per m				R705.95
	Rate per m	_		Say	R706.00

	CEILING \	WORK	,		
11.17	Providing and fixing insulating board ceiling of (frame work to be paid separately):	of appro	oved quality	with necessary	nails etc. complet
11.17.1	12 mm thick natural colour insulating board				
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				
11031	Insulating board qty. = 10.00 sqm Add wastage = 1.00 sqm Total = 11 sqm	sqm	11.00	R230.00	R2530.00
	LABOUR:				
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.0
0203	Belder	Day	2.00	R310.00	R620.00
					R4250.00
	Add for sundries (carriage of materials, nails, putty and scaffolding) and contingencies	@	3.00%	R4250.00	R127.50
					R4377.50
	Add for water charges	@	1.00%	R4377.50	R43.78
					R4421.28
	Add GST (multiplying factor)		0.1405	R4421.28	R621.19
					R5042.47
	Add for overheads and contractor's profit	@	15.00%	R5042.47	R756.37
					R5798.84
	Add cess	@	1.00%	R5798.84	R57.99
	Cost of 12mm thick Insulating board of area 10 sqm				R5856.83

Cost per sqm			R585.68
Rate per sqm		Say	R585.70

11.17.2	12 mm thick White face insulating board				
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				
11086	Insulating board qty. = 10.00 sqm Add wastage = 1.00 sqm Total = 11 sqm	sqm	11.00	R255.00	R2805.00
	LABOUR:				
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.00
0203	Belder	Day	2.00	R310.00	R620.00
					R4525.00
	Add for sundries (carriage of materials, nails, putty and scaffolding) and contingencies	@	3.00%	R4525.00	R135.75
					R4660.75
	Add for water charges	@	1.00%	R4660.75	R46.61
					R4707.36
	Add GST (multiplying factor)		0.1405	R4707.36	R661.38
					R5368.74
	Add for overheads and contractor's profit	@	15.00%	R5368.74	R805.31
					R6174.05
	Add cess	@	1.00%	R6174.05	R61.74
	Cost of 12mm thick White face insulating board of area 10 sqm				R6235.79
	Cost per sqm				R623.58
	Rate per sqm			Say	R623.60

11.17.3	12 mm thick Flame retardant face insulating b	oard			
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				
11015	Insulating board qty. = 10.00 sqm Add wastage = 1.00 sqm Total = 11 sqm	sqm	11.00	R330.00	R3630.00
	LABOUR:				
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.00
0203	Belder	Day	2.00	R310.00	R620.00
					R5350.00
	Add for sundries (carriage of materials, nails, putty and scaffolding) and contingencies	@	3.00%	R5350.00	R160.50
					R5510.50
	Add for water charges	@	1.00%	R5510.50	R55.11
					R5565.61
	Add GST (multiplying factor)		0.1405	R5565.61	R781.97
					R6347.58
	Add for overheads and contractor's profit	@	15.00%	R6347.58	R952.14
					R7299.72
	Add cess	@	1.00%	R7299.72	R73.00
	Cost of 12mm thick Flame retardant face insulating board of area 10 sqm				R7372.72
	Cost per sqm				R737.27
	Rate per sqm			Say	R737.30

11.18	Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS: 3087 marked in ceiling with necessary nails etc. complete (frame work to be paid separately):							
11.18.1	12 mm thick							
Code	Description	Unit	Quantity	Rate	Amount			
	MATERIALS:							
08002	Standard quality board 12mm thick qty. = 10.00 sqm Add wastage = 1.00 sqm Total = 11 sqm	sqm	11.00	R342.00	R3762.00			
	LABOUR:							
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.00			
0203	Belder	Day	2.00	R310.00	R620.00			
					R5482.00			
	Add for sundries (carriage of materials, nails, putty and scaffolding) and contingencies	@	3.00%	R5482.00	R164.46			
					R5646.46			
	Add for water charges	@	1.00%	R5646.46	R56.46			
					R5702.92			
	Add GST (multiplying factor)		0.1405	R5702.92	R801.26			
					R6504.18			
	Add for overheads and contractor's profit	@	15.00%	R6504.18	R975.63			
					R7479.81			
	Add cess	@	1.00%	R7479.81	R74.80			
	Cost of 12mm thick board of area 10 sqm				R7554.61			
	Cost per sqm				R755.46			
	Rate per sqm			Say	R755.50			

11.19	Providing and fixing plain Multipurpose Ce 14862: 2000 with suitable screws for fibre be paid separately):				
11.19.1	6 mm thick cement board				
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS:				
05044	Non - Asbestos multi purpose fibre cement board 6mm thick. qty. = 10.00 sqm Add wastage = 1.00 sqm	sqm	11.00	R210.00	R2310.00
	Total = 11 sqm LABOUR :				
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.00
0203	Belder	Day	2.00	R310.00	R620.00
0200	Bordon	Day	2.00	110.000	R4030.00
	Add for sundries (carriage of materials, nails, putty and scaffolding) and contingencies	@	3.00%	R4030.00	R120.90
					R4150.90
	Add for water charges	@	1.00%	R4150.90	R41.51
					R4192.41
	Add GST (multiplying factor)		0.1405	R4192.41	R589.03
					R4781.44
	Add for overheads and contractor's profit	@	15.00%	R4781.44	R717.22
					R5498.66

1	Add cess	@	1.00%	R5498.66	R54.99
	Cost of Non - Asbestos multi purpose fibre cement board 6mm thick of area 10 sqm				R5553.65
(Cost per sqm				R555.37
	Rate per sqm			Say	R555.40

11.2	Extra for Circular cutting and waste in ceiling	with:			
11.20.1	2nd class teak wood planks 20 mm thick				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 holes of 0.5m dia each				
	(15.71m)				
	MATERIALS:				
08290	0.5 metre dia. each = 10x22/7x0.5= 15.71m Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. + Wastage @ 10% = 0.19 sqm. = 2.15 sqm x 20mm = 0.043 cum Second class teak wood in planks	10 cudm	43.20	R520.00	R2246.24
11007	Bright finished or black enamelled mild steel screws 40 mm	cent	31	R68.00	R21.08
	CARRIAGE			D74.50	D004.00
0473	Timber	cum	4.3197	R74.50	R321.82
0000	LABOUR:	D	0.50	D440.00	D000.00
0209 0210	Carpenter 1st class	Day	0.50 2.50	R440.00 R395.00	R220.00 R987.50
0210	Carpenter 2nd class Beldar	Day Day	2.50	R310.00	R864.90
0203	Deldal	Бау	2.17	1310.00	R4661.54
	Add for sundries (scaffolding) and contingencies	@	3.00%	R4661.54	R139.85
					R4801.39
	Add for water charges	@	1.00%	R4801.39	R48.01
					R4849.40
	Add GST (multiplying factor)		0.1405	R4849.40	R681.34
					R5530.74
	Add for overheads and contractor's profit	@	15.00%	R5530.74	R829.61
					R6360.35
	Add cess	@	1.00%	R6360.35	R63.60
	Cost of 15.71 metre				R6423.95
	Cost per m				R408.91
	Rate per m			Say	R408.90

11.20.2	Natural colour insulating board 12 mm thick				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 holes of 0.5m dia each Details of cost for 15.71 metre				
	MATERIALS:				
11031	0.5 metre dia. each = 10x22/7x0.5= 15.71m Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. + Wastage @ 10% = 0.19 sqm. Total = 2.15 sqm. Natural colour insulating board: 12 mm thick	sqm	2.1500	R230.00	R494.50
	LABOUR:				
0209	Carpenter 1st class	Day	0.49	R440.00	R215.60
0203	Beldar	Day	0.39	R310.00	R120.90

0209	Carpenter 1st class	Day	2.50	R440.00	R1100.00
0203	Beldar	Day	2.50	R310.00	R775.00
					R2706.00
	Add for sundries (scaffolding, nails etc.) and contingencies	@	3.00%	R2706.00	R81.18
					R2787.18
	Add for water charges	@	1.00%	R2787.18	R27.87
					R2815.05
	Add GST (multiplying factor)		0.1405	R2815.05	R395.51
					R3210.56
	Add for overheads and contractor's profit	@	15.00%	R3210.56	R481.58
					R3692.14
	Add cess	@	1.00%	R3692.14	R36.92
	Cost of circular cutting in ceiling for 15.71m length				R3729.06
	Cost per m				R237.37
	Rate per m			Say	R237.40

11.20.3	White face insulating board: 12 mm thick				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 15.71 metre				
	MATERIALS:				
11086	0.5 metre dia. each = 10x22/7x 0.5=15.71m Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. + Wastage @ 10% = 0.19 sqm. Total = 2.15 sqm. White face insulating board:12 mm thick	sqm	2.1500	R255.00	R548.25
	LABOUR:				
0209	Carpenter 1st class	Day	0.49	R440.00	R215.60
0203	Beldar	Day	0.39	R310.00	R120.90
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.00
0203	Beldar	Day	2.50	R310.00	R775.00
					R2759.75
	Add for sundries (scaffolding, nails etc.) and contingencies	@	3.00%	R2759.75	R82.79
					R2842.54
	Add for water charges	@	1.00%	R2842.54	R28.43
					R2870.97
	Add GST (multiplying factor)		0.1405	R2870.97	R403.37
					R3274.34
	Add for overheads and contractor's profit	@	15.00%	R3274.34	R491.15
					R3765.49
	Add cess	@	1.00%	R3765.49	R37.65
	Cost of circular cutting in ceiling for 15.71m length				R3803.14
	Cost per m				R242.08
	Rate per m			Say	R242.10

11.20.4	Flame retardant face insulating board: 12 mm thick					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 15.71 metre					
	MATERIALS:					

11015	0.5 metre dia. each = 10x22/7x 0.5=15.71m Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. + Wastage @ 10% = 0.19 sqm. Total = 2.15 sqm. Flame retardent face insulating board: 12 mm thick	sqm	2.1500	R330.00	R709.50
	LABOUR:				
0209	Carpenter 1st class	Day	0.49	R440.00	R215.60
0203	Beldar	Day	0.39	R310.00	R120.90
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.00
0203	Beldar	Day	2.50	R310.00	R775.00
					R2921.00
	Add for sundries (scaffolding, nails etc.) and contingencies	@	3.00%	R2921.00	R87.63
					R3008.63
	Add for water charges	@	1.00%	R3008.63	R30.09
	, and the second				R3038.72
	Add GST (multiplying factor)		0.1405	R3038.72	R426.94
					R3465.66
	Add for overheads and contractor's profit	@	15.00%	R3465.66	R519.85
					R3985.51
	Add cess	@	1.00%	R3985.51	R39.86
	Cost of circular cutting in ceiling for 15.71m length				R4025.37
	Cost per m				R256.23
	Rate per m			Say	R256.20

11.20.5	Standard quality hard board sheet: 3 mm thic	k			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 15.71 metre				
	MATERIALS:				
11064	0.5 metre dia. each = 10x22/7x 0.5=15.71m Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. + Wastage @ 10% = 0.19 sqm. Total = 2.15 sqm. Standard quality hard board sheet 3 mm thick	sqm	2.1500	R140.00	R301.00
	LABOUR:				
0209	Carpenter 1st class	Day	0.49	R440.00	R215.60
0203	Beldar	Day	0.39	R310.00	R120.90
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.00
0203	Beldar	Day	2.50	R310.00	R775.00
					R2512.50
	Add for sundries (scaffolding, nails etc.) and contingencies	@	3.00%	R2512.50	R75.38
	, and the second				R2587.88
	Add for water charges	@	1.00%	R2587.88	R25.88
					R2613.76
	Add GST (multiplying factor)		0.1405	R2613.76	R367.23
					R2980.99
	Add for overheads and contractor's profit	@	15.00%	R2980.99	R447.15
			1		R3428.14
	Add cess	@	1.00%	R3428.14	R34.28
_	Cost of circular cutting in ceiling for 15.71 m length				R3462.42

Cost per m			R220.40
Rate per m		Say	R220.40

11.20.6	Standard quality hard board sheet: 4.5 mm thi	ck			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 15.71 metre				
	MATERIALS:				
	0.5 metre dia. each = 10x22/7x 0.5=15.71m				
	Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
11065	Wastage @ 10% = 0.19 sqm.	cam	2.1500	R200.00	R430.00
11005	Total = 2.15 sqm .	sqm	2.1500	11200.00	11430.00
	Standard quality hard board sheet 4.5 mm				
	thick				
	LABOUR:				
0209	Carpenter 1st class	Day	0.49	R440.00	R215.60
0203	Beldar	Day	0.39	R310.00	R120.90
0209	Carpenter 1st class	Day	2.50	R440.00	R1100.00
0203	Beldar	Day	2.50	R310.00	R775.00
					R2641.50
	Add for sundries (scaffolding, nails etc.) and contingencies	@	3.00%	R2641.50	R79.25
	, and the second				R2720.75
	Add for water charges	@	1.00%	R2720.75	R27.21
					R2747.96
	Add GST (multiplying factor)		0.1405	R2747.96	R386.09
					R3134.05
	Add for overheads and contractor's profit	@	15.00%	R3134.05	R470.11
					R3604.16
	Add cess	@	1.00%	R3604.16	R36.04
	Cost of circular cutting in ceiling for 15.71 m length				R3640.20
	Cost per m				R231.71
	Rate per m			Say	R231.70

11.21	Extra for providing and fixing ceiling to curved surfaces in narrow widths.						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 sqm.						
	LABOUR:						
0209	Carpenter 1st class	Day	1.00	R440.00	R440.00		
0210	Carpenter 2nd class	Day	1.00	R395.00	R395.00		
0203	Beldar	Day	2.00	R310.00	R620.00		
					R1455.00		
	Add for sundries and contingencies	@	3.00%	R1455.00	R43.65		
					R1498.65		
	Add for water charges	@	1.00%	R1498.65	R14.99		
					R1513.64		
	Add GST (multiplying factor)		0.1405	R1513.64	R212.67		
					R1726.31		
	Add for overheads and contractor's profit	@	15.00%	R1726.31	R258.95		
					R1985.26		
	Add cess	@	1.00%	R1985.26	R19.85		
	Extra cost of providing & fixing ceiling to curbed surface of 10 sqm area				R2005.11		
	Cost per sqm				R200.51		

Rate per sqm	Say	R200.50
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11.22	Providing 10mm thick plaster of Paris (gypsu floor level over first class wood strips 25 with rabbit wire mesh fixed to wooden frame	x6 mm	with 10 n	nm gap in betwee	
11.22.1	Flat surfaces				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 4.00x2.5=10sqm				
	MATERIALS:				
08281	Wooden strips of 1st class other wood 72x40x0.25x0.06 = 43.20 cudm. + Add 10% wastage = 4.32 cudm. Total = 47.52 cudm First class others wood in planks	10 cudm	47.52	R285.00	R1354.32
12031	Plaster of paris - 2.5x4.0x10x 1121/1000 = 112.10 kg. Add for plaster of paris joining into the side of the laths- 2.5x4.0x4.0032x 1121/1000 = 44.87 kg. Total = 156.97+ Add 40% wastage = 62.79 Total = 219.76 kg Plaster of Paris	kg	219.76	R7.00	R1538.32
11087	Wire mesh (rabbit)	sqm	10.20	R42.00	R428.40
05066	Wire nails required for fixing the laths to frame work including breakage and wastage of nails	kg	0.75	R63.00	R47.25
	CARRIAGE				
0473	Timber	cum	0.04752	R74.50	R3.54
0434	Plaster of Paris	tonne	0.22	R102.47	R22.54
	LABOUR:				
	For fixing battens and mesh				
0209	Carpenter 1st class	Day	1.60	R440.00	R704.00
0203	Beldar	Day	1.60	R310.00	R496.00
	For doing plaster of paris over wooden strips				
0223	Mason (for plaster of paris work) 1st class	Day	3.23	R440.00	R1421.20
0203	Beldar	Day	3.23	R310.00	R1001.30
0205	Bhisti	Day	0.54	R310.00	R167.40
					R7184.27
	Add for sundries (Carriage of wiremesh and nails etc., Scaffolding) and contingencies	@	3.00%	R7184.27	R215.53
					R7399.80
	Add for water charges	@	1.00%	R7399.80	R74.00
					R7473.80
	Add GST (multiplying factor)		0.1405	R7473.80	R1050.07 R8523.87
	Add for overheads and contractor's profit	@	15.00%	R8523.87	R1278.58
					R9802.45
	Add cess	@	1.00%	R9802.45	R98.02
	Cost of 10mm thick plaster of paris ceiling flat surfaces of area 10 sqm				R9900.47
	Cost per sqm				R990.05
	Rate per sqm			Say	R990.10

11.22.2	Curved surfaces				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 4.00x2.5=10sqm				
	MATERIALS:				
08281	Wooden strips of 1st class other wood 72x40x0.25x0.06 = 43.20 cudm. + Add 10% wastage = 4.32 cudm. Total = 47.52 cudm First class others wood in planks	10 cudm	47.52	R285.00	R1354.32
12031	Plaster of paris - 2.5x4.0x10x 1121/1000 = 112.10 kg. Add for plaster of paris joining into the side of the laths- 2.5x4.0x4.0032x 1121/1000 = 44.87 kg. Total = 156.97+ Add 40% wastage = 62.79 Total = 219.76 kg Plaster of Paris	kg	219.76	R7.00	R1538.32
11087	Wire mesh (rabbit)	sqm	10.20	R42.00	R428.40
05066	Wire nails required for fixing the laths to frame work including breakage and wastage of nails	kg	0.75	R63.00	R47.25
	CARRIAGE			R0.00	
0473	Timber	cum	0.04752	R74.50	R3.54
0434	Plaster of Paris	tonne	0.22	R102.47	R22.54
	LABOUR:				
	For fixing battens and mesh				
0209	Carpenter 1st class	Day	1.60	R440.00	R704.00
0203	Beldar	Day	1.60	R310.00	R496.00
	For doing plaster of paris over wooden strips				
0223	Mason (for plaster of paris work) 1st class	Day	3.23	R440.00	R1421.20
0203	Beldar	Day	3.23	R310.00	R1001.30
0205	Bhisti	Day	0.54	R310.00	R167.40
0209	Carpenter 1st class	Day	0.50	R440.00	R220.00
0223	Mason (for plaster of paris work) 1st class	Day	1.00	R440.00	R440.00
0203	Beldar	Day	1.50	R310.00	R465.00
					R8309.27
	Add for sundries (Carriage of wiremesh and nails etc., Scaffolding) and contingencies	@	3.00%	R8309.27	R249.28
					R8558.55
	Add for water charges	@	1.00%	R8558.55	R85.59
					R8644.14
	Add GST (multiplying factor)		0.1405	R8644.14	R1214.50
	, , , , , , , , ,		1		R9858.64
	Add for overheads and contractor's profit	@	15.00%	R9858.64	R1478.80
					R11337.44
	Add cess	@	1.00%	R11337.44	R113.37
	Cost of 12mm thick plaster of paris ceiling flat surfaces of area 10 sqm				R11450.81
	Cost per sqm				R1145.08
	Rate per sqm			Say	R1145.10

11.23 Extra for any sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm.				
	MATERIALS:				
12031	Plaster of paris	kg	109.88	R7.00	R769.16
	CARRIAGE				
0434	Plaster of paris	tonne	0.1100	R102.47	R11.27
	LABOUR:				
0223	Mason (for plaster of paris work) 1st class	Day	2.00	R440.00	R880.00
0203	Beldar	Day	2.00	R310.00	R620.00
0205	Bhisti	Day	0.25	R310.00	R77.50
					R2357.93
	Add for scaffolding, carriage of wire mesh, pumps for water etc.	@	1.50%		R35.37
					R2393.30
	Add for sundries and contingencies	@	3.00%	R2393.30	R71.80
					R2465.10
	Add for water charges	@	1.00%	R2465.10	R24.65
					R2489.75
	Add GST (multiplying factor)		0.1405	R2489.75	R349.81
					R2839.56
	Add for overheads and contractor's profit	@	15.00%	R2839.56	R425.93
					R3265.49
	Add cess	@	1.00%	R3265.49	R32.65
	Cost of 10.00 sqm.				R3298.14
	Cost per sqm				R329.81
	Rate per sqm			Say	R329.80

11.24	Extra for providing plaster of Paris (Gypsum level.	anhydi	ous) ceiling	above 5 metres	height from floor
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10sqm/metre height				
	LABOUR:				
0223	Mason (for plaster of paris work) 1st class	Day	1.00	R440.00	R440.00
0203	Beldar	Day	1.00	R310.00	R310.00
0205	Bhisti	Day	0.25	R310.00	R77.50
					R827.50
	Add for sundries (Scaffolding) and contingencies	@	3.00%	R827.50	R24.83
					R852.33
	Add for water charges	@	1.00%	R852.33	R8.52
					R860.85
	Add GST (multiplying factor)		0.1405	R860.85	R120.95
					R981.80
	Add for overheads and contractor's profit	@	15.00%	R981.80	R147.27
					R1129.07
	Add cess	@	1.00%	R1129.07	R11.29
	Cost of 10.00sqm / metre height				R1140.36
	Cost of 1 sqm per metre height				R114.04
<u> </u>	Cost of 1 sqm per metre height			Say	R114.00

Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS: 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with:

11.25.1	12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part I.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.8x9.6m = 103.68sqm.				
	MATERIALS:				
11096	Gypsum board 12.5mm thick = 103.68 sqm.+ Add wastage @ 5% = 5.18sqm. Total = 108.86 sqm. 12.5 mm thick tapered edge gypsum plain borad	sqm	108.86	R160.00	R17417.60
11090	Galvanised Steel ceiling section (size 80x26x0.50mm)	m	238.14	R48.00	R11430.72
11091	Galvanised Steel perimetre Channel (Size 20x27x30x0.50mm)	m	41.84	R23.00	R962.32
11092	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	m	90.72	R40.00	R362.88
11093	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50mm)	m	10.80	R12.00	R129.60
11094	Galvanised Steel connecting clips (2.64mm dia and 230 mm long GI wire)	each	189	R4.00	R756.00
05029	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos.	216.00	R38.00	R820.80
11095	Galvanised Steel soffit cleat (Size 27x37x25x0.60mm)	each	72	R3.00	R216.00
11005	25mm long drive all screws	cent	1000	R60.00	R600.00
11029	Joint tape	Roll	1.27	R112.00	R142.24
11027	Joint filler	kg	22.81	R30.00	R684.30
11028	Joint finisher	kg	34.21	R27.00	R923.67
11012	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72	R13.00	R936.00
11099	Primer (for gypsum board)	litre	18.66	R85.00	R1586.10
	LABOUR:				
0203	Belder	Day	31.104	R310.00	R9642.24
0210	Carpenter 2nd class	Day	31.104	R395.00	R12286.08
0227	Painter	Day	10.368	R395.00	R4095.36
					R62991.91

11.25

Add for sundries (rawl plug scaffolding, Carriage of material) and contingencies [LS]	@	3.00%	R62991.91	R1889.76
				R64881.67
Add for water charges	@	1.00%	R64881.67	R648.82
				R65530.49
Add GST (multiplying factor)		0.1405	R65530.49	R9207.03
				R74737.52
Add for overheads and contractor's profit	@	15.00%	R74737.52	R11210.63
				R85948.15
Add cess	@	1.00%	R85948.15	R859.48
Cost of 103.68 sqm false ceiling				R86807.63
Cost per sqm				R837.26
Rate per sqm			Say	R837.30

11.25.2	12.5 mm thick tapered edge gypsum fire resis	tant bo	ard conforn	ning to IS: 2095- P	art I.
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.8x9.6m = 103.68sqm.				
	MATERIALS:				
11100	Gypsum board 12.5mm thick = 103.68 sqm.+ Add wastage @ 5% = 5.18sqm. Total = 108.86 sqm. 12.5 mm thick tapered edge gypsum fire resistant board	sqm	108.86	R285.00	R31025.10
11090	Galvanised Steel ceiling section (size 80x26x0.50mm)	m	238.14	R48.00	R11430.72
11091	Galvanised Steel perimetre Channel (Size 20x27x30x0.50mm)	m	41.84	R23.00	R962.32
11092	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	m	90.72	R40.00	R362.88
11093	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50mm)	m	10.80	R12.00	R129.60
11094	Galvanised Steel connecting clips (2.64mm dia and 230 mm long Gl wire)	each	189	R4.00	R756.00
05029	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos.	216.00	R38.00	R820.80
11095	Galvanised Steel soffit cleat (Size 27x37x25x0.60mm)	each	72	R3.00	R216.00
11005	25mm long drive all screws	cent	1000	R60.00	R600.00
11029	Joint tape	Roll	1.27	R112.00	R142.24
11027	Joint filler	kg	22.81	R30.00	R684.30
11028	Joint finisher	kg	34.21	R27.00	R923.67
11012	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72	R13.00	R936.00
11099	Primer (for gypsum board)	litre	18.66	R85.00	R1586.10
	LABOUR:				
0203	Belder	Day	31.104	R310.00	R9642.24
0210	Carpenter 2nd class	Day	31.104	R395.00	R12286.08
0227	Painter	Day	10.368	R395.00	R4095.36
					R76599.41
	Add for sundries (rawl plug scaffolding, Carriage of material) and contingencies [LS]	@	3.00%	R76599.41	R2297.98
					R78897.39
	Add for water charges	@	1.00%	R78897.39	R788.97
					R79686.36
	Add GST (multiplying factor)		0.1405	R79686.36	R11195.93

				R90882.29
Add for overheads and contractor's profit	@	15.00%	R90882.29	R13632.34
				R104514.63
Add cess	@	1.00%	R104514.63	R1045.15
Cost of 103.68 sqm false ceiling				R105559.78
Cost per sqm				R1018.13
Rate per sqm			Say	R1018.10

11.25.3	12.5 mm thick tapered edge gypsum moisture	resista	nt board.		
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.8x9.6m = 103.68sqm.				
	MATERIALS:				
	Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm. Total = 108.86				
11101		cam	108.86	R290.00	R31569.40
11101	sqm.	sqm	100.60	N290.00	N31309.40
	12.5 mm thick tapered edge gypsum moisture				
	resistant board Galvanised Steel ceiling section (size				
11090		m	238.14	R48.00	R11430.72
	80x26x0.50mm) Galvanised Steel perimetre Channel (Size		+		
11091	· · · · · · · · · · · · · · · · · · ·	m	41.84	R23.00	R962.32
	20x27x30x0.50mm)				
11092	Galvanised Steel intermediate Channel (Size	m	90.72	R40.00	R362.88
	15x45x15x0.90mm)				
11093	Galvanised Steel angle hanger (Celling angle)	m	10.80	R12.00	R129.60
	(Size 25x10x0.50mm)				
11094	Galvanised Steel connecting clips (2.64mm dia	each	189	R4.00	R756.00
	and 230 mm long GI wire)				
05029	Galvanised steel bolts & nuts 6 mm dia and 25	10	216.00	R38.00	R820.80
	mm long round head with slots	Nos.			
11095	Galvanised Steel soffit cleat (Size	each	72	R3.00	R216.00
	27x37x25x0.60mm)	odon			
11005	25mm long drive all screws	cent	1000	R60.00	R600.00
11029	Joint tape	Roll	1.27	R112.00	R142.24
11027	Joint filler	kg	22.81	R30.00	R684.30
11028	Joint finisher	kg	34.21	R27.00	R923.67
11012	Dash hold fastener 12.5 mm dia, 40 mm long	each	72	R13.00	R936.00
	with 6 mm dia bolt				
11099	Primer (for gypsum board)	litre	18.66	R85.00	R1586.10
	LABOUR:				
0203	Belder	Day	31.104	R310.00	R9642.24
0210	Carpenter 2nd class	Day	31.104	R395.00	R12286.08
0227	Painter	Day	10.368	R395.00	R4095.36
					R77143.71
	Add for sundries (rawl plug scaffolding,				
	Carriage of material) and contingencies [LS]	@	3.00%	R77143.71	R2314.31
	Carriage of material) and contingencies [L3]				
					R79458.02
	Add for water charges	@	1.00%	R79458.02	R794.58
					R80252.60
	Add GST (multiplying factor)		0.1405	R80252.60	R11275.49
					R91528.09
	Add for overheads and contractor's profit	@	15.00%	R91528.09	R13729.21
					R105257.30
	Add coss	@	1.00%	R105257.30	R1052.57
	Add cess	w	1.00%	N 100201.30	
	Cost of 103.68 sqm false ceiling		 		R106309.87
	Cost per sqm				R1025.37

Rate per sqm	Say	R1025.40
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	Fully Perforated Gypsum Plaster Board of size			• • • • • • • • • • • • • • • • • • • •			
11.25.4	perforated area with perforation size and pattern as approved by the Engineer-incharge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC						
	value not less than 0.60.	iporo u c	ma baonea i	oy accustical tissu			
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10.8x9.6m = 103.68sqm.						
	MATERIALS:						
	Gypsum board 12.5mm thick = 103.68 sqm.+						
11102	Add wastage @ 5% = 5.18sqm. Total = 108.86 sqm.	sqm	108.86	R450.00	R48987.0		
	Fully Perforated Gypsum Plaster Board Galvanised Steel ceiling section (size						
11090	80x26x0.50mm)	m	238.14	R48.00	R11430.7		
11091	Galvanised Steel perimetre Channel (Size 20x27x30x0.50mm)	m	41.84	R23.00	R962.3		
11092	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	m	90.72	R40.00	R362.8		
11093	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50mm)	m	10.80	R12.00	R129.0		
11094	Galvanised Steel connecting clips (2.64mm dia and 230 mm long GI wire)	each	189	R4.00	R756.0		
05029	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos.	216.00	R38.00	R820.8		
11095	Galvanised Steel soffit cleat (Size 27x37x25x0.60mm)	each	72	R3.00	R216.		
11005	25mm long drive all screws	cent	1000	R60.00	R600.0		
11029	Joint tape	Roll	1.27	R112.00	R142.2		
11027	Joint filler	kg	22.81	R30.00	R684.		
11028	Joint finisher	kg	34.21	R27.00	R923.		
11012	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72	R13.00	R936.		
11099	Primer (for gypsum board)	litre	18.66	R85.00	R1586.		
	LABOUR:						
0203	Belder	Day	31.104	R310.00	R9642.:		
0210	Carpenter 2nd class	Day	31.104	R395.00	R12286.		
0227	Painter	Day	10.368	R395.00	R4095. R94561.		
	Add for sundries (rawl plug scaffolding, Carriage of material) and contingencies [LS]	@	3.00%	R94561.31	R2836.		
					R97398.		
	Add for water charges	@	1.00%	R97398.15	R973.		
					R98372.		
	Add GST (multiplying factor)		0.1405	R98372.13	R13821.		
	Add for overheads and contractor's profit	@	15.00%	R112193.41	R112193. R16829.		
	The second secon		. 3.0070		R129022.		
	Add cess	@	1.00%	R129022.42	R129022. R1290.		
	Cost of 103.68 sqm false ceiling	w	1.00%	11123022.42	R130312.		
	Cost of 103.08 sqfff false certifig Cost per sqm		 		R130312.		
	Rate per sqm			Say	R1256.		

11.26	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal
	level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized@
	120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to
	get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at
	1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet,
	1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600
	mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick
	(minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600
	mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the
	grid including, required cutting/making, opening for services like diffusers, grills, light fittings,
	fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats
	of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4
	mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200
	mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-
	painted with polyester paint, all complete for all heights as per specifications, drawings and as
	directed by Engineer-in-charge.
	11.26

11.26.1 GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.

	including factory painted after bending.					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 100sqm.					
	MATERIALS:					
11103	Celling Area =100 sqm Add wastage @ 5% = 5 sqm. Total=105 sqm GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	105.00	R600.00	R63000.00	
11030	Main T ceiling sections 24x38x0.3 mm (3 metre long) each Including Wastage @ 10%	each	29.5	R114.00	R3363.00	
11033	Perimeter wall angle 24x24x0.3mm (3 metre long) each Including Wastage @ 10%	each	13.5	R84.00	R1134.00	
11026	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long) each Including Wastage @ 10% on Grid for cut outs	each	147.0	R42.00	R6174.00	
11025	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long) each Including Wastage @ 10% on Grid for cut outs	each	147.0	R35.00	R5145.00	
11023	Hanger rod 4 mm thick	each	72	R8.00	R576.00	
11004	Adjustment clip 85x30x0.8mm	each	72	R5.00	R360.00	
11062	Soffit cleat (Size 27x37x25x1.60mm)	each	72	R5.00	R360.00	
11012	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72	R13.00	R936.00	
	LABOUR:					
0203	Belder	Day	23.00	R310.00	R7130.00	
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00	
					R100498.00	
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R100498.00	R3014.94	
					R103512.94	
	Add for water charges	@	1.00%	R103512.94	R1035.13	
					R104548.07	
	Add GST (multiplying factor)		0.1405	R104548.07	R14689.00	
					R119237.07	
	Add for overheads and contractor's profit	@	15.00%	R119237.07	R17885.56	
					R137122.63	
	Add cess	@	1.00%	R137122.63	R1371.23	

Cost of 100 sqm false ceiling			R138493.86
Cost per sqm			R1384.94
Rate per sqm		Say	R1384.90

11.26.2	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 100sqm.						
11104	MATERIALS: Celling Area =100 sqm Add wastage @ 5% = 5 sqm. Total=105 sqm Gl Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	105.00	R700.00	R73500.00		
11030	Main T ceiling sections 24x38x0.3 mm (3 metre long) each Including Wastage @ 10%	each	29.5	R114.00	R3363.00		
11033	Perimeter wall angle 24x24x0.3mm (3 metre long) each Including Wastage @ 10%	each	13.5	R84.00	R1134.00		
11026	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long) each Including Wastage @ 10% on Grid for cut outs	each	147.0	R42.00	R6174.00		
11025	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long) each Including Wastage @ 10% on Grid for cut outs	each	147.0	R35.00	R5145.00		
11023	Hanger rod 4 mm thick	each	72	R8.00	R576.00		
11004	Adjustment clip 85x30x0.8mm	each	72	R5.00	R360.00		
11062	Soffit cleat (Size 27x37x25x1.60mm)	each	72	R5.00	R360.00		
11012	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72	R13.00	R936.00		
0000	LABOUR:	D	22.00	D240.00	D7420.00		
0203	Belder Carpenter 1st class	Day	23.00	R310.00	R7130.00 R12320.00		
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00		
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R110998.00	R3329.94		
	Add for water charges	@	1.00%	R114327.94	R114327.94 R1143.28		
	Add GST (multiplying factor)		0.1405	R115471.22	R115471.22 R16223.71 R131694.93		
	Add for overheads and contractor's profit	@	15.00%	R131694.93	R19754.24		
	Add cess Cost of 100 sqm false ceiling	@	1.00%	R151449.17	R151449.17 R1514.49 R152963.66		
	Cost of 100 sqift raise certifig Cost per sqm				R1529.64		
	Rate per sqm			Say	R1529.60		

11.26.3	12.5 mm thick square edge PVC Laminated (
	plasterboard, manufactured from natural gyp				
	0.16mm thick fire retardant PVC film on the				
	back side with all edges sealed with the face s			_	
	and is bonded to the edges and the back sign	de meta	alized polye	ester film so as t	o make the tile a
0 1	completely sealed unit.				
Code	Description Details of cost for 100ccm	Unit	Quantity	Rate	Amount
	Details of cost for 100sqm. MATERIALS:				
	Celling Area =100 sqm Add wastage @ 5% = 5 sqm. Total=105 sqm				
11105	PVC Laminated Gypsum Tiles (Square edge) of	sqm	105.00	R850.00	R89250.00
	Size 595x595 mm and 12.5 mm thick				
11030	Main T ceiling sections 24x38x0.3 mm (3 metre	each	29.5	R114.00	R3363.00
	long) each Including Wastage @ 10%		27.0		
11033	Perimeter wall angle 24x24x0.3mm (3 metre	ooch	13.5	R84.00	R1134.00
11033	long) each Including Wastage @ 10%	each	13.5	N04.00	K1134.00
	Intermediate cross T-section 24x25x 0.3mm				
11026	(1.2 mtrs long) each Including Wastage @ 10%	each	147.0	R42.00	R6174.00
	on Grid for cut outs				
	Intermediate cross T-section 24x25x 0.3mm				
11025	(0.6 mtrs long) each Including Wastage @ 10%	each	147.0	R35.00	R5145.00
	on Grid for cut outs				
11023	Hanger rod 4 mm thick	each	72	R8.00	R576.00
11004	Adjustment clip 85x30x0.8mm	each	72	R5.00	R360.00
11062	Soffit cleat (Size 27x37x25x1.60mm)	each	72	R5.00	R360.00
11012	Dash hold fastener 12.5 mm dia, 40 mm long	each	72	R13.00	R936.00
	with 6 mm dia bolt		,-		
	LABOUR:				5=100.00
0203	Belder	Day	23.00	R310.00	R7130.00
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00
					R126748.00
	Add for sundries (scaffolding, Carriage of	@	3.00%	R126748.00	R3802.44
	materials) and contingencies [LS]				D420550 44
	Add for water charges	@	1 00%	R130550.44	R130550.44
	Add for water charges	w	1.00%	N 130000.44	R1305.50 R131855.94
	Add GST (multiplying factor)		0.1405	R131855.94	R131655.94 R18525.76
	Add GST (marriprying factor)		0.1405	1(101000.94	R150381.70
			 		
	Add for overheads and contractor's profit	@	15.00%	R150381.70	R22557.26
					R172938.96
	Add cess	@	1.00%	R172938.96	R1729.39
	Cost of 100 sqm false ceiling				R174668.35
	Cost per sqm				R1746.68
	Rate per sqm			Say	R1746.70

11.26.4	12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 100sqm.					
	MATERIALS:					

	Celling Area =100 sqm Add wastage @ 5% = 5				
11106	sqm. Total=105 sqm Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	105.00	R480.00	R50400.00
11030	Main T ceiling sections 24x38x0.3 mm (3 metre long) each Including Wastage @ 10%	each	29.5	R114.00	R3363.00
11033	Perimeter wall angle 24x24x0.3mm (3 metre long) each Including Wastage @ 10%	each	13.5	R84.00	R1134.00
11026	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long) each Including Wastage @ 10% on Grid for cut outs	each	147.0	R42.00	R6174.00
11025	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long) each Including Wastage @ 10% on Grid for cut outs	each	147.0	R35.00	R5145.00
11023	Hanger rod 4 mm thick	each	72	R8.00	R576.00
11004	Adjustment clip 85x30x0.8mm	each	72	R5.00	R360.00
11062	Soffit cleat (Size 27x37x25x1.60mm)	each	72	R5.00	R360.00
11012	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72	R13.00	R936.00
	LABOUR:				
0203	Belder	Day	23.00	R310.00	R7130.00
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00
					R87898.00
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R87898.00	R2636.94
					R90534.94
	Add for water charges	@	1.00%	R90534.94	R905.35
					R91440.29
	Add GST (multiplying factor)		0.1405	R91440.29	R12847.36
					R104287.65
	Add for overheads and contractor's profit	@	15.00%	R104287.65	R15643.15
					R119930.80
	Add cess	@	1.00%	R119930.80	R1199.31
	Cost of 100 sqm false ceiling				R121130.11
	Cost per sqm				R1211.30
	Rate per sqm			Say	R1211.30

11.27

Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T' bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.

Note: Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/ opening (cut outs) having area less than 0.30 sqm. The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity < 0.043 w/mK

	· ·				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100sqm.				
	MATERIALS:				
11107	Celling Area =100 sqm Add wastage @ 5% = 5 sqm. Total=105 sqm Calcium Silicate tegular edged celling tiles 595x595 mm and 15 mm thick	sqm	105.00	R900.00	R94500.00
11030	Main T ceiling sections 24x38x0.3 mm (3 metre long) each Including Wastage @ 10%	each	29.5	R114.00	R3363.00
11033	Perimeter wall angle 24x24x0.3mm (3 metre long) each Including Wastage @ 10%	each	13.5	R84.00	R1134.00
11026	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long) each Including Wastage @ 10% on Grid for cut outs	each	147.0	R42.00	R6174.00
11025	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long) each Including Wastage @ 10% on Grid for cut outs	each	147.0	R35.00	R5145.00
11023	Hanger rod 4 mm thick	each	72	R8.00	R576.00
11004	Adjustment clip 85x30x0.8mm	each	72	R5.00	R360.00
11062	Soffit cleat (Size 27x37x25x1.60mm)	each	72	R5.00	R360.00
11012	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72	R13.00	R936.00
05050	Wooden screws with plastic rawl plugs 35x8 m	each	50	R7.00	R350.00
	LABOUR:				
0203	Belder	Day	23.00	R310.00	R7130.00
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R132348.00	R132348.00 R3970.44
			4.000/	D400040 44	R136318.44
	Add for water charges	@	1.00%	R136318.44	R1363.18
					R137681.62

Add GST (multiplying factor)		0.1405	R137681.62	R19344.27
				R157025.89
Add for overheads and contractor's profit	@	15.00%	R157025.89	R23553.88
				R180579.77
Add cess	@	1.00%	R180579.77	R1805.80
Cost of 100 sqm false ceiling				R182385.57
Cost per sqm				R1823.86
Rate per sqm			Say	R1823.90

11.28 Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized@ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be prepainted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.

11.28.1 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm, of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100sqm.				
	MATERIALS:				
11108	Celling Area =100 sqm Add wastage @ 5% = 5 sqm. Total=105 sqm 8mm thick Calcium silicate perforated tiles of size 595 x595mm	sqm	105.00	R750.00	R78750.00
11030	Main T ceiling sections 24x38x0.3 mm (3 metre long) each Including Wastage @ 10%	each	29.5	R114.00	R3363.00
11033	Perimeter wall angle 24x24x0.3mm (3 metre long) each Including Wastage @ 10%	each	13.5	R84.00	R1134.00
11026	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long) each Including Wastage @ 10% on Grid for cut outs	each	147.0	R42.00	R6174.00
11025	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long) each Including Wastage @ 10% on Grid for cut outs	each	147.0	R35.00	R5145.00
11023	Hanger rod 4 mm thick	each	72	R8.00	R576.00
11004	Adjustment clip 85x30x0.8mm	each	72	R5.00	R360.00
11062	Soffit cleat (Size 27x37x25x1.60mm)	each	72	R5.00	R360.00
11012	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72	R13.00	R936.00

	LABOUR:				
0203	Belder	Day	23.00	R310.00	R7130.00
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00
					R116248.00
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R116248.00	R3487.44
					R119735.44
	Add for water charges	@	1.00%	R119735.44	R1197.35
					R120932.79
	Add GST (multiplying factor)		0.1405	R120932.79	R16991.06
					R137923.85
	Add for overheads and contractor's profit	@	15.00%	R137923.85	R20688.58
					R158612.43
	Add cess	@	1.00%	R158612.43	R1586.12
	Cost of 100 sqm false ceiling				R160198.55
	Cost per sqm				R1601.99
	Rate per sqm			Say	R1602.00

11.29

Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS: 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I chanels 45 x15 x 0.90mm running at the spacing of 1200 mm c/ c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes, finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specificaton and direction of the Engineer in charge but excluding the cost of painting with:

11.29.1 8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.8x9.6m = 103.68sqm.				
	MATERIALS:				
11109	Calcium silicate board = 103.68 sqm.+ Add wastage @ 5% = 5.18sqm. Total = 108.86 sqm. 8 mm thick tapered edge calcium silicate board	sqm	108.86	R270.00	R29392.20
11090	Galvanised Steel ceiling section (size 80x26x0.50mm)	m	238.14	R48.00	R11430.72
11091	Galvanised Steel perimetre Channel (Size 20x27x30x0.50mm)	m	41.84	R23.00	R962.32

	Add cess Cost of 103.68 sqm false ceiling	@	1.00%	R102286.68	R1022.87 R103309.55
	Add for overheads and contractor's profit	@	15.00%	R88944.94	R13341.74 R102286.68
	, , , , , , , , , , , , , , , , , , ,				R88944.94
	Add GST (multiplying factor)		0.1405	R77987.67	R10957.27
	Aud for water charges	w	1.00%	N11210.01	R77987.67
	Add for water charges	@	1.00%	R77215.51	R77215.51 R772.16
	Add for sundries (rawl plug, scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R74966.51	R2249.00
					R74966.51
0227	Painter	Day	10.368	R395.00	R4095.36
0210	Carpenter 2nd class	Day	31.104	R395.00	R12286.08
0203	Belder	Day	31.104	R310.00	R9642.24
11099	Primer (for gypsum board) LABOUR:	litre	18.66	R85.00	R1586.10
11012	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72	R13.00	R936.00
11028	Joint finisher	kg	34.21	R27.00	R923.67
11027	Joint filler	kg	22.81	R30.00	R684.30
11029	Joint tape	Roll	1.27	R112.00	R142.24
11005	25mm long drive all screws	cent	1000	R60.00	R600.00
11095	Galvanised Steel soffit cleat (Size 27x37x25x0.60mm)	each	72	R3.00	R216.00
05029	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos.	216.00	R38.00	R820.80
11094	Galvanised Steel connecting clips (2.64mm dia and 230 mm long Gl wire)	each	189	R4.00	R756.00
11093	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50mm)	m	10.80	R12.00	R129.60
11092	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	m	90.72	R40.00	R362.8

Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of mainT runners of size 24x38 mm of length 3000 mm, cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module 11.30 of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge. 11.30.1 With 15 mm thick tegular edged light weight calcium silicate false ceiling tiles. Unit Quantity Code Description Rate Amount Details of cost for 100 sqm

	MATERIALS:				
11107	Calcium Silicate tegular edged celling tiles 595x595 mm and 15 mm thick Celling Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.00	R900.00	R94500.00
11030	Galvanised iron main Tee ceiling section Size 24x38x0.33 mm (3 metre long) each including wastage @10%	each	29.50	R114.00	R3363.00
11033	Galvanised iron perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long) each including wastage @10%	each	13.50	R84.00	R1134.00
11026	Galvanised iron intermediate cross T section Size 24 x 32 x 0.33 mm (1.2 metre long) each including wastage @10%	each	147.00	R42.00	R617.40
11025	Galvanised iron intermediate cross T section Size 24 x 32 x 0.33 mm (0.6 metre long) each including wastage @10%	each	147.00	R35.00	R5145.00
11111	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	72	R27.00	R194.40
11112	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72	R15.00	R1080.00
11113	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72	R34.00	R2448.00
11114	40 mm long S.S screws with plastic rawl plugs	each	100.00	R3.50	R350.00
	LABOUR:				
0203	Belder	Day	23.00	R310.00	R7130.00
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00
					R128281.80
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R128281.80	R3848.45
					R132130.25
	Add for water charges	@	1.00%	R132130.25	R1321.30
					R133451.55
	Add GST (multiplying factor)		0.1405	R133451.55	R18749.94
					R152201.49
	Add for overheads and contractor's profit	@	15.00%	R152201.49	R22830.22
					R175031.71
	Add cess	@	1.00%	R175031.71	R1750.32
	Cost of 100 sqm false ceiling				R176782.03
	Cost per sqm				R1767.82
	Rate per sqm			Say	R1767.80

	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced
	with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and
	patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light
	reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per
	BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM
	518:1991, in true horizontal level suspended on interlocking metal powder coated T-Grid of hot
	dipped galvanised iron section of 0.40 mm thick on Silhouette profile, rotary stiched double webbed
	white with 6 mm reveal profile (white/black),comprising of main-T runners of size 15x42 mm of
1.31	length 3000 mm, cross - T of size 15x42 mm of length 1200 mm and secondary intermediate cross-
	T of size 15x42 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from
	ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm
	outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-
	shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40
	mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs
	at 450 mm center to center and 40mm long dry wall S.S screws. The work shall be carried out as
	per specifications, drawing and as per directions of the Engineer-inCharge.

11.31.1 With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm				
	MATERIALS:				
11110	15 mm thick, light weight, integral densified micro look edged,false ceiling tiles of size 595x595 mm. Celling Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.00	R850.00	R89250.00
11115	Powder coated steel section main-T ceiling sections 15x42x0.40 mm (3000 mm long) including wastage @10%	each	29.50	R245.00	R7227.50
11116	Galvanized mild steel perimeter wall angle 22x19x0.40 mm (3000 mm long) including wastage @10%	each	13.50	R115.00	R1552.50
11117	Powder coated Galvanised Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long) including wastage @10%	each	147.00	R95.00	R1396.50
11118	Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40mm (600 mm long) including wastage @10%	each	147.00	R45.00	R6615.00
11111	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	72	R27.00	R194.40
11112	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72	R15.00	R1080.00
11113	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72	R34.00	R2448.00
11114	40 mm long S.S screws with plastic rawl plugs	each	100.00	R3.50	R350.00
	LABOUR:		22.22	D040.00	D7466.00
0203	Belder	Day	23.00	R310.00	R7130.00
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00 R129563.90
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R129563.90	R3886.92
					R133450.82
	Add for water charges	@	1.00%	R133450.82	R1334.51
	A LLOCT (. III L . C)		0.4.405	D404705.00	R134785.33
	Add GST (multiplying factor)		0.1405	R134785.33	R18937.34

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				R153722.67
Add for overheads and contractor's profit	@	15.00%	R153722.67	R23058.40
				R176781.07
Add cess	@	1.00%	R176781.07	R1767.81
Cost of 100 sqm false ceiling				R178548.88
Cost per sqm				R1785.49
Rate per sqm			Say	R1785.50

11.32	Providing & fixing false ceiling at all height ceiling tiles of Size 595x595 mm of approved less than 2%, humidity resistance of 99%, NRC per BS 476 (part 4)-1970 and light reflectance suspended on inter-locking metal T-Grid of (galvanized @ 120 grams per sqm including 15x32 mm of length 3000 mm, cross - T of intermediate cross-T of size 15x32 mm of lemm, suspended from ceiling using galvanises i.e. 50 mm long, 8 mm outer diameter M-6 das 1000 mm length and L-shape level adjuster angle of size 24x24x0.40 mm of length 3000 help of plastic rawl plugs at 450 mm center twork shall be carried out as per specification Charge.	texture co.50 to of 85% hot dip both s size 1! ength 6 d mild sh faste of size mm to lo	e, design and 0.75 as per of 0.75 as	od patterns having or IS 8225:1987, No. a) to be laid in trunised iron section prising of main-Tof length 1200 mrorm grid module (galvanizing @ 80 dia fully threaded from. Galvanised iron periphery wall /	moisture content on combustible as the horizontal level of 0.33mm thick runners of size m and secondary of size 600 x 600 grams per sqm) dhanger rod upto on perimeter wall partition with the wood screws. The
11.32.1	With semi perforated 12 mm thick micro tegul	lar edge	ed GRG fals	e ceiling tiles.	
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm MATERIALS:				
11123	12 mm thick micro tegular edged semi perforated GFRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x 595 mm Celling Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.00	R680.00	R71400.00
11120	Galvanized iron main-T ceiling sections 15x32x0.33 mm (3000 mm long) Including wastage @ 10%	each	29.50	R198.00	R5841.00
11033	Galvanized iron perimeter wall angle 24x24x0.40 mm (3000 mm long) Including wastage @ 10%	each	13.50	R84.00	R1134.00
11121	Galvanized iron intermediate crossT section 15x32x0.33 mm (1200 mm long) Including wastage @ 10%	each	147.00	R80.00	R1176.00
11122	Galvanized iron intermediate crossT section 15x32x0.33 mm (600 mm long) Including wastage @ 10	each	147.00	R35.00	R5145.00
11111	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	72	R27.00	R194.40
11112	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72	R15.00	R1080.00
11113	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72	R34.00	R2448.00
11114	40 mm long S.S screws with plastic rawl plugs	each	100.00	R3.50	R350.00
	LABOUR:			R0.00	
0203	Belder	Day	23.00	R310.00	R7130.00
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00 R108218.40

Add for sundries (scaffolding, Cal materials) and contingencies [LS]	rriage of @	3.00%	R108218.40	R3246.55
				R111464.95
Add for water charges	@	1.00%	R111464.95	R1114.65
				R112579.60
Add GST (multiplying factor)		0.1405	R112579.60	R15817.43
				R128397.03
Add for overheads and contractor	s profit @	15.00%	R128397.03	R19259.55
				R147656.58
Add cess	@	1.00%	R147656.58	R1476.57
Cost of 100 sqm false ceiling				R149133.15
Cost per sqm				R1491.33
	Rate per sqm		Say	R1491.30

11.32.2	With fully perforated 12 mm thick micro tegul ceiling tiles.	lar edge	ed or 10 mn	n thick square edg	ed GRG false
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm				
	MATERIALS:				
11124	12 mm thick micro tegular edged fully perforated GFRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x 595 mm Celling Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.00	R770.00	R80850.00
11120	Galvanized iron main-T ceiling sections 15x32x0.33 mm (3000 mm long) Including wastage @ 10%	each	29.50	R198.00	R5841.00
11033	Galvanized iron perimeter wall angle 24x24x0.40 mm (3000 mm long) Including wastage @ 10%	each	13.50	R84.00	R1134.00
11121	Galvanized iron intermediate crossT section 15x32x0.33 mm (1200 mm long) Including wastage @ 10%	each	147.00	R80.00	R1176.00
11122	Galvanized iron intermediate crossT section 15x32x0.33 mm (600 mm long) Including wastage @ 10	each	147.00	R35.00	R5145.00
11111	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	72	R27.00	R194.40
11112	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72	R15.00	R1080.00
11113	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72	R34.00	R2448.00
11114	40 mm long S.S screws with plastic rawl plugs	each	100.00	R3.50	R350.00
0000	LABOUR:		00.00	D040.00	D7400 00
0203	Belder Corporator 1 et algae	Day	23.00	R310.00	R7130.00
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00 R117668.40
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R117668.40	R3530.05
	Add for water charges	@	1.00%	R121198.45	R121198.45 R1211.98
	Add GST (multiplying factor)		0.1405	R122410.43	R122410.43 R17198.67
	Add for overheads and contractor's profit	@	15.00%	R139609.10	R139609.10 R20941.37

Cost per sqm Rate per s	am			Say	R1621.56 R1621.60
Cost of 100 sqm false ceiling					R162155.97
Add cess		@	1.00%	R160550.47	R1605.50
					R160550.47

Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance ?85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 &7)in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T' The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the Engineer-in-charge.

11.33.1	With 16 mm thick	beveled tegular minera	l fibre false ceiling til	e (NRC 0.55 to 0.6).
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Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm				
	MATERIALS:				
11125	Mineral fibre beveled tegular edged ceiling tiles 595x595 mm, 16 mm thick Celling Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.00	R850.00	R89250.00
11120	G.I. main runner 15X32mm of 3000 mm length, 0.33mm thick including 10 % wastage	each	29.50	R198.00	R5841.00
11033	Galvanized iron perimeter wall angle 24x24x0.40 mm (3000 mm long) Including wastage @ 10%	each	13.50	R84.00	R1134.00
11121	G.I. cross Tee 15X32mm of 1200mm length 0.33mm thick including 10 % wastage	each	147.00	R80.00	R1176.00
11122	G.I. cross Tee 15X32mm of 600mm length, 0.33 mm thick including 10 % wastage	each	147.00	R35.00	R5145.00
11111	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	72	R27.00	R194.40
11112	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72	R15.00	R1080.00
11113	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72	R34.00	R2448.00
11114	40 mm long S.S screws with plastic rawl plugs	each	100.00	R3.50	R350.00
	LABOUR:				
0203	Belder	Day	23.00	R310.00	R7130.00
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00
					R126068.40
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R126068.40	R3782.05
					R129850.45

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Add for water charges	@	1.00%	R129850.45	R1298.50
				R131148.95
Add GST (multiplying factor)		0.1405	R131148.95	R18426.43
				R149575.38
Add for overheads and contractor's profit	@	15.00%	R149575.38	R22436.31
				R172011.69
Add cess	@	1.00%	R172011.69	R1720.12
Cost of 100 sqm false ceiling				R173731.81
Cost per sqm				R1737.32
Rate per sqm			Say	R1737.30

11.33.2 With 20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7).						
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 100 sqm					
	MATERIALS:					
11126	20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7) Celling Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.00	R1060.00	R111300.00	
11120	Galvanized iron main-T ceiling sections 15x32x0.33 mm (3000 mm long) Including wastage @ 10%	each	29.50	R198.00	R5841.00	
11033	Galvanized iron perimeter wall angle 24x24x0.40 mm (3000 mm long) Including wastage @ 10%	each	13.50	R84.00	R1134.00	
11121	Galvanized iron intermediate crossT section 15x32x0.33 mm (1200 mm long) Including wastage @ 10%	each	147.00	R80.00	R1176.00	
11122	Galvanized iron intermediate crossT section 15x32x0.33 mm (600 mm long) Including wastage @ 10	each	147.00	R35.00	R5145.00	
11111	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	72	R27.00	R194.40	
11112	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72	R15.00	R1080.00	
11113	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72	R34.00	R2448.00	
11114	40 mm long S.S screws with plastic rawl plugs	each	100.00	R3.50	R350.00	
	LABOUR:					
0203	Belder	Day	23.00	R310.00	R7130.00	
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00	
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R148118.40	R148118.40 R4443.55	
					R152561.95	
	Add for water charges	@	1.00%	R152561.95	R1525.62	
					R154087.57	
	Add GST (multiplying factor)		0.1405	R154087.57	R21649.30	
	Add for overheads and contractor's profit	@	15.00%	R175736.87	R175736.87 R26360.53	
					R202097.40	
	Add cess	@	1.00%	R202097.40	R2020.97	
	Cost of 100 sqm false ceiling				R204118.37	
	Cost per sqm				R2041.18	
	Rate per sqm			Say	R2041.20	

11.33.3	With 16 mm thick beveled tegular mineral fibr (class 100) specifications.	re Anti	-microbial f	alse ceiling tile co	nfirming to ISO 5
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 sqm				
	MATERIALS:				
11127	Mineral fibre beveled tegular edged ceiling tiles 595x595 mm, 16 mm thick with bioblock, confirming to ISO 5 (class 100) specifications Celling Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.00	R930.00	R97650.00
11120	Galvanized iron main-T ceiling sections 15x32x0.33 mm (3000 mm long) Including wastage @ 10%	each	29.50	R198.00	R5841.00
11033	Galvanized iron perimeter wall angle 24x24x0.40 mm (3000 mm long) Including wastage @ 10%	each	13.50	R84.00	R1134.00
11121	Galvanized iron intermediate crossT section 15x32x0.33 mm (1200 mm long) Including wastage @ 10%	each	147.00	R80.00	R1176.00
11122	Galvanized iron intermediate crossT section 15x32x0.33 mm (600 mm long) Including wastage @ 10	each	147.00	R35.00	R5145.00
11111	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	72	R27.00	R194.40
11112	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72	R15.00	R1080.00
11113	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72	R34.00	R2448.00
11114	40 mm long S.S screws with plastic rawl plugs	each	100.00	R3.50	R350.00
	LABOUR:				
0203	Belder	Day	23.00	R310.00	R7130.00
0209	Carpenter 1st class	Day	28.00	R440.00	R12320.00
	Add for sundries (scaffolding, Carriage of materials) and contingencies [LS]	@	3.00%	R134468.40	R134468.40 R4034.05
					R138502.45
	Add for water charges	@	1.00%	R138502.45	R1385.02
					R139887.47
	Add GST (multiplying factor)		0.1405	R139887.47	R19654.19 R159541.66
	Add for overheads and contractor's profit	@	15.00%	R159541.66	R23931.25
					R183472.91
	Add cess	@	1.00%	R183472.91	R1834.73
	Cost of 100 sqm false ceiling				R185307.64
	Cost per sqm				R1853.08
	Rate per sqm			Say	R1853.10

	Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded
	Fibre glass wool conforming to IS: 8193 density 24kg/m ³ , 50mm thick, wrapped in 200 G
11.34	Virgin Polythene bags fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire
	mesh of 12.5mm x 24g wire and mesh, for top most ceiling of building.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00sqm.				
	MATERIALS:				
11059	Area for 10.00sqm. (Finished surface) = 10.00sqm.+ Add 10% for overlappings & wastage = 1.00sqm. Total = 11.00sqm. Resin Bonded Glass wool 24 kg/m³ 50 mm thick	sqm	11.00	R150.00	R1650.00
	LABOUR:				
0209	Carpenter 1st class	Day	1.00	R440.00	R440.00
0203	Belder	Day	2.00	R310.00	R620.00
					R2710.00
	Add for sundries (including GI wire 20 SWG and Virgin polythene bags 200 gram, GI chiken mesh 12.5mm x 24 SWG) and contingencies [LS]	@	25.00%	R2710.00	R677.50
					R3387.50
	Add for water charges	@	1.00%	R3387.50	R33.88
					R3421.38
	Add GST (multiplying factor)		0.1405	R3421.38	R480.70
					R3902.08
	Add for overheads and contractor's profit	@	15.00%	R3902.08	R585.31
					R4487.39
	Add cess	@	1.00%	R4487.39	R44.87
	Cost of providing and fixing thermal insulation for ceiling for 10.00 sqm area				R4532.26
	Cost per sqm				R453.23
	Rate per sqm			Say	R453.20

11.35	Providing and fixing thermal insulation was 8193. Density 16kg/m³, 50mm thick, wrapper false ceiling and held in position by criss-cro	ed in 200	OG Virgin Po		
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00sqm.				
	MATERIALS:				
11058	Area for 10.00sqm. (Finished surface) = 10.00sqm.+ Add 10% for overlappings & wastage = 1.00sqm. Total = 11.00sqm. Resin Bonded Glass wool 16 kg/m³ 50 mm thick	sqm	11.00	R110.00	R1210.00
	LABOUR:				
0209	Carpenter 1st class	Day	0.50	R440.00	R220.00
0203	Belder	Day	0.50	R310.00	R155.00
					R1585.00
	Add for sundries (including GI wire 20 SWG and Virgin polythene bags 200 gram) and contingencies [LS]	@	3.00%	R1585.00	R47.55
					R1632.55
	Add for water charges	@	1.00%	R1632.55	R16.33
					R1648.88
	Add GST (multiplying factor)		0.1405	R1648.88	R231.67
					R1880.55
	Add for overheads and contractor's profit	@	15.00%	R1880.55	R282.08
					R2162.63

Add cess	@	1.00%	R2162.63	R21.63
Cost of providing and fixing thermal insulation for ceiling for 10.00 sqm area				R2184.26
Cost per sqm				R218.43
Rate per sqm			Say	R218.40

11.36	Providing and fixing thermal insulation with having density 24 kg/m³, 50 mm thick, wrap screw, rawel plug & washers and held in podirections of Engineer-in-Charge.	ped in sition k	200G Virgir by criss cro	n Polythene Bags essing GI wire etc	fixed to wall with complete as per
Code	Description	Unit	Quantity	Rate	Amount
	Considering the work of thermal insulation of wall of size 10sqm				
	MATERIALS:				
11059	Resin bonded fibre glass wool: 50mm thick 10 sqm Add wastage = 1 sqm Total = 11 sqm	sqm	11.00	R150.00	R1650.00
11002	200G virgin polythene sheet to prepare bags 10 sqm Add wastage and for wrapping = 1.2sqm Total = 11.2sqm	sqm	11.20	R5.00	R56.00
	LABOUR:				
	For wrapping fibre glass wool:				
0216	Foreman	Day	0.10	R440.00	R44.00
0212	Helper	Day	0.10	R310.00	R31.00
	For placing the wrapped fibre glass wool bags on ceiling and tying with wire				
0216	Foreman	Day	0.40	R440.00	R176.00
0212	Helper	Day	0.40	R310.00	R124.00
					R2081.00
	Add for adhesives, tapes, ballies and ropes for scaffolding drill for drilling holes, ladders, GI wire etc.	@	1.00%		R20.81
					R2101.81
	Add for sundries and contingencies	@	3.00%	R2101.81	R63.05
					R2164.86
	Add for water charges	@	1.00%	R2164.86	R21.65
					R2186.51
	Add GST (multiplying factor)		0.1405	R2186.51	R307.20
					R2493.71
	Add for overheads and contractor's profit	@	15.00%	R2493.71	R374.06
					R2867.77
	Add cess	@	1.00%	R2867.77	R28.68
	Cost of providing and fixing thermal insulation for ceiling for 15.12 sqm area				R2896.45
	Cost per sqm				R289.65
	Rate per sqm			Say	R289.70

11.37	Providing and fixing thermal insulation of Rockwool conforming to IS: 8183, density Polythene bags fixed to ceiling with metalli 12.5mm x 24 gauge wire mesh, for top most conformal provided in the second s	48 kg/ ic cleats	m³, 50 mr s (50x50x3	n thick, wrapped	in 200 G Virgin
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	MATERIALS:				

11088	Area for 10.00 sqm. (Finished surface)=10.00sqm.+ Add 10% for ovelappings &wastage= 1.00sqm. Total= 11.00sqm Resin Bonded Rockwool 48 kg/m3	sqm	11.00	R125.00	R1375.00
	LABOUR:				
0209	Carpenter 1st class	Day	1.00	R440.00	R440.00
0203	Belder	Day	2.00	R310.00	R620.00
					R2435.00
	Add for sundries (including GI wire 20 SWG and Virgin polythene bags 200 gram, GI chiken mesh 12.5mm x 24 SWG) and contingencies [LS]	@	28.50%	R2435.00	R693.98
					R3128.98
	Add for water charges	@	1.00%	R3128.98	R31.29
	y				R3160.27
	Add GST (multiplying factor)		0.1405	R3160.27	R444.02
					R3604.29
	Add for overheads and contractor's profit	@	15.00%	R3604.29	R540.64
					R4144.93
	Add cess	@	1.00%	R4144.93	R41.45
	Cost of providing and fixing thermal insulation for ceiling for 10.00 sqm area				R4186.38
	Cost per sqm				R418.64
	Rate per sqm			Say	R418.60

11.38	Providing and fixing thermal insulation with density 48 kg/m³, 50 mm thick, wrapped in 2								
11.00	ceiling and held in position by criss- crossing GI wire.								
Code	Description	Unit	Quantity	Rate	Amount				
	Details of cost for 10 sqm								
	MATERIALS:								
11088	Area for 10.00 sqm. (Finished surface)=10.00sqm.+ Add 10% for ovelappings &wastage= 1.00sqm. Total= 11.00sqm	sqm	15.50	R125.00	R1937.50				
	Resin Bonded Rockwool 48 kg/m3								
0209	LABOUR: Carpenter 1st class	Day	0.50	R440.00	R220.00				
0209	Belder	Day	0.50	R310.00	R155.00				
0203	beidei	Day	0.50	1310.00	R2312.50				
	Add for sundries (including GI wire 20 SWG and Virgin polythene bags 200 gram, screws & washers) and contingencies [LS]	@	5.00%	R2312.50	R115.63				
					R2428.13				
	Add for water charges	@	1.00%	R2428.13	R24.28				
					R2452.4′				
	Add GST (multiplying factor)		0.1405	R2452.41	R344.56				
					R2796.97				
	Add for overheads and contractor's profit	@	15.00%	R2796.97	R419.55				
					R3216.52				
	Add cess	@	1.00%	R3216.52	R32.17				
	Cost of providing and fixing thermal insulation for ceiling for 15.12 sqm area				R3248.69				
	Cost per sqm				R214.86				
	Rate per sqm			Say	R214.90				

11.39	Providing and fixing thermal insulation wit having density 48 kg/m³, 50 mm thick, wrappersews, rawel plug & washers and held and in directions of Engineer-in-Charge.	ped in 2 position	200 G Virgii on by criss o	n Polythene Bags cossing GI wire et	fixed to wall with c. complete as per
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	MATERIALS:				
11088	Area for 10.00 sqm. (Finished surface)=10.00sqm.+ Add 10% for ovelappings &wastage= 1.00sqm. Total= 11.00sqm Resin Bonded Rockwool 48 kg/m3	sqm	11.00	R125.00	R1375.00
	LABOUR:				
0209	Carpenter 1st class	Day	0.50	R440.00	R220.00
0203	Belder	Day	0.50	R310.00	R155.00
					R1750.00
	Add for sundries (including GI wire 20 SWG and Virgin polythene bags 200 gram, screws & washers) and contingencies [LS]	@	7.00%	R1750.00	R122.50
					R1872.50
	Add for water charges	@	1.00%	R1872.50	R18.73
					R1891.23
	Add GST (multiplying factor)		0.1405	R1891.23	R265.72
					R2156.95
	Add for overheads and contractor's profit	@	15.00%	R2156.95	R323.54
					R2480.49
	Add cess	@	1.00%	R2480.49	R24.80
	Cost of providing and fixing thermal insulation for ceiling for 15.12 sqm area				R2505.29
	Cost per sqm				R250.53
	Rate per sqm			Say	R250.50

11.40	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the faceiling as per the directions of the Engineer-in-charge:							
11.40.1	With Type N - Normal 50 mm thick							
Code	Description	Unit	Quantity	Rate	Amount			
	Considering the work of thermal insulation of ceiling = 10.0sqm							
	MATERIALS:							
11014	Expanded Polystyrens 1x10= 10.00sqm. + Add wastage 10% = 1.00sqm. Total = 11.00sqm. Expanded polystyrene type N- Normal	sqm	11.00	R130.00	R1430.00			
11129	Bitumen hot sealing compound : grade A	kg	0.25	R28.00	R7.00			
	LABOUR:							
0209	Carpenter 1st class	Day	0.50	R440.00	R220.00			
0203	Belder	Day	0.50	R310.00	R155.00			
					R1812.00			
	Add for sundries and contingencies	@	3.00%	R1812.00	R54.36			
					R1866.36			
	Add for water charges	@	1.00%	R1866.36	R18.66			
					R1885.02			
	Add GST (multiplying factor)		0.1405	R1885.02	R264.85			
					R2149.87			

Add for overheads and contractor's profit	@	15.00%	R2149.87	R322.48
				R2472.35
Add cess	@	1.00%	R2472.35	R24.72
Cost of providing and fixing thermal insulation for ceiling for 10 sqm area				R2497.07
Cost per sqm				R249.71
Rate per sqm			Say	R249.70

11.40.2	With Type SE - Self Extinguishing type 50 mm	thick			
Code	Description	Unit	Quantity	Rate	Amount
	Considering the work of thermal insulation of ceiling = 10.0sqm				
	MATERIALS:				
11013	Expanded Polystyrens 1x10= 10.00sqm. + Add wastage 10% = 1.00sqm. Total = 11.00sqm. Expanded polystyrene type - SE	sqm	11.00	R155.00	R1705.00
11129	Bitumen hot sealing compound : grade A	kg	0.25	R28.00	R7.00
	LABOUR:				
0209	Carpenter 1st class	Day	0.50	R440.00	R220.00
0203	Belder	Day	0.50	R310.00	R155.00
					R2087.00
	Add for sundries and contingencies	@	3.00%	R2087.00	R62.61
					R2149.61
	Add for water charges	@	1.00%	R2149.61	R21.50
					R2171.11
	Add GST (multiplying factor)		0.1405	R2171.11	R305.04
					R2476.15
	Add for overheads and contractor's profit	@	15.00%	R2476.15	R371.42
					R2847.57
	Add cess	@	1.00%	R2847.57	R28.48
	Cost of providing and fixing thermal insulation for ceiling for 10 sqm area				R2876.05
	Cost per sqm				R287.61
	Rate per sqm			Say	R287.60

11.41	Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM) C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall strctly as per manufacturer's specifications and as approved by Engineer-in-Charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the perfomance of SRI and also the durabitity of coating, all complete as per direction of Engineer-in-Charge.							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 10 Sqm.							
	MATERIALS:							
11089	High Albedo paint	kg	7.17	R235.00	R1684.95			
	LABOUR:							
0203	Beldar (for cleanign the surface)	Day	0.54	R310.00	R167.40			
0227	Painter	Day	0.54	R395.00	R213.30			
			_	_	R2065.65			
	Add for sundries (Carriage of paint, Brushes & T&P) and contingencies	@	3.00%	R2065.65	R61.97			

				R2127.62
Add for water charges	@	1.00%	R2127.62	R21.28
				R2148.90
Add GST (multiplying factor)		0.1405	R2148.90	R301.92
				R2450.82
Add for overheads and contractor's profit	@	15.00%	R2450.82	R367.62
				R2818.44
Add cess	@	1.00%	R2818.44	R28.18
Cost of 10 sqm				R2846.62
Cost per sqm				R284.66
Rate per sqm			Say	R284.70

	RAIN WATER PIPES	WITH	FITTINGS		
11.42	Providing and fixing on wall face unplastic 4 kg/cm ²) conforming to IS: 13592 Type A is 5382 leaving 10 mm gap for thermal expa	includir	•		
11.42.1	Single socketed pipe - 75 mm OD				
Code	Description	Unit	Quantity	Rate	Amount
	Considering 6.0m length of PVC rain water pipe				
	MATERIALS:				
11075	U-PVC pipes (working pressure 4 kg / sqcm.) Single socketed pipe 75 mm dia.	m	6.00	R70.00	R420.00
11073	U-PVC pipes (working pressure 4 kg / sqcm.) Rubber (Seal) Ring 75 mm dia.	each	1.00	R8.00	R8.00
	LABOUR:				
0215	Fitter (grade 1)	Day	0.19	R440.00	R83.60
0203	Beldar	Day	0.37	R310.00	R114.70
0201	Bandhani	Day	0.08	R310.00	R24.80
					R651.10
	Add for sundries (scaffolding, Adhesive, carriage of materials) and contingencies [LS]	@	9.00%	R651.10	R58.60
					R709.70
	Add for water charges	@	1.00%	R709.70	R7.10
					R716.80
	Add GST (multiplying factor)		0.1405	R716.80	R100.71
					R817.51
	Add for overheads and contractor's profit	@	15.00%	R817.51	R122.63
					R940.14
	Add cess	@	1.00%	R940.14	R9.40
	Cost of providing and fixing on wall face PVC rain water pipe of 6.00m length				R949.54
	Cost per m				R158.26
	Rate per m			Say	R158.30

11.42.2	Single socketed pipe - 110 mm OD				
Code	Description	Unit	Quantity	Rate	Amount
	Considering 6.0m length of PVC rain water				
	pipe				
	MATERIALS:				
11075	U-PVC pipes (working pressure 4 kg / sqcm) Single socketed pipe 110 mm dia.	m	6.00	R140.00	R840.00

11073	U-PVC pipes (working pressure 4 kg / sqcm.)	each	1.00	R13.00	R13.00
11070	Rubber (Seal) Ring 110 mm dia.	Cucii	1.00	1(10.00	1(10:00
	LABOUR:				
0215	Fitter (grade 1)	Day	0.23	R440.00	R101.20
0203	Beldar	Day	0.45	R310.00	R139.50
0201	Bandhani	Day	0.11	R310.00	R34.10
					R1127.80
	Add for sundries (scaffolding, Adhesive, carriage of materials) and contingencies [LS]	@	6.75%	R1127.80	R76.13
					R1203.93
	Add for water charges	@	1.00%	R1203.93	R12.04
					R1215.97
	Add GST (multiplying factor)		0.1405	R1215.97	R170.84
					R1386.81
	Add for overheads and contractor's profit	@	15.00%	R1386.81	R208.02
					R1594.83
	Add cess	@	1.00%	R1594.83	R15.95
	Cost of providing and fixing on wall face PVC rain water pipe of 6.00m length				R1610.78
	Cost per m				R268.46
	Rate per m			Say	R268.50

11.43	Providing and fixing on wall face unpla unplasticised Rigid PVC rain water pipes conf seal ring conforming to IS: 5382 leaving 10	orming	to IS: 1359	92 Type-A includ	
11.43.1	Coupler				
11.43.1.1	75 mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 coupler				
	MATERIALS:				
11079	UPVC coupler for UPVC drainage pipes 75 mm	Each	1	R20.00	R20.00
11073	U-PVC pipes (working pressure 4 kg / sqcm.) Rubber (Seal) Ring 75 mm dia.	Each	2.00	R8.00	R16.00
					R36.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	50.00%	R36.00	R18.00
					R54.00
	Add for water charges	@	1.00%	R54.00	R0.54
					R54.54
	Add GST (multiplying factor)		0.1405	R54.54	R7.66
					R62.20
	Add for overheads and contractor's profit	@	15.00%	R62.20	R9.33
					R71.53
	Add cess	@	1.00%	R71.53	R0.72
	Cost of 1 coupler				R72.25
	Cost per fitting				R72.25
	Rate per fitting			Say	R72.30

11.43.1.2	110 mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 coupler				
	MATERIALS:				

11068	UPVC coupler for UPVC drainage pipes 110 mm	Each	1	R40.00	R40.00
11072	U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia.	Each	2.00	R13.00	R26.00
					R66.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	40.00%	R66.00	R26.40
					R92.40
	Add for water charges	@	1.00%	R92.40	R0.92
					R93.32
	Add GST (multiplying factor)		0.1405	R93.32	R13.11
					R106.43
	Add for overheads and contractor's profit	@	15.00%	R106.43	R15.96
					R122.39
	Add cess	@	1.00%	R122.39	R1.22
	Cost of 1 coupler				R123.61
	Cost per fitting				R123.61
	Rate per fitting			Say	R123.60

11.43.2	Single pushfit Coupler				
11.43.2.1	75 mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 coupler				
	MATERIALS:				
11079	UPVC pushfit coupler (single) 75 mm thick	Each	1	R20.00	R20.00
11073	U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia.	Each	2.00	R8.00	R16.00
					R36.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	50.00%	R36.00	R18.00
					R54.00
	Add for water charges	@	1.00%	R54.00	R0.54
					R54.54
	Add GST (multiplying factor)		0.1405	R54.54	R7.66
					R62.20
	Add for overheads and contractor's profit	@	15.00%	R62.20	R9.33
					R71.53
	Add cess	@	1.00%	R71.53	R0.72
	Cost of 1 coupler				R72.25
	Cost per fitting				R72.25
	Rate per fitting			Say	R72.30

11.43.2.2	110 mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 coupler				
	MATERIALS:				
11078	UPVC pushfit coupler (single) 110 mm thick	Each	1	R35.00	R35.00
11072	U-PVC pipes (working pressure 4 kg /sq.cm) Rubber (Seal) Ring 110 mm dia.	Each	2.00	R13.00	R26.00
					R61.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	40.00%	R61.00	R24.40

				R85.40
Add for water charges	@	1.00%	R85.40	R0.85
				R86.25
Add GST (multiplying factor)		0.1405	R86.25	R12.12
				R98.37
Add for overheads and contractor's profit	@	15.00%	R98.37	R14.76
				R113.13
Add cess	@	1.00%	R113.13	R1.13
Cost of 1 coupler				R114.26
Cost per fitting				R114.26
Rate per fitting			Say	R114.30

11.43.3	Single equal tee without door				
11.43.3.1	75x75x75 mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 tee				
	MATERIALS:				
11083	UPVC single equal Tee (without door) 75x75x75 mm	Each	1	R50.00	R50.00
11073	U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 75 mm dia.	Each	3.00	R8.00	R24.00
					R74.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	40.00%	R74.00	R29.60
					R103.60
	Add for water charges	@	1.00%	R103.60	R1.04
					R104.64
	Add GST (multiplying factor)		0.1405	R104.64	R14.70
					R119.34
	Add for overheads and contractor's profit	@	15.00%	R119.34	R17.90
					R137.24
	Add cess	@	1.00%	R137.24	R1.37
	Cost of 1 tee				R138.61
	Cost per fitting				R138.61
	Rate per fitting			Say	R138.60

11.43.3.2	110x110x110mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 tee				
	MATERIALS:				
11082	UPVC single equal Tee (without door) - 110x110x110mm	Each	1	R90.00	R90.00
11072	U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia	Each	3.00	R13.00	R39.00
					R129.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	30.00%	R129.00	R38.70
					R167.70
	Add for water charges	@	1.00%	R167.70	R1.68
					R169.38
	Add GST (multiplying factor)		0.1405	R169.38	R23.80
					R193.18

Add for	overheads and contractor's profit	@	15.00%	R193.18	R28.98
					R222.16
Add cess	S	@	1.00%	R222.16	R2.22
Cost of	1 tee				R224.38
Cost per	fitting				R224.38
	Rate per fitting			Say	R224.40

11.43.4	Single equal tee with door				
11.43.4.1	75x75x75 mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 tee				
	MATERIALS:				
11081	UPVC single equal Tee (with door) 75x75x75 mm	Each	1	R65.00	R65.00
11073	U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 75 mm dia.	Each	3.00	R8.00	R24.00
					R89.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	25.00%	R89.00	R22.25
					R111.25
	Add for water charges	@	1.00%	R111.25	R1.11
					R112.36
	Add GST (multiplying factor)		0.1405	R112.36	R15.79
					R128.15
	Add for overheads and contractor's profit	@	15.00%	R128.15	R19.22
					R147.37
	Add cess	@	1.00%	R147.37	R1.47
	Cost of 1 tee				R148.84
	Cost per fitting				R148.84
	Rate per fitting			Say	R148.80

11.43.4.2	110x110x110mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 tee				
	MATERIALS:				
11080	UPVC single equal Tee (with door) - 110x110x110mm	Each	1	R105.00	R105.00
11072	U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia	Each	3.00	R13.00	R39.00
					R144.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	20.00%	R144.00	R28.80
					R172.80
	Add for water charges	@	1.00%	R172.80	R1.73
					R174.53
	Add GST (multiplying factor)		0.1405	R174.53	R24.52
					R199.05
	Add for overheads and contractor's profit	@	15.00%	R199.05	R29.86
					R228.91
	Add cess	@	1.00%	R228.91	R2.29
	Cost of 1 tee				R231.20
	Cost per fitting				R231.20
	Rate per fitting			Say	R231.20

11.43.5	Bend 87.5°				
11.43.5.1	75mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 bend				
	MATERIALS:				
11067	UPVC bend 87.5° 75 mm bend	Each	1	R32.00	R32.00
11073	U-PVC pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 75 mm dia.	Each	1	R8.00	R8.00
					R40.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	45.00%	R40.00	R18.00
					R58.00
	Add for water charges	@	1.00%	R58.00	R0.58
					R58.58
	Add GST (multiplying factor)		0.1405	R58.58	R8.23
					R66.81
	Add for overheads and contractor's profit	@	15.00%	R66.81	R10.02
					R76.83
	Add cess	@	1.00%	R76.83	R0.77
	Cost of 1 bend				R77.60
	Cost per fitting				R77.60
	Rate per fitting			Say	R77.60

11.43.5.2	110mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 bend				
	MATERIALS:				
11066	UPVC bend 87.5° 110 mm bend	Each	1	R65.00	R65.00
11072	U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia	Each	1	R13.00	R13.00
					R78.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	35.00%	R78.00	R27.30
					R105.30
	Add for water charges	@	1.00%	R105.30	R1.05
					R106.35
	Add GST (multiplying factor)		0.1405	R106.35	R14.94
					R121.29
	Add for overheads and contractor's profit	@	15.00%	R121.29	R18.19
					R139.48
	Add cess	@	1.00%	R139.48	R1.39
	Cost of 1 bend				R140.87
	Cost per fitting				R140.87
	Rate per fitting			Say	R140.90

11.43.6	Plain shoe				
11.43.6.1	75mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 shoe				
	MATERIALS:				
11077	UPVC plain shoe 75 mm bend	Each	1	R30.00	R30.00

11073	U-PVC pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 75 mm dia.	Each	1.00	R8.00	R8.00
					R38.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	50.00%	R38.00	R19.00
					R57.00
	Add for water charges	@	1.00%	R57.00	R0.57
					R57.57
	Add GST (multiplying factor)		0.1405	R57.57	R8.09
					R65.66
	Add for overheads and contractor's profit	@	15.00%	R65.66	R9.85
					R75.51
	Add cess	@	1.00%	R75.51	R0.76
	Cost of 1 shoe				R76.27
	Cost per fitting				R76.27
	Rate per fitting			Say	R76.30

11.43.6.2	110mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 shoe				
	MATERIALS:				
11076	UPVC plain shoe 110 mm bend	Each	1	R50.00	R50.00
11072	U-PVC pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 110 mm dia.	Each	1.00	R13.00	R13.00
					R63.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	40.00%	R63.00	R25.20
					R88.20
	Add for water charges	@	1.00%	R88.20	R0.88
					R89.08
	Add GST (multiplying factor)		0.1405	R89.08	R12.52
					R101.60
	Add for overheads and contractor's profit	@	15.00%	R101.60	R15.24
					R116.84
	Add cess	@	1.00%	R116.84	R1.17
	Cost of 1 shoe				R118.01
	Cost per fitting				R118.01
	Rate per fitting			Say	R118.00

11.44	Providing and fixing unplasticised -PVC pip water pipes by means of 50x50x50mm required length including cutting brick wo sand) making good the wall etc. complete.	n hard w	ood plugs	s, screwed with	M.S. screws of
11.44.1	75mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 5 nos.				
	MATERIALS:				
11071	Unplasticised PVC pipe clips-75mm bend	Each	5	R15.00	R75.00
11035	Hard wood plugs 7x2 = 14 Nos.of size 50x50x50mm	Each	10	R10.00	R100.00
	LABOUR:				
0215	Fitter (grade 1)	Day	0.125	R440.00	R55.00
0220	Mason (brick layer) 2nd class	Day	0.75	R395.00	R296.25
0203	Beldar	Day	0.50	R310.00	R155.00

					R681.25
	Add for sundries [cement mortar 1:4 (1Cement : 4 fine sand), Carriage of U-PVC pipe clips etc] and contingencies [LS]	@	3.00%	R681.25	R20.44
					R701.69
	Add for water charges	@	1.00%	R701.69	R7.02
					R708.71
	Add GST (multiplying factor)		0.1405	R708.71	R99.57
					R808.28
	Add for overheads and contractor's profit	@	15.00%	R808.28	R121.24
					R929.52
	Add cess	@	1.00%	R929.52	R9.30
	Cost of providing and fixing 5 Nos. PVC clip				R938.82
	Cost per one No. clip				R187.76
`	Rate per clip			Say	R187.80

11.44.2	110mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 5 nos.				
	MATERIALS:				
11070	Unplasticised PVC pipe clips-110mm	Each	5	R17.00	R85.00
11035	Hard wood plugs 5x2 = 10 Nos.of size 50x50x50mm	Each	10	R10.00	R100.00
	LABOUR:				
0215	Fitter (grade 1)	Day	0.125	R440.00	R55.00
0220	Mason (brick layer) 2nd class	Day	0.75	R395.00	R296.25
0203	Beldar	Day	0.50	R310.00	R155.00
					R691.25
	Add for sundries [cement mortar 1:4 (1Cement : 4 fine sand), Carriage of U-PVC pipe clips etc] and contingencies [LS]	@	3.00%	R691.25	R20.74
					R711.99
	Add for water charges	@	1.00%	R711.99	R7.12
					R719.11
	Add GST (multiplying factor)		0.1405	R719.11	R101.03
					R820.14
	Add for overheads and contractor's profit	@	15.00%	R820.14	R123.02
					R943.16
	Add cess	@	1.00%	R943.16	R9.43
	Cost of providing and fixing 5 Nos. PVC clip				R952.59
	Cost per one No. clip				R190.52
_	Rate per clip			Say	R190.50

11.45	Providing and fixing to the inlet mouth of rail weighing not less than 100gm. complete.	n water	pipe PTMT	grating with thick	kness of 8mm and
11.45.1	75mm				
Code	Description	Unit	Quantity	Rate	Amount
	Considering 1 No. PTMT grating				
	MATERIALS:				
19114	PTMT grating-75mm	Each	1	R24.00	R24.00
	LABOUR:				
0215	Fitter (grade 1)	Day	0.05	R440.00	R22.00

0212	Helper	Day	0.05	R310.00	R15.50
					R61.50
	Add for sundries and contingencies in/c Carriage of material and fixing charges	@	3.00%	R61.50	R1.85
					R63.35
	Add for water charges	@	1.00%	R63.35	R0.63
					R63.98
	Add GST (multiplying factor)		0.1405	R63.98	R8.99
					R72.97
	Add for overheads and contractor's profit	@	15.00%	R72.97	R10.95
					R83.92
	Add cess	@	1.00%	R83.92	R0.84
	Cost of providing and fixing 1 Nos. PTMT grating				R84.76
	Cost per one No. PTMT grating				R84.76
	Rate per grating			Say	R84.80

11.45.2	100mm				
Code	Description	Unit	Quantity	Rate	Amount
	Considering 1 No. PTMT grating				
	MATERIALS:				
19113	PTMT grating-100mm	Each	1	R33.00	R33.00
	LABOUR:				
0215	Fitter (grade 1)	Day	0.05	R440.00	R22.00
0212	Helper	Day	0.05	R310.00	R15.50
					R70.50
	Add for sundries and contingencies in/c Carriage of material and fixing charges	@	3.00%	R70.50	R2.12
					R72.62
	Add for water charges	@	1.00%	R72.62	R0.73
					R73.35
	Add GST (multiplying factor)		0.1405	R73.35	R10.31
					R83.66
	Add for overheads and contractor's profit	@	15.00%	R83.66	R12.55
					R96.21
	Add cess	@	1.00%	R96.21	R0.96
	Cost of providing and fixing 1 Nos. PTMT grating	_			R97.17
	Cost per one No. PTMT grating				R97.17
	Rate per grating			Say	R97.20

				SH:12/FINISH	ING WORK
	SUB HEAD :				
N-t- D	FINISHING V			1 1	
Note :- R	ates for external plaster are for height upto 10	m from	ground leve	el unless other	wise stated.
	CEMENT PLASTER				
12.1	12 mm cement plaster of mix				
12.1.1	Cement mortar 1:3 (1 cement : 3 fine sand)	T			
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 3 (1 cement : 3 fine sand).	Cum	0.144	R4026.43	R 579.8
	(Rate as per item no. 3.1.3)				
	Labour:-				
0218*	Mason (average)	Day	0.67	R420.00	R 281.40
0212	Coolie	Day	0.75	R310.00	R 232.5
0205	Bhisti	Day	0.92	R310.00	R 285.2
					R 1378.9
	Add for sundries and contingencies including scaffolding	@	3.00%	R1378.91	R 41.3
	, and the second				R 1420.28
	Add for water charges	@	1.00%	R1420.28	R 14.2
	y care to the state of the stat		110010		R 1434.4
	Add GST (multiplying factor)		0.1405	R1434.48	R 201.5
	, and the second				R 1636.0
	Add for overheads and contractor's profit	@	15.00%	R1636.02	R 245.4
	,				R 1881.4
	Add cess	@	1.00%	R1881.42	R 18.8
	Cost of 10 sqm.				R 1900.2
	Cost of 1 Sqm.				R 190.0
	Say				R 190.00
12.1.2	Cement mortar 1:4 (1 cement : 4 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	Cum	0.144	R3259.11	R 469.3
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.67	R420.00	R 281.4
0212	Coolie	Day	0.75	R310.00	R 232.50

12.1.2	Cement mortar 1:4 (1 cement : 4 fine sand)					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 sqm					
	Materials:-					
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	Cum	0.144	R3259.11	R 469.31	
	(Rate as per item no. 3.1.4)					
	Labour:-					
0218*	Mason (average)	Day	0.67	R420.00	R 281.40	
0212	Coolie	Day	0.75	R310.00	R 232.50	
0205	Bhisti	Day	0.92	R310.00	R 285.20	
					R 1268.41	
	Add for sundries and contingencies including scaffolding	@	3.00%	R1268.41	R 38.05	
					R 1306.46	
	Add for water charges	@	1.00%	R1306.46	R 13.06	
					R 1319.52	
	Add GST (multiplying factor)		0.1405	R1319.52	R 185.39	
					R 1504.91	
	Add for overheads and contractor's profit	@	15.00%	R1504.91	R 225.74	
					R 1730.65	
	Add cess	@	1.00%	R1730.65	R 17.31	
	Cost of 10 sqm.				R 1747.96	
	Cost of 1 Sqm.				R 174.80	
	Say				R 174.80	

12.1.3	Cement mortar 1:5 (1 cement : 5 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				

	Materials:-				
	Cement mortar 1 : 5 (1 cement : 5 fine sand).	Cum	0.144	R2845.94	R 409.82
	(Rate as per item no. 3.1.5)				
	Labour:-				
0218*	Mason (average)	Day	0.67	R420.00	R 281.40
0212	Coolie	Day	0.75	R310.00	R 232.50
0205	Bhisti	Day	0.92	R310.00	R 285.20
					R 1208.92
	Add for sundries and contingencies including scaffolding	@	3.00%	R1208.92	R 36.27
					R 1245.19
	Add for water charges	@	1.00%	R1245.19	R 12.45
					R 1257.64
	Add GST (multiplying factor)		0.1405	R1257.64	R 176.70
					R 1434.34
	Add for overheads and contractor's profit	@	15.00%	R1434.34	R 215.15
					R 1649.49
	Add cess	@	1.00%	R1649.49	R 16.49
	Cost of 10 sqm.				R 1665.98
	Cost of 1 Sqm.				R 166.60
	Say				R 166.60

12.1.4	Cement mortar 1:6 (1 cement : 6 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 6 (1 cement : 6 fine sand).	Cum	0.144	R2491.79	R 358.82
	(Rate as per item no. 3.1.6)				
	Labour:-				
0218*	Mason (average)	Day	0.67	R420.00	R 281.40
0212	Coolie	Day	0.75	R310.00	R 232.50
0205	Bhisti	Day	0.92	R310.00	R 285.20
					R 1157.92
	Add for sundries and contingencies including scaffolding	@	3.00%	R1157.92	R 34.74
					R 1192.66
	Add for water charges	@	1.00%	R1192.66	R 11.93
					R 1204.59
	Add GST (multiplying factor)		0.1405	R1204.59	R 169.24
					R 1373.83
	Add for overheads and contractor's profit	@	15.00%	R1373.83	R 206.07
					R 1579.90
	Add cess	@	1.00%	R1579.90	R 15.80
	Cost of 10 sqm.				R 1595.70
	Cost of 1 Sqm.				R 159.57
	Say				R 159.60

12.2	15 mm cement plaster on the rough side of single or half brick wall of mix:					
12.2.1	Cement mortar 1:3 (1 cement : 3 fine sand)					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 sqm					
	Materials:-					
	Cement mortar 1 : 3 (1 cement : 3 fine sand).	Cum	0.172	R4026.43	R 692.55	
	(Rate as per item no. 3.1.3)					
	Labour:-					
0218*	Mason (average)	Day	0.80	R420.00	R 336.00	
0212	Coolie	Day	0.88	R310.00	R 272.80	
0205	Bhisti	Day	0.99	R310.00	R 306.90	

				R 1608.25
Add for sundries and contingencies including scaffolding	@	3.00%	R1608.25	R 48.25
				R 1656.50
Add for water charges	@	1.00%	R1656.50	R 16.57
				R 1673.07
Add GST (multiplying factor)		0.1405	R1673.07	R 235.07
				R 1908.14
Add for overheads and contractor's profit	@	15.00%	R1908.14	R 286.22
				R 2194.36
Add cess	@	1.00%	R2194.36	R 21.94
Cost of 10 sqm.				R 2216.30
Cost of 1 Sqm.			•	R 221.63
Say				R 221.60

12.2.2	Cement mortar 1:4 (1 cement : 4 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	Cum	0.172	R3259.11	R 560.57
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.80	R420.00	R 336.00
0212	Coolie	Day	0.88	R310.00	R 272.80
0205	Bhisti	Day	0.99	R310.00	R 306.90
					R 1476.27
	Add for sundries and contingencies including scaffolding	@	3.00%	R1476.27	R 44.29
					R 1520.56
	Add for water charges	@	1.00%	R1520.56	R 15.21
					R 1535.77
	Add GST (multiplying factor)		0.1405	R1535.77	R 215.78
					R 1751.55
	Add for overheads and contractor's profit	@	15.00%	R1751.55	R 262.73
					R 2014.28
	Add cess	@	1.00%	R2014.28	R 20.14
	Cost of 10 sqm.				R 2034.42
	Cost of 1 Sqm.				R 203.44
	Say				R 203.40

12.2.3	Cement mortar 1:5 (1 cement : 5 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 5 (1 cement : 5 fine sand).	Cum	0.172	R2845.94	R 489.50
	(Rate as per item no. 3.1.5)				
	Labour:-				
0218*	Mason (average)	Day	0.80	R420.00	R 336.00
0212	Coolie	Day	0.88	R310.00	R 272.80
0205	Bhisti	Day	0.99	R310.00	R 306.90
					R 1405.20
	Add for sundries and contingencies including scaffolding	@	3.00%	R1405.20	R 42.16
					R 1447.36
	Add for water charges	@	1.00%	R1447.36	R 14.47
					R 1461.83
	Add GST (multiplying factor)		0.1405	R1461.83	R 205.39
					R 1667.22
	Add for overheads and contractor's profit	@	15.00%	R1667.22	R 250.08
					R 1917.30

Add cess	@	1.00%	R1917.30	R 19.17
Cost of 10 sqm.				R 1936.47
Cost of 1 Sqm.				R 193.65
Sav				R 193.70

12.2.4	Cement mortar 1:6 (1 cement : 6 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 6 (1 cement : 6 fine sand).	Cum	0.172	R2491.79	R 428.59
	(Rate as per item no. 3.1.6)				
	Labour:-				
0218*	Mason (average)	Day	0.80	R420.00	R 336.00
0212	Coolie	Day	0.88	R310.00	R 272.80
0205	Bhisti	Day	0.99	R310.00	R 306.90
					R 1344.29
	Add for sundries and contingencies including scaffolding	@	3.00%	R1344.29	R 40.33
					R 1384.62
	Add for water charges	@	1.00%	R1384.62	R 13.85
					R 1398.47
	Add GST (multiplying factor)		0.1405	R1398.47	R 196.49
					R 1594.96
	Add for overheads and contractor's profit	@	15.00%	R1594.96	R 239.24
					R 1834.20
	Add cess	@	1.00%	R1834.20	R 18.34
	Cost of 10 sqm.				R 1852.54
	Cost of 1 Sqm.				R 185.25
	Say				R 185.30

12.3	20 mm cement plaster of mix :				
12.3.1	Cement mortar 1:3 (1 cement : 3 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 3 (1 cement : 3 fine sand).	Cum	0.224	R4026.43	R 901.92
	(Rate as per item no. 3.1.3)				
	Labour:-				
0218*	Mason (average)	Day	0.94	R420.00	R 394.80
0212	Coolie	Day	1.02	R310.00	R 316.20
0205	Bhisti	Day	1.10	R310.00	R 341.00
					R 1953.92
	Add for sundries and contingencies including scaffolding	@	3.00%	R1953.92	R 58.62
					R 2012.54
	Add for water charges	@	1.00%	R2012.54	R 20.13
					R 2032.67
	Add GST (multiplying factor)		0.1405	R2032.67	R 285.59
					R 2318.26
	Add for overheads and contractor's profit	@	15.00%	R2318.26	R 347.74
					R 2666.00
	Add cess	@	1.00%	R2666.00	R 26.66
	Cost of 10 sqm.				R 2692.66
	Cost of 1 Sqm.				R 269.27
	Say				R 269.30

12.3.2	Cement mortar 1:4 (1 cement : 4 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				

	Cement mortar 1 : 4 (1 cement : 4 fine sand).	Cum	0.224	R3259.11	R 730.04
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.94	R420.00	R 394.80
0212	Coolie	Day	1.02	R310.00	R 316.20
0205	Bhisti	Day	1.10	R310.00	R 341.00
					R 1782.04
	Add for sundries and contingencies including scaffolding	@	3.00%	R1782.04	R 53.46
	·				R 1835.50
	Add for water charges	@	1.00%	R1835.50	R 18.36
					R 1853.86
	Add GST (multiplying factor)		0.1405	R1853.86	R 260.47
					R 2114.33
	Add for overheads and contractor's profit	@	15.00%	R2114.33	R 317.15
					R 2431.48
	Add cess	@	1.00%	R2431.48	R 24.31
	Cost of 10 sqm.				R 2455.79
	Cost of 1 Sqm.				R 245.58
	Say			•	R 245.60

12.3.3	3 Cement mortar 1:5 (1 cement : 5 fine sand)					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 sqm					
	Materials:-					
	Cement mortar 1 : 5 (1 cement : 5 fine sand).	Cum	0.224	R2845.94	R 637.49	
	(Rate as per item no. 3.1.5)					
	Labour:-					
0218*	Mason (average)	Day	0.94	R420.00	R 394.80	
0212	Coolie	Day	1.02	R310.00	R 316.20	
0205	Bhisti	Day	1.10	R310.00	R 341.00	
					R 1689.49	
	Add for sundries and contingencies including scaffolding	@	3.00%	R1689.49	R 50.68	
					R 1740.17	
	Add for water charges	@	1.00%	R1740.17	R 17.40	
					R 1757.57	
	Add GST (multiplying factor)		0.1405	R1757.57	R 246.94	
					R 2004.51	
	Add for overheads and contractor's profit	@	15.00%	R2004.51	R 300.68	
					R 2305.19	
	Add cess	@	1.00%	R2305.19	R 23.05	
	Cost of 10 sqm.				R 2328.24	
	Cost of 1 Sqm.				R 232.82	
	Say				R 232.80	

12.3.4	Cement mortar 1:6 (1 cement : 6 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 6 (1 cement : 6 fine sand).	Cum	0.224	R2491.79	R 558.16
	(Rate as per item no. 3.1.6)				
	Labour:-				
0218*	Mason (average)	Day	0.94	R420.00	R 394.80
0212	Coolie	Day	1.02	R310.00	R 316.20
0205	Bhisti	Day	1.10	R310.00	R 341.00
					R 1610.16
	Add for sundries and contingencies including scaffolding	@	3.00%	R1610.16	R 48.30

				R 1658.46
Add for water charges	@	1.00%	R1658.46	R 16.58
				R 1675.04
Add GST (multiplying factor)		0.1405	R1675.04	R 235.34
				R 1910.38
Add for overheads and contractor's profit	@	15.00%	R1910.38	R 286.56
				R 2196.94
Add cess	@	1.00%	R2196.94	R 21.97
Cost of 10 sqm.				R 2218.91
Cost of 1 Sqm.				R 221.89
Say				R 221.90

12.4	6 mm cement plaster of mix :				
12.4.1	Cement mortar 1:3 (1 cement : 3 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 3 (1 cement : 3 fine sand).	Cum	0.072	R4026.43	R 289.90
	(Rate as per item no. 3.1.3)				
	Labour:-				
0218*	Mason (average)	Day	0.51	R420.00	R 214.20
0212	Coolie	Day	0.75	R310.00	R 232.50
0205	Bhisti	Day	0.92	R310.00	R 285.20
					R 1021.80
	Extra for removing burrs, cleaning with wire brushes, pock making with pointed tool etc. complete [Lumpsum]				R 26.78
					R 1048.58
	Add for sundries and contingencies	@	3.00%	R1048.58	R 31.46
					R 1080.04
	Add for water charges	@	1.00%	R1080.04	R 10.80
					R 1090.84
	Add GST (multiplying factor)		0.1405	R1090.84	R 153.26
					R 1244.10
	Add for contractor's profit and overheads	@	15.00%	R1244.10	R 186.62
					R 1430.72
	Add cess	@	1.00%	R1430.72	R 14.31
	Cost of 10 sqm.				R 1445.03
	Cost of 1 Sqm.				R 144.50
	Say				R 144.50

12.4.2	Cement mortar 1:4 (1 cement : 4 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	Cum	0.072	R3259.11	R 234.66
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.51	R420.00	R 214.20
0212	Coolie	Day	0.75	R310.00	R 232.50
0205	Bhisti	Day	0.92	R310.00	R 285.20
					R 966.56
	Extra for removing burrs, cleaning with wire				
	brushes, pock making with pointed tool etc.				R 26.78
	complete [Lumpsum]				
					R 993.34
	Add for sundries and contingencies	@	3.00%	R993.34	R 29.80
					R 1023.14
	Add for water charges	@	1.00%	R1023.14	R 10.23
					R 1033.37
	Add GST (multiplying factor)		0.1405	R1033.37	R 145.19

				R 1178.56
Add for contractor's profit a	and overheads @	15.00%	R1178.56	R 176.78
				R 1355.34
Add cess	@	1.00%	R1355.34	R 13.55
Cost of 10 sqm.				R 1368.89
Cost of 1 Sqm.				R 136.89
Say				R 136.90

12.5	Neat cement punning.				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
03001	Portland Cement (OPC-43 grade)	tonne	0.022	R5800.00	R 127.60
0421	Carriage of cement	tonne	0.022	R102.47	R 2.25
	Labour:-				
0218*	Mason (average)	Day	0.27	R420.00	R 113.40
0212	Coolie	Day	0.27	R310.00	R 83.70
					R 326.95
	Add for sundries and contingencies	@	3.00%	R326.95	R 9.81
					R 336.76
	Add for water charges	@	1.00%	R336.76	R 3.37
					R 340.13
	Add GST (multiplying factor)		0.1405	R340.13	R 47.79
					R 387.92
	Add for contractor's profit and overheads	@	15.00%	R387.92	R 58.19
					R 446.11
	Add cess	@	1.00%	R446.11	R 4.46
	Cost of 10 sqm.				R 450.57
	Cost of 1 Sqm.				R 45.06
	Say				R 45.10

12.6	6 mm cement plaster in single layer finished thick coat of lime wash on top when dry on w				
12.6.1	Cement mortar 1:3 (1 cement : 3 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement mortar 1 : 3 (1 cement : 3 fine sand).	Cum	0.072	R4026.43	R 289.90
	(Rate as per item no. 3.1.3)				
03001	Portland Cement (OPC-43 grade)	tonne	0.022	R5800.00	R 127.60
0421	Carriage of cement	tonne	0.022	R102.47	R 2.25
12065	Santa Lime	quintal	0.01	R750.00	R 7.50
	Labour:-				
0218*	Mason (average)	Day	0.78	R420.00	R 327.60
0212	Coolie	Day	1.09	R310.00	R 337.90
0205	Bhisti	Day	0.92	R310.00	R 285.20
0232	White Washer	Day	0.07	R355.00	R 24.85
					R 1402.80
	Add for sundries and contingencies including extra cost for removing burrs, cleaning with wire brushes, pock making with pointed tool etc. complete, indigo gum, scaffolding, ladder etc. [Lumpsum]	@	3.55%	R1402.80	R 49.80
					R 1452.60
	Add for water charges	@	1.00%	R1452.60	R 14.53
					R 1467.13
	Add GST (multiplying factor)		0.1405	R1467.13	R 206.13
					R 1673.26
	Add for contractor's profit and overheads	@	15.00%	R1673.26	R 250.99
					R 1924.25
	Add cess	@	1.00%	R1924.25	R 19.24

Cost of 10 sqm.		R 1943.49
Cost of 1 Sqm.		R 194.35
Say		R 194.40

12.7	Rough cast plaster upto 10 m height above good crushed stone graded from 6 mm to 10 mm replaster in two layers a) Under layer 12 mm of Top layer 10 mm cement plaster 1:3 (1 cement) hydrated lime by volume of cement and curing	nominal : cement p ent : 3 fi	size dashed plaster 1 : 4 ne sand) m	l over and incl (1 cement :	uding the fresh 4 fine sand) b)
12.7.1	Ordinary Cement finish using ordinary cemer	nt.			
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials & Labours:-				
	Under layer 12 mm thick cement plaster				
	Cement mortar 1 : 4 (1 cement : 4 fine sand).	cum	0.144	R3259.11	R 469.31
	(Rate as per item no. 3.1.4)				
0218*	Mason (average)	Day	0.67	R420.00	R 281.40
0212	Beldar	Day	0.75	R310.00	R 232.50
0205	Bhisti	Day	0.92	R310.00	R 285.20
	Top layer 10 mm thick cement plaster				
	Cement mortar 1 : 3 (1 cement : 3 fine sand).	cum	0.12	R4026.43	R 483.17
	(Rate as per item no. 3.1.3)				
0218*	Mason (average)	Day	0.61	R420.00	R 256.20
0212	Beldar	Day	0.69	R310.00	R 213.90
0205	Bhisti	Day	0.85	R310.00	R 263.50
12016	Crushed stone 2.36 mm to 12.5 mm size	cum	0.10	R3200.00	R 320.00
0205	Bhisti	Day	0.01	R310.00	R 3.10
12019	Dry hydrated lime (factory made)	quintal	0.09	R310.00	R 27.90
0218*	Mason (average)	Day	0.50	R420.00	R 210.00
0212	Beldar	Day	0.50	R310.00	R 155.00
0205	Bhisti	Day	0.10	R310.00	R 31.00
	Laborus for coopies				
0219	Labour for scooping Mason (brick layer) 1st class	Day	0.25	R440.00	R 110.00
0219	Beldar	Day	0.25	R310.00	R 77.50
0203	Deldai	Day	0.23	11010.00	R 3419.68
	Add for sundries and contingencies including carriage of lime, scaffolding etc [Lumpsum]	@	3.00%	R3419.68	R 102.59
		1			R 3522.27
	Add for water charges	@	1.00%	R3522.27	R 35.22
					R 3557.49
	Add GST (multiplying factor)		0.1405	R3557.49	R 499.83
					R 4057.32
	Add for contractor's profit and overheads	@	15.00%	R4057.32	R 608.60
			1.050	D 400= 00	R 4665.92
	Add cess	@	1.00%	R4665.92	R 46.66
	Cost of 10 sqm.				R 4712.58
	Cost of 1 Sqm. Say				R 471.26 R 471.30

	Extra for providing and mixing water proofir recommended by the manufacturers.	ng mater	ial in ceme	ent plaster worl	k in proportion
Code	Description	Unit	Quantity	Rate	Amount
	Materials:-				

	Detail of cost for 12mm cement plaster 1:3 (1 cement :3 sand) = 10 sqm or 1.48 bags of cement used in the mix. Cement required for 10 sqm = 73.89kg. Water proofing material required @ 1 kg per 50 kg of cement = 1.48 kg.				
04015	Water proofing materials	Kg	1.48	R37.00	R 54.76
					R 54.76
	Add for sundries in/c carriage of water proofing materials and contingencies [LS]	@	15.00%	R54.76	R 8.21
					R 62.97
	Add for water charges	@	1.00%	R62.97	R 0.63
					R 63.60
	Add GST (multiplying factor)		0.1405	R63.60	R 8.94
					R 72.54
	Add for contractor's profit and overheads	@	15.00%	R72.54	R 10.88
					R 83.42
	Add cess	@	1.00%	R83.42	R 0.83
	Cost of 1.48 bags of cement used in the mix				R 84.25
	Cost of 1.00 bag of 50 kg cement used in the mix				R 56.93
	Say			·	R 56.90

12.9	Extra for plastering exterior walls of height more than 10 m from GL for every addition height of 3 m or part thereof complete.					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 sqm					
	Labour:-					
0218*	Mason (average)	Day	0.20	R420.00	R 84.00	
0212	Coolie	Day	0.30	R310.00	R 93.00	
0205	Bhisti	Day	0.10	R310.00	R 31.00	
					R 208.00	
	Add for sundries and contingencies including scaffolding [Lumpsum]	@	33.00%	R208.00	R 68.64	
					R 276.64	
	Add for water charges	@	1.00%	R276.64	R 2.77	
					R 279.41	
	Add GST (multiplying factor)		0.1405	R279.41	R 39.26	
					R 318.67	
	Add for contractor's profit and overheads	@	15.00%	R318.67	R 47.80	
					R 366.47	
	Add cess	@	1.00%	R366.47	R 3.66	
	Cost of 10 sqm.				R 370.13	
	Cost of 1 Sqm.				R 37.01	
	Say				R 37.00	

12.10 Extra for plastering on circular work not exceeding 6 m in radius complete.

12.10.1	In one coat				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Labour:-				
0218*	Mason (average)	Day	0.20	R420.00	R 84.00
0212	Beldar	Day	0.20	R310.00	R 62.00
					R 146.00
	Add for sundries and contingencies	@	3.00%	R146.00	R 4.38
					R 150.38
	Add for water charges	@	1.00%	R150.38	R 1.50
					R 151.88

Add GST (multiplying factor)		0.1405	R151.88	R 21.34
				R 173.22
Add for contractor's profit and overheads	@	15.00%	R173.22	R 25.98
				R 199.20
Add cess	@	1.00%	R199.20	R 1.99
Cost of 10 sqm.				R 201.19
Cost of 1 Sqm.				R 20.12
Say				R 20.10

12.10.2	In two coats				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Labour:-				
0218*	Mason (average)	Day	0.30	R420.00	R 126.00
0212	Beldar	Day	0.30	R310.00	R 93.00
					R 219.00
	Add for sundries and contingencies	@	3.00%	R219.00	R 6.57
					R 225.57
	Add for water charges	@	1.00%	R225.57	R 2.26
					R 227.83
	Add GST (multiplying factor)		0.1405	R227.83	R 32.01
					R 259.84
	Add for contractor's profit and overheads	@	15.00%	R259.84	R 38.98
					R 298.82
	Add cess	@	1.00%	R298.82	R 2.99
	Cost of 10 sqm.				R 301.81
	Cost of 1 Sqm.				R 30.18
	Say				R 30.20

12.11 Extra for plastering done on moulding cornices or architraves including neat finish to line and level:

12.11.1	In one coat				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Labour:-				
0218*	Mason (average)	Day	3.00	R420.00	R 1260.00
0203	Beldar	Day	2.00	R310.00	R 620.00
0212	Coolie	Day	1.00	R310.00	R 310.00
0205	Bhisti	Day	0.25	R310.00	R 77.50
					R 2267.50
	Add for sundries and contingencies	@	3.00%	R2267.50	R 68.03
					R 2335.53
	Add for water charges	@	1.00%	R2335.53	R 23.36
					R 2358.89
	Add GST (multiplying factor)		0.1405	R2358.89	R 331.42
					R 2690.31
	Add for contractor's profit and overheads	@	15.00%	R2690.31	R 403.55
					R 3093.86
	Add cess	@	1.00%	R3093.86	R 30.94
	Cost of 10 sqm.				R 3124.80
	Cost of 1 Sqm.				R 312.48
	Say				R 312.50

12.11.2	In two coats				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Labour:-				
0218*	Mason (average)	Day	5.00	R420.00	R 2100.00
0203	Beldar	Day	3.00	R310.00	R 930.00
0212	Coolie	Day	2.00	R310.00	R 620.00
0205	Bhisti	Day	0.33	R310.00	R 102.30

				R 3752.30
Add for sundries and contingencies	@	3.00%	R3752.30	R 112.57
				R 3864.87
Add for water charges	@	1.00%	R3864.87	R 38.65
				R 3903.52
Add GST (multiplying factor)		0.1405	R3903.52	R 548.44
				R 4451.96
Add for contractor's profit and overheads	@	15.00%	R4451.96	R 667.79
				R 5119.75
Add cess	@	1.00%	R5119.75	R 51.20
Cost of 10 sqm.				R 5170.95
Cost of 1 Sqm.				R 517.10
Say				R 517.10

12.12	Extra for plastering:				
12.12.1	In Spherial ceiling				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Labour:-				
0218*	Mason (average)	Day	0.75	R420.00	R 315.00
0203	Beldar	Day	0.74	R310.00	R 229.40
					R 544.40
	Add for sundries and contingencies	@	3.00%	R544.40	R 16.33
					R 560.73
	Add for water charges	@	1.00%	R560.73	R 5.61
					R 566.34
	Add GST (multiplying factor)		0.1405	R566.34	R 79.57
					R 645.91
	Add for contractor's profit and overheads	@	15.00%	R645.91	R 96.89
					R 742.80
	Add cess	@	1.00%	R742.80	R 7.43
	Cost of 10 sqm.				R 750.23
	Cost of 1 Sqm.				R 75.02
	Say				R 75.00

12.12.2	In Groined ceiling				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Labour:-				
0218*	Mason (average)	Day	0.80	R420.00	R 336.00
0203	Beldar	Day	0.80	R310.00	R 248.00
					R 584.00
	Add for sundries and contingencies	@	3.00%	R584.00	R 17.52
					R 601.52
	Add for water charges	@	1.00%	R601.52	R 6.02
					R 607.54
	Add GST (multiplying factor)		0.1405	R607.54	R 85.36
					R 692.90
	Add for contractor's profit and overheads	@	15.00%	R692.90	R 103.94
					R 796.84
	Add cess	@	1.00%	R796.84	R 7.97
	Cost of 10 sqm.				R 804.81
	Cost of 1 Sqm.				R 80.48
	Say				R 80.50

12.12.3	In Flewing soffits				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Labour:-				
0218*	Mason (average)	Day	0.50	R420.00	R 210.00
0203	Beldar	Day	0.50	R310.00	R 155.00
					R 365.00

Add for sundries and contingencies	@	3.00%	R365.00	R 10.95
				R 375.95
Add for water charges	@	1.00%	R375.95	R 3.76
				R 379.71
Add GST (multiplying factor)		0.1405	R379.71	R 53.35
				R 433.06
Add for contractor's profit and overheads	@	15.00%	R433.06	R 64.96
				R 498.02
Add cess	@	1.00%	R498.02	R 4.98
Cost of 10 sqm.				R 503.00
Cost of 1 Sqm.				R 50.30
Say				R 50.30

12.13	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface prepare the surface even and smooth complete.						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 sqm						
	Materials:-						
	Plaster of paris						
12031	10x0.002x1121 = 22.42kg						
12031	Add 2% wastage= 0.45kg Total = 22.87kg.						
	Say23kg	Kg	23.00	R7.00	R 161.00		
0434	Carriage of Plaster of Paris	tonne	0.023	R102.47	R 2.36		
	Labour:-						
0223	Mason (for plaster of paris work) 1st class	Day	0.91	R440.00	R 400.40		
0203	Beldar	Day	0.91	R310.00	R 282.10		
					R 845.86		
	Add for sundries and contingencies including scaffolding [Lumpsum]	@	11.50%	R845.86	R 97.27		
					R 943.13		
	Add for water charges	@	1.00%	R943.13	R 9.43		
					R 952.56		
	Add GST (multiplying factor)		0.1405	R952.56	R 133.83		
					R 1086.39		
	Add for contractor's profit and overheads	@	15.00%	R1086.39	R 162.96		
					R 1249.35		
	Add cess	@	1.00%	R1249.35	R 12.49		
	Cost of 10 sqm.				R 1261.84		
	Cost of 1 Sqm.				R 126.18		
	Say				R 126.20		

12.14	brand and manufacturer, over the plastered		9		
	smooth complete.				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Cement base wall care putty				
12040	=10x0.001x1429 = 14.29kg				
12048	Add 2% wastage= 0.29kg				
	Total = 14.58kg Say 14.58 kg	Kg	14.58	R24.00	R 349.92
0434	Carriage	tonne	0.01458	R102.47	R 1.49
	Labour:-				
0223	Mason (for plaster of paris work) 1st class	Day	0.45	R440.00	R 198.00
0203	Beldar	Day	0.45	R310.00	R 139.50
					R 688.91
	Add for sundries and contingencies including scaffolding [Lumpsum]	@	10.25%	R688.91	R 70.61
			_		R 759.52
	Add for water charges	@	1.00%	R759.52	R 7.60

				R 767.12
Add GST (multiplying factor)		0.1405	R767.12	R 107.78
				R 874.90
Add for contractor's profit ar	nd overheads @	15.00%	R874.90	R 131.24
				R 1006.14
Add cess	@	1.00%	R1006.14	R 10.06
Cost of 10 sqm.				R 1016.20
Cost of 1 Sqm.				R 101.62
Say				R 101.60

	ARTIFICIAL STONE PLASTER							
12.15	Extra for lining out plaster to imitate stone or concrete blocks walling.							
Code	ode Description Unit Quantity Rate							
	Detail of cost for 10 sqm							
	Labour:-							
0218*	Mason (average)	Day	0.60	R420.00	R 252.00			
0203	Beldar	Day	0.60	R310.00	R 186.00			
					R 438.00			
	Add for sundries and contingencies including cost for solution of lime putty	@	3.00%	R438.00	R 13.14			
					R 451.14			
	Add for water charges	@	1.00%	R451.14	R 4.51			
					R 455.65			
	Add GST (multiplying factor)		0.1405	R455.65	R 64.02			
					R 519.67			
	Add for contractor's profit and overheads	@	15.00%	R519.67	R 77.95			
					R 597.62			
	Add cess	@	1.00%	R597.62	R 5.98			
	Cost of 10 sqm.				R 603.60			
	Cost of 1 Sqm.				R 60.36			
	Say				R 60.40			

Plain Cement Mortar Bands 12.16 12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand):

12.16.1	Flush Band				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 metre long and 10 cm				
	wide band				
	Materials:-				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)	Cum	0.014	R3259.11	R 45.6
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.27	R420.00	R 113.40
0212	Coolie	Day	0.27	R310.00	R 83.70
0205	Bhisti	Day	0.05	R310.00	R 15.50
					R 258.23
	Add for sundries and contingencies	@	3.00%	R258.23	R 7.7
					R 265.98
	Add for water charges	@	1.00%	R265.98	R 2.66
					R 268.64
	Add GST (multiplying factor)		0.1405	R268.64	R 37.74
					R 306.38
	Add for contractor's profit and overheads	@	15.00%	R306.38	R 45.96
					R 352.34
	Add cess	@	1.00%	R352.34	R 3.52
	Cost of 10.00 metre long and 10 cm wide				R 355.86
	band				N 333.00
	Cost of 1.00 metre long and 1 cm wide band				R 3.56
	Say				R 3.60

12.16.2	Sunk Band				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 metre long and 10 cm				
	wide band				
	Materials:-				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)	Cum	0.014	R3259.11	R 45.63
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.30	R420.00	R 126.00
0212	Coolie	Day	0.30	R310.00	R 93.00
0205	Bhisti	Day	0.05	R310.00	R 15.50
					R 280.13
	Add for sundries and contingencies	@	3.00%	R280.13	R 8.40
					R 288.53
	Add for water charges	@	1.00%	R288.53	R 2.89
					R 291.42
	Add GST (multiplying factor)		0.1405	R291.42	R 40.94
					R 332.36
	Add for contractor's profit and overheads	@	15.00%	R332.36	R 49.85
					R 382.21
	Add cess	@	1.00%	R382.21	R 3.82
	Cost of 10.00 metre long and 10 cm wide				R 386.03
	band				1 000.00
	Cost of 1.00 metre long and 1 cm wide band				R 3.86
	Say				R 3.90

12.16.3	Raised Band				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 metre long and 10 cm				
	wide band				
	Materials:-				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)	Cum	0.014	R3259.11	R 45.63
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.35	R420.00	R 147.00
0212	Coolie	Day	0.35	R310.00	R 108.50
0205	Bhisti	Day	0.05	R310.00	R 15.50
					R 316.63
	Add for sundries and contingencies	@	3.00%	R316.63	R 9.50
					R 326.13
	Add for water charges	@	1.00%	R326.13	R 3.26
					R 329.39
	Add GST (multiplying factor)		0.1405	R329.39	R 46.28
					R 375.67
	Add for contractor's profit and overheads	@	15.00%	R375.67	R 56.35
					R 432.02
	Add cess	@	1.00%	R432.02	R 4.32
	Cost of 10.00 metre long and 10 cm wide band				R 436.34
	Cost of 1.00 metre long and 1 cm wide band				R 4.36
	Say				R 4.40

12.16.4	Moulded Band				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 metre long and 10 cm				
	wide band				

	Materials:-				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)	Cum	0.014	R3259.11	R 45.63
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.65	R420.00	R 273.00
0212	Coolie	Day	0.65	R310.00	R 201.50
0205	Bhisti	Day	0.05	R310.00	R 15.50
					R 535.63
	Add for sundries and contingencies	@	3.00%	R535.63	R 16.07
					R 551.70
	Add for water charges	@	1.00%	R551.70	R 5.52
					R 557.22
	Add GST (multiplying factor)		0.1405	R557.22	R 78.29
					R 635.51
	Add for contractor's profit and overheads	@	15.00%	R635.51	R 95.33
					R 730.84
	Add cess	@	1.00%	R730.84	R 7.31
	Cost of 10.00 metre long and 10 cm wide band				R 738.15
	Cost of 1.00 metre long and 1 cm wide band				R 7.38
	Say				R 7.40

12.17	18 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand):					
12.17.1	Flush Band					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 metre long and 10 cm					
	wide band					
	Materials:-					
	Cement mortar 1 : 4 (1 cement : 4 fine sand)	Cum	0.02	R3259.11	R 65.18	
	(Rate as per item no. 3.1.4)					
	Labour:-					
0218*	Mason (average)	Day	0.32	R420.00	R 134.40	
0212	Coolie	Day	0.32	R310.00	R 99.20	
0205	Bhisti	Day	0.06	R310.00	R 18.60	
					R 317.38	
	Add for sundries and contingencies	@	3.00%	R317.38	R 9.52	
					R 326.90	
	Add for water charges	@	1.00%	R326.90	R 3.27	
					R 330.17	
	Add GST (multiplying factor)		0.1405	R330.17	R 46.39	
					R 376.56	
	Add for contractor's profit and overheads	@	15.00%	R376.56	R 56.48	
					R 433.04	
	Add cess	@	1.00%	R433.04	R 4.33	
	Cost of 10.00 metre long and 10 cm wide band				R 437.37	
	Cost of 1.00 metre long and 1 cm wide band				R 4.37	
	Say				R 4.40	

12.17.2	Sunk Band				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 metre long and 10 cm				
	wide band				
	Materials:-				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)	Cum	0.02	R3259.11	R 65.18
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.36	R420.00	R 151.20
0212	Coolie	Day	0.36	R310.00	R 111.60
0205	Bhisti	Day	0.06	R310.00	R 18.60

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				R 346.58
Add for sundries and contingencies	@	3.00%	R346.58	R 10.40
				R 356.98
Add for water charges	@	1.00%	R356.98	R 3.57
				R 360.55
Add GST (multiplying factor)		0.1405	R360.55	R 50.66
				R 411.21
Add for contractor's profit and overheads	@	15.00%	R411.21	R 61.68
				R 472.89
Add cess	@	1.00%	R472.89	R 4.73
Cost of 10.00 metre long and 10 cm wide band				R 477.62

Cost of 1.00 metre long and 1 cm wide band		R 4.78
Say		R 4.80

12.17.3	Raised Band				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 metre long and 10 cm				
	wide band				
	Materials:-				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)	Cum	0.02	R3259.11	R 65.18
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.42	R420.00	R 176.40
0212	Coolie	Day	0.42	R310.00	R 130.20
0205	Bhisti	Day	0.06	R310.00	R 18.60
					R 390.38
	Add for sundries and contingencies	@	3.00%	R390.38	R 11.71
					R 402.09
	Add for water charges	@	1.00%	R402.09	R 4.02
					R 406.11
	Add GST (multiplying factor)		0.1405	R406.11	R 57.06
					R 463.17
	Add for contractor's profit and overheads	@	15.00%	R463.17	R 69.48
					R 532.65
	Add cess	@	1.00%	R532.65	R 5.33
	Cost of 10.00 metre long and 10 cm wide				R 537.98
	band				K 557.90
	Cost of 1.00 metre long and 1 cm wide band				R 5.38
	Say				R 5.40

12.17.4	Moulded Band				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 metre long and 10 cm				
	wide band				
	Materials:-				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)	Cum	0.024	R3259.11	R 78.22
	(Rate as per item no. 3.1.4)				
	Labour:-				
0218*	Mason (average)	Day	0.86	R420.00	R 361.20
0212	Coolie	Day	0.86	R310.00	R 266.60
0205	Bhisti	Day	0.05	R310.00	R 15.50
					R 721.52
	Add for sundries and contingencies	@	3.00%	R721.52	R 21.65
					R 743.17
	Add for water charges	@	1.00%	R743.17	R 7.43
					R 750.60
	Add GST (multiplying factor)		0.1405	R750.60	R 105.46
					R 856.06
	Add for contractor's profit and overheads	@	15.00%	R856.06	R 128.41
					R 984.47
	Add cess	@	1.00%	R984.47	R 9.84
	Cost of 10.00 metre long and 10 cm wide				R 994.31
	band				K 994.31
	Cost of 1.00 metre long and 1 cm wide band				R 9.94
	Say				R 9.90

Providing 18 mm thick moulded cement mortar bands in two layers, under layer 12 mm thick with cement mortar 1:5 (1 cement : 5 fine sand) and top layer 6 mm thick with cement mortar 1:4 (1 cement : 4 fine sand) complete.

Code

Description

Unit Quantity Rate Amount

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Detail of cost for 10 metre long and 10 cm				
wide band				
Materials:-				
Cement mortar 1 : 5 (1 cement : 5 fine sand)	Cum	0.014	R2845.94	R 39.84
(Rate as per item no. 3.1.5)				
Cement mortar 1: 4 (1 cement: 4 fine sand)	Cum	0.01	R3259.11	R 32.59
(Rate as per item no. 3.1.4)				

	Labour:-				
0218*	Mason (average)	Day	0.86	R420.00	R 361.20
0212	Coolie	Day	0.86	R310.00	R 266.60
0205	Bhisti	Day	0.05	R310.00	R 15.50
					R 715.73
	Add for sundries and contingencies	@	3.00%	R715.73	R 21.47
					R 737.20
	Add for water charges	@	1.00%	R737.20	R 7.37
					R 744.57
	Add GST (multiplying factor)		0.1405	R744.57	R 104.61
					R 849.18
	Add for contractor's profit and overheads	@	15.00%	R849.18	R 127.38
					R 976.56
	Add cess	@	1.00%	R976.56	R 9.77
	Cost of 10.00 metre long and 10 cm wide band				R 986.33
	Cost of 1.00 metre long and 1 cm wide band				R 9.86
	Say				R 9.90

	Pointing of Brick work								
12.19	Pointing on brick work or brick flooring wit	th ceme	nt mortar	1:3 (1 cement	: 3 fine sand)				
12.19									
12.19.1	Flush/ruled/Stuck or weathered Pointing								
Code	Description	Unit	Quantity	Rate	Amount				
	Detail of cost for 10 Sqm								
	Materials:-								
	Cement mortar 1 : 3 (1 cement : 3 fine sand)	Cum	0.030	R4026.43	R 120.79				
	(Rate as per item no. 3.1.3)								
	Labour:-								
0218*	Mason (average)	Day	0.50	R420.00	R 210.00				
0212	Coolie	Day	0.60	R310.00	R 186.00				
0205	Bhisti	Day	0.93	R310.00	R 288.30				
					R 805.09				
	Add for sundries and contingencies including	@	3.00%	R805.09	R 24.15				
	Scaffolding and racking out joints	8)	3.00%	K005.09	K 24.15				
					R 829.24				
	Add for water charges	@	1.00%	R829.24	R 8.29				
					R 837.53				
	Add GST (multiplying factor)		0.1405	R837.53	R 117.67				
					R 955.20				
	Add for contractor's profit and overheads	@	15.00%	R955.20	R 143.28				
					R 1098.48				
	Add cess	@	1.00%	R1098.48	R 10.98				
	Cost of 10 Sqm				R 1109.46				
	Cost of 1 Sqm				R 110.95				
	Say				R 111.00				

12.19.2	Raised and cut Pointing				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 Sqm				
	Materials:-				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)	Cum	0.046	R4026.43	R 185.22
	(Rate as per item no. 3.1.3)				
	Labour:-				
0218*	Mason (average)	Day	1.07	R420.00	R 449.40
0212	Coolie	Day	1.31	R310.00	R 406.10
0205	Bhisti	Day	1.00	R310.00	R 310.00
					R 1350.72
	Add for sundries and contingencies including Scaffolding and racking out joints	@	3.00%	R1350.72	R 40.52
					R 1391.24

Add for water charges	@	1.00%	R1391.24	R 13.91
				R 1405.15
Add GST (multiplying factor)		0.1405	R1405.15	R 197.42
				R 1602.57
Add for contractor's profit and overheads	@	15.00%	R1602.57	R 240.39
				R 1842.96
Add cess	@	1.00%	R1842.96	R 18.43
Cost of 10 Sqm				R 1861.39
Cost of 1 Sqm			•	R 186.14
Say				R 186.10

12.20	Extra for pointing in brick work on exterior walls at height more than 10 m from ground leve for every additional height of 3 m or part thereof complete.					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 Sqm					
	Labour:-					
0224	Mate	Day	0.01	R310.00	R 3.10	
0218*	Mason (average)	Day	0.08	R420.00	R 33.60	
0212	Coolie	Day	0.08	R310.00	R 24.80	
0205	Bhisti	Day	0.05	R310.00	R 15.50	
					R 77.00	
	Add for sundries and contingencies	@	3.00%	R77.00	R 2.31	
					R 79.31	
	Add for water charges	@	1.00%	R79.31	R 0.79	
					R 80.10	
	Add GST (multiplying factor)		0.1405	R80.10	R 11.25	
					R 91.35	
	Add for contractor's profit and overheads	@	15.00%	R91.35	R 13.70	
					R 105.05	
	Add cess	@	1.00%	R105.05	R 1.05	
	Cost of 10 Sqm				R 106.10	
	Cost of 1 Sqm				R 10.61	
	Say				R 10.60	

	Interior Finishing							
12.21	White washing with lime to give an even sha	ade						
12.21.1								
Code	Description	Unit	Quantity	Rate	Amount			
	Detail of cost for 10 sqm							
	Materials:-							
12017	Dehradun white lime	kg	3.00	R7.00	R 21.00			
0430	Carriage of white lime	tonne	0.003	R120.56	R 0.36			
	Labour:-							
0232	White Washer	Day	0.20	R355.00	R 71.00			
0212	Coolie	Day	0.20	R310.00	R 62.00			
					R 154.36			
	Add for sundries ladder and contingencies	@	3.00%	R154.36	R 4.63			
	including cost of indigo gum		3.00%	11104.00				
					R 158.99			
	Add for water charges	@	1.00%	R158.99	R 1.59			
					R 160.58			
	Add GST (multiplying factor)		0.1405	R160.58	R 22.56			
					R 183.14			
	Add for contractor's profit and overheads	@	15.00%	R183.14	R 27.47			
					R 210.61			
	Add cess	@	1.00%	R210.61	R 2.11			
	Cost of 10 sqm.				R 212.72			
	Cost of 1 Sqm				R 21.27			
	Say				R 21.30			

12.22 Colour washing such as green, blue or buff with whiting to give an even shade:

12.22.1	1 New work (two or more coats) with a base coat of white washing with lime					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 sqm					
	Materials:-					
12017	Dehradun white lime	kg	3.00	R7.00	R 21.00	
	Labour:-					
0232	White Washer	Day	0.30	R355.00	R 106.50	
0212	Coolie	Day	0.10	R310.00	R 31.00	
					R 158.50	
	Add for sundries ladder and contingencies including cost of indigo gum and colouring stuff, ladder & carriage of material [Lumpsum]	@	12.50%	R158.50	R 19.81	
					R 178.31	
	Add for water charges	@	1.00%	R178.31	R 1.78	
					R 180.09	
	Add GST (multiplying factor)		0.1405	R180.09	R 25.30	
					R 205.39	
	Add for contractor's profit and overheads	@	15.00%	R205.39	R 30.81	
					R 236.20	
	Add cess	@	1.00%	R236.20	R 2.36	
	Cost of 10 sqm.			·	R 238.56	
	Cost of 1 Sqm.				R 23.86	
	Say				R 23.90	

12.22.2	2.2 New work (two or more coats) with a base coat of whiting						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 sqm						
	Materials:-						
12046	Whiting	Kg	3.00	R6.00	R 18.00		
	Labour:-						
0232	White Washer	Day	0.30	R355.00	R 106.50		
0212	Coolie	Day	0.10	R310.00	R 31.00		
					R 155.50		
	Add for sundries ladder and contingencies including cost of indigo gum and colouring stuff, ladder & carriage of material [Lumpsum]	@	11.50%	R155.50	R 17.88		
					R 173.38		
	Add for water charges	@	1.00%	R173.38	R 1.73		
					R 175.11		
	Add GST (multiplying factor)		0.1405	R175.11	R 24.60		
					R 199.71		
	Add for contractor's profit and overheads	@	15.00%	R199.71	R 29.96		
					R 229.67		
	Add cess	@	1.00%	R229.67	R 2.30		
	Cost of 10 sqm.				R 231.97		
	Cost of 1 Sqm.				R 23.20		
	Say				R 23.20		

12.23	Distempering with dry distemper of approver required shade on new work, over and includ shade. [Payment shall be made after summanufacturer]	ing wate	er thinnable	e priming coat	to give an even
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12049	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/litre	litre	0.70	R58.00	R 40.60
12018	Dry distemper	Kg	1.50	R32.00	R 48.00
	Labour:-				

0227	Painter	Day	0.80	R395.00	R 316.00
0212	Coolie	Day	0.40	R310.00	R 124.00
					R 528.60
	Add for sundries and contingencies including cost of putty, glue, brushes, sand paper etc. and carriage of dry distemper [lumpsum]	@	4.00%	R528.60	R 21.14
					R 549.74
	Add for water charges	@	1.00%	R549.74	R 5.50
					R 555.24
	Add GST (multiplying factor)		0.1405	R555.24	R 78.01
					R 633.25
	Add for contractor's profit and overheads	@	15.00%	R633.25	R 94.99
					R 728.24
	Add cess	@	1.00%	R728.24	R 7.28
	Cost of 10 sqm.			•	R 735.52
	Cost of 1 Sqm.			·	R 73.55
	Say				R 73.60

12.24	Distempering with oil bound washable distention an even shade [Payment shall be made after Manufacturer]:				
12.24.1	New work (two or more coats) over and incliprimer.	uding w	ater thinna	ble priming co	at with cement
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12049	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/litre	litre	0.70	R58.00	R 40.60
12063	Ist quality Acrylic distemper(Ready mix) having VOC content less than 50 grams/ litre	Kg	1.50	R50.00	R 75.00
	Labour:-				
0227	Painter	Day	1.00	R395.00	R 395.00
0212	Coolie	Day	0.50	R310.00	R 155.00
					R 665.60
	Add for sundries and contingencies including cost of Brushes, sand paper and putty for filling holes and carriage of material [lumpsum]	@	7.50%	R665.60	R 49.92
					R 715.52
	Add for water charges	@	1.00%	R715.52	R 7.16
					R 722.68
	Add GST (multiplying factor)		0.1405	R722.68	R 101.54
					R 824.22
	Add for contractor's profit and overheads	@	15.00%	R824.22	R 123.63
					R 947.85
	Add cess	@	1.00%	R947.85	R 9.48
	Cost of 10 sqm.				R 957.33
	Cost of 1 Sqm.				R 95.73
	Say				R 95.70

12.25	Distempering with 1st quality acrylic distem 50 grams/ litre, of approved brand and manuas per manufacurer's specification. [Paym Certificate issued by the Manufacturer]	ufacture	, of require	ed shade and co	olour complete,
12.25.1	Two or more coats on new work.				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				

12063	Ist quality Acrylic distemper (Ready mix) having VOC content less than 50 grams/litre	Kg	1.50	R50.00	R 75.00
	Labour:-				
0227	Painter	Day	0.40	R395.00	R 158.00
0203	Belder	Day	0.46	R310.00	R 142.60
					R 375.60
	Add for sundries and contingencies including cost of Brushes, sand paper and putty for filling holes and carriage of material [lumpsum]	@	8.00%	R375.60	R 30.05
					R 405.65
	Add for water charges	@	1.00%	R405.65	R 4.06
					R 409.71
	Add GST (multiplying factor)		0.1405	R409.71	R 57.56
					R 467.27
	Add for contractor's profit and overheads	@	15.00%	R467.27	R 70.09
	·				R 537.36
	Add cess	@	1.00%	R537.36	R 5.37
	Cost of 10 sqm.				R 542.73
	Cost of 1 Sqm.				R 54.27
	Say				R 54.30

12.26	Distempering with 1st quality acrylic distemportant less than 50 grams/ litre, of approvadditional coats wherever required, to achiemade after submission of Test Certificate issu	ed brar	nd and mar n shade ar	nufacture, inclund colour. [Pay	uding applying
12.26.1	One Coat				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12002	Acrylic distemper 1st quality having VOC content less than 50 gm / litre	Kg	0.62	R42.00	R 26.04
	Labour:-				
0227	Painter	Day	0.33	R395.00	R 130.35
0212	Coolie	Day	0.17	R310.00	R 52.70
					R 209.09
	Add for sundries and contingencies including cost of Brushes, putty, scaffolding and carriage of material [lumpsum]	@	10.75%	R209.09	R 22.48
					R 231.57
	Add for water charges	@	1.00%	R231.57	R 2.32
					R 233.89
	Add GST (multiplying factor)		0.1405	R233.89	R 32.86
					R 266.75
	Add for contractor's profit and overheads	@	15.00%	R266.75	R 40.01
					R 306.76
	Add cess	@	1.00%	R306.76	R 3.07
	Cost of 10 sqm.				R 309.83
	Cost of 1 Sqm.				R 30.98
	Say				R 31.00

12.26.2	Two Coats				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12002	Acrylic distemper 1st quality having VOC content less than 50 gm / litre	Kg	0.99	R42.00	R 41.58
	Labour:-				
0227	Painter	Day	0.40	R395.00	R 158.00
0212	Coolie	Day	0.46	R310.00	R 142.60
					R 342.18

Add for sundries and contingencies including cost of Brushes, putty, scaffolding and carriage of material [lumpsum]	@	8.50%	R342.18	R 29.09
				R 371.27
Add for water charges	@	1.00%	R371.27	R 3.71
				R 374.98
Add GST (multiplying factor)		0.1405	R374.98	R 52.68
				R 427.66
Add for contractor's profit and overheads	@	15.00%	R427.66	R 64.15
				R 491.81
Add cess	@	1.00%	R491.81	R 4.92
Cost of 10 sqm.				R 496.73
Cost of 1 Sqm.				R 49.67
Say				R 49.70

12.27	Applying one coat of water thinnable cement wall surface complete.	primer	of approved	d brand and m	nanufacturer on
12.27.1	Water thinnable cement primer				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Water thinnable cement primer for interior				
12049	wall surface, having VOC content less than 50	Litre	0.70	R58.00	R 40.60
	grams/ litre				
	Labour:-				
0227	Painter	Day	0.40	R395.00	R 158.00
0212	Coolie	Day	0.20	R310.00	R 62.00
					R 260.60
	Add for sundries and contingencies including cost of Brushes and putty and carriage of material [lumpsum]	@	7.50%	R260.60	R 19.55
					R 280.15
	Add for water charges	@	1.00%	R280.15	R 2.80
					R 282.95
	Add GST (multiplying factor)		0.1405	R282.95	R 39.75
					R 322.70
	Add for contractor's profit and overheads	@	15.00%	R322.70	R 48.41
					R 371.11
	Add cess	@	1.00%	R371.11	R 3.71
	Cost of 10 sqm.				R 374.82
	Cost of 1 Sqm.				R 37.48
	Say				R 37.50

12.28	Finishing walls with water proofing cement manufacture [Payment shall be made after Manufacturer]:	submi	ssion of Te		
12.28.1	New work (two or more coats applied @ 3.84	kg/10 s	sqm)		
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12043	Water proofing cement paint	Kg	3.84	R40.00	R 153.60
	Labour:-				
0227	Painter	Day	0.46	R395.00	R 181.70
0212	Coolie	Day	0.23	R310.00	R 71.30
0205	Bhisti	Day	0.10	R310.00	R 31.00
					R 437.60
	Add for sundries and contingencies including cost of Brushes, sand paper and carriage of material [lumpsum]	@	5.00%	R437.60	R 21.88
					R 459.48
	Add for water charges	@	1.00%	R459.48	R 4.59
					R 464.07

Add GST (multiplying factor)		0.1405	R464.07	R 65.20
				R 529.27
Add for contractor's profit and overheads	@	15.00%	R529.27	R 79.39
				R 608.66
Add cess	@	1.00%	R608.66	R 6.09
Cost of 10 sqm.				R 614.75
Cost of 1 Sqm.				R 61.48
Say				R 61.50

12.29	Finishing walls with textured exterior paint of required shade of approved brand and manufacture [Payment shall be made after submission of Test Certificate issued by the Manufacturer]:
12.29.1	New work (two or more coats applied @ 3.28 litre/10 sqm) over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12042	Textured exterior paint	Litre	3.28	R250.00	R 820.00
12050	Exterior primer	Kg	2.20	R100.00	R 220.00
	Labour:-				
0227	Painter	Day	0.60	R395.00	R 237.00
0212	Coolie	Day	0.30	R310.00	R 93.00
0205	Bhisti	Day	0.05	R310.00	R 15.50
					R 1385.50
	Add for sundries and contingencies including cost of Brushes, sand paper and carriage of material [lumpsum]	@	3.00%	R1385.50	R 41.57
					R 1427.07
	Add for water charges	@	1.00%	R1427.07	R 14.27
					R 1441.34
	Add GST (multiplying factor)		0.1405	R1441.34	R 202.51
					R 1643.85
	Add for contractor's profit and overheads	@	15.00%	R1643.85	R 246.58
					R 1890.43
	Add cess	@	1.00%	R1890.43	R 18.90
	Cost of 10 sqm.				R 1909.33
	Cost of 1 Sqm.				R 190.93
	Say			·	R 190.90

12.30	Manufacturer]:							
12.30.1	New work (two or more coats applied @ 1.67 litre/10 sqm over and including priming coatexterior primer applied @ 2.20 kg/10 sqm)							
Code	Description	Unit	Quantity	Rate	Amount			
	Detail of cost for 10 sqm							
	Materials:-							
12004	Acrylic exterior paint	Litre	1.67	R180.00	R 300.60			
12050	Exterior primer	Kg	2.20	R100.00	R 220.00			
	Labour:-							
0227	Painter	Day	0.60	R395.00	R 237.00			
0212	Coolie	Day	0.30	R310.00	R 93.00			
0205	Bhisti	Day	0.05	R310.00	R 15.50			
					R 866.10			
	Add for sundries and contingencies including cost of Brushes, sand paper and carriage of material [lumpsum]	@	3.00%	R866.10	R 25.98			
					R 892.08			
	Add for water charges	@	1.00%	R892.08	R 8.92			
					R 901.00			
	Add GST (multiplying factor)		0.1405	R901.00	R 126.59			
					R 1027.59			
	Add for contractor's profit and overheads	@	15.00%	R1027.59	R 154.14			
					R 1181.73			
	Add cess	@	1.00%	R1181.73	R 11.82			
	Cost of 10 sqm.				R 1193.55			
	Cost of 1 Sqm.				R 119.36			
	Say				R 119.40			

	12.31	Finishing walls with premium acrylic smooth shade of approved brand and manufacture [Found in the Certificate issued by the Manufacturer]:				
1	2.31.1	New work (two or more coats applied @ 1.43 exterior primer applied @ 2.20 kg/10 sqm)	litre/10) sqm over	and including	oriming coat of
	Code	Description	Unit	Quantity	Rate	Amount

	Detail of cost for 10 sqm				
	Materials:-				
12033	Premium Acrylic smooth exterior paint	Litre	1.43	R210.00	R 300.30
12050	Exterior primer	Kg	2.20	R100.00	R 220.00
	Labour:-				
0227	Painter	Day	0.60	R395.00	R 237.00
0212	Coolie	Day	0.30	R310.00	R 93.00
0205	Bhisti	Day	0.05	R310.00	R 15.50
					R 865.80
	Add for sundries and contingencies including cost of Brushes, sand paper and carriage of material [lumpsum]	@	3.00%	R865.80	R 25.97
					R 891.77
	Add for water charges	@	1.00%	R891.77	R 8.92
	, and the second				R 900.69
	Add GST (multiplying factor)		0.1405	R900.69	R 126.55
					R 1027.24
	Add for contractor's profit and overheads	@	15.00%	R1027.24	R 154.09
					R 1181.33
	Add cess	@	1.00%	R1181.33	R 11.81
	Cost of 10 sqm.				R 1193.14
	Cost of 1 Sqm.			·	R 119.31
	Say			•	R 119.30

		stem for interiors and exteriors using Primer as							
12.32	issued by the Manufacturer]:								
12.32.1		Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special							
12.32.1	primer applied @ 0.75 ltr /10 sqm								
Code	Description	Unit	Quantity	Rate	Amount				
	Detail of cost for 10 sqm								
	Materials:-								
12051	Multi Surface Paint	Litre	1.25	R270.00	R 337.50				
12052	Special primer (C.W.)	Kg	0.75	R150.00	R 112.50				
	Labour:-								
0227	Painter	Day	0.60	R395.00	R 237.00				
0212	Coolie	Day	0.30	R310.00	R 93.00				
0205	Bhisti	Day	0.05	R310.00	R 15.50				
					R 795.50				
	Add for sundries and contingencies including								
	cost of Brushes, sand paper and carriage of	@	3.50%	R795.50	R 27.84				
	material [lumpsum]								
					R 823.34				
	Add for water charges	@	1.00%	R823.34	R 8.23				
					R 831.57				
	Add GST (multiplying factor)		0.1405	R831.57	R 116.84				
					R 948.41				
	Add for contractor's profit and overheads	@	15.00%	R948.41	R 142.26				
					R 1090.67				
	Add cess	@	1.00%	R1090.67	R 10.91				
	Cost of 10 sqm.				R 1101.58				
	Cost of 1 Sqm.				R 110.16				
	Say				R 110.20				

	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture.					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 sqm					
	Materials:-					
12051	Multi Surface Paint	Litre	0.90	R270.00	R 243.00	
12052	Special primer (C.W.)	Kg	0.75	R150.00	R 112.50	

	Labour:-				
0227	Painter	Day	0.60	R395.00	R 237.00
0212	Coolie	Day	0.30	R310.00	R 93.00
0205	Bhisti	Day	0.05	R310.00	R 15.50
					R 701.00
	Add for sundries and contingencies including cost of Brushes, sand paper and carriage of material [lumpsum]	@	3.50%	R701.00	R 24.54
					R 725.54
	Add for water charges	@	1.00%	R725.54	R 7.26
					R 732.80
	Add GST (multiplying factor)		0.1405	R732.80	R 102.96
					R 835.76
	Add for contractor's profit and overheads	@	15.00%	R835.76	R 125.36
					R 961.12
	Add cess	@	1.00%	R961.12	R 9.61
	Cost of 10 sqm.				R 970.73
	Cost of 1 Sqm.				R 97.07
	Say				R 97.10

12.32.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 sqm					
	Materials:-					
12051	Multi Surface Paint	Litre	0.90	R270.00	R 243.00	
12052	Special primer (C.W.)	Kg	0.80	R150.00	R 120.00	

	Labour:-				
0227	Painter	Day	0.60	R395.00	R 237.00
0212	Coolie	Day	0.30	R310.00	R 93.00
0205	Bhisti	Day	0.05	R310.00	R 15.50
					R 708.50
	Add for sundries and contingencies including cost of Brushes, sand paper and carriage of material [lumpsum]	@	3.50%	R708.50	R 24.80
					R 733.30
	Add for water charges	@	1.00%	R733.30	R 7.33
					R 740.63
	Add GST (multiplying factor)		0.1405	R740.63	R 104.06
					R 844.69
	Add for contractor's profit and overheads	@	15.00%	R844.69	R 126.70
					R 971.39
	Add cess	@	1.00%	R971.39	R 9.71
	Cost of 10 sqm.				R 981.10
	Cost of 1 Sqm.			•	R 98.11
	Say				R 98.10

12.33	Applying priming coat [Payment shall be made after submission of Test Certificate issued the Manufacturer]:							
12.33.1	With ready mixed Pink or Grey primer of approved brand and manufacture on wood work (hard & soft wood).							
Code	Description	Unit	Quantity	Rate	Amount			
	Detail of cost for 10 sqm							
	Materials:-							
12030	Pink Primer	Litre	0.75	R110.00	R 82.50			
	Labour:-							
0227	Painter	Day	0.25	R395.00	R 98.75			
0212	Coolie	Day	0.25	R310.00	R 77.50			
					R 258.75			
	Add for sundries and contingencies including cost of Putty, Brushes, sand paper and carriage of material [lumpsum]	@	9.50%	R258.75	R 24.58			
					R 283.33			
	Add for water charges	@	1.00%	R283.33	R 2.83			
					R 286.16			
	Add GST (multiplying factor)		0.1405	R286.16	R 40.21			
					R 326.37			
	Add for contractor's profit and overheads	@	15.00%	R326.37	R 48.96			
					R 375.33			
	Add cess	@	1.00%	R375.33	R 3.75			
	Cost of 10 sqm.				R 379.08			
	Cost of 1 Sqm.				R 37.91			
	Say				R 37.90			

12.33.2	With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood.						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 sqm						
	Materials:-						
12006	Aluminium primer	Litre	0.75	R120.00	R 90.00		
	Labour:-						
0227	Painter	Day	0.25	R395.00	R 98.75		
0212	Coolie	Day	0.25	R310.00	R 77.50		
					R 266.25		
	Add for sundries and contingencies including cost of Putty, Brushes, sand paper and carriage of material [lumpsum]	@	9.50%	R266.25	R 25.29		

				R 291.54
Add for water charges	@	1.00%	R291.54	R 2.92
				R 294.46
Add GST (multiplying factor)		0.1405	R294.46	R 41.37
				R 335.83
Add for contractor's profit and overheads	@	15.00%	R335.83	R 50.37
				R 386.20
Add cess	@	1.00%	R386.20	R 3.86
Cost of 10 sqm.				R 390.06
Cost of 1 Sqm.				R 39.01
Say				R 39.00

12.33.3	With ready mixed red oxide zinc chromate steel galvanised iron/ steel works	primer (of approve	d brand and n	nanufacture on
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12001	Red oxide Zinc chromate primer	Litre	0.54	R100.00	R 54.00

	Labour:-				
0227	Painter	Day	0.24	R395.00	R 94.80
0212	Coolie	Day	0.24	R310.00	R 74.40
					R 223.20
	Add for sundries and contingencies including cost of Brushes, sand paper and carriage of material [lumpsum]	@	6.25%	R223.20	R 13.95
					R 237.15
	Add for water charges	@	1.00%	R237.15	R 2.37
					R 239.52
	Add GST (multiplying factor)		0.1405	R239.52	R 33.65
					R 273.17
	Add for contractor's profit and overheads	@	15.00%	R273.17	R 40.98
					R 314.15
	Add cess	@	1.00%	R314.15	R 3.14
	Cost of 10 sqm.				R 317.29
	Cost of 1 Sqm.				R 31.73
	Say				R 31.70

12.33.4	With ready mixed red oxide zinc chromate steel work (second coat)	primer	of approve	d brand and r	nanufacture on
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12001	Red oxide Zinc chromate primer	Litre	0.36	R100.00	R 36.00
	Labour:-				
0227	Painter	Day	0.12	R395.00	R 47.40
0212	Coolie	Day	0.12	R310.00	R 37.20
					R 120.60
	Add for sundries and contingencies including cost of Brushes, sand paper and carriage of material [lumpsum]	@	8.00%	R120.60	R 9.65
					R 130.25
	Add for water charges	@	1.00%	R130.25	R 1.30
					R 131.55
	Add GST (multiplying factor)		0.1405	R131.55	R 18.48
					R 150.03
	Add for contractor's profit and overheads	@	15.00%	R150.03	R 22.50
					R 172.53
	Add cess	@	1.00%	R172.53	R 1.73
	Cost of 10 sqm.			·	R 174.26
	Cost of 1 Sqm.			·	R 17.43
	Say				R 17.40

12.34	Certificate issued by the Manufacturer].						
12.34.1	With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 sqm						
	Materials:-						
12053	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	Litre	0.75	R110.00	R 82.50		
	Labour:-						
0227	Painter	Day	0.25	R395.00	R 98.75		
0212	Coolie	Day	0.25	R310.00	R 77.50		
					R 258.75		
	Add for sundries and contingencies including cost of Putty, Brushes, sand paper and carriage of material [lumpsum]	@	9.50%	R258.75	R 24.58		

				R 283.33
Add for water charges	@	1.00%	R283.33	R 2.83
				R 286.16
Add GST (multiplying factor)		0.1405	R286.16	R 40.21
				R 326.37
Add for contractor's profit and overheads	@	15.00%	R326.37	R 48.96
				R 375.33
Add cess	@	1.00%	R375.33	R 3.75
Cost of 10 sqm.				R 379.08
Cost of 1 Sqm.				R 37.91
Say				R 37.90

12.34.2	With ready mixed red oxide zinc chromatic than 250 grams/ litre	on stee	l / iron wo	orks having \	/OC content less
Code	Description		Quantity		Amount
	Detail of cost for 10 sqm				

	Materials:-				
12054	Ready mixed red oxide zinc chromatic on steel / iron works having VOC content less	Litre	0.54	R120.00	R 64.80
12004	than 250 grams/ litre	Little	0.54	11120.00	11 0 1.00
	Labour:-				
0227	Painter	Day	0.24	R395.00	R 94.80
0212	Coolie	Day	0.24	R310.00	R 74.40
	Add cost of brushes, sand paper etc.				
	including carriage of primer	@	10.00%	R234.00	R 23.40
	Add cost of scaffolding, ladder etc.	@	6.00%	R257.40	R 15.44
					R 272.84
	Add for sundries and contingencies	@	3.00%	R272.84	R 8.19
					R 281.03
	Add for water charges	@	1.00%	R281.03	R 2.81
					R 283.84
	Add GST (multiplying factor)		0.1405	R283.84	R 39.88
					R 323.72
	Add for contractor's profit and overheads	@	15.00%	R323.72	R 48.56
					R 372.28
	Add cess	@	1.00%	R372.28	R 3.72
	Cost of 10 sqm.				R 376.00
	Cost of 1 Sqm.				R 37.60
	Say				R 37.60

12.34.3	With water thinnable cement primer on water grams/litre	all surf	ace having	g VOC conten	t less than 50
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Water thinnable cement primer on wall				
12055	surface having VOC content less than 50	Litre	0.70	R65.00	R 45.50
	grams/litre				
	Labour:-				
0227	Painter	Day	0.40	R395.00	R 158.00
0212	Coolie	Day	0.20	R310.00	R 62.00
					R 265.50
	Add for sundries and contingencies including				
	cost of Brushes, sand paper and carriage of	@	7.25%	R265.50	R 19.25
	material [lumpsum]				
					R 284.75
	Add for water charges	@	1.00%	R284.75	R 2.85
					R 287.60
	Add GST (multiplying factor)		0.1405	R287.60	R 40.41
					R 328.01
	Add for contractor's profit and overheads	@	15.00%	R328.01	R 49.20
					R 377.21
	Add cess	@	1.00%	R377.21	R 3.77
	Cost of 10 sqm.				R 380.98
	Cost of 1 Sqm.				R 38.10
	Say				R 38.10

	Painting with silicon & acrylic emulsion base manufacture on wet or patchy portion of p submission of Test Certificate issued by the N One coat	lastered	surfaces [
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12056	Silicon and acrylic emulsion	litre	1.80	R140.00	R 252.00
	Labour:-				
0227	Painter	Day	0.27	R395.00	R 106.65
0212	Coolie	Day	0.27	R310.00	R 83.70

				R 442.35
Add for sundries and contingencies including cost of Putty, Brushes, sand paper and carriage of material [lumpsum]	@	6.75%	R442.35	R 29.86
				R 472.21
Add for water charges	@	1.00%	R472.21	R 4.72
				R 476.93
Add GST (multiplying factor)		0.1405	R476.93	R 67.01
				R 543.94
Add for contractor's profit and overheads	@	15.00%	R543.94	R 81.59
				R 625.53
Add cess	@	1.00%	R625.53	R 6.26
Cost of 10 sqm.				R 631.79
Cost of 1 Sqm.				R 63.18
Say				R 63.20

12.35.2	Two coats				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12056	Silicon and acrylic emulsion	litre	2.88	R140.00	R 403.20
	Labour:-				
0227	Painter	Day	0.43	R395.00	R 169.85
0212	Coolie	Day	0.43	R310.00	R 133.30
					R 706.35
	Add for sundries and contingencies including cost of Putty, Brushes, sand paper and carriage of material [lumpsum]	@	6.50%	R706.35	R 45.91
					R 752.26
	Add for water charges	@	1.00%	R752.26	R 7.52
					R 759.78
	Add GST (multiplying factor)		0.1405	R759.78	R 106.75
					R 866.53
	Add for contractor's profit and overheads	@	15.00%	R866.53	R 129.98
					R 996.51
	Add cess	@	1.00%	R996.51	R 9.97
	Cost of 10 sqm.				R 1006.48
	Cost of 1 Sqm.				R 100.65
	Say				R 100.70

12.36	Finishing with Epoxy paint (two or more collocations prepared and applied as per mar priming coat, preparation of surface etc. con of Test Certificate issued by the Manufacture	nufactur nplete [F	er's specifi	cation includi	ng appropriate
12.36.1	On steel work				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12001	Red oxide Zinc chromate primer	Litre	0.75	R100.00	R 75.00
12020	Epoxy paint	Litre	1.25	R250.00	R 312.50
	Labour:-				
0227	Painter	Day	0.79	R395.00	R 312.05
0212	Coolie	Day	0.79	R310.00	R 244.90
					R 944.45
	Add for sundries and contingencies including cost of Putty, Brushes, sand paper and carriage of material [lumpsum]	@	3.50%	R944.45	R 33.06
					R 977.51
	Add for water charges	@	1.00%	R977.51	R 9.78
					R 987.29
	Add GST (multiplying factor)		0.1405	R987.29	R 138.71
				<u> </u>	P 1126 00

Add for contractor's profit and overheads	@	15.00%	R1126.00	R 168.90
				R 1294.90
Add cess	@	1.00%	R1294.90	R 12.95
Cost of 10 sqm.				R 1307.85
Cost of 1 Sqm.				R 130.79
Say				R 130.80

12.36.2	On concrete work				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12034	Distemper Primer	Litre	0.84	R70.00	R 58.80
12020	Epoxy paint	Litre	1.21	R250.00	R 302.50
	Labour:-				
0227	Painter	Day	0.79	R395.00	R 312.05
0212	Coolie	Day	0.79	R310.00	R 244.90
					R 918.25
	Add for sundries and contingencies including cost of Putty, Brushes, sand paper and carriage of material [lumpsum]	@	7.50%	R918.25	R 68.87
					R 987.12
	Add for water charges	@	1.00%	R987.12	R 9.87
					R 996.99
	Add GST (multiplying factor)		0.1405	R996.99	R 140.08
					R 1137.07
	Add for contractor's profit and overheads	@	15.00%	R1137.07	R 170.56
					R 1307.63
	Add cess	@	1.00%	R1307.63	R 13.08
	Cost of 10 sqm.				R 1320.71
	Cost of 1 Sqm.				R 132.07
	Say				R 132.10

12.37	Painting on G.S. sheet with synthetic ename required colour to give an even shade [Pay Certificate issued by the Manufacturer]:				
12.37.1	New work (two or more coats) including a coat of mordant solution	oat of a	ppropriate	steel primer b	out excluding a
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12001	Red oxide Zinc chromate primer	Litre	0.36	R100.00	R 36.00
12040	Synthetic enamel paint in all shades except black or chocolate shade	Litre	0.80	R170.00	R 136.00
	Labour:-				
0227	Painter	Day	0.66	R395.00	R 260.70
0203	Beldar	Day	0.12	R310.00	R 37.20
0212	Coolie	Day	0.54	R310.00	R 167.40
					R 637.30
	Add for sundries and contingencies including cost of Putty, Brushes, sand paper and carriage of material [lumpsum]	@	5.00%	R637.30	R 31.87
					R 669.17
	Add for water charges	@	1.00%	R669.17	R 6.69
					R 675.86
	Add GST (multiplying factor)		0.1405	R675.86	R 94.96
					R 770.82
	Add for contractor's profit and overheads	@	15.00%	R770.82	R 115.62
					R 886.44
	Add cess	@	1.00%	R886.44	R 8.86
	Cost of 10 sqm.				R 895.30
	Cost of 1 Sqm.				R 89.53
	Say				R 89.50

12.38	Applying a coat of mordant solution on G.S. s Test Certificate issued by the Manufacturer] :		yment shall	be made afte	r submission of
12.38.1	With a solution made of 38 gms of copper ace	tate in I	itre of soft v	water.	
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 25 sqm				
	Materials:-				
12013	Copper acetate	Kg	0.038	R308.00	R 11.70
	Labour:-				
0227	Painter	Day	0.60	R395.00	R 237.00
0212	Coolie	Day	0.60	R310.00	R 186.00
					R 434.70
	Add for sundries and contingencies including				
	cost of Soft water, Brushes, sand paper and carriage of material [lumpsum]	@	19.75%	R434.70	R 85.85
					R 520.55
	Add for water charges	@	1.00%	R520.55	R 5.21
					R 525.76
	Add GST (multiplying factor)		0.1405	R525.76	R 73.87
					R 599.63
	Add for contractor's profit and overheads	@	15.00%	R599.63	R 89.94
					R 689.57
	Add cess	@	1.00%	R689.57	R 6.90
	Cost of 25 sqm.				R 696.47
	Cost of 1 Sqm.			·	R 27.86
	Say				R 27.90

12.38.2	With a solution made of 13 gms of hydrochloric acid in a solution of 13 gms each of copper chloride, copper nitrate, ammonium chloride dissolved in litre of soft water.					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 25 sqm					
	Materials:-					
12024	Hydrochloric acid	Kg	0.013	R35.00	R 0.46	
12014	Copper chloride	Kg	0.013	R302.00	R 3.93	
12015	Copper nitrate	Kg	0.013	R240.00	R 3.12	
12007	Ammonium chloride	Kg	0.013	R22.00	R 0.29	
	Labour:-					
0227	Painter	Day	0.60	R395.00	R 237.00	
0212	Coolie	Day	0.60	R310.00	R 186.00	
					R 430.80	
	Add for sundries and contingencies including cost of Soft water, Brushes, sand paper and carriage of material [lumpsum]	@	19.75%	R430.80	R 85.08	
					R 515.88	
	Add for water charges	@	1.00%	R515.88	R 5.16	
					R 521.04	
	Add GST (multiplying factor)		0.1405	R521.04	R 73.21	
					R 594.25	
	Add for contractor's profit and overheads	@	15.00%	R594.25	R 89.14	
					R 683.39	
	Add cess	@	1.00%	R683.39	R 6.83	
	Cost of 25 sqm.				R 690.22	
	Cost of 1 Sqm.				R 27.61	
	Say				R 27.60	

12.39	Painting (two or more coats) on rain water, so anticorrosive bitumastic paint of approved priming coat of ready mixed zinc chromate made after submission of Test Certificate issu	brand a yellow	and manuf primer on	acture, over a new work [Pa	nd including a
12.39.1	100mm. dia.				
Code	Description	Unit	Quantity	Rate	Amount

	Detail of cost for 30 mtrs Area=22/7				
	x106.4mm x30m =10.032sqm				
	Materials:-				
12001	Red oxide Zinc chromate primer	Litre	0.54	R100.00	R 54.00
12008	Anticorrosive bituminous paint (black)	Litre	0.95	R110.00	R 104.50
	Labour:-				
0227	Painter	Day	0.78	R395.00	R 308.10
0212	Coolie	Day	0.78	R310.00	R 241.80
					R 708.40
	Add for sundries and contingencies including cost of Wire brushes for cleaning, Putty, Brushes, sand paper and carriage of material & Extra for delays [lumpsum]	@	16.50%	R708.40	R 116.89
					R 825.29
	Add for water charges	@	1.00%	R825.29	R 8.25
					R 833.54
	Add GST (multiplying factor)		0.1405	R833.54	R 117.11
					R 950.65
	Add for contractor's profit and overheads	@	15.00%	R950.65	R 142.60
					R 1093.25
	Add cess	@	1.00%	R1093.25	R 10.93
	Cost of 30 Metre				R 1104.18
	Cost of 1 Metre				R 36.81
	Say				R 36.80

12.39.2	150mm. dia.				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 30 mtrs Area=22/7 x0.1572				
	m x30m =14.82sqm				
	Materials:-				
12001	Red oxide Zinc chromate primer	Litre	0.80	R100.00	R 80.00
12008	Anticorrosive bituminous paint (black)	Litre	1.41	R110.00	R 155.10
	Labour:-				
0227	Painter	Day	1.16	R395.00	R 458.20
0212	Coolie	Day	1.16	R310.00	R 359.60
					R 1052.90
	Add for sundries and contingencies including cost of Wire brushes for cleaning, Putty, Brushes, sand paper and carriage of material & Extra for delays [lumpsum]	@	16.75%	R1052.90	R 176.36
					R 1229.26
	Add for water charges	@	1.00%	R1229.26	R 12.29
					R 1241.55
	Add GST (multiplying factor)		0.1405	R1241.55	R 174.44
					R 1415.99
	Add for contractor's profit and overheads	@	15.00%	R1415.99	R 212.40
					R 1628.39
	Add cess	@	1.00%	R1628.39	R 16.28
	Cost of 30 Metre				R 1644.67
	Cost of 1 Metre				R 54.82
	Say				R 54.80

12.40	Painting (two or more coats) on rain water synthetic enamel paint of required colour of colour over a priming coat of approved stee after submission of Test Certificate issued by	approve el prime	ed brand a r on new v	nd manufactur vork [Payment	e and required
12.40.1	100mm. dia.				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 30 mtrs				
	Area=22/7x0.1064m x30m =10.032sqm				
	Materials:-			•	
12001	Red oxide Zinc chromate primer	Litre	0.54	R100.00	R 54.00

12041	Synthetic enamel paint in black or chocolate shade	Litre	1.16	R180.00	R 208.80
	Labour:-				
0227	Painter	Day	0.78	R395.00	R 308.10
0212	Coolie	Day	0.78	R310.00	R 241.80
					R 812.70
	Add for sundries and contingencies including cost of Wire brushes for cleaning, Putty, Brushes, sand paper and carriage of material & Extra for delays [lumpsum]	@	16.75%	R812.70	R 136.13
					R 948.83
	Add for water charges	@	1.00%	R948.83	R 9.49
					R 958.32
	Add GST (multiplying factor)		0.1405	R958.32	R 134.64
					R 1092.96
	Add for contractor's profit and overheads	@	15.00%	R1092.96	R 163.94
					R 1256.90
	Add cess	@	1.00%	R1256.90	R 12.57
	Cost of 30 Metre				R 1269.47
	Cost of 1 Metre				R 42.32
	Say				R 42.30

12.40.2	150mm. dia.				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 30 mtrs Area=22/7				
	x157.2mm x30m =14.82sqm				
	Materials:-				
12001	Zinc chromate yellow primer	Litre	0.80	R100.00	R 80.00
12041	Synthetic enamel paint	Litre	1.72	R180.00	R 309.60
	Labour:-				
0227	Painter	Day	1.16	R395.00	R 458.20
0212	Coolie	Day	1.16	R310.00	R 359.60
					R 1207.40
	Add for sundries and contingencies including cost of Wire brushes for cleaning, Putty, Brushes, sand paper and carriage of material & Extra for delays [lumpsum]	@	17.00%	R1207.40	R 205.26
					R 1412.66
	Add for water charges	@	1.00%	R1412.66	R 14.13
					R 1426.79
	Add GST (multiplying factor)		0.1405	R1426.79	R 200.46
					R 1627.25
	Add for contractor's profit and overheads	@	15.00%	R1627.25	R 244.09
					R 1871.34
	Add cess	@	1.00%	R1871.34	R 18.71
	Cost of 30 Metre				R 1890.05
	Cost of 1 Metre				R 63.00
	Say				R 63.00

	Painting with oil type wood preservative of approved brand and manufacture [Payment shall
	be made after submission of Test Certificate issued by the Manufacturer]:
12.41.1	New work (two or more coats)

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12028	Oil type wood preservative	Litre	1.00	R140.00	R 140.00
	Labour:-				
0227	Painter	Day	0.15	R395.00	R 59.25
0212	Coolie	Day	0.15	R310.00	R 46.50
					R 245.75
	Add for sundries and contingencies including cost of Brushes and carriage of material [lumpsum]	@	5.50%	R245.75	R 13.52
					R 259.27
	Add for water charges	@	1.00%	R259.27	R 2.59
					R 261.86
	Add GST (multiplying factor)		0.1405	R261.86	R 36.79
					R 298.65
	Add for contractor's profit and overheads	@	15.00%	R298.65	R 44.80
					R 343.45
	Add cess	@	1.00%	R343.45	R 3.43
	Cost of 10 sqm.				R 346.88
	Cost of 1 Sqm.				R 34.69
	Say				R 34.70

Providing and applying two coats of fire retardant paint on cleaned wood/ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant [Payment shall be made after submission of Test Certificate issued by the Manufacturer].

	rest certificate issued by the Manufacturer].				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12021	Fire retardant paint	Litre	5.70	R300.00	R 1710.00
	Labour:-				
0227	Painter	Day	0.54	R395.00	R 213.30
0203	Beldar	Day	0.54	R310.00	R 167.40
					R 2090.70
	Add for sundries and contingencies including cost of Putty, brushes, sand paper etc and carriage of material [lumpsum]	@	3.00%	R2090.70	R 62.72
					R 2153.42
	Add for water charges	@	1.00%	R2153.42	R 21.53
					R 2174.95
	Add GST (multiplying factor)		0.1405	R2174.95	R 305.58
					R 2480.53
	Add for contractor's profit and overheads	@	15.00%	R2480.53	R 372.08
					R 2852.61
	Add cess	@	1.00%	R2852.61	R 28.53
	Cost of 10 sqm.				R 2881.14
	Cost of 1 Sqm.				R 288.11
	Say				R 288.10

Coal tarring (two or more coats) of approved brand and manufacture on new work @ 0.16

12.43 litre and 0.12 coal tar per sqm in the first coat and second coat respectively complete [Payment shall be made after submission of Test Certificate issued by the Manufacturer].

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12011	Coal Tar	Litre	2.80	R35.00	R 98.00
02004	Kerosene oil	Litre	0.50	R52.00	R 26.00
	Labour:-				
0203	Beldar	Day	0.43	R310.00	R 133.30

				R 257.30
Add for sundries and contingencies including cost of brushes and carriage of material [lumpsum]	@	7.75%	R257.30	R 19.94
				R 277.24
Add for water charges	@	1.00%	R277.24	R 2.77
				R 280.01
Add GST (multiplying factor)		0.1405	R280.01	R 39.34
				R 319.35
Add for contractor's profit and overheads	@	15.00%	R319.35	R 47.90
				R 367.25
Add cess	@	1.00%	R367.25	R 3.67
Cost of 10 sqm.				R 370.92
Cost of 1 Sqm.				R 37.09
Say				R 37.10

		Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even
1	2.44	shade [Payment shall be made after submission of Test Certificate issued by the
		Manufacturer]:
12	2.44.1	Two or more coats on new work

Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12032	Plastic emulsion paint	Litre	1.21	R210.00	R 254.10
	Labour:-				
0227	Painter	Day	0.54	R395.00	R 213.30
0212	Coolie	Day	0.54	R310.00	R 167.40
					R 634.80
	Add for sundries and contingencies including cost of brushes, sand paper, putty etc. including carriage of material & for filling holes and cracks with putty etc [lumpsum]	@	5.50%	R634.80	R 34.91
					R 669.71
	Add for water charges	@	1.00%	R669.71	R 6.70
					R 676.41
	Add GST (multiplying factor)		0.1405	R676.41	R 95.04
					R 771.45
	Add for contractor's profit and overheads	@	15.00%	R771.45	R 115.72
					R 887.17
	Add cess	@	1.00%	R887.17	R 8.87
	Cost of 10 sqm.				R 896.04
	Cost of 1 Sqm.				R 89.60
	Say				R 89.60

12.45	submission of Test Certificate issued by the Manufacturer].							
12.45.1	One coat							
Code	Description	Unit	Quantity	Rate	Amount			
	Detail of cost for 10 sqm							
	Materials:-							
12057	Acrylic emulsion, having VOC content less than 50 grams/litre	Litre	0.53	R155.00	R 82.15			
	Labour:-							
0227	Painter	Day	0.36	R395.00	R 142.20			
0212	Coolie	Day	0.36	R310.00	R 111.60			
					R 335.95			
	Add for sundries and contingencies including cost of brushes, sand paper, putty etc. including carriage of material & for filling holes and cracks with putty etc [lumpsum]	@	8.50%	R335.95	R 28.56			
					R 364.51			
	Add for water charges	@	1.00%	R364.51	R 3.65			
					R 368.16			
	Add GST (multiplying factor)		0.1405	R368.16	R 51.73			
					R 419.89			
	Add for contractor's profit and overheads	@	15.00%	R419.89	R 62.98			
					R 482.87			
	Add cess	@	1.00%	R482.87	R 4.83			
	Cost of 10 sqm.				R 487.70			
	Cost of 1 Sqm.				R 48.77			
	Say				R 48.80			

12.45.2	Two coats				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12057	Acrylic emulsion, having VOC content less	Litre	0.84	R155.00	R 130.20
	than 50 grams/ litre	Litte			
	Labour:-				

0227	Painter	Day	0.54	R395.00	R 213.30
0212	Coolie	Day	0.54	R310.00	R 167.40
					R 510.90
	Add for sundries and contingencies including cost of brushes, sand paper, putty etc. including carriage of material & for filling holes and cracks with putty etc [lumpsum]	@	6.75%	R510.90	R 34.49
					R 545.39
	Add for water charges	@	1.00%	R545.39	R 5.45
					R 550.84
	Add GST (multiplying factor)		0.1405	R550.84	R 77.39
					R 628.23
	Add for contractor's profit and overheads	@	15.00%	R628.23	R 94.23
					R 722.46
	Add cess	@	1.00%	R722.46	R 7.22
	Cost of 10 sqm.				R 729.68
	Cost of 1 Sqm.				R 72.97
	Say				R 73.00

12.46	Wall painting with premium acrylic emulsion organic Compound) content less than 50 grancluding applying additional coats wherev [Payment shall be made after submission of Total painting and the submission of Total painting acrylic emulsion acr	ams/ lit er requ	tre of approinced to act	oved brand and ieve even sha	d manufacture, ide and colour
12.46.1	One coat				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
	Premium acrylic emulsion paint of interior				
12058	grade, having VOC content less than 50	Litre	0.38	R230.00	R 87.40
	grams/ litre				
	Labour:-				
0227	Painter	Day	0.36	R395.00	R 142.20
0212	Coolie	Day	0.36	R310.00	R 111.60
					R 341.20
	Add for sundries and contingencies including cost of brushes, sand paper etc. including carriage of material & for filling holes and cracks with putty etc [lumpsum]	@	6.50%	R341.20	R 22.18
					R 363.38
	Add for water charges	@	1.00%	R363.38	R 3.63
					R 367.01
	Add GST (multiplying factor)		0.1405	R367.01	R 51.56
					R 418.57
	Add for contractor's profit and overheads	@	15.00%	R418.57	R 62.79
					R 481.36
	Add cess	@	1.00%	R481.36	R 4.81
	Cost of 10 sqm.				R 486.17
	Cost of 1 Sqm.				R 48.62
	Say				R 48.60

I wo coats				
Description	Unit	Quantity	Rate	Amount
Detail of cost for 10 sqm				
Materials:-				
Premium acrylic emulsion paint of interior				
grade, having VOC content less than 50	Litre	0.60	R230.00	R 138.00
grams/ litre				
Labour:-				
Painter	Day	0.54	R395.00	R 213.30
Coolie	Day	0.54	R310.00	R 167.40
	Detail of cost for 10 sqm Materials:- Premium acrylic emulsion paint of interior grade, having VOC content less than 50 grams/ litre Labour:- Painter	Description Unit Detail of cost for 10 sqm Materials:- Premium acrylic emulsion paint of interior grade, having VOC content less than 50 Litre grams/ litre Labour:- Painter Day	Description Unit Quantity Detail of cost for 10 sqm Materials:- Premium acrylic emulsion paint of interior grade, having VOC content less than 50 Litre 0.60 qrams/ litre Labour:- Painter Day 0.54	DescriptionUnitQuantityRateDetail of cost for 10 sqm

				R 518.70
Add for sundries and contingencies including cost of brushes, sand paper etc. including carriage of material & for filling holes and cracks with putty etc [lumpsum]	@	6.50%	R518.70	R 33.72
				R 552.42
Add for water charges	@	1.00%	R552.42	R 5.52
				R 557.94
Add GST (multiplying factor)		0.1405	R557.94	R 78.39
				R 636.33
Add for contractor's profit and overheads	@	15.00%	R636.33	R 95.45
				R 731.78
Add cess	@	1.00%	R731.78	R 7.32
Cost of 10 sqm.				R 739.10
Cost of 1 Sqm.				R 73.91
Say				R 73.90

	Painting with synthetic enamel paint of app				
	shade [Payment shall be made after su	bmissio	n of Test	t Certificate	issued by the
	Manufacturer]:				
12.47.1	Two or more coats on new work	T			
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12041	Synthetic enamel paint in black or chocolate shade	Litre	1.16	R180.00	R 208.80
	Labour:-				
0227	Painter	Day	0.54	R395.00	R 213.30
0212	Coolie	Day	0.54	R310.00	R 167.40
					R 589.50
	Add for sundries and contingencies including cost of brushes, sand paper etc. including carriage of material & for filling holes and cracks with putty etc [lumpsum]	@	5.00%	R589.50	R 29.48
					R 618.98
	Add for water charges	@	1.00%	R618.98	R 6.19
					R 625.17
	Add GST (multiplying factor)		0.1405	R625.17	R 87.84
					R 713.01
	Add for contractor's profit and overheads	@	15.00%	R713.01	R 106.95
					R 819.96
	Add cess	@	1.00%	R819.96	R 8.20

Cost of 10 sqm.		R 828.16
Cost of 1 Sqm.		R 82.82
Say		R 82.80

12.48	Painting with synthetic enamel paint of appr to give an even shade [Payment shall be mad the Manufacturer]:	de after	submissior	of Test Certif	icate issued by		
12.48.1	Two or more coats on new work over an under coat of suitable shade with ordinary pain (primer) of approved brand and manufacture						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 sqm						
	Materials:-						
12030	Pink or grey primer (for wood)	Litre	0.75	R110.00	R 82.50		
12041	Synthetic enamel paint	Litre	1.16	R180.00	R 208.80		
	Labour:-						
0227	Painter	Day	0.79	R395.00	R 312.05		
0212	Coolie	Day	0.79	R310.00	R 244.90		
					R 848.25		
	Add for sundries and contingencies including cost of putty, brushes, sand paper etc. including carriage of material etc [lumpsum]	@	5.50%	R848.25	R 46.65		
					R 894.90		
	Add for water charges	@	1.00%	R894.90	R 8.95		
					R 903.85		
	Add GST (multiplying factor)		0.1405	R903.85	R 126.99		
					R 1030.84		
	Add for contractor's profit and overheads	@	15.00%	R1030.84	R 154.63		
					R 1185.47		
	Add cess	@	1.00%	R1185.47	R 11.85		
	Cost of 10 sqm.				R 1197.32		
	Cost of 1 Sqm.				R 119.73		
	Say				R 119.70		

12.49	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content than 150 grams/ litre, of approved brand and manufacture, including applying additionable coats wherever required to achieve even shade and colour [Payment shall be made a submission of Test Certificate issued by the Manufacturer].					
12.49.1	One coat					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for 10 sqm					
	Materials:-					
12059	Synthetic enamel paint, having VOC content less than 150 grams/ litre	Litre	0.53	R210.00	R 111.30	
	Labour:-					
0227	Painter	Day	0.36	R395.00	R 142.20	
0212	Coolie	Day	0.36	R310.00	R 111.60	
	Add cost of carriage of materilas, brushes,					
	sand paper, putty etc. including carriage of					
	paint.	@	6.00%	R365.10	R 21.91	
	Add cost of scaffolding, ladder etc.	@	4.00%	R387.01	R 15.48	
					R 402.49	
	Add for sundries and contingencies	@	3.00%	R402.49	R 12.07	
					R 414.56	
	Add for water charges	@	1.00%	R414.56	R 4.15	
					R 418.71	
	Add GST (multiplying factor)		0.1405	R418.71	R 58.83	
					R 477.54	
	Add for contractor's profit and overheads	@	15.00%	R477.54	R 71.63	
					R 549.17	
	Add cess	@	1.00%	R549.17	R 5.49	

Cost of 10 sqm.		R 554.66
Cost of 1 Sqm.		R 55.47
Say		R 55.50

12.49.2	Two coats				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12059	Synthetic enamel paint, having VOC content less than 150 grams/litre	Litre	0.84	R210.00	R 176.40
	Labour:-				
0227	Painter	Day	0.54	R395.00	R 213.30
0212	Coolie	Day	0.54	R310.00	R 167.40
	Add cost of carriage of materilas, brushes, sand paper, putty etc. including carriage of				
	paint.	@	10.00%	R557.10	R 55.71
	Add cost of scaffolding, ladder etc.	@	4.00%	R612.81	R 24.51
					R 637.32
	Add for sundries and contingencies	@	3.00%	R637.32	R 19.12
					R 656.44
	Add for water charges	@	1.00%	R656.44	R 6.56
					R 663.00
	Add GST (multiplying factor)		0.1405	R663.00	R 93.15
					R 756.15
	Add for contractor's profit and overheads	@	15.00%	R756.15	R 113.42
					R 869.57
	Add cess	@	1.00%	R869.57	R 8.70
	Cost of 10 sqm.				R 878.27
	Cost of 1 Sqm.				R 87.83
	Say				R 87.80

12.50	Painting with aluminium paint of approved brand and manufacture to give an even sha [Payment shall be made after submission of Test Certificate issued by the Manufacturer].						
12.50.1							
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 sqm						
	Materials:-						
12005	Aluminium paint	Litre	0.80	R160.00	R 128.00		
	Labour:-						
0227	Painter	Day	0.54	R395.00	R 213.30		
0212	Coolie	Day	0.54	R310.00	R 167.40		
					R 508.70		
	Add for sundries and contingencies including cost of putty, brushes, sand paper etc. including carriage of material etc [lumpsum]	@	6.50%	R508.70	R 33.07		
					R 541.77		
	Add for water charges	@	1.00%	R541.77	R 5.42		
					R 547.19		
	Add GST (multiplying factor)		0.1405	R547.19	R 76.88		
					R 624.07		
	Add for contractor's profit and overheads	@	15.00%	R624.07	R 93.61		
					R 717.68		
	Add cess	@	1.00%	R717.68	R 7.18		
	Cost of 10 sqm.				R 724.86		
	Cost of 1 Sqm.				R 72.49		
	Say				R 72.50		

	Painting with acid proof paint of approved by	rand and	d manufact	ure of require	d colour to give
12.51	an even shade [Payment shall be made after	er subm	ission of T	est Certificate	issued by the
	Manufacturer]:				
12.51.1	Two or more coats on new work				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12003	Acid proof paint (chocolate or black)	Litre	1.16	R230.00	R 266.80
	Labour:-				
0227	Painter	Day	0.54	R395.00	R 213.30
0212	Coolie	Day	0.54	R310.00	R 167.40
					R 647.50
	Add for sundries and contingencies including				
	cost of putty, brushes, sand paper etc.	@	4.50%	R647.50	R 29.14
	including carriage of material etc [lumpsum]				
					R 676.64
	Add for water charges	@	1.00%	R676.64	R 6.77
					R 683.41
	Add GST (multiplying factor)		0.1405	R683.41	R 96.02
					R 779.43
	Add for contractor's profit and overheads	@	15.00%	R779.43	R 116.91
					R 896.34
	Add cess	@	1.00%	R896.34	R 8.96
	Cost of 10 sqm.			·	R 905.30
	Cost of 1 Sqm.				R 90.53
	Say				R 90.50

12.52	Painting with black anti-corrosive bitumastic give an even shade [Payment shall be made a Manufacturer]:				
12.52.1	Two or more coats on new work				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12008	Anticorrosive bituminous paint (black)	Litre	0.95	R110.00	R 104.50
	Labour:-				
0227	Painter	Day	0.54	R395.00	R 213.30
0212	Coolie	Day	0.54	R310.00	R 167.40
					R 485.20
	Add for sundries and contingencies including cost of putty, brushes, sand paper etc. including carriage of material etc [lumpsum]	@	4.00%	R485.20	R 19.41
					R 504.61
	Add for water charges	@	1.00%	R504.61	R 5.05
					R 509.66
	Add GST (multiplying factor)		0.1405	R509.66	R 71.61
					R 581.27
	Add for contractor's profit and overheads	@	15.00%	R581.27	R 87.19
					R 668.46
	Add cess	@	1.00%	R668.46	R 6.68
	Cost of 10 sqm.				R 675.14
	Cost of 1 Sqm.				R 67.51
	Say				R 67.50

12.53	Floor painting with floor enamel paint of app to give an even shade [Payment shall be mad the Manufacturer]:				
12.53.1	Two or more coats on new work				
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				

12022	Floor enamel paint in all shades except green	Litre	1.48	R260.00	R 384.80
	Labour:-				
0227	Painter	Day	0.54	R395.00	R 213.30
0212	Coolie	Day	0.54	R310.00	R 167.40
					R 765.50
	Add for sundries and contingencies including cost of putty, brushes, sand paper etc. including carriage of material etc [lumpsum]	@	3.00%	R765.50	R 22.97
					R 788.47
	Add for water charges	@	1.00%	R788.47	R 7.88
					R 796.35
	Add GST (multiplying factor)		0.1405	R796.35	R 111.89
					R 908.24
	Add for contractor's profit and overheads	@	15.00%	R908.24	R 136.24
					R 1044.48
_	Add cess	@	1.00%	R1044.48	R 10.44
	Cost of 10 sqm.				R 1054.92
	Cost of 1 Sqm.				R 105.49
	Say				R 105.50

12.54	Varnishing with varnish of approved brand and mamufacturer [Payment shall be made af							
	submission of Test Certificate issued by the Manufacturer].							
12.54.1	Two or more coats of glue with copal varnish over an under coat of flatting varnish.							
Code	Description	Unit	Quantity	Rate	Amount			
	Detail of cost for 10 sqm							
	Materials:-							
12029	Ordinary varnish	Litre	0.70	R108.00	R 75.60			
12038	Superior copal varnish	Litre	1.16	R130.00	R 150.80			
12023	Glue	Kg	0.07	R85.00	R 5.95			
	Labour:-							
0227	Painter	Day	0.90	R395.00	R 355.50			
0212	Coolie	Day	0.90	R310.00	R 279.00			
					R 866.85			
	Add for sundries and contingencies including cost of putty for repair to holes, brushes, sand paper etc. including carriage of material etc [lumpsum]	@	3.00%	R866.85	R 26.01			
					R 892.86			
	Add for water charges	@	1.00%	R892.86	R 8.93			
					R 901.79			
	Add GST (multiplying factor)		0.1405	R901.79	R 126.70			
					R 1028.49			
	Add for contractor's profit and overheads	@	15.00%	R1028.49	R 154.27			
					R 1182.76			
	Add cess	@	1.00%	R1182.76	R 11.83			
	Cost of 10 sqm.				R 1194.59			
	Cost of 1 Sqm.				R 119.46			
	Say				R 119.50			

12.54.2	Two or more coats of glue with spar varnish over an under coat of flatting varnish.								
Code	Description	Description Unit Quantity Rate Amount							
	Detail of cost for 10 sqm								
	Materials:-								
12029	Ordinary varnish	Litre	0.70	R108.00	R 75.60				
12039	Superior spar varnish	Litre	1.26	R130.00	R 163.80				
12023	Glue	Kg	0.07	R85.00	R 5.95				
	Labour:-								
0227	Painter	Day	0.90	R395.00	R 355.50				
0212	Coolie	Day	0.90	R310.00	R 279.00				

				R 879.85
Add for sundries and contingencies including cost of putty for repair to holes, brushes, sand paper etc. including carriage of material etc [lumpsum]	@	3.00%	R879.85	R 26.40
				R 906.25
Add for water charges	@	1.00%	R906.25	R 9.06
				R 915.31
Add GST (multiplying factor)		0.1405	R915.31	R 128.60
				R 1043.91
Add for contractor's profit and overheads	@	15.00%	R1043.91	R 156.59
				R 1200.50
Add cess	@	1.00%	R1200.50	R 12.01
Cost of 10 sqm.				R 1212.51
Cost of 1 Sqm.				R 121.25
Say				R 121.30

12.55	French spirit polishing [Payment shall be made after submission of Test Certificate issued by							
	the Manufacturer]:	-						
12.55.1	Two or more coats on new works including a coat of wood filler							
Code	Description Unit Quantity Rate Amo							
	Detail of cost for 10 sqm							
	Materials:-							
12047	Shellac	Kg	0.240	R320.00	R 76.80			
12036	Spirit	Litre	1.63	R66.00	R 107.58			
	Labour:-							
0227	Painter	Day	3.50	R395.00	R 1382.50			
					R 1566.88			
	Add for sundries and contingencies including cost of pigment, White woolen cloth, putty, Sand paper cotton, lineseed oil etc & including carriage of material etc [lumpsum]	@	4.00%	R1566.88	R 62.68			
					R 1629.56			
	Add for water charges	@	1.00%	R1629.56	R 16.30			
					R 1645.86			
	Add GST (multiplying factor)		0.1405	R1645.86	R 231.24			
					R 1877.10			
	Add for contractor's profit and overheads	@	15.00%	R1877.10	R 281.57			
					R 2158.67			
	Add cess	@	1.00%	R2158.67	R 21.59			
	Cost of 10 sqm.				R 2180.26			
	Cost of 1 Sqm.				R 218.03			
	Say				R 218.00			

	Polishing on wood work with ready mixed wax polish of approved brand and manufacture [Payment shall be made after submission of Test Certificate issued by the Manufacturer]:						
12.56.1	New work			-			
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 sqm						
	Materials:-						
12044	Ready made Wax polish	Kg	0.50	R250.00	R 125.00		
	Labour:-						
0227	Painter	Day	0.80	R395.00	R 316.00		
0212	Coolie	Day	0.80	R310.00	R 248.00		
					R 689.00		
	Add for sundries and contingencies including cost of soap, brushes, cloth etc & including carriage of material etc [lumpsum]	@	3.00%	R689.00	R 20.67		
					R 709.67		
	Add for water charges	@	1.00%	R709.67	R 7.10		
					R 716.77		

Add GST (multiplying factor)		0.1405	R716.77	R 100.71
				R 817.48
Add for contractor's profit and overheads	@	15.00%	R817.48	R 122.62
				R 940.10
Add cess	@	1.00%	R940.10	R 9.40
Cost of 10 sqm.				R 949.50
Cost of 1 Sqm.				R 94.95
Say				R 95.00

12.57	Floor polishing on masonry or concrete flomanufacture [Payment shall be made after Manufacturer].		•		
Code	Description	Unit	Quantity	Rate	Amount
	Detail of cost for 10 sqm				
	Materials:-				
12044	Ready made Wax polish	Kg	0.10	R250.00	R 25.00
	Labour:-				
0227	Painter	Day	0.40	R395.00	R 158.00
0212	Coolie	Day	0.40	R310.00	R 124.00
					R 307.00
	Add for sundries and contingencies including cost of Acetic acid, soap, cloth etc & including carriage of material etc [lumpsum]	@	5.00%	R307.00	R 15.35
					R 322.35
	Add for water charges	@	1.00%	R322.35	R 3.22
					R 325.57
	Add GST (multiplying factor)		0.1405	R325.57	R 45.74
					R 371.31
	Add for contractor's profit and overheads	@	15.00%	R371.31	R 55.70
					R 427.01
	Add cess	@	1.00%	R427.01	R 4.27
	Cost of 10 sqm.				R 431.28
	Cost of 1 Sqm.				R 43.13
	Say				R 43.10

12.58	Lettering with black Japan paint of approved brand and manufacture [Payment shall be made after submission of Test Certificate issued by the Manufacturer].						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 100 letters 15 cm height						
	Materials:-						
12009	Black Japan Paint	Litre	0.56	R100.00	R 56.00		
	Labour:-						
0227	Painter	Day	6.00	R395.00	R 2370.00		
0212	Coolie	Day	2.00	R310.00	R 620.00		
					R 3046.00		
	Add for sundries and contingencies including cost for carriage of materials, cost of brushes, turpentile, stencils etc. [Lumpsum]	@	3.00%	R3046.00	R 91.38		
					R 3137.38		
	Add for water charges	@	1.00%	R3137.38	R 31.37		
					R 3168.75		
	Add GST (multiplying factor)		0.1405	R3168.75	R 445.21		
					R 3613.96		
	Add for contractor's profit and overheads	@	15.00%	R3613.96	R 542.09		
					R 4156.05		
	Add cess	@	1.00%	R4156.05	R 41.56		
	Cost of 100 letters 15 cm height				R 4197.61		
	Cost per letter per cm height				R 2.80		
	Say				R 2.80		

12.59	Providing and applying 12 mm thick (average) premixed formulated one coat gypsum lightweight plaster having additives and light weight aggregates as vermiculite/ perlite respectively conforming to IS: 2547 (Part - 1 & II) 1976, applied on hacked / uneven background such as bare brick/ block/ RCC work on walls & ceiling at all floors and locations, finished in smooth line and level etc. complete.						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 sqm						
	Materials:-						
12060	Premixed super white gypsum plaster @ 16.14kg /sqm = 61.40 + 5% wastage = 161.40+8.07= 169.47 kg Premixed super white gypsum plaster.	kg	169.47	R6.00	R 1016.82		
	Labour:-						
0218*	Mason (average)	Day	1.20	R420.00	R 504.00		
0212	Coolie	Day	1.20	R310.00	R 372.00		
					R 1892.82		
	Add for sundries and contingencies including cost for scaffolding [Lumpsum]	@	3.00%	R1892.82	R 56.78		
					R 1949.60		
	Add for water charges	@	1.00%	R1949.60	R 19.50		
					R 1969.10		
	Add GST (multiplying factor)		0.1405	R1969.10	R 276.66		
					R 2245.76		
	Add for contractor's profit and overheads	@	15.00%	R2245.76	R 336.86		
					R 2582.62		
	Add cess	@	1.00%	R2582.62	R 25.83		
	Cost of 10 sqm				R 2608.45		
	Cost of 1 sqm				R 260.85		
	Say				R 260.90		

12.60	Extra for addition of synthetic Polyester triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement plaster/ mortar by using 125 gms. of synthetic Polyester triangular fibre for 50 Kgs. cement used in cement mortar as per directions of Engineer-in-Charge.					
Code	Description	Unit	Quantity	Rate	Amount	
	Detail of cost for per bag of 50 kg of cement used in mortar					
	Materials:-					
12061	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	0.125	R410.00	R 51.25	

	Labour:-				
0212	Coolie	Day	0.01	R310.00	R 1.55
					R 52.80
	Add for water charges	@	1.00%	R52.80	R 0.53
					R 53.33
	Add GST (multiplying factor)		0.1405	R53.33	R 7.49
					R 60.82
	Add for contractor's profit and overheads	@	15.00%	R60.82	R 9.12
					R 69.94
	Add cess	@	0.01	R69.94	R 0.70
	Cost per bag of 50 kg of cement				R 70.64
	Say				R 70.60

12.61	6 mm plaster on cement concrete or reinforced cement concrete work with white cement based polymer modified self curing mortar of approved make as per the direction of Engineer In-Charge.						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 10 sqm						
	Materials:-						
12062	White cement based polymer modified self curing compound in powder form i/c 2% wastage	Kg	46.00	R15.00	R 690.00		
	Labour:-						
0218*	Mason (average)	Day	0.51	R420.00	R 214.20		
0212	Coolie	Day	0.75	R310.00	R 232.50		
					R 1136.70		
	Add for sundries and contingencies including cost for removing burrs, cleaning with wire brushes and pock making with pointed tools etc., scaffolding and carriage of materials etc. {Lumpsum}	@	4.25%	R1136.70	R 48.31		
					R 1185.01		
	Add for water charges	@	1.00%	R1185.01	R 11.85		
					R 1196.86		
	Add GST (multiplying factor)		0.1405	R1196.86	R 168.16		
					R 1365.02		
	Add for contractor's profit and overheads	@	15.00%	R1365.02	R 204.75		
					R 1569.77		
	Add cess	@	1.00%	R1569.77	R 15.70		
	Cost of 10 sqm.				R 1585.47		
	Cost of 1 Sqm.				R 158.55		
	Say				R 158.60		

12.62	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming coat of ready mixed zinc chromate yellow primer on new work [Payment shall be made after submission of Test Certificate issued by the Manufacturer]:							
12.62.1	75 mm diameter pipes							
Code	Description	Unit	Quantity	Rate	Amount			
	Detail of cost for 30 metres							
	Area=22/7 x0.0814m x30m =7.67 sqm							
	Materials:-							
12001	Red oxide Zinc chromate primer	Litre	0.41	R100.00	R 41.00			
	Labour:-							
0227	Painter	Day	0.18	R395.00	R 71.10			
0212	Coolie	Day	0.18	R310.00	R 55.80			
	Materials:-							
12008	Anticorrosive bituminous paint (black)	Litre	0.73	R110.00	R 80.30			

	Labour:-				
0227	Painter	Day	0.41	R395.00	R 161.95
0212	Coolie	Day	0.41	R310.00	R 127.10
					R 537.25
	Add for sundries and contingencies including extra for delays, wire brushes for cleaning, cost for putty, brushes, sand paper etc. and carriage of materials etc. {Lumpsum]	@	15.00%	R537.25	R 80.59
					R 617.84
	Add for water charges	@	1.00%	R617.84	R 6.18
	·				R 624.02
	Add GST (multiplying factor)		0.1405	R624.02	R 87.67
					R 711.69
	Add for contractor's profit and overheads	@	15.00%	R711.69	R 106.75
					R 818.44
	Add cess	@	1.00%	R818.44	R 8.18
	Cost of 30 metres				R 826.62
	Cost of 1 metre.				R 27.55
	Say				R 27.60

12.63	Painting (two or more coats) on rain water, soil waste and vent pipes and fittings with aluminium paint of approved brand and manufacture over a priming coat of ready mixed zinc chromate yellow primer on new work [Payment shall be made after submission of Test Certificate issued by the Manufacturer]:						
12.63.1	75 mm diameter pipes						
Code	Description	Unit	Quantity	Rate	Amount		
	Detail of cost for 30 metres Area=22/7 x0.0814m x30m =7.67 sqm						
	Materials:-						
12001	Red oxide Zinc chromate primer	Litre	0.41	R100.00	R 41.00		
	Labour:-						
0227	Painter	Day	0.18	R395.00	R 71.10		
0212	Coolie	Day	0.18	R310.00	R 55.80		
	Materials:-						
12005	Aluminium paint	Litre	0.61	R160.00	R 97.60		
	Labour:-						
0227	Painter	Day	0.41	R395.00	R 161.95		
0212	Coolie	Day	0.41	R310.00	R 127.10		
					R 554.55		
	Add for sundries and contingencies including extra for delays, wire brushes for cleaning, cost for putty, brushes, sand paper etc. and carriage of materials etc. {Lumpsum]	@	16.75%	R554.55	R 92.89		
					R 647.44		
	Add for water charges	@	1.00%	R647.44	R 6.47		
					R 653.91		
	Add GST (multiplying factor)		0.1405	R653.91	R 91.87		
					R 745.78		
	Add for contractor's profit and overheads	@	15.00%	R745.78	R 111.87		
					R 857.65		
	Add cess	@	1.00%	R857.65	R 8.58		
	Cost of 30 metres				R 866.23		
	Cost of 1 metre.				R 28.87		
					D 00 00		

12.63.2	100 mm diameter pipes				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 metres Area = 22/7x106.4 mmx30 m = 10.032 sqm				
	Materials:-				

12001	Red oxide Zinc chromate primer	Litre	0.54	R100.00	R 54.00
	Labour:-				
0227	Painter	Day	0.24	R395.00	R 94.80
0212	Coolie	Day	0.24	R310.00	R 74.40
	Materials:-				
12005	Aluminium paint	Litre	1.16	R160.00	R 185.60
	Labour:-				
0227	Painter	Day	0.54	R395.00	R 213.30
0212	Coolie	Day	0.54	R310.00	R 167.40
					R 789.50
	Add for sundries and contingencies including extra for delays, wire brushes for cleaning, cost for putty, brushes, sand paper etc. and carriage of materials etc. {Lumpsum]	@	17.00%	R789.50	R 134.22
					R 923.72
	Add for water charges	@	1.00%	R923.72	R 9.24
					R 932.96
	Add GST (multiplying factor)		0.1405	R932.96	R 131.08
					R 1064.04
	Add for contractor's profit and overheads	@	15.00%	R1064.04	R 159.61
					R 1223.65
	Add cess	@	1.00%	R1223.65	R 12.24
	Cost of 30 metres				R 1235.89
	Cost of 1 metre.				R 41.20
	Say				R 41.20

12.63.3	150 mm diameter pipes				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 metres				
	Area = 22/7x157.2 mmx30 m = 14.82 sqm				
	Materials:-				
12001	Red oxide Zinc chromate primer	Litre	0.80	R100.00	R 80.00
	Labour:-				
0227	Painter	Day	0.36	R395.00	R 142.20
0212	Coolie	Day	0.36	R310.00	R 111.60
	Materials:-				
12005	Aluminium paint	Litre	1.72	R160.00	R 275.20
	Labour:-				
0227	Painter	Day	0.80	R395.00	R 316.00
0212	Coolie	Day	0.80	R310.00	R 248.00
					R 1173.00
	Add for sundries and contingencies including extra for delays, wire brushes for cleaning, cost for putty, brushes, sand paper etc. and carriage of materials etc. {Lumpsum]	@	17.50%	R1173.00	R 205.28
					R 1378.28
	Add for water charges	@	1.00%	R1378.28	R 13.78
	i i				R 1392.06
	Add GST (multiplying factor)		0.1405	R1392.06	R 195.58
					R 1587.64
	Add for contractor's profit and overheads	@	15.00%	R1587.64	R 238.15
					R 1825.79
	Add cess	@	1.00%	R1825.79	R 18.26
	Cost of 30 metres				R 1844.05
	Cost of 1 metre.				R 61.47
	Say				R 61.50

Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade [Payment shall be made after submission of Test Certificate issued by the Manufacturer].

Details of cost for 10 sqm

	Materials:-				
12009	Black Japan paint	Litre	0.70	R100.00	R 70.00
	Labour:-				
0227	Painter	Day	0.36	R395.00	R 142.20
0212	Coolie	Day	0.36	R310.00	R 111.60
					R 323.80
	Add for sundries and contingencies including Carriage, cost of putty, brushes and sand paper etc. [Lumpsum]	@	6.50%	R323.80	R 21.05
					R 344.85
	Add for water charges	@	1.00%	R344.85	R 3.45
					R 348.30
	Add GST (multiplying factor)		0.1405	R348.30	R 48.94
					R 397.24
	Add for contractor's profit and overheads	@	15.00%	R397.24	R 59.59
					R 456.83
	Add cess	@	1.00%	R456.83	R 4.57
	Cost of 10 sqm				R 461.40
	Cost of 1 sqm.				R 46.14
	Say				R 46.10

12.65	Varnishing with varnish of approved brand and manufacture [Payment shall be made after								
12.00	submission of Test Certificate issued by the N	/lanufac	turer]:						
12.65.1	One or more coats with copal varnish								
Code	Description	Unit	Quantity	Rate	Amount				
	Details of cost for 10 sqm								
	Materials:-								
12038	Superior copal varnish	Litre	0.70	R130.00	R 91.00				
	Labour:-								
0227	Painter	Day	0.36	R395.00	R 142.20				
0212	Coolie	Day	0.36	R310.00	R 111.60				
					R 344.80				
	Add for sundries and contingencies including								
	Carriage, Repair to the surface, cost of	@	4.30%	R344.80	R 14.83				
	Brushes, sand paper etc. (Lumpsum)								
	and the second s				R 359.63				
	Add for water charges	@	1.00%	R359.63	R 3.60				
	Nac for water enarges		1.00%	11000.00	R 363.23				
	Add GST (multiplying factor)		0.1405	R363.23	R 51.03				
	l la la la la la la la la la la la la la				R 414.26				
	Add for contractor's profit and overheads	@	15.00%	R414.26	R 62.14				
					R 476.40				
	Add cess	@	1.00%	R476.40	R 4.76				
	Cost of 10 sqm				R 481.16				
	Cost of 1 sqm.				R 48.12				
	Say				R 48.10				

12.65.2	One or more coats with spar varnish				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 sqm				
	Materials:-				
12039	Superior spar varnish	Litre	0.75	R130.00	R 97.50
	Labour:-				
0227	Painter	Day	0.36	R395.00	R 142.20
0212	Coolie	Day	0.36	R310.00	R 111.60
					R 351.30
	Add for sundries and contingencies including Carriage, Repair to the surface, cost of Brushes, sand paper etc. {Lumpsum]	@	3.80%	R351.30	R 13.35
					R 364.65

Add for water charges	@	1.00%	R364.65	R 3.65
				R 368.30
Add GST (multiplying factor)		0.1405	R368.30	R 51.75
				R 420.05
Add for contractor's profit and overheads	@	15.00%	R420.05	R 63.01
				R 483.06
Add cess	@	1.00%	R483.06	R 4.83
Cost of 10 sqm				R 487.89
Cost of 1 sqm.				R 48.79
Say			•	R 48.80

12.66	Melamine polishing on wood work (one or more coat) [Payment shall be made after										
		submission of Test Certificate issued by the Manufacturer].									
Code	Description	Unit	Quantity	Rate	Amount						
	Details of cost for 10 sqm										
	Materials:-										
12064	Melamine polish	Litre	0.65	R280.00	R 182.00						
0135	Hire charges of Spraying machine including electric charges	Day	0.78	R280.00	R 218.40						
	Labour:-										
0227	Painter	Day	0.35	R395.00	R 138.25						
0203	Belder	Day	0.35	R310.00	R 108.50						
					R 647.15						
	Add for sundries and contingencies including Carriage charge of Machine & Marerials. {Lumpsum}	@	2.15%	R647.15	R 13.91						
					R 661.06						
	Add for water charges	@	1.00%	R661.06	R 6.61						
					R 667.67						
	Add GST (multiplying factor)		0.1405	R667.67	R 93.81						
					R 761.48						
	Add for contractor's profit and overheads	@	15.00%	R761.48	R 114.22						
					R 875.70						
	Add cess	@	1.00%	R875.70	R 8.76						
	Cost of 10 sqm				R 884.46						
	Cost of 1 sqm.				R 88.45						
	Say				R 88.50						

SUB HEAD: 13.0 REPAIRS TO BUILDING

- 1 Sand can be either coarse or fine as required/available. Here, provision of fine sand is considered only due to non-availability of coarse sand in Tripura. However, design of concrete dictates for use of coarse sand, then seperate analysis may be made as per site condition.
- The rates are inclusive of form work i.e. inclusive of all necessary centring / staging, shuttering, scaffolding etc., removal of form work and with all such arrangements as specified in CPWD's specification.
- 3 Manual mixing of cement mortars have been considered here. However, for using of mechanical mixer, the cost will differ with manual mixing as per item no.3.17.
- 4 Description of items has been given very briefly. Relevant clauses of CPWD's specifications may be referred for detailed specification.
- Rates of all materials used in the analysis are at the site of work which is including the cost for loading, unloading and haulage.
- Green work shall be protected from the effects of sun and rain by suitable covering and also from damage, mortar dropping etc.during the execution of the work. Masonry work in cement or composite mortar shall be kept constantly moist on all faces for a minimum period of seven days.

EARTH WORK

13.1 Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.

	the like.	ı					
Code	Description	Unit	Quantity		Rate		Amount
	Details for 10.91 kilolitre Pumping hours 3 hrs. or 0.375 days	kilo litre					
0117	Hire charges of Pumpset of capacity 4000 litres/hour	day	0.375	₹	720.00	₹	270.00
	a. Labours:						
0203	Belder for clearing slush	Day	2.00	₹	310.00	₹	620.00
	b. Water charges: @ 1% on total.	1%	on	₹	890.00	₹	8.90
	c. Sundries & contingencies: @ 3% on total.	3%	on	₹	898.90	₹	26.97
						₹	925.87
	Add GST (multiplying factor)		0.1405			₹	130.08
						₹	1,055.95
	Add for contractor's profit and overheads	@	15%			₹	158.39
						₹	1,214.34
	Add cess	@	1%			₹	12.14
		Total cost f	or 1 kilo litre		Total	₹	1,226.48
						₹	112.42
					Say,	₹	112.40

SCAFFOLDING WORK

13.2 Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.

Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for area 22.5m x 9.0m = 202.5 sqm	sqm			
	A. Materials : Scaffolding Assuming shuttering material will become unserviceable after use of 40 times				
13011	Base jack 7x2=14 nos	each	14	₹ 170.00	₹ 2,380.00

09013	Mild steel tubes hot finished welded type 40mm dia M.S. Tube Vertical standard 2.5m length = 7x2x9x2.5 = 315.00 m Bracing ledder 1.5m length = 7x2x9x4.0873 = 513.00 m Side support 6.00m length = 3x2x6.00 = 36.00 m Horizontal support 3.00m length = 18x3x3.00 = 162.00 m Total = 1026.00m @ 3.67 kg/m = 3765.42 kg	kg	3765.42	₹	55.00	₹	2,07,098.10
13012	Spigot for standard jointing 7x2x9 = 126 nos x 0.40m length = 50.40m 50.40m @ 2.46kg/m = 123.98kg	kg	123.98	₹	48.00	₹	5,951.04
05017	Bolts and nuts upto 300 mm in length 2x7x2x9 = 252 nos @ 0.15 kg each = 37.80 kg = 0.378 q	qtI.	0.378	₹	5,040.00	₹	1,905.12
05023	Double coupler $2x3x2 + 2x18x3 = 120 \text{ nos}$	each	120	₹	48.00	₹	5,760.00
13013	Challies 3 nos x 18 lines = 54 nos Two level plate challies = 2x 18 lines = 36 nos, Total = 90 nos	each	90	₹	850.00	₹	76,500.00
13014	Cup lock Vertical standards 5x7x2x9 = 630.00 Nos. 2x18x19 = 684 Nos. Total =1314 Nos.	each	1314	₹	55.00	₹	72,270.00
				Т	OTAL (A)	₹	3,71,864.26
	Add 10% for maintenance on A				(B)	₹	37,186.43
	Less 25% salvage value on A				(C)	₹	,
			TOTAL (A+E	3+C)		₹	3,16,084.62
	Considering that scaffolding shall be unserviceable after using 40 times, cost of using once	each			(S)	₹	7,902.12
	Cost of scaffolding B. Carriage	each	1	₹	7,902.12	₹	7,902.12
0468	Carriage of Steel 40mm dia MS pipe = 3765.42 kg 25mm spigot = 123.98 kg Nuts & bolts = 37.80 kg Clamp = 120 nos @ 1.00kg each = 120.00 kg Challies = 90 nos @ 15.00kg each = 1350.00 kg Cup locks = 1314 nos @ 0.50kg each = 657.00 kg Total = 6054.20 kg = 6.054 tonne	tonne	6.054	₹	102.47	₹	620.35
	c. Labours:						
0215	Fitter (grade 1)	Day	20.00	₹	440.00	₹	8,800.00
0203	Beldar	Day	40.00	₹	310.00	₹	12,400.00
	b. Water charges & electricity: @ 1.5% on total.	1.5%	on	₹	29,722.47	₹	445.84
	c. Sundries & contingencies: @ 30% on total.	30%	on	₹	30,168.31	₹	9,050.49
	Add GST (multiplying factor)		0.1405			₹	31,316.68 4,399.99
	Add 651 (multiplying factor)		0.1405			₹	35,716.67
	Add for contractor's profit and overheads	@	15%			₹	5,357.50
	The state of the s					₹	41,074.17
	Add cess	@	1%			₹	410.74
					Total	₹	41,484.91
		Total cos	st for 1 sqm			₹	204.86

ROUTINE MAINTENANCE WORK

Say, **₹ 204.90**

13.3 Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank, including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba, all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 tanks 1 tank is of 500 litres capacity i.e. 5000 litres	litre					
	MATERIAL						
19001	Bleaching powder	qtI.	0.025	₹	2,200.00	₹	55.00
0446	Carriage of Rubbish (asuming 0.040m depth of silt)	Day	0.25	₹	102.56	₹	25.64
	Marking with paint i/c removal of existing markings	LS				₹	52.00
	a. Labours:						
0215	Assistant Fitter or 2nd class Fitter for opening ball cock wheel valve and other fittings	Day	1.00	₹	440.00	₹	440.00
0203	Beldar for cleaning disinfecting etc	Day	1.00	₹	310.00	₹	310.00
	b. Water charges: @ 1% on total.	1%	on	₹	882.64	₹	8.83
	c. Sundries & contingencies: @ 3% on total.	3%	on	₹	891.47	₹	26.74
						₹	918.21
	Add GST (multiplying factor)		0.1405			₹	129.01
						₹	1,047.22
	Add for contractor's profit and overheads	@	15%			₹	157.08
						₹	1,204.30
	Add cess	@	1%		T	₹	12.04
					Total	₹	1,216.34
		Total cos	st for 1 litre			₹	0.24
					Say,	₹	0.20

13.4 Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Nos.	each					
	a. Labours:						
0234	Sewerman	Day	1.00	₹	355.00	₹	355.00
	b. Water charges: @ 1% on total.	1%	on	₹	355.00	₹	3.55
	c. Sundries & contingencies T & P Bamboo, bucket, wheel barrow etc.: @ 5% on total.	5%	on	₹	358.55	₹	17.93
						₹	376.48
	Add GST (multiplying factor)		0.1405			₹	52.90
						₹	429.38
	Add for contractor's profit and overheads	@	15%			₹	64.41
						₹	493.79
	Add cess	@	1%			₹	4.94
			•		Total	₹	498.73
		Total co	st for each			₹	49.87
					Say,	₹	49.90

13.5 Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm dia for all depth.

Code	Description	Unit	Quantity		Rate		Amount
•	Details of Cost for 208 metres	litre					
	MATERIAL						
13015	Water for jetting / blowback Machineries	1000 Itr.	0.025	₹	1,500.00	₹	0.04
0134	Hire Charges of Suction Jeting machine 2200 PSI machine including POL and operator	Day	1.00	₹	37,000.00	₹	37,000.00
	a. Labours:						
0233	Technician	Day	1.00	₹	750.00	₹	750.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	4.00	₹	440.00	₹	1,760.00

b. Water charges: @ 1% on total.	1%	on	₹	39,510.04	₹	395.10
c. Sundries & contingencies i/c Soap, brush, cloths: @ 3% on total	3%	on	₹	39,905.14	₹	1,197.15

				₹	41,102.29
Add GST (multiplying factor)		0.1405		₹	5,774.87
				₹	46,877.16
Add for contractor's profit and overheads	@	15%		₹	7,031.57
				₹	53,908.73
Add cess	@	1%		₹	539.09
		•	Total	₹	54,447.82

Total cost for 1 metre ₹ 261.77 ₹ 261.80 Say,

- 13.6 Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:
 - (i)Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits.
 - (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water.
 - (iii) Chlorination of RCC internal surface by liquid chlorine.
 - (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface.
 - (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-

Code	Description	Unit	Quantity		Rate		Amount
	Let a underground tank of capacity 272000 litre or 272 KL and area of tank is 570sqm (a) Dewater and slit cleaning Considering through pumping 20% of water to be lifted, water discharge =(272 x 20/100=54.40KL) Cost of pumping water with pump of capacity 4000 litres per hours, = (54.4/4 = 13.6 hours = @ 8 hours/day = 1.7 day	sqm					
0117	Hire charges of Pump set of capacity 4000 litres/hour	Day	1.70	₹	657.00	₹	1,116.90
0203	Beldar (b) Scrabing the internal surface of tank	Day	10.88	₹	310.00	₹	3,372.80
0203	Beldar	Day	5.13	₹	310.00	₹	1,590.30
0212	Coolie	Day	2.28	₹	310.00	₹	706.80
0205	Waterman	Day	2.28	₹	310.00	₹	706.80
	(c) Bleaching						
19001	Bleaching powder	qtl.	0.570	₹	2,200.00	₹	1,254.00
0135	Hire charges of Spraying machine including electric charges	Day	14.25	₹	285.00	₹	4,061.25
0230	Sprayer (for bitumen, tar etc.) (d) Air jetting	Day	14.25	₹	355.00	₹	5,058.75
0136	Air compressor	hour	2.00	₹	230.00	₹	460.00
0203	Beldar	Day	0.25	₹	310.00	₹	77.50
	(e) Ultra Violet Radiation	,					
0137	Using cost of Ultra Violet Radiation tube	hour	0.50	₹	230.00	₹	115.00
0203	Beldar	Day	0.06	₹	310.00	₹	19.38
	e. Water charges: @ 1% on total.	1%	on	₹	18,539.48	₹	185.39
	f. Sundries & contingencies etc.: @ 5% on total.	5%	on	₹	18,724.87	₹	936.24
						₹	19,661.11
	Add GST (multiplying factor)		0.1405			₹	2,762.39
	Add for contractor's profit and overheads	@	15%			₹	22,423.50 3,363.53
	Add for contractor's profit and overfleads	<u> </u>	1 J /0			₹	25,787.03
	Add cess	@	1%			₹	257.87
					Total	₹	26,044.90
		Total cos	st for 1sqm			₹	45.69

13.7 Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineerin-charge.

Code	Description	Unit	Quantity	Rate	Amount

Details of cost for 1 No

each

₹

Say,

45.70

a. Labours:

	For disconnecting & dismantling of existing W/s line of water storage tanks on terrace of Otrs						
0215	Assistant Fitter or 2nd class Fitter	Day	0.10	₹	440.00	₹	44.00
0203	Beldar	Day	0.10	₹	310.00	₹	31.00
	For Bringing the tank at Ground Level						
0203	Beldar	Day	0.20	₹	310.00	₹	62.00
	b. Water charges: @ 1% on total.	1%	on	₹	137.00	₹	1.37
	c. Sundries & contingencies: @ 3% on total.	3%	on	₹	138.37	₹	4.15
						₹	142.52
	Add GST (multiplying factor)		0.1405			₹	20.02
						₹	162.54
	Add for contractor's profit and overheads	@	15%			₹	24.38
						₹	186.92
	Add cess	@	1%			₹	1.87

Total cost for 1 no. ₹ 188.79

Total

Say, ₹ 188.80

13.8 Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material including malba, all complete as per the direction of Engineer-in charge.

13.8.1 Long pattern W.C Pan of size 580x440 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 No	each					
	MATERIAL						
18080	Vitreous china Indian type W.C. pan size 580 mm	Each	1.00	₹	430.00	₹	430.00
18084	Vitreous china foot rests 250x125x25 mm	pair	1.00	₹	90.00	₹	90.00
18183	Centrifugally sand cast (spun) S&S "P" or "S" trap	Each	1.00	₹	450.00	₹	450.00
	Cement & sand grit	LS	13.36	₹	2.00	₹	26.72
	Carriage of materials	LS	13.52	₹	2.00	₹	27.04
	Dismantled 'P' or 'S' trap scrap(app. Wt, 2kg	LS	-2.00	₹	22.00	₹	-44.00
	a. Labours:						
	(a) For dismantling WC seat and P or S trap						
0234	Sewerman	Day	0.05	₹	355.00	₹	17.75
0203	Beldar	Day	0.20	₹	310.00	₹	62.00
	(b) For Fixing WC seat and "P" or "S" trap						
0203	Beldar	Day	0.80	₹	310.00	₹	248.00
0220	Mason 2nd class	Day	0.80	₹	395.00	₹	316.00
	b. Water charges: @ 1% on total.	1%	on	₹	1,623.51	₹	16.24
	c. Sundries & contingencies Cement sand & grit etc.: @ 3% on total.	3%	on	₹	1,639.75	₹	49.19
						₹	1,688.94
	Add GST (multiplying factor)		0.1405			₹	237.30
			4.50/			₹	1,926.24
	Add for contractor's profit and overheads	@	15%			₹	288.94 2,215.18
	Add cess	@	1%			₹	22.15
	. 184 888		st for 1 no.			₹	2,237.33

Say, **₹ 2,237.30**

13.8.2 Orissa pattern W.C Pan of size 580x440 mm

Code	Description	Unit	Quantity	Rate	Amount

each

Details of cost for 1 No

MATERIAL

Say,

₹

3,004.60

18080	Vitreous china orrisa type W.C. pan size 580 mm	Each	1.00	₹	1,100.00	₹	1,100.00
18183	Centrifugally sand cast (spun) S&S "P" or "S" trap	Each	1.00	₹	450.00	₹	450.00
	Cement & sand grit	LS	13.36	₹	2.00	₹	26.72
	Carriage of materials	LS	13.52	₹	2.00	₹	27.04
	Dismantled 'P' or 'S' trap scrap(app. Wt, 2kg	LS	-2.00	₹	22.00	₹	-44.00
0	a. Labours:						
0	(a) For dismantling WC seat and P or S trap						
0234	Sewerman	Day	0.05	₹	355.00	₹	17.75
0203	Beldar	Day	0.13	₹	310.00	₹	38.75
0	(b) For Fixing WC seat and "P" or "S" trap						
0203	Beldar	Day	0.80	₹	310.00	₹	248.00
0220	Mason 2nd class	Day	0.80	₹	395.00	₹	316.00
	b. Water charges: @ 1% on total.	1%	on	₹	2,180.26	₹	21.80
	c. Sundries & contingencies Cement sand & grit etc.: @ 3% on total.	3%	on	₹	2,202.06	₹	66.06
						₹	2,268.12
	Add GST (multiplying factor)		0.1405			₹	318.67
	Add for contractors and it and contractors		1 = 0/	-		₹	2,586.79
	Add for contractor's profit and overheads	@	15%	-		₹	388.02 2,974.81
	Add cess	@	1%			₹	2,974.61
	nuu 6633		st for 1 no.			₹	3,004.56
		Total co	st for 1 no.			₹	3,004.56

13.9 Dismantling W.C. Pan of all sizes including disposal of dismantled materials including malba all complete as per directions of Engineer-in-Charge.

Code	Description	Unit	Quantity		Rate Amou		Amount
•	Details of cost for 1 No	each					
	a. Labours:						
0203	Beldar	Day	0.125	₹	310.00	₹	38.75
	b. Water charges: @ 1% on total.	1%	on	₹	38.75	₹	0.39
	c. Sundries & contingencies: @ 3% on total.	3%	on	₹	39.14	₹	1.17
						₹	40.31
	Add GST (multiplying factor)		0.1405			₹	5.66
						₹	45.97
	Add for contractor's profit and overheads	@	15%			₹	6.90
						₹	52.87
	Add cess	@	1%			₹	0.53
					Total	₹	53.40
•		Total co	st for 1 no.			₹	53.40
					Say,	₹	53.40

13.10 Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge.

13.10.1 Internal Work- Exposed on wall

Code	Description	Unit	Quantity		Rate		Amount
•	Details of cost for 10 metre	metre					_
	a. Labours:						
0203	Beldar	Day	0.050	₹	310.00	₹	15.50
	b. Water charges: @ 1% on total.	1%	on	₹	15.50	₹	0.16
	c. Sundries & contingencies: @ 3% on total.	3%	on	₹	15.66	₹	0.47
						₹	16.13
	Add GST (multiplying factor)		0.1405			₹	2.27
						₹	18.40
	Add for contractor's profit and overheads	@	15%			₹	2.76
						₹	21.16

Add cess	@	1%		₹	0.21
			Total	₹	21.37
	Total co	st for 1 m		₹	2.14
			Sav	₹	2 10

13.11 Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity		Rate		Amount
	Detail of Cost for 10 holes Size 0.30x0.30x0.23 m wall MATERIAL	each					
	12 mm plaster 1:4 (1 Cement: 4 Coarse sand) Actual Area (10x4x0.3x0.23) = 0.296 + 0.24 L.S. For corners/sides = 3.00 Sqm Rate as per Item No.12.1.2 of SH:FINISHING "A"	sqm	3.00	₹	150.50	₹	451.50
13016	PVC slotted pipe 200 mm dia as per IS: 12818	m	0.25	₹	820.00	₹	205.00
	a. Labours:						
0203	Beldar	Day	1.20	₹	310.00	₹	372.00
0220	Mason 2nd class	Day	0.35	₹	395.00	₹	138.25
	b. Water charges: @ 1% on total. Except A	1%	on	₹	715.25	₹	7.15
	c. Sundries & contingencies Cement sand & grit etc.: @ 5% on total. Except A	5%	on	₹	722.40	₹	36.12
						₹	1,210.02
	Add GST (multiplying factor)		0.1405			₹	170.01
						₹	1,380.03
	Add for contractor's profit and overheads	@	15%			₹	207.00
			4.07			₹	1,587.03
	Add cess	@	1%		Tatal	₹	15.87
		Tatal as	at fam 1 ma	<u> </u>	Total	₹	1,602.90
		Total co	st for 1 no.			₹	160.29
					Say,	₹	160.30

WOOD WORK

13.12 Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one shutter (2.2 sqm) Normal exiting size of shutter 1.00x2.02m =2.02sqm	each					
08066	MATERIAL Bright finished or black enameled mild steel screws 40 mm Assuming old hinges fixed in Tee iron frames Half qty = 48/2=24 needs replacement a. Labours:	100 Nos.	0.24	₹	63.00	₹	15.12
0210	Carpenter 2nd class	Day	0.18	₹	395.00	₹	71.10
0203	Beldar	Day	0.18	₹	310.00	₹	55.80
	b. Water charges: @ 1% on total.	1%	on	₹	142.02	₹	1.42
	c. Sundries & contingencies: @ 3% on total.	3%	on	₹	143.44	₹	4.30
						₹	147.74
	Add GST (multiplying factor)		0.1405			₹	20.76
						₹	168.50
	Add for contractor's profit and overheads	@	15%			₹	25.28
						₹	193.78
	Add cess	@	1%			₹	1.94
					Total	₹	195.72
		Total cos	t for 1 no.			₹	195.72
					Say,	₹	195.70

13.13 Fixing chowkhats in existing opening including embedding chowkhats in floors or walls, cutting masonry / RCC / CC for hold fasts, embedding hold fasts in cement concrete blocks with cement concrete 1:3:6 (1 cement:3 fine sand:6 graded well burnt brick aggregate 20 mm nominal size) painting two coats of coal tar to sides of chowkhats and making good the damages to walls and floors as required including disposal of rubbish to the dumping ground with all leads and lifts complete as per direction of the Engineer in charge:-

13.13.1 Door chowkhats.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 No.	Each					
	a. Materials:						
	CC 1:3:6 (Rate as per item No. 4.2.11) "A"	Cum	0.0317		6,656.30		211.00
	Painting with coal tar "B" (12.43 item)	Sqm	0.538	₹	34.50	₹	18.56
	White/ colour washing in repaired portion "C" (12.21 item)	sqm.	0.276	₹	20.10	₹	5.55
	b. Carriage:						
	Cement material	[already	included in				
	c. Labours:	_					
0224	Mate	Day	0.05	₹		₹	15.50
0220	Mason 2nd Class	Day	0.50	₹	395.00	₹	197.50
0203	Belder	Day	0.75	₹	310.00	₹	232.50
0212	Coolie (female)	Day	0.10	₹		₹	31.00
0205	Waterman	Day	0.10	₹	310.00	₹	31.00
	d. Chiesel, raking tools, wire brushes, pumps for water, scaffolding etc: (LS) ex/c "A", "B" $\&$ "C"	1.0%	on	₹	507.50	₹	5.08
	e. CC 1:2:4 to fill chases & CM 1:3 for repair etc (LS) ex/c "A", "B",&"C".	1.0%	on	₹	512.58	₹	5.13
	f. Water charges: @ 1% on total ex/c "A", "B",&"C".	1%	on	₹	517.71	₹	5.18
	g. Sundries & contingencies: @ 3% on total ex/c"A", "B",&"C".	3%	on	₹	522.89	₹	15.69
						₹	538.58
	Add GST (multiplying factor)		0.1405			₹	75.67
	Add 6-a saytostay's good to add		150/			₹	614.25
	Add for contractor's profit and overheads	@	15%			₹	92.14 706.39
	Add cess	@	1%			₹	7.06.39
	Aud (633	<u> </u>	1 /0		Total	₹	948.56
	1			<u> </u>	Say,	₹	948.60

13.13.2 Window chowkhats.

Code	Description	Unit	Quantity		Rate		Amount
·	Details of cost for 1 No.	Each					
	a. Materials:						
	CC 1:3:6 (Rate as per item No. 4.2.11) "A"	Cum	0.0212	₹	6,656.30	₹	141.11
	Painting with coal tar "B" (12.43 item)	Sqm	0.520	₹	34.50	₹	17.94
	White/ colour washing in repaired portion "C"	sqm.	0.092	₹	20.10	₹	1.85
	(12.21 item)	34111.	0.072	`	20.10	`	1.05
	b. Carriage:						
	Cement material	[already i	ncluded in				
	c. Labours:						
0224	Mate	Day	0.06	₹	310.00	₹	18.60
0220	Mason 2nd Class	Day	0.30	₹	395.00	₹	118.50
0203	Belder	Day	0.30	₹	310.00	₹	93.00
0212	Coolie (female)	Day	0.08	₹	310.00	₹	24.80
0205	Waterman	Day	0.08	₹	310.00	₹	24.80
	d. Chiesel, raking tools, wire brushes, pumps for	1 00/	0.00	_	270.70	•	2.00
	water, scaffolding etc: (LS) ex/c "A", "B" & "C"	1.0%	on	₹	279.70	₹	2.80
	e. CC 1:2:4 to fill chases & CM 1:3 for repair etc	1.0%	on	-	282.50	-	2.02
	(LS) ex/c "A", "B" & "C"	1.0%	on	₹	282.50	₹	2.83
	f. Water charges: @ 1% on total ex/c "A", "B" & "C"	1%	on	₹	285.33	₹	2.85

g. Sundries & contingencies: @ 3% on total ex/c "A", "B" & "C"	3%	on	₹ 288.18	₹	8.65
				₹	296.83
Add GST (multiplying factor)		0.1405		₹	41.70
				₹	338.53
Add for contractor's profit and overheads	@	15%		₹	50.78
				₹	389.31
Add cess	@	1%		₹	3.89
			Total	₹	554.10
			Say,	₹	554.10

13.13.3 Clerestory Window chowkhats.

13.13.3	Cierestory window chowknats.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 No.	Each		_			
	a. Materials:						
	CC 1:3:6 (Rate as per item No. 4.2.11) "A"	Cum	0.0106	₹	6,656.30		70.56
	Painting with coal tar "B" (12.43 item)	Sqm	0.320	₹	34.50	₹	11.04
	White/ colour washing in repaired portion "C"	sqm.	0.046	₹	20.10	₹	0.92
	(12.21 item)	J4111	0.010	`	20.10	`	3.72
	b. Carriage:						
	Cement material	[already i	ncluded in				
	c. Labours:	_					
0224	Mate	Day	0.04	₹		₹	12.40
0220	Mason 2nd Class	Day	0.25	₹		₹	98.75
0203	Belder	Day	0.25	₹	310.00	₹	77.50
0212	Coolie (female)	Day	0.08	₹		₹	24.80
0205	Waterman	Day	0.08	₹	310.00	₹	24.80
	d. Chiesel, raking tools, wire brushes, pumps for water, scaffolding etc: (LS) ex/c "A", "B" & "C" $$	1.0%	on	₹	238.25	₹	2.38
	e. CC 1:2:4 to fill chases & CM 1:3 for repair etc (LS) ex/c "A", "B" & "C" $$	1.0%	on	₹	240.63	₹	2.41
	f. Water charges: @ 1% on total ex/c "A", "B" & "C"	1%	on	₹	243.04	₹	2.43
	g. Sundries & contingencies: @ 3% on total ex/c "A", "B" & "C"	3%	on	₹	245.47	₹	7.36
						₹	252.83
	Add GST (multiplying factor)		0.1405			₹	35.52
			4.50/			₹	288.35
	Add for contractor's profit and overheads	@	15%			₹	43.25
	Add cess	@	1%			₹	331.60 3.32
	Aud Cess	<u>w</u>	1 /0		Total	₹	417.44
	<u> </u>				Say,	₹	417.44
					Juy	•	717.40

13.14 Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/ Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 chowkhat.	Each					
	a. Materials:						
11012	Dash fastner/ chemical fastener	each	6	₹	13.00	₹	78.00
	c. Labours:						
0220	Mason 2nd Class	Day	0.0084	₹	395.00	₹	3.32
0203	Belder	Day	0.0270	₹	310.00	₹	8.37
0212	Coolie (female)	Day	0.0195	₹	310.00	₹	6.05
0224	Mate	Day	0.0012	₹	310.00	₹	0.37
	d. Water charges: @ 1% on total	1%	on	₹	96.11	₹	0.96
	e. Sundries & contingencies i/c Hire charges of						
	drill machine hire charges, Scaffolding, malba:	5%	on	₹	97.07	₹	4.85
	@ 5% on total						
						₹	101.92
	Add GST (multiplying factor)		0.1405			₹	14.32

					₹	116.24
Add	for contractor's profit and overheads	@	15%		₹	17.44
					₹	133.68
Add	cess	@	1%		₹	1.34
				Total	₹	135.02
· · · · · · · · · · · · · · · · · · ·		•	•	Sav.	₹	135.00

Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per directions of Engineer-In-Charge.

13.15.1 For door/ window/ clerestory window

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one opening of size 0.90x2.10m = 1.89 sqm	sqm					
	a. Materials:						
	Cement mortar 1:6 (1 cement: 6 fine sand) Rate as per Item Number 3.1.6 of SH: Mortars	Cum	0.0100	₹	2,377.25	₹	23.77
	b. Carriage:						
	Cement material	[already i	ncluded in				
	c. Labours:						
0220	Mason 2nd Class	Day	0.50	₹		₹	197.50
0203	Belder	Day	1.20	₹		₹	372.00
0212	Coolie (female)	Day	0.40	₹	310.00	₹	124.00
	d. Chiesel, raking tools, wire brushes, pumps for water, scaffolding etc: (LS)	3.0%	on	₹	693.50	₹	20.81
	e. CC 1:2:4 to fill chases & CM 1:3 for repair etc (LS) ex/c "A", "B" & "C" $$	1.0%	on	₹	714.31	₹	7.14
	f. Water charges: @ 1% on total.	1%	on	₹	721.45	₹	7.21
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	728.66	₹	21.86
						₹	774.29
	Add GST (multiplying factor)		0.1405			₹	108.79
						₹	883.08
	Add for contractor's profit and overheads	@	15%			₹	132.46
						₹	1,015.54
	Add cess	@	1%		T	₹	10.16
		T-4-1	+ F 1	<u> </u>	Total	₹	1,025.70
		lotal cos	t for 1 sqm		Total	₹	542.70

₹ 542.70 Say,

Renewing glass panes, with putty and nails wherever necessary including racking out the old 13.16 putty:

13.16.1 Float glass panes of thickness 4 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 Sqm.	Sqm.					
	a. Materials:						
08146	Float glass panes of thickness 4 mm	Sqm.	1.100	₹	400.00	₹	440.00
13003	Putty for wood work	Kg.	0.700	₹	32.00	₹	22.40
	b. Carriage:						
	Glass panes of 4 mm thick	LS	1.5	₹	1.20	₹	1.80
	Putty for wood work	LS	0.5	₹	1.20	₹	0.60
	c. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0217	Glazier	Day	0.16	₹	440.00	₹	70.40
0203	Belder	Day	0.16	₹	310.00	₹	49.60
	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	₹	587.90	₹	5.88
	e. Painting or varnishing or bee waxing etc (LS)	1.0%	on	₹	593.78	₹	5.94
	f. Water charges: @ 1% on total.	1%	on	₹	599.72	₹	6.00
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	605.72	₹	18.17
						₹	623.89
	Add GST (multiplying factor)		0.1405			₹	87.66
						₹	711.55

Add for contractor's profit and overheads	@	15%		₹	106.73
				₹	818.28
Add cess	@	1%		₹	8.18
			Total	₹	826.46
			Sav	₹	826 50

13.16.2 Float glass panes of thickness 5.5 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 Sqm.	Sqm.					
	a. Materials:						
08147	Float glass panes of thickness 5.5 mm	Sqm.	1.100	₹	550.00	₹	605.00
13003	Putty for wood work	Kg.	0.700	₹	32.00	₹	22.40
	b. Carriage:						
	Float glass panes of thickness 5.5 mm	LS	1.75	₹	1.20	₹	2.10
	Putty for wood work	LS	0.50	₹	1.20	₹	0.60
	c. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0217	Glazier	Day	0.16	₹	440.00	₹	70.40
0203	Belder	Day	0.16	₹	310.00	₹	49.60
	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	₹	753.20	₹	7.53
	e. Painting or varnishing or bee waxing etc (LS)	1.%	on	₹	760.73	₹	7.61
	f. Water charges: @ 1% on total.	1%	on	₹	768.34	₹	7.68
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	776.02	₹	23.28
						₹	799.30
	Add GST (multiplying factor)		0.1405			₹	112.30
			1 = 0/			₹	911.60
	Add for contractor's profit and overheads	@	15%			₹	136.74
	Add cess	@	1%			₹	1,048.34 10.48
	nuu ccss	<u> </u>	1 70		Total	₹	1,058.82
	1				Say,	₹	1,058.80

13.17 Renewing glass panes, with wooden fillets wherever necessary:

13.17.1 Float glass panes of thickness 4 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 Sqm.	Sqm.					
	a. Materials:						
08146	Float glass panes of thickness 4 mm	Sqm.	1.100	₹	400.00	₹	440.00
	b. Carriage:						
	Float glass panes of thickness 4 mm	LS	1.50	₹	1.20	₹	1.80
	c. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0217	Glazier	Day	0.25	₹	440.00	₹	110.00
0203	Belder	Day	0.25	₹	310.00	₹	77.50
	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	₹	635.50	₹	6.36
	e. Painting or varnishing or bee waxing etc (LS)	1%	on	₹	641.86	₹	6.42
	f. Water charges: @ 1% on total.	1%	on	₹	648.28	₹	6.48
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	654.76	₹	19.64
						₹	674.40
	Add GST (multiplying factor)		0.1405			₹	94.75
						₹	769.15
	Add for contractor's profit and overheads	@	15%			₹	115.37
						₹	884.52
	Add cess	@	1%			₹	8.85
					Total	₹	893.37
					Say,	₹	893.40

13.17.2 Float glass panes of thickness 5.5 mm

Code	Description	Unit	Quantity		Rate		Amount
•	Details of cost for 1 Sqm.	Sqm.	•		•		
	a. Materials:						
08147	Float glass panes of thickness 5.5 mm	Sqm.	1.100	₹	550.00	₹	605.00
	b. Carriage:						
	Float glass panes of thickness 5.5 mm	LS	1.75	₹	1.20	₹	2.10
	c. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0217	Glazier	Day	0.25	₹	440.00	₹	110.00
0203	Belder	Day	0.25	₹	310.00	₹	77.50
	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	₹	800.80	₹	8.01
	e. Painting or varnishing or bee waxing etc (LS)	1.0%	on	₹	808.81	₹	8.09
	f. Water charges: @ 1% on total.	1%	on	₹	816.90	₹	8.17
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	825.07	₹	24.75
						₹	849.82
	Add GST (multiplying factor)		0.1405			₹	119.40
						₹	969.22
	Add for contractor's profit and overheads	@	15%			₹	145.38
						₹	1,114.60
	Add cess	@	1%			₹	11.15
					Total	₹	1,125.75
					Say,	₹	1,125.80

13.18 Renewing glass panes and refixing existing wooden fillets:

13.18.1 Float glass panes of thickness 4 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 Sqm.	Sqm.					
	a. Materials:						
08146	Float glass panes of thickness 4 mm	Sqm.	1.100	₹	400.00	₹	440.00
	b. Carriage:						
	Float glass panes of thickness 4 mm	LS	1.50	₹	1.20	₹	1.80
	c. Labours:						
0217	Glazier	Day	0.30	₹	440.00	₹	132.00
0203	Belder	Day	0.30	₹	310.00	₹	93.00
	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	₹	666.80	₹	6.67
	e. Painting or varnishing or bee waxing,	1%	on	₹	673.47	=	6.73
	Methylated sprit etc (LS)	1 /0	on	•	0/3.4/	•	0.73
	f. Water charges: @ 1% on total.	1%	on	₹	680.20	₹	6.80
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	687.00	₹	20.61
						₹	707.61
	Add GST (multiplying factor)		0.1405			₹	99.42
						₹	807.03
	Add for contractor's profit and overheads	@	15%			₹	121.05
						₹	928.08
	Add cess	@	1%			₹	9.28
					Total	₹	937.36
					Say,	₹	937.40

13.18.2 Float glass panes of thickness 5.5 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 Sqm.	Sqm.					_
	a. Materials:						
08147	Float glass panes of thickness 5.5 mm	Sqm.	1.100	₹	550.00	₹	605.00
	b. Carriage:						
	Float glass panes of thickness 5.5 mm	LS	1.75	₹	1.20	₹	2.10
	c. Labours:						
0217	Glazier	Day	0.25	₹	440.00	₹	110.00
0203	Belder	Day	0.25	₹	310.00	₹	77.50
	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	₹	794.60	₹	7.95
	e. Painting or varnishing or bee waxing, Methylated sprit etc (LS)	1.0%	on	₹	802.55	₹	8.03

f. Water charges: @ 1% on total.	1%	on	₹	810.58	₹	8.11
g. Sundries & contingencies: @ 3% on total.	3%	on	₹	818.69	₹	24.56
					₹	843.25
Add GST (multiplying factor)		0.1405			₹	118.48
					₹	961.73
Add for contractor's profit and overheads	@	15%			₹	144.26
					₹	1,105.99
Add cess	@	1%			₹	11.06
				Total	₹	1,117.05
				Cov	-	1 117 10

Say, 1,117.10

13.19 Supplying and fixing new wooden fillets wherever necessary:

13.19.1 Local teak wood fillets.

			•	_		_	
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Mtr.	Mtr.					
	a. Materials:						
13005	Local teak wood fillets.	Cum.	0.0011	₹	44,050.00	₹	48.46
	b. Carriage:						
0473	Local teak wood fillets.	Cum.	0.0011	₹	74.50	₹	0.08
	c. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0210	Carpenter 2nd class	Day	0.25	₹	395.00	₹	98.75
0212	Helper	Day	0.10	₹	310.00	₹	31.00
	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	₹	181.39	₹	1.81
	e. Painting or varnishing or bee waxing etc (LS)	15.0%	on	₹	183.20	₹	27.48
	f. Water charges: @ 1% on total.	1%	on	₹	210.68	₹	2.11
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	212.79	₹	6.38
						₹	219.17
	Add GST (multiplying factor)		0.1405			₹	30.79
						₹	249.96
	Add for contractor's profit and overheads	@	15%			₹	37.49
						₹	287.45
	Add cess	@	1%			₹	2.87
					Total	₹	290.32
		Total cos	st for 1 Mtr.			₹	29.03
					Say,	₹	29.00

13.19.2 Gamair wood fillets.

13006	Details of cost for 10.00 Mtr.	N / 1			Rate		Amount
13006		Mtr.					
	a. Materials:						
	Gamir wood fillets.	Cum.	0.0011	₹	48,056.00	₹	52.86
ļ	b. Carriage:						
0473	Gamir wood fillets.	Cum.	0.0011	₹	74.50	₹	0.08
(c. Labours:						
0224 I	Mate	Day	0.01	₹	310.00	₹	3.10
0210	Carpenter 2nd class	Day	0.25	₹	395.00	₹	98.75
0212 l	Helper	Day	0.10	₹	310.00	₹	31.00
•	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	₹	185.79	₹	1.86
(e. Painting or varnishing or bee waxing etc (LS)	15.0%	on	₹	187.65	₹	28.15
f	f. Water charges: @ 1% on total.	1%	on	₹	215.80	₹	2.16
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	217.96	₹	6.54
						₹	224.50
	Add GST (multiplying factor)		0.1405			₹	31.54
						₹	256.04
ļļ.	Add for contractor's profit and overheads	@	15%			₹	38.41
<u> </u>			1			₹	294.45
<u> </u>	Add cess	@	1%			₹	2.94
<u>_</u>			t for 1 Mtr		Total	₹	297.39

Total cost for 1 Mtr. 29.74

₹ Say, 29.70

13.19.3 Soft wood fillets

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Mtr.	Mtr.					
	a. Materials:						
13007	Soft wood fillets.	Cum.	0.0011	₹	18,145.00	₹	19.96
	b. Carriage:						
0473	Soft wood fillets.	Cum.	0.0011	₹	74.50	₹	0.08
	c. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0210	Carpenter 2nd class	Day	0.25	₹	395.00	₹	98.75
0212	Helper	Day	0.10	₹	310.00	₹	31.00
	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	₹	152.89	₹	1.53
	e. Painting or varnishing or bee waxing etc (LS)	15.0%	on	₹	154.42	₹	23.16
	f. Water charges: @ 1% on total.	1%	on	₹	177.58	₹	1.78
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	179.36	₹	5.38
						₹	184.74
	Add GST (multiplying factor)		0.1405			₹	25.96
						₹	210.70
	Add for contractor's profit and overheads	@	15%			₹	31.61
						₹	242.31
	Add cess	@	1%			₹	2.42
					Total	₹	244.73
		Total cos	st for 1 Mtr.			₹	24.47
					Sav.	₹	24.50

13.20 Renewal of old putty of glass panes (length).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Mtr.	Mtr.					
	a. Materials:						
13003	Putty for wood work	Kg.	0.8400	₹	32.00	₹	26.88
	b. Carriage:						
0.00	Putty for wood work	LS	0.5	₹	1.20	₹	0.60
	c. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0210	Carpenter 2nd class	Day	0.15	₹	395.00	₹	59.25
0212	Helper	Day	0.10	₹	310.00	₹	31.00
	d. Rags cotton, scaffolding etc: (LS)	1.0%	on	₹	120.83	₹	1.21
	e. Painting or varnishing or bee waxing etc (LS)	1.0%	on	₹	122.04	₹	1.22
	f. Water charges: @ 1% on total.	1%	on	₹	123.26	₹	1.23
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	124.49	₹	3.73
						₹	128.22
	Add GST (multiplying factor)		0.1405			₹	18.01
						₹	146.23
	Add for contractor's profit and overheads	@	15%			₹	21.93
						₹	168.16
	Add cess	@	1%			₹	1.68
					Total	₹	169.84
		Total cos	st for 1 Mtr.			₹	16.98

13.21 Refixing old glass panes with putty and nails.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1.00 Sqm.	Sqm.					
	a. Materials:						
13003	Putty for wood work	Kg.	0.7000	₹	32.00	₹	22.40
	b. Carriage:						
0.00	Putty for wood work	LS	0.5	₹	1.00	₹	0.50
	c. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0210	Carpenter 2nd class	Day	0.20	₹	395.00	₹	79.00

Say, ₹ 17.00

0212	Helper	Day	0.20	₹	310.00	₹	62.00
	d. Rags cotton, scaffolding etc: (LS)	1.0%	on	₹	170.10	₹	1.70
	e. Painting or varnishing or bee waxing etc (LS)	1.0%	on	₹	171.80	₹	1.72
	f. Water charges: @ 1% on total.	1%	on	₹	173.52	₹	1.74
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	175.26	₹	5.26
						₹	180.52
	Add GST (multiplying factor)		0.1405			₹	25.36
						₹	205.88
	Add for contractor's profit and overheads	@	15%			₹	30.88
						₹	236.76
	Add cess	@	1%			₹	2.37
					Total	₹	239.13
					Say,	₹	239.10

13.22 Fixing old glass panes with wooden fillets (excluding cost of fillets).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 Sqm.	Sqm.	•				
	a. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0217	Glazier	Day	0.20	₹	440.00	₹	88.00
0203	Belder	Day	0.20	₹	310.00	₹	62.00
	b. Nails, rags cotton, scaffolding etc: (LS)	10.0%	on	₹	156.20	₹	15.62
	c. Painting or varnishing or bee waxing etc (LS)	20.0%	on	₹	171.82	₹	34.36
	d. Water charges: @ 1% on total.	1%	on	₹	206.18	₹	2.06
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	208.24	₹	6.25
						₹	214.49
	Add GST (multiplying factor)		0.1405			₹	30.14
						₹	244.63
	Add for contractor's profit and overheads	@	15%			₹	36.69
						₹	281.32
	Add cess	@	1%			₹	2.81
					Total	₹	284.13
					Say,	₹	284.10

13.23 Renewing wooden battens in roofs, including making good the holes in wall and painting with oil type wood preservative of approved brand and manufacture as required including removal of rubbish to the dumping ground with all leads and lifts complete as per direction of the Engineer in charge:-

13.23.1 Sal wood.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 0.300 Cum.	Cum.					
	a. Materials:						
13008	Sal wood batten	Cum.	0.3060	₹	40,820.00	₹	12,490.92
	Painting with oil type wood preservative (item 12.41) "A"	Sqm.	36.00	₹	33.00	₹	1,188.00
	b. Carriage:						
0473	Sal wood batten	Cum.	0.3060	₹	74.50	₹	22.80
	c. Labours:						
0224	Mate	Day	0.06	₹	310.00	₹	18.60
0210	Carpenter 2nd class	Day	0.50	₹	395.00	₹	197.50
0212	Helper	Day	0.65	₹	310.00	₹	201.50
0220	Mason 2nd class	Day	0.10	₹	395.00	₹	39.50
0203	Belder	Day	0.10	₹	310.00	₹	31.00
0227	Painter	Day	0.10	₹	395.00	₹	39.50
	d. Nails, rags cotton, scaffolding etc: (LS) ex/c "A"	1.0%	on	##:	########	₹	130.41
	e. Water charges: @ 1% on total.	1%	on	##	########	₹	131.72
	f. Sundries & contingencies: @ 3% on total.	3%	on	##	########	₹	399.10
						₹	13,702.55
	Add GST (multiplying factor)		0.1405			₹	1,925.21

					₹	15,627.76
Add for contractor's profi	and overheads	@	15%		₹	2,344.16
					₹	17,971.92
Add cess		@	1%		₹	179.72
				Total	₹	19,339.64

Total cost for 1 Cum.

₹ 64,465.47

Say, **₹ 64,465.50**

13.23.2 Karai wood.

Code	Description	Unit	Quantity	Rate		Amount	
	Details of cost for 0.300 Cum.	Cum.					
	a. Materials:						
13009	Karai wood batten	Cum.	0.3060	₹	31,750.00	₹	9,715.50
	Painting with oil type wood preservative (item)	Sqm.	36.00	₹	33.00	₹	1,188.00
	b. Carriage:						
0473	Karai wood batten	Cum.	0.3060	₹	74.50	₹	22.80
	c. Labours:						
0224	Mate	Day	0.06	₹	310.00	₹	18.60
0210	Carpenter 2nd class	Day	0.50	₹	395.00	₹	197.50
0212	Helper	Day	0.65	₹	310.00	₹	201.50
0220	Mason 2nd class	Day	0.10	₹	395.00	₹	39.50
0203	Belder	Day	0.10	₹	310.00	₹	31.00
0227	Painter	Day	0.10	₹	395.00	₹	39.50
	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	##7	########	₹	102.66
	e. Water charges: @ 1% on total.	1%	on	##7	########	₹	103.69
	f. Sundries & contingencies: @ 3% on total.	3%	on	##7	########	₹	314.17
						₹	11,974.42
	Add GST (multiplying factor)		0.1405			₹	1,682.41
						₹	13,656.83
	Add for contractor's profit and overheads	@	15%			₹	2,048.52
						₹	15,705.35
	Add cess	@	1%			₹	157.05
					Total	₹	15,862.40

Total cost for 1 Cum.

₹ 52,874.67

Say, ₹ **52,874.70**

₹

Say,

33,552.60

13.23.3 Soft wood.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 0.300 Cum.	Cum.					
	a. Materials:						
13010	Soft wood batten	Cum.	0.3060	₹	18,140.00	₹	5,550.84
	Painting with oil type wood preservative (item)	Sqm.	36.00	₹	33.00	₹	1,188.00
	b. Carriage:						
0473	Soft wood batten	Cum.	0.3060	₹	74.50	₹	22.80
	c. Labours:						
0224	Mate	Day	0.06	₹		₹	18.60
0210	Carpenter 2nd class	Day	0.50	₹		₹	197.50
0212	Helper	Day	0.65	₹		₹	201.50
0220	Mason 2nd class	Day	0.10	₹		₹	39.50
0203	Belder	Day	0.10	₹		₹	31.00
0227	Painter	Day	0.10	₹	395.00	₹	39.50
	d. Nails, rags cotton, scaffolding etc: (LS)	1.0%	on	₹	6,101.24	₹	61.01
	e. Water charges: @ 1% on total.	1%	on	₹	6,162.25	₹	61.62
	f. Sundries & contingencies: @ 3% on total.	3%	on	₹	6,223.87	₹	186.72
						₹	7,598.59
	Add GST (multiplying factor)		0.1405			₹	1,067.60
		_				₹	8,666.19
	Add for contractor's profit and overheads	@	15%			₹	1,299.93
	Add		10/			₹	9,966.12
	Add cess	@	1%		Total	₹	99.66 10,065.78
		Total cos	t for 1 Cum	l	iUlai	₹	33,552.60
	Total cost for 1 Cum.					<	33,33Z. 0 U

Renewing wooden beams in roofs, including making good the holes in wall and painting with oil 13.24 type wood preservative of approved brand and manufacture as required including removal of rubbish to the dumping ground with all leads and lifts complete as per direction of the Engineer in charge:-

13.24.1 Not exceeding 4.0 metre in length:-

13.24.1.1 Sal wood.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 0.2625 Cum.	Cum.					
	a. Materials:						
08288	Sal wood beam	Cum.	0.2625	₹	67,000.00	₹	17,587.50
	Painting with oil type wood preservative (item)	Sqm.	4.00	₹	33.00	₹	132.00
	b. Carriage:						
0473	Sal wood beam	Cum.	0.2625	₹	74.50	₹	19.56
	c. Labours:						
0224	Mate	Day	0.10	₹	310.00	₹	31.00
0210	Carpenter 2nd class	Day	0.80	₹	395.00	₹	316.00
0212	Helper	Day	0.80	₹	310.00	₹	248.00
0220	Mason 2nd class	Day	0.15	₹	395.00	₹	59.25
0203	Belder	Day	0.75	₹	310.00	₹	232.50
0205	Waterman	Day	0.10	₹	310.00	₹	31.00
	d. Chiesels, nails, cement mortar, ropes, packing	0.750%	on	₹	18,524.81	₹	138.94
	pieces, scaffolding etc: (LS)	0.700%	OH	`	10,02 1.01	`	100.71
	e. Water charges: @ 1% on total.	1%	on	₹	18,663.75	₹	186.64
	f. Sundries & contingencies: @ 3% on total.	3%	on	₹	18,850.39	₹	565.51
						₹	19,547.90
	Add GST (multiplying factor)		0.1405			₹	2,746.48
						₹	22,294.38
	Add for contractor's profit and overheads	@	15%			₹	3,344.16
						₹	25,638.54
	Add cess	@	1%			₹	256.39
					Total	₹	25,894.93
Total cost for 1 Cum.							98,647.35

Say, 98,647.40

13.24.1.2 Karai wood.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 0.2625 Cum.	Cum.	·				
	a. Materials:						
08289	Karai wood beam	Cum.	0.2625	₹	52,000.00	₹	13,650.00
	Painting with oil type wood preservative (item)	Sqm.	4.00	₹	33.00	₹	132.00
	b. Carriage:						
0473	Karai wood beam	Cum.	0.2625	₹	74.50	₹	19.56
	c. Labours:						
0224	Mate	Day	0.10	₹	310.00	₹	31.00
0210	Carpenter 2nd class	Day	0.80	₹	395.00	₹	316.00
0212	Helper	Day	0.80	₹	310.00	₹	248.00
0220	Mason 2nd class	Day	0.15	₹	395.00	₹	59.25
0203	Belder	Day	0.75	₹	310.00	₹	232.50
0205	Waterman	Day	0.10	₹	310.00	₹	31.00
	d. Chiesels, nails, cement mortar, ropes, packing	0.750%	on	₹	14,587.31	7	109.40
	pieces, scaffolding etc: (LS)	0.730%	OH	`	14,507.51	`	109.40
	e. Water charges: @ 1% on total.	1%	on	₹	14,696.71	₹	146.97
	f. Sundries & contingencies: @ 3% on total.	3%	on	₹	14,843.68	₹	445.31
						₹	15,420.99
	Add GST (multiplying factor)		0.1405			₹	2,166.65
						₹	17,587.64
	Add for contractor's profit and overheads	@	15%			₹	2,638.15
						₹	20,225.79
	Add cess	@	1%			₹	202.26
					Total	₹	20,428.05
	Total cost for 1 Cum.					₹	77,821.14

13.24.2 Above 4.0 m and upto 5.0 m in length:-

13.24.2.1 Sal wood.

Code	Description	Unit	Quantity	/ Rate		Amount	
· · · · · · · · · · · · · · · · · · ·	Details of cost for 0.600 Cum.	Cum.					
	a. Materials:						
08288	Sal wood beam	Cum.	0.6000	₹	67,000.00	₹	40,200.00
	Painting with oil type wood preservative (item)	Sqm.	7.24	₹	33.00	₹	238.92
	b. Carriage:						
0473	Sal wood beam	Cum.	0.6000	₹	74.50	₹	44.70
	c. Labours:						
0224	Mate	Day	0.13	₹	310.00	₹	40.30
0210	Carpenter 2nd class	Day	0.95	₹	395.00	₹	375.25
0212	Helper	Day	0.95	₹	310.00	₹	294.50
0220	Mason 2nd class	Day	0.15	₹	395.00	₹	59.25
0203	Belder	Day	1.00	₹	310.00	₹	310.00
0205	Waterman	Day	0.10	₹	310.00	₹	31.00
	d. Chiesels, nails, cement mortar, ropes, packing	2.00%	on	₹	41,355.00	₹	827.10
	pieces, scaffolding etc: (LS)	2.00%	OH	•	11/000100	`	027.10
	e. Water charges: @ 1% on total.	1%	on	₹	42,182.10	₹	421.82
	f. Sundries & contingencies: @ 3% on total.	3%	on	₹	42,603.92	₹	1,278.12
						₹	44,120.96
	Add GST (multiplying factor)		0.1405			₹	6,198.99
						₹	50,319.95
	Add for contractor's profit and overheads	@	15%			₹	7,547.99
						₹	57,867.94
	Add cess	@	1%			₹	578.68
		T-4-1	1 0	<u> </u>	Total	₹	58,446.62
		rotal cos	t for 1 Cum.		_	₹	97,411.03

Say, **₹ 97,411.00**

Say, **₹ 77,821.10**

13.24.2.2 Karai wood.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 0.600 Cum.	Cum.			

<u> </u>		-	t for 1 C	1	i Utai	- T	40,790.00
	Add cess	@	1%	 	Total	₹	453.42 45,795.88
	Add assa		10/	-		₹	45,342.46
	Add for contractor's profit and overheads	@	15%	-		₹	5,914.23
			1			₹	39,428.23
	Add GST (multiplying factor)		0.1405			₹	4,857.23
						₹	34,571.00
	f. Sundries & contingencies: @ 3% on total.	3%	on	₹	33,332.12	₹	999.96
	e. Water charges: @ 1% on total.	1%	on	₹	33,002.10	₹	330.02
	d. Chiesels, nails, cement mortar, ropes, packing pieces, scaffolding etc: (LS)	2.00%	on	₹	32,355.00	₹	647.10
0205	Waterman	Day	0.10	₹	310.00	₹	31.00
0203	Belder	Day	1.00	₹	310.00	₹	310.00
0220	Mason 2nd class	Day	0.15	₹		₹	59.25
0212	Helper	Day	0.95	₹		₹	294.50
0210	Carpenter 2nd class	Day	0.95	₹		₹	375.25
0224	c. Labours: Mate	Day	0.13	₹	310.00	₹	40.30
0473	b. Carriage:Karai wood beam	Cum.	0.6000	₹	74.50	₹	44.70
	Painting with oil type wood preservative (item)	Sqm.	7.24	₹	33.00	₹	238.92
08289	Karai wood beam	Cum.	0.6000	₹	52,000.00	₹	31,200.00
	a. Materials:						

Total cost for 1 Cum. ₹ 76,326.47 Say, ₹ **76,326.50**

STEEL WORK

13.25 Providing and fixing 16 mm dia M.S. fan clamps of standard shape and size in existing RCC slab including cutting chase and making good and painting exposed portion of the clamps as required including disposal of rubbish etc. to the dumping ground with all leads and lifts complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 No.	Each					
	a. Materials:						
05039	MS Bar	QtI.	0.63200	₹	4,620.00	₹	2,919.84
	CC 1:2:4 with stone 20 mm (Rate as per item No.	Cum	0.05625	=	0.004.00	₹	454.89
	4.1.3)	Cum	0.05625	<	8,086.90	<	454.89
	b. Carriage:						
0468	MS Bar	Tonne	0.0632	₹	102.47	₹	6.48
	CC 1:2:4	[already	included in				
	c. Labours:						
0224	Mate	Day	0.92	₹	310.00	₹	285.20
0215	Fitter	Day	5.00	₹	440.00	₹	2,200.00
0220	Mason 2nd Class	Day	7.50	₹	395.00	₹	2,962.50
0203	Belder	Day	7.50	₹	310.00	₹	2,325.00
0227	Painter	Day	3.00	₹	395.00	₹	1,185.00
	d. Paint, Cement mortar, scaffolding etc: (LS)	20.0%	on	₹	12,338.91	₹	2,467.78
	e. Water charges: @ 1% on total.	1%	on	₹	14,806.69	₹	148.07
	f. Sundries & contingencies: @ 3% on total.	3%	on	₹	14,954.76	₹	448.64
						₹	15,403.40
	Add GST (multiplying factor)		0.1405			₹	2,164.18
						₹	17,567.58
	Add for contractor's profit and overheads	@	15%			₹	2,635.14
			1			₹	20,202.72
	Add cess	@	1%		-	₹	202.03
		<u> </u>			Total	₹	20,404.75
		Total cost for 1 No.				₹	204.05

13.26 Fixing of old wind tie with new fittings including painting two or or more coats with anticorrosive bitumastic paint of approved brand and manufacture over and including priming coat of zinc chromate yellow primer of approved brand and manufacture as required complete as per direction of the Engineer in charge.

204.10

₹

Say,

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 24.20 Mtr.	Mtr.					
	a. Materials:						
11020	J or L hookes	10 Nos	81.00	₹	198.00	₹	1,603.80
11006	Bitumen washers	100Nos	81.00	₹	30.00	₹	24.30
11017	GI limpet washers	100Nos	81.00	₹	22.00	₹	17.82
	Applying priming coat (item12.33.3).	Sqm.	2.226	₹	26.80	₹	59.66
	Applying anti corrosive bitumastic paint (item 12.40).	Sqm.	2.226	₹	61.00	₹	135.79
	b. Carriage:						
0468	J or L hookes	LS	1.0	₹	1.20	₹	1.20
	Bitumen washers	LS	0.5	₹	1.20	₹	0.60
	GI limpet washers	LS	0.5	₹	1.20	₹	0.60
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0215	Fitter	Day	0.40	₹	440.00	₹	176.00
0212	Helper	Day	0.40	₹	310.00	₹	124.00
	d. Ropes, scaffolding etc: (LS) ex/c "A"	7.0%	on	₹	1,957.62	₹	137.03
	e. Water charges: @ 1% on total.	1%	on	₹	2,094.65	₹	20.95
	f. Sundries & contingencies: @ 3% on total.	3%	on	₹	2,115.60	₹	63.47
						₹	2,374.52
	Add GST (multiplying factor)		0.1405			₹	333.62
						₹	2,708.14
	Add for contractor's profit and overheads	@	15%			₹	406.22
						₹	3,114.36
	Add cess	@	1%			₹	31.14
					Total	₹	3,145.50
		Total cos	t for 1 Mtr.		•	₹	129.98
					Say,	₹	130.00

13.27 Renewing bottom rail and / or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacture as required including removal of rubbish to the dumping ground with all leads and lifts complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 13.57 Kg.	Kg.				•	
	a. Materials:	_					
05056	MS tee= 14 Kg.	QtI.	0.140	₹	4,700.00	₹	658.00
05017	Bolts & nuts upto 300mm dia =0.83 Kg.	Kg.	0.83	₹	5,040.00	₹	41.83
	Priming coat of zinc chromate yellow primer (item	Sqm.	0.3830	₹	26.80	₹	10.26
	12.31.3) A	Jqiii.				`	10.20
	CC 1:3:6 (item) B	Cum	0.0075	₹	6,415.70	₹	48.12
	CC 1:2:4 (item) C	Cum	0.0728	₹	6,968.40	₹	507.30
	b. Carriage:						
0468	MS tee.	Tonne	0.00010	₹		₹	0.01
0468	Bolts & nuts upto 300mm dia.	Tonne	0.00083	₹	102.47	₹	0.09
	c. Labours:						
0224	Mate	Day	0.20	₹		₹	62.00
0215	Fitter	Day	0.13	₹	440.00	₹	55.00
0212	Helper	Day	0.63	₹	310.00	₹	193.75
0203	Belder	Day	3.00	₹		₹	930.00
0210	Carpenter 2nd class	Day	0.50	₹	395.00	₹	197.50
0220	Mason 2nd class	Day	0.50	₹	395.00	₹	197.50
0205	Waterman	Day	0.15	₹	310.00	₹	46.50
	d. Broken tiles or materials for broken portion of	10.00%	on	₹	2,382.18	₹	238.22
	flooring etc: (LS) ex/c A, B & C.	. 0.0070	011	•	2,0020	•	200.22
	e. Chiesels, nails, cement mortar, ropes, packing	5.00%	on	₹	2,620.40	₹	131.02
	pieces, scaffolding etc: (LS)			_		_	
	f. Water charges: @ 1% on total.	1%	on		2,751.42	₹	27.51
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	2,778.93	₹	83.37
						₹	2,862.30
	Add GST (multiplying factor)		0.1405			₹	402.15

					₹	3,264.45
	Add for contractor's profit and overheads	@	15%		₹	489.67
					₹	3,754.12
	Add cess	@	1%		₹	37.54
				Total	₹	4,357.34
•	•	Total co	ost for 1 Kg.		₹	321.10
				Sav.	₹	321.10

13.28 Dismantling rolling shutters with all accessories and stacking properly and refitting the same after oiling and greasing the same with necessary cement concrete for fitting fixing of hold fasts etc. for all lifts and upto a lead of 50 m as required complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 5.5 Sqm.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.20	₹	310.00	₹	62.00
0220	Mason 2nd class	Day	1.00	₹	395.00	₹	395.00
0203	Belder	Day	2.00	₹	310.00	₹	620.00
0212	Coolie	Day	2.00	₹	310.00	₹	620.00
0205	Waterman	Day	0.10	₹	310.00	₹	31.00
	b. CC, CM, etc for refitting, oiling, greasing the shutter etc: (LS)	35.00%	on	₹	1,728.00	₹	604.80
	c. Chiesels, raking tools, wire brushes, pumps for water, scaffolding etc: (LS)	20.00%	on	₹	2,332.80	₹	466.56
	d. Water charges: @ 1% on total.	1%	on	₹	2,799.36	₹	27.99
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	2,827.35	₹	84.82
						₹	2,912.17
	Add GST (multiplying factor)		0.1405			₹	409.16
						₹	3,321.33
	Add for contractor's profit and overheads	@	15%			₹	498.20
						₹	3,819.53
	Add cess	@	1%			₹	38.20
					Total	₹	3,857.73
		Total cost	t for 1 sqm.			₹	701.41
					Say,	₹	701.40

13.29 Dismantling rolling shutters with all accessories and stacking properly and refitting the same after oiling and greasing the same with necessary cement concrete for fitting fixing of hold fasts etc. for all lifts and upto a lead of 50 m as required complete as per direction of the Engineer in charge.

13.29.1 Wheel 50 mm dia and below

Code	Description	Unit	Quantity		Rate		Amount
	Detail of cost for 10 nos wheels of 40 mm dia	each					
	MATERIAL						
	Weight of 10 nos wheels						
	$10x[3.14x{(4/2)x(4/2)}x4]x7.850/1000 = 3.94 \text{ kg}$						
	Weight of 10 nos clamps 6 mm thick =10x lenth of						
	clamp =10x0.17m @ 1.90kg/m = 3.23 kg Weight of						
	10 nos 10 mm dia. Bolts, 10 cm long 10x0.10m =						
	1m @ 0.60 kg/m = 0.60 kg Total = 7.70 kg say 8						
	kg						
	Labour for dismantling :						
0207	Blacksmith 2nd class	Day	0.01	₹	395.00	₹	3.95
0205	Bandhani	Day	0.01	₹	310.00	₹	3.10
0203	Beldar	Day	0.02	₹	310.00	₹	6.20
	Renewing the wheels with clamps:						
	MATERIAL						
	Wheel 75 mm dia. 40 mm wide 10 nos clamps out						
12017	of M.S. flat 40x6 mm, 170 mm long = 10x0.17m =		10.00	•	75.00	•	750.00
13017	1.70m @ 1.9 kg/m = 3.23 kg Add 5% wastage =	each	10.00	₹	75.00	₹	750.00
	0.16 kg Total = 3.39 kg say 3.50 kg						

Say,

₹

161.80

	Flats upto 10 mm in thickness						
05026	M.S. bolt/pin 10 mm dia 10 cm long 10 Nos	qtl.	0.035	₹	4,725.00	₹	165.38
	10x0.06 = 0.6 kg = 0.006	·					
05017	Bolts and nuts upto 300 mm in length	qtl.	0.006	₹	5,040.00	₹	30.24
09022	Welding by electric plant length = 10x(2x4) = 80cm LABOUR	cm	80.000	₹	2.00	₹	160.00
	Labour for cutting, assembling and errection charges						
0207	Blacksmith 2nd class	Day	0.03	₹	395.00	₹	11.85
0205	Bandhani	Day	0.02	₹	310.00	₹	6.20
0203	Beldar	Day	0.11	₹	310.00	₹	34.10
	Priming coat : = 10x2(0.06+0.008)x0.25m = 0.34 sqm on Tees 0.16x3.3 = 0.53 sqm Rate as per item no 12.33.3 of SH : Finishing "A"	sqm	0.165	₹	26.80	₹	4.42
	b. Water charges: @ 1% on total except A	1%	on	₹	1,171.02	₹	11.71
	c. Sundries & contingencies: @ 3% on total except A	3%	on	₹	1,182.73	₹	35.48
						₹	1,218.21
	Add GST (multiplying factor)		0.1405			₹	171.16
						₹	1,389.37
	Add for contractor's profit and overheads	@	15%			₹	208.41
			4.07			₹	1,597.78
	Add cess	@	1%		Total	₹	15.98
		Total co	ost for 1 no.	1	iOtal	₹	1,618.18
		rotarce	JSC 101 1 110.			<	161.82

13.29.2 Wheel above 50 mm dia

13.29.2	Wheel above 50 mm dia						
Code	Description	Unit	Quantity		Rate		Amount
	Detail of cost for 10 nos wheels Considering average wheel dia =75 mm Width of wheel = 40 mm M.S. flat for clamp = 60x8 mm Bolt size 16 mm dia. Lenth of one clamp : 2x(0.04+0.0375+0.02)+0.05 =0.195+0.05 =0.245m say 0.25m	each					
	MATERIAL Weight of 10 nos wheels $10x[3.14x{(7.5/2)x(7.5/2)}x4]x7.850/1000 = 13.87$ kg Weight of 10 nos clamps 8 mm thick =10x0.25 m @ 3.8kg/m = 9.50 kg Weight of 10 nos 16 mm dia. Bolts, 10 cm long 10x0.10 m @ 1.60 kg/m = 1.60 kg Total = 24.97 kg say 25 kg						
	Labour for dismantling :						
0207	Blacksmith 2nd class	Day	0.04	₹	395.00	₹	15.80
0205	Bandhani	Day	0.03	₹	310.00	₹	9.30
0203	Beldar	Day	0.06	₹	310.00	₹	18.60
	Renewing the wheels with clamps : MATERIAL						
13017	10 nos clamps out of M.S. flat 60x8 mm = 10x0.25 m @ 3.8 kg/m = 9.5 kg Add 5% wastage = 0.48 kg Total = 9.98 kg say 10 kg	each	10.00	₹	75.00	₹	750.00
05026	Flats upto 10 mm in thickness M.S. bolt/pin 16 mm dia 10 cm long 10 Nos 10x0.16= 1.6 kg = 0.016 q	qtI.	0.016	₹	4,725.00	₹	75.60
05017	Bolts and nuts upto 300 mm in length	qtl.	0.006	₹	5,040.00	₹	30.24
	Welding by electric plant	•					
09022	length = 10x(2x6) = 120cm LABOUR Labour for cutting, assembling and errection charges	cm	120.000	₹	2.00	₹	240.00
0207	Blacksmith 2nd class	Day	0.01	₹	395.00	₹	3.95
0205	Bandhani	Day	0.05	₹	310.00	₹	15.50
0203	Beldar	Day	0.36	₹	310.00	₹	111.60
	Priming coat : = 10x2(0.06+0.008)x0.25m = 0.34 sqm on Tees 0.16x3.3 = 0.53 sqm Rate as per item no 12.33.3 of SH : Finishing "A"	sqm	0.340	₹	26.80	₹	9.11
	b. Water charges: @ 1% on total except A	1%	on	₹	1,270.59	₹	12.71
	c. Sundries & contingencies: @ 3% on total except	3%	on		1,283.30	₹	38.50
	A		1			₹	1,321.80
	Add GST (multiplying factor)		0.1405			₹	185.71
	Add 631 (martiplying factor)		0.1403			₹	1,507.51
	Add for contractor's profit and overheads	@	15%			₹	226.13
						₹	1,733.64
	Add cess	@	1%			₹	17.34
					Total	₹	1,760.09
		Total co	st for 1 no.		Covi	₹	176.01
					Say,	₹	176.00

FINISHING WORK

13.30 Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sqm and under including cutting the patch in proper shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground with all leads and lifts including finishing even and smooth and curing complete as per direction of the Engineer in charge:-

13.30.1 With cement mortar 1:3 (1 cement: 3 fine sand).

L	Code	Descrip		Unit	Quantity	Kate	Amount
	Codo	Docaria	ation	Hnit	Quantity	Rate	∧ mount

Details of cost for 10.00 Sqm.

Sqm

a. Materials:

	Cement mortar 1:3 (Rate as per item No. 3.1.3)	Cum	0.185	₹	3,992.09	₹	738.54
	b. Carriage:						
	Cement mortar 1:3 item	[already	included in				
	c. Labours:						
0224	Mate	Day	0.12	₹	310.00	₹	37.20
0220	Mason 2nd Class	Day	0.90	₹	395.00	₹	355.50
0203	Belder	Day	1.00	₹	310.00	₹	310.00
0212	Coolie (female)	Day	0.90	₹	310.00	₹	279.00
0205	Waterman	Day	0.15	₹	310.00	₹	46.50
	d. Chiesel, raking tools, wire brushes, pumps for	1%	on	*	1,766.74	Ŧ	17.67
	water, scaffolding etc: (LS)	I 70	on	<	1,700.74	<	17.07
	e. Water charges: @ 1% on total.	1%	on	₹	1,784.41	₹	17.84
	f. Sundries & contingencies: @ 3% on total.	3%	on	₹	1,802.25	₹	54.07
						₹	1,856.32
	Add GST (multiplying factor)		0.1405			₹	260.81
						₹	2,117.13
	Add for contractor's profit and overheads	@	15%			₹	317.57
						₹	2,434.70
	Add cess	@	1%			₹	24.35
					Total	₹	2,459.05
		Total cos	st for 1 Sqm.			₹	245.91
					Say,	₹	245.90

13.30.2 With cement mortar 1:4 (1 cement: 4 fine sand).

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm					
	a. Materials:						
	Cement mortar 1:3 (Rate as per item No. 3.1.4)	Cum	0.185	₹	3,184.67	₹	589.16
	b. Carriage:						
	Cement mortar 1:4 item	[already	included in				
	c. Labours:						
0224	Mate	Day	0.12	₹	310.00	₹	37.20
0220	Mason 2nd Class	Day	0.90	₹	395.00	₹	355.50
0203	Belder	Day	1.00	₹	310.00	₹	310.00
0212	Coolie (female)	Day	0.90	₹	310.00	₹	279.00
0205	Waterman	Day	0.15	₹	310.00	₹	46.50
	d. Chiesel, raking tools, wire brushes, pumps for	1%	on	₹	1,617.36	₹	16.17
	water, scaffolding etc: (LS)		OH	`	1,017.00	`	10.17
	e. Water charges: @ 1% on total.	1%	on	₹	1,633.53	₹	16.34
	f. Sundries & contingencies: @ 3% on total.	3%	on	₹	1,649.87	₹	49.50
						₹	1,699.37
	Add GST (multiplying factor)		0.1405			₹	238.76
						₹	1,938.13
	Add for contractor's profit and overheads	@	15%			₹	290.72
						₹	2,228.85
	Add cess	@	1%			₹	22.29
			1.6. 1.0	<u> </u>	Total	₹	2,251.14
		Total cos	t for 1 Sqm.		_	₹	225.11
					Say,	₹	225.10

13.31 Providing and applying cement slurry on old CC / RCC / Brick works in joints to receive new and fresh CC / RCC / Brick works including roughening and cleaning the old surface as required complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					_
	a. Materials:						
03001	Cement	Tonne	0.0275	₹	5,800.00	₹	159.50
	b. Carriage:						
0421	Cement	Tonne	0.0275	₹	102.47	₹	2.82
	c. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0220	Mason 2nd class	Day	0.05	₹	395.00	₹	19.75

0203	Belder	Day	0.15	₹	310.00	₹	46.50
0205	Waterman	Day	0.05	₹	310.00	₹	15.50
	d. Water charges: @ 1% on total.	1%	on	₹	247.17	₹	2.47
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	249.64	₹	7.49
						₹	257.13
	Add GST (multiplying factor)		0.1405			₹	36.13
						₹	293.26
	Add for contractor's profit and overheads	@	15%			₹	43.99
						₹	337.25
	Add cess	@	1%			₹	3.37
			·		Total	₹	340.62
·		Total cos	st for 1 sqm.		•	₹	61.93
					Say,	₹	61.90

13.32 White washing with lime to give an even shade on old work as required complete as per direction of the Engineer in charge.

13.32.1 one or more coat.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12017	White lime	QtI	0.010	₹	7.00	₹	0.07
12025	Indigo	Kg.	0.003	₹	60.00	₹	0.18
	b. Carriage:						
0430	White lime	Tonne	0.001	₹	120.56	₹	0.12
	Indigo	LS	0.50	₹	1.00	₹	0.50
	c. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0232	White washer	Day	0.08	₹	355.00	₹	28.40
0212	Helper	Day	0.06	₹	310.00	₹	18.60
	d. Gum, putty, brushes etc: (LS)	1.00%	on	₹	50.97	₹	0.51
	e. Pumps for water, scaffolding etc: (LS)	1.00%	on	₹	51.48	₹	0.51
	f. Water charges: @ 1% on total.	1%	on	₹	51.99	₹	0.52
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	52.51	₹	1.58
						₹	54.09
	Add GST (multiplying factor)		0.1405			₹	7.60
		_	1			₹	61.69
	Add for contractor's profit and overheads	@	15%			₹	9.25
	Add assa	@	10/			₹	70.94
	Add cess	<u>@</u>	1%		Total	₹	0.71 71.65
		Total cos	t for 1 sqm.		iotai	₹	7.17
		10101 003	i ioi i sqiii.		Sav	₹	7.17
					Say,	<	7.20

13.32.2 two or more coat.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12017	White lime	QtI	0.010	₹	7.00	₹	0.07
12025	Indigo	Kg.	0.003	₹	60.00	₹	0.18
	b. Carriage:						
0430	White lime	Tonne	0.00100	₹	120.56	₹	0.12
	Indigo	Tonne	0.000003	₹	1.20	₹	-
	c. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0232	White washer	Day	0.12	₹	355.00	₹	42.60
0212	Helper	Day	0.08	₹	310.00	₹	24.80
	d. Gum, putty, brushes etc: (LS)	1.00%	on	₹	70.87	₹	0.71
	e. Pumps for water, scaffolding etc: (LS)	1.00%	on	₹	71.58	₹	0.72
	f. Water charges: @ 1% on total.	1%	on	₹	72.30	₹	0.72
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	73.02	₹	2.19
						₹	75.21

Add GST (multiplying factor)		0.1405		₹	10.57
				₹	85.78
Add for contractor's profit and overheads	@	15%		₹	12.87
				₹	98.65
Add cess	@	1%		₹	0.99
		•	Total	₹	99.64
	Total co	st for 1 sqm.	•	₹	9.96
			Say,	₹	10.00

13.33 Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete

	<u> </u>						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0232	White washer	Day	0.01	₹	355.00	₹	3.55
0212	Helper	Day	0.05	₹	310.00	₹	15.50
0203	Belder	Day	0.10	₹	310.00	₹	31.00
0205	Waterman	Day	0.04	₹	310.00	₹	12.40
	b.scaffolding, ladder, sand paper, wire brushes etc: (LS)	3.00%	on	₹	65.55	₹	1.97
	c. Water charges: @ 1% on total.	1%	on	₹	67.52	₹	0.68
	d. Sundries & contingencies: @ 3% on total.	3%	on	₹	68.20	₹	2.05
						₹	70.25
	Add GST (multiplying factor)		0.1405			₹	9.87
						₹	80.12
	Add for contractor's profit and overheads	@	15%			₹	12.02
						₹	92.14
	Add cess	@	1%			₹	0.92
					Total	₹	93.06
		Total cos	t for 1 Sqm.			₹	9.31
					Say,	₹	9.30

13.34 Distempering with dry distemper of approved brand and manufacture and of required shade on old work (one or more coats), to give an even shade as required complete as per direction of the Engineer in charge.

b. Carriage: Dry distemper		Engineer in charge.						
a. Materials: 12018 Dry distemper	Code	Description	Unit	Quantity		Rate		Amount
12018 Dry distemper b. Carriage: Dry distemper Kg. 1.000 ₹ 32.00 ₹ 32.00 c. Labours: LS 1.00 ₹ 1.20		Details of cost for 10.00 Sqm.	Sqm.					
b. Carriage: Dry distemper c. Labours: 0224 Mate Day 0.02 ₹ 310.00 ₹ 6.20 0227 Painter Day 0.25 ₹ 395.00 ₹ 98.75 0212 Helper d. Gum, putty, brushes etc: (LS) e. Pumps for water, scaffolding etc: (LS) f. Water charges: @ 1% on total. g. Sundries & contingencies: @ 3% on total. Add GST (multiplying factor) Add for contractor's profit and overheads Add cess B. Carriage: LS 1.00 ₹ 1.20 ₹ 1.20 ₹ 1.20 0.00 ₹ 310.00 ₹ 98.75 0.025 ₹ 310.00 ₹ 77.50 0.025 ₹ 310.00 ₹ 77.50 0.00 ₹ 215.65 ₹ 21.57 0.00 ₹ 237.22 ₹ 4.74 0.00 ₹ 237.22 ₹ 4.74 0.00 ₹ 241.96 ₹ 2.42 0.1405 0.140		a. Materials:						
Dry distemper LS 1.00 ₹ 1.20 ₹ 1.20 c. Labours: 0224 Mate Day 0.02 ₹ 310.00 ₹ 6.20 0227 Painter Day 0.25 ₹ 395.00 ₹ 98.75 0212 Helper Day 0.25 ₹ 310.00 ₹ 77.50 d. Gum, putty, brushes etc: (LS) 10% on ₹ 215.65 ₹ 21.57 e. Pumps for water, scaffolding etc: (LS) 2.00% on ₹ 237.22 ₹ 4.74 f. Water charges: @ 1% on total. 1% on ₹ 241.96 ₹ 2.42 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 244.38 ₹ 7.33 Add GST (multiplying factor) 0.1405 ₹ 35.37 Add for contractor's profit and overheads @ 15% ₹ 43.06 Add cess @ 1% ₹ 333.44 Total cost for 1 sqm. ₹ 333.44	12018	Dry distemper	Kg.	1.000	₹	32.00	₹	32.00
c. Labours: 0224 Mate Day 0.02 ₹ 310.00 ₹ 6.20 0227 Painter Day 0.25 ₹ 395.00 ₹ 98.75 0212 Helper Day 0.25 ₹ 310.00 ₹ 77.50 d. Gum, putty, brushes etc: (LS) 10% on ₹ 215.65 ₹ 21.57 e. Pumps for water, scaffolding etc: (LS) 2.00% on ₹ 237.22 ₹ 4.74 f. Water charges: @ 1% on total. 1% on ₹ 241.96 ₹ 2.42 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 244.38 ₹ 7.33 Add GST (multiplying factor) 0.1405 ₹ 251.71 Add for contractor's profit and overheads @ 15% ₹ 330.14 Add cess @ 1% ₹ 330.44 Total ₹ 333.34		b. Carriage:						
0224 Mate Day 0.02 ₹ 310.00 ₹ 6.20 0227 Painter Day 0.25 ₹ 395.00 ₹ 98.75 0212 Helper Day 0.25 ₹ 310.00 ₹ 77.50 d. Gum, putty, brushes etc: (LS) 10% on ₹ 215.65 ₹ 21.57 e. Pumps for water, scaffolding etc: (LS) 2.00% on ₹ 237.22 ₹ 4.74 f. Water charges: @ 1% on total. 1% on ₹ 241.96 ₹ 2.42 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 244.38 ₹ 7.33 Add GST (multiplying factor) 0.1405 ₹ 251.71 Add for contractor's profit and overheads @ 15% ₹ 330.14 Add cess @ 1% ₹ 333.44 Total cost for 1 sqm. ₹ 33.34		Dry distemper	LS	1.00	₹	1.20	₹	1.20
0227 Painter Day 0.25 ₹ 395.00 ₹ 98.75 0212 Helper Day 0.25 ₹ 310.00 ₹ 77.50 d. Gum, putty, brushes etc: (LS) 10% on ₹ 215.65 ₹ 21.57 e. Pumps for water, scaffolding etc: (LS) 2.00% on ₹ 237.22 ₹ 4.74 f. Water charges: @ 1% on total. 1% on ₹ 241.96 ₹ 2.42 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 244.38 ₹ 7.33 Add GST (multiplying factor) 0.1405 ₹ 35.37 Add for contractor's profit and overheads @ 15% ₹ 330.14 Add cess @ 1% ₹ 333.44 Total cost for 1 sqm. ₹ 333.34		c. Labours:						
O212 Helper Day 0.25 ₹ 310.00 ₹ 77.50 d. Gum, putty, brushes etc: (LS) 10% on ₹ 215.65 ₹ 21.57 e. Pumps for water, scaffolding etc: (LS) 2.00% on ₹ 237.22 ₹ 4.74 f. Water charges: @ 1% on total. 1% on ₹ 241.96 ₹ 2.42 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 244.38 ₹ 7.33 Add GST (multiplying factor) 0.1405 ₹ 251.71 Add for contractor's profit and overheads @ 15% ₹ 287.08 Add cess @ 1% ₹ 333.44 Add cess @ 1% ₹ 333.44 Total cost for 1 sqm. ₹ 333.34	0224	Mate	Day	0.02	₹	310.00	₹	6.20
d. Gum, putty, brushes etc: (LS) 10% on ₹ 215.65 ₹ 21.57 e. Pumps for water, scaffolding etc: (LS) 2.00% on ₹ 237.22 ₹ 4.74 f. Water charges: @ 1% on total. 1% on ₹ 241.96 ₹ 2.42 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 244.38 ₹ 7.33 Add GST (multiplying factor) 0.1405 ₹ 35.37 Add for contractor's profit and overheads @ 15% ₹ 330.14 Add cess @ 1% ₹ 333.44 Total cost for 1 sqm. ₹ 33.34	0227	Painter	Day	0.25	₹	395.00	₹	98.75
e. Pumps for water, scaffolding etc: (LS) f. Water charges: @ 1% on total. g. Sundries & contingencies: @ 3% on total. Add GST (multiplying factor) Add for contractor's profit and overheads Add cess e. Pumps for water, scaffolding etc: (LS) 2.00% On ₹ 237.22 ₹ 4.74 2.42 2.42 3% On ₹ 244.38 ₹ 7.33 ₹ 251.71 0.1405 ₹ 35.37 ₹ 287.08 Add for contractor's profit and overheads e. 15% ₹ 43.06 ₹ 330.14 Add cess e. 1% Total cost for 1 sqm. ₹ 333.44	0212	Helper	Day	0.25	₹	310.00	₹	77.50
f. Water charges: @ 1% on total. 1% On ₹ 241.96 ₹ 2.42 g. Sundries & contingencies: @ 3% on total. 3% On ₹ 244.38 ₹ 7.33 Add GST (multiplying factor) 0.1405 ₹ 35.37 Add for contractor's profit and overheads @ 15% ₹ 43.06 Add cess @ 1% ₹ 330.14 Total cost for 1 sqm. ₹ 33.34		d. Gum, putty, brushes etc: (LS)	10%	on	₹	215.65	₹	21.57
g. Sundries & contingencies: @ 3% on total. 3% on ₹ 244.38 ₹ 7.33 Add GST (multiplying factor) 0.1405 ₹ 251.71 Add for contractor's profit and overheads @ 15% ₹ 43.06 Add cess @ 1% ₹ 330.14 Total cost for 1 sqm. ₹ 33.344		e. Pumps for water, scaffolding etc: (LS)	2.00%	on	₹	237.22	₹	4.74
\$\frac{\xi}{\xi} 251.71		f. Water charges: @ 1% on total.	1%	on	₹	241.96	₹	2.42
Add GST (multiplying factor) 0.1405 ₹ 35.37 8 287.08 Add for contractor's profit and overheads @ 15% ₹ 43.06 Add cess @ 1% ₹ 330.14 Total cost for 1 sqm. ₹ 33.34		g. Sundries & contingencies: @ 3% on total.	3%	on	₹	244.38	₹	7.33
Residue Res							₹	251.71
Add for contractor's profit and overheads @ 15% ₹ 43.06 Image: square of the contractor's profit and overheads @ 1% ₹ 330.14 Add cess @ 1% ₹ 3.30 Total cost for 1 sqm. ₹ 33.344		Add GST (multiplying factor)		0.1405			₹	35.37
Add cess @ 1% ₹ 330.14 Total cost for 1 sqm. ₹ 333.44							₹	287.08
Add cess @ 1% ₹ 3.30 Total cost for 1 sqm. ₹ 333.44		Add for contractor's profit and overheads	@	15%			₹	43.06
Total ₹ 333.44 Total cost for 1 sqm. ₹ 33.34							₹	330.14
Total cost for 1 sqm. ₹ 33.34		Add cess	@	1%			₹	3.30
,						Total	₹	333.44
Say, ₹ 33.30			Total cos	t for 1 sqm.			₹	33.34
						Say,	₹	33.30

13.35 Distempering with oil bound washable distemper of approved brand and manufacture and of required shade on old work (one or more coats), to give an even shade as required complete as per direction of the Engineer in charge.

Code Description	Unit	Quantity		Rate		Amount
Details of cost for 10.00 Sqm.	Sqm.					
a. Materials:						
12027 Oil bound washable distemper	Kg.	1.000	₹	50.00	₹	50.00
b. Carriage:						
Oil bound washable distemper	LS	1.00	₹	1.20	₹	1.20
c. Labours:						
0224 Mate	Day	0.02	₹	310.00	₹	6.20
0227 Painter	Day	0.30	₹	395.00	₹	118.50
0212 Helper	Day	0.20	₹	310.00	₹	62.00
d. Glue, putty, brushes etc: (LS)	10.00%	on	₹	237.90	₹	23.79
e. Pumps for water, scaffolding etc: (LS)	2.00%	on	₹	261.69	₹	5.23
f. Water charges: @ 1% on total.	1%	on	₹	266.92	₹	2.67
g. Sundries & contingencies: @ 3% on total.	3%	on	₹	269.59	₹	8.09
					₹	277.68
Add GST (multiplying factor)		0.1405			₹	39.01
Add for contractor's profit and overheads	@	15%			₹	316.69
Add for contractor's profit and overfleads	W.	1376			₹	47.50 364.19
Add cess	@	1%			₹	3.64
				Total	₹	367.83
	Total cos	t for 1 sqm.			₹	36.78
				Say,	₹	36.80

13.36 Distempering with 1st quality acrylic washable distemper of approved brand and manufacture and of required shade on old work (one or more coats) to give an even shade as required complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12002	1st quality acrylic washable distemper	Kg.	1.000	₹	42.00	₹	42.00
	b. Carriage:						
	1st quality acrylic washable distemper	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0227	Painter	Day	0.20	₹	395.00	₹	79.00
0212	Helper	Day	0.15	₹	310.00	₹	46.50
	d. Glue, putty, brushes etc: (LS)	10.00%	on	₹	171.80	₹	17.18
	e. Pumps for water, scaffolding etc: (LS)	2.00%	on	₹	188.98	₹	3.78
	f. Water charges: @ 1% on total.	1%	on	₹	192.76	₹	1.93
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	194.69	₹	5.84
						₹	200.53
	Add GST (multiplying factor)		0.1405			₹	28.17
						₹	228.70
	Add for contractor's profit and overheads	@	15%			₹	34.31
		_				₹	263.01
	Add cess	@	1%			₹	2.63
					Total	₹	265.64
		Total cos	t for 1 sqm.			₹	26.56
					Say,	₹	26.60

13.37 Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0212	Helper (skilled)	Day	0.12	₹	310.00	₹	37.20
0212	Helper	Day	0.06	₹	310.00	₹	18.60
0205	Waterman	Day	0.06	₹	310.00	₹	18.60
	b.Sand paper, wire brushes, CM etc: (LS)	5.00%	on	₹	77.50	₹	3.88
	c.Scaffolding, ladder etc: (LS)	8.00%	on	₹	81.38	₹	6.51
	d. Water charges: @ 1% on total.	1%	on	₹	87.89	₹	0.88
	e. Sundries & contingencies: @ 3% on total.	3%	on	₹	88.77	₹	2.66
						₹	91.43
	Add GST (multiplying factor)		0.1405			₹	12.85
						₹	104.28
	Add for contractor's profit and overheads	@	15%			₹	15.64
						₹	119.92
	Add cess	@	1%			₹	1.20
					Total	₹	121.12
		Total cos	t for 1 Sqm.			₹	12.11
					Say,	₹	12.10

13.38 Finishing walls with water proofing cement paint of required shade of approved brand and manufacture on old work (one or more coats) including preparation of surface as required complete as per direction of the Engineer in charge.

	complete as per an content of the Engineer in charg	3 0.					
Code	Description	Unit	Quantity		Rate		Amount
•	Details of cost for 10.00 Sqm.	Sqm.					_
	a. Materials:						
12043	Water proofing cement paint	Kg.	2.300	₹	40.00	₹	92.00
	b. Carriage:						
	Water proofing cement paint	LS	1.50	₹	1.20	₹	1.80
	c. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0227	Painter	Day	0.25	₹	395.00	₹	98.75
0212	Helper	Day	0.25	₹	310.00	₹	77.50

0205	Waterman	Day	0.05	₹	310.00	₹	15.50
	d. Glue, putty, brushes etc: (LS)	5.00%	on	₹	291.75	₹	14.59
	e. Pumps for water, scaffolding etc: (LS)	5.00%	on	₹	306.34	₹	15.32
	f. Water charges: @ 1% on total.	1%	on	₹	321.66	₹	3.22
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	324.88	₹	9.75
						₹	334.63
	Add GST (multiplying factor)		0.1405			₹	47.02
						₹	381.65
	Add for contractor's profit and overheads	@	15%			₹	57.25
						₹	438.90
	Add cess	@	1%			₹	4.39
					Total	₹	443.29
		Total cos	t for 1 sqm.			₹	44.33
					Say,	₹	44.30

13.39 Finishing walls with textured exterior paint of required shade of approved brand and manufacture on old work (one or more coats) including preparation of surface as required complete as per direction of the Engineer in charge.

0 1	direction of the Engineer in charge.	1	0		Б.		
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12042	Textured exterior paint	Ltr.	1.800	₹	250.00	₹	450.00
	b. Carriage:						
	Textured exterior paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0227	Painter	Day	0.30	₹	395.00	₹	118.50
0212	Helper	Day	0.25	₹	310.00	₹	77.50
0205	Waterman	Day	0.05	₹	310.00	₹	15.50
	d. Glue, putty, brushes etc: (LS)	2.00%	on	₹	668.90	₹	13.38
	e. Pumps for water, scaffolding etc: (LS)	5.00%	on	₹	682.28	₹	34.11
	f. Water charges: @ 1% on total.	1%	on	₹	716.39	₹	7.16
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	723.55	₹	21.71
						₹	745.26
	Add GST (multiplying factor)		0.1405			₹	104.71
						₹	849.97
	Add for contractor's profit and overheads	@	15%			₹	127.50
						₹	977.47
	Add cess	@	1%			₹	9.77
					Total	₹	987.24
		Total cos	t for 1 sqm.			₹	98.72
					Say,	₹	98.70

13.40 Finishing walls with acrylic smooth exterior paint of required shade of approved brand and manufacture on old work (one or more coats) including preparation of surface as required complete as per direction of the Engineer in charge.

	complete as per direction of the Engineer in char	gc.					
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12004	Acrylic smooth exterior paint	Ltr.	0.900	₹	210.00	₹	189.00
	b. Carriage:						
	Acrylic smooth exterior paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0227	Painter	Day	0.30	₹	395.00	₹	118.50
0212	Helper	Day	0.25	₹	310.00	₹	77.50
0205	Waterman	Day	0.10	₹	310.00	₹	31.00
	d. Glue, putty, brushes etc: (LS)	4.00%	on	₹	423.40	₹	16.94
	e. Pumps for water, scaffolding etc: (LS)	5.00%	on	₹	440.34	₹	22.02
	f. Water charges: @ 1% on total.	1%	on	₹	462.36	₹	4.62
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	466.98	₹	14.01
						₹	480.99

Add GST (multiplying factor)		0.1405		₹	67.58
				₹	548.57
Add for contractor's profit and overheads	@	15%		₹	82.29
				₹	630.86
Add cess	@	1%		₹	6.31
		•	Total	₹	637.17
	Total co	ost for 1 sqm.		₹	63.72
			Say,	₹	63.70

13.41 Finishing walls with premium acrylic smooth exterior paint of required shade of approved brand and manufacture on old work (one or more coats) including preparation of surface as required complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12033	Premium acrylic smooth exterior paint	Ltr.	0.800	₹	210.00	₹	168.00
	b. Carriage:						
	Premium acrylic smooth exterior paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0227	Painter	Day	0.30	₹	395.00	₹	118.50
0212	Helper	Day	0.25	₹	310.00	₹	77.50
0205	Waterman	Day	0.10	₹	310.00	₹	31.00
	d. Glue, putty, brushes etc: (LS)	3.00%	on	₹	402.40	₹	12.07
	e. Pumps for water, scaffolding etc: (LS)	5.00%	on	₹	414.47	₹	20.72
	f. Water charges: @ 1% on total.	1%	on	₹	435.19	₹	4.35
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	439.54	₹	13.19
					•	₹	452.73
	Add GST (multiplying factor)		0.1405			₹	63.61
						₹	516.34
	Add for contractor's profit and overheads	@	15%			₹	77.45
						₹	593.79
	Add cess	@	1%			₹	5.94
					Total	₹	599.73
		Total cos	t for 1 sqm.		_	₹	59.97
					Say,	₹	60.00

13.42 Painting one thin coat with white lead of approved brand and manufacture on wet or patchy portion of plastered surface on old work including preparation of surface as required complete as per direction of the Engineer in charge.

	per un conton or the Engineer in charge.	1	1				
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12045	White lead	Kg.	0.850	₹	170.00	₹	144.50
12026	Double boiled linseed oil.	Litre.	0.600	₹	210.00	₹	126.00
	b. Carriage:						
	White lead	LS	1.00	₹	1.20	₹	1.20
	Double boiled linseed oil.	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0227	Painter	Day	0.30	₹	395.00	₹	118.50
0212	Helper	Day	0.30	₹	310.00	₹	93.00
	d. Glue, putty, brushes etc: (LS)	2.00%	on	₹	490.60	₹	9.81
	e. Pumps for water, scaffolding etc: (LS)	4.00%	on	₹	500.41	₹	20.02
	f. Water charges: @ 1% on total.	1%	on	₹	520.43	₹	5.20
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	525.63	₹	15.77
						₹	541.40
	Add GST (multiplying factor)		0.1405			₹	76.07
						₹	617.47
	Add for contractor's profit and overheads	@	15%			₹	92.62
						₹	710.09
	Add cess	@	1%			₹	7.10

	Total	₹	717.19
Total cost for 1 sqm.		₹	71.72
	Sav.	₹	71.70

13.43 Finishing with epoxy paint (one or more coats) of approved brand and manufacture at all locations prepared and applied as per manufacturer's specification on old work including preparation of surface etc. as required complete as per direction of the Engineer in charge:-

13.43.1 On steel work.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12020	Epoxy paint	Ltr.	0.700	₹	250.00	₹	175.00
	b. Carriage:						
	Epoxy paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.35	₹	395.00	₹	138.25
0212	Helper	Day	0.30	₹	310.00	₹	93.00
	d. Sand paper, putty, brushes etc: (LS)	4.00%	on	₹	416.75	₹	16.67
	e. Pumps for water, scaffolding, ladder etc: (LS)	8.00%	on	₹	433.42	₹	34.67
	f. Water charges: @ 1% on total.	1%	on	₹	468.09	₹	4.68
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	472.77	₹	14.18
						₹	486.95
	Add GST (multiplying factor)		0.1405			₹	68.42
						₹	555.37
	Add for contractor's profit and overheads	@	15%			₹	83.31
		_				₹	638.68
	Add cess	@	1%		T	₹	6.39
	<u> </u>	T-4-1	1 F 1		Total	₹	645.07
		rotal cos	t for 1 sqm.		0	₹	64.51
					Say,	₹	64.50

13.43.2 On concrete work.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12020	Epoxy paint	Ltr.	0.700	₹	250.00	₹	175.00
	b. Carriage:						
	Epoxy paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.35	₹	395.00	₹	138.25
0212	Helper	Day	0.35	₹	310.00	₹	108.50
	d. Sand paper, putty, brushes etc: (LS)	4.00%	on	₹	432.25	₹	17.29
	e. Pumps for water, scaffolding, ladder etc: (LS)	8.00%	on	₹	449.54	₹	35.96
	f. Water charges: @ 1% on total.	1%	on	₹	485.50	₹	4.86
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	490.36	₹	14.71
						₹	505.07
	Add GST (multiplying factor)		0.1405			₹	70.96
						₹	576.03
	Add for contractor's profit and overheads	@	15%			₹	86.40
						₹	662.43
	Add cess	@	1%			₹	6.62
		L		<u> </u>	Total	₹	669.05
		Total cos	t for 1 sqm.		_	₹	66.91
					Say,	₹	66.90

13.44 Painting on G.S. sheet with synthetic enamel paint (one or more coats) of approved brand and manufacture of required colour to give an even shade on old work including preparation of surface as required complete as per direction of the Engineer in charge:-

Details of cost for 10.00 Sqm.

Sqm.

a. Materials:

12041	Synthetic enamel paint b. Carriage:	Ltr.	0.460	₹	180.00	₹	82.80
	Synthetic enamel paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.35	₹	395.00	₹	138.25
0212	Helper	Day	0.35	₹	310.00	₹	108.50
	d. Sand paper, putty, brushes etc: (LS)	10.00%	on	₹	340.05	₹	34.01
	e. Pumps for water, scaffolding, ladder etc: (LS)	2.00%	on	₹	374.06	₹	7.48
	f. Water charges: @ 1% on total.	1%	on	₹	381.54	₹	3.82
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	385.36	₹	11.56
						₹	396.92
	Add GST (multiplying factor)		0.1405			₹	55.77
						₹	452.69
	Add for contractor's profit and overheads	@	15%			₹	67.90
						₹	520.59
	Add cess	@	1%			₹	5.21
			·		Total	₹	525.80
		Total cos	t for 1 sqm.			₹	52.58
					Say,	₹	52.60

13.45 Painting on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint (one or more coats) of approved brand and manufacture to give an even shade on old work including preparation of surface as required complete as per direction of the Engineer in charge:

13.45.1 50 mm dia.

13.43.1	Jo min dia.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 30.00 Mtr.	Mtr.					
	a. Materials:						
12008	Anti corrosive bitumestic paint	Ltr.	0.300	₹	110.00	₹	33.00
	b. Carriage:						
	Anti corrosive bitumestic paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.35	₹	395.00	₹	138.25
0212	Helper	Day	0.35	₹	310.00	₹	108.50
	d. Sand paper, putty, brushes, wire brushes,	10.00%	on	₹	290.25	₹	29.03
	extra painting on fittings etc: (LS)	. 5.5570	511	`	_,0.20	•	27.00
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.00%	on	₹	319.28	₹	15.96
	f. Water charges: @ 1% on total.	1%	on	₹	335.24	₹	3.35
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	338.59	₹	10.16
						₹	348.75
	Add GST (multiplying factor)		0.1405			₹	49.00
						₹	397.75
	Add for contractor's profit and overheads	@	15%			₹	59.66
						₹	457.41
	Add cess	@	1%			₹	4.57
<u></u>			16 11:		Total	₹	461.98
		Total cos	st for 1 Mtr.			₹	15.40
					Say,	₹	15.40

13.45.2 75 mm dia.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 30.00 Mtr.	Mtr.					
12000	a. Materials:	l tr	0.450	₹	110.00	Ŧ	49.50
12008	Anti corrosive bitumestic paint b. Carriage:	Ltr.	0.450	<	110.00	<	49.50
	Anti corrosive bitumestic paint c. Labours:	LS	1.00	₹	1.20	₹	1.20
0224	Mate	Day	0.04	₹	310.00	₹	12.40
0221	Wate	Day	0.01	`	010.00	`	12.10

0227 0212	Painter Helper d. Sand paper, putty, brushes, wire brushes,	Day Day	0.48 0.48	₹	395.00 310.00	₹	189.60 148.80
	extra painting on fittings etc: (LS)	10.00%	on	₹	401.50	₹	40.15
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.00%	on	₹	441.65	₹	22.08
	f. Water charges: @ 1% on total.	1%	on	₹	463.73	₹	4.64
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	468.37	₹	14.05
						₹	482.42
	Add GST (multiplying factor)		0.1405			₹	67.78
						₹	550.20
	Add for contractor's profit and overheads	@	15%			₹	82.53
						₹	632.73
	Add cess	@	1%			₹	6.33
					Total	₹	639.06
		Total cos	st for 1 Mtr.			₹	21.30
					Say,	₹	21.30

13.45.3 100 mm dia.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 30.00 Mtr.	Mtr.					
	a. Materials:						
12008	Anti corrosive bitumestic paint	Ltr.	0.560	₹	110.00	₹	61.60
	b. Carriage:						
	Anti corrosive bitumestic paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.05	₹	310.00	₹	15.50
0227	Painter	Day	0.65	₹	395.00	₹	256.75
0212	Helper	Day	0.65	₹	310.00	₹	201.50
	d. Sand paper, putty, brushes, wire brushes, extra painting on fittings etc: (LS)	10.00%	on	₹	536.55	₹	53.66
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.00%	on	₹	590.21	₹	29.51
	f. Water charges: @ 1% on total.	1%	on	₹	619.72	₹	6.20
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	625.92	₹	18.78
						₹	644.70
	Add GST (multiplying factor)		0.1405			₹	90.58
						₹	735.28
	Add for contractor's profit and overheads	@	15%			₹	110.29
			400	ļ		₹	845.57
	Add cess	@	1%	<u> </u>	Total	₹	8.46
		Total age	st for 1 Mtr.	L	Total	₹	854.03
		TOTAL COS	SCIOLINIC.		Cov	₹	28.47
					Say,	₹	28.50

13.45.4 150 mm dia.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 30.00 Mtr.	Mtr.					
	a. Materials:						
12008	Anti corrosive bitumestic paint	Ltr.	0.850	₹	110.00	₹	93.50
	b. Carriage:						
	Anti corrosive bitumestic paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.08	₹	310.00	₹	24.80
0227	Painter	Day	1.00	₹	395.00	₹	395.00
0212	Helper	Day	1.00	₹	310.00	₹	310.00
	d. Sand paper, putty, brushes, wire brushes, extra painting on fittings etc: (LS)	10.00%	on	₹	824.50	₹	82.45
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.00%	on	₹	906.95	₹	45.35
	f. Water charges: @ 1% on total.	1%	on	₹	952.30	₹	9.52
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	961.82	₹	28.85
						₹	990.67
	Add GST (multiplying factor)		0.1405			₹	139.19
						₹	1,129.86
	Add for contractor's profit and overheads	@	15%			₹	169.48
			40/			₹	1,299.34
	Add cess	@	1%		Tatal	₹	12.99
		Total con	st for 1 Mtr.		Total	₹	1,312.33 43.74
		TOTALCOS	SCIOLI WILL.		Cov	-	43.74 43.70
					Say,	₹	43.70

13.46 Painting on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint (one or more coats) of required colour of approved brand and manufacture to give an even shade on old work over and including preparation of surface as required complete as per direction of the Engineer in charge:-

13.46.1 50 mm dia.

Code	Description	Unit	Quantity		Rate	Amount	
<u>-</u>	Details of cost for 30.00 Mtr.	Mtr.	•		,		
	a. Materials:						
12041	Synthetic enamel paint	Ltr.	0.240	₹	180.00	₹	43.20
	b. Carriage:						
	Synthetic enamel paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.35	₹	395.00	₹	138.25
0212	Helper	Day	0.35	₹	310.00	₹	108.50
	d. Sand paper, putty, brushes, wire brushes,	10.00%	on	₹	300.45	₹	30.05
	extra painting on fittings etc: (LS)	. 0.0070	011	•	0000	•	00.00
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.00%	on	₹	330.50	₹	16.53
	f. Water charges: @ 1% on total.	1%	on	₹	347.03	₹	3.47
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	350.50	₹	10.52
						₹	361.02
	Add GST (multiplying factor)		0.1405			₹	50.72
						₹	411.74
	Add for contractor's profit and overheads	@	15%			₹	61.76
						₹	473.50
	Add cess	@	1%		T	₹	4.74
		-			Total	₹	478.24
		Total cos	t for 1 Mtr.			₹	15.94

13.46.2 75 mm dia.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30.00 Mtr.	Mtr.			

Details of cost for 30.00 Mtr.

a. Materials:

15.90

Say,

₹

12041	Synthetic enamel paint	Ltr.	0.350	₹	180.00	₹	63.00
	b. Carriage: Synthetic enamel paint	LS	1.00	₹	1.20	₹	1.20
0224	c. Labours: Mate	Day	0.04	₹	310.00	₹	12.40
0227	Painter	Day	0.48	₹	395.00	₹	189.60
0212	Helper	Day	0.48	₹	310.00	₹	148.80
	d. Sand paper, putty, brushes, wire brushes, extra painting on fittings etc: (LS)	10.00%	on	₹	415.00	₹	41.50
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.00%	on	₹	456.50	₹	22.83
	f. Water charges: @ 1% on total.	1%	on	₹	479.33	₹	4.79
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	484.12	₹	14.52
						₹	498.64
	Add GST (multiplying factor)		0.1405			₹	70.06
						₹	568.70
	Add for contractor's profit and overheads	@	15%			₹	85.31
						₹	654.01
	Add cess	@	1%			₹	6.54
					Total	₹	660.55
		Total cos	st for 1 Mtr.			₹	22.02
					Say,	₹	22.00

13.46.3 100 mm dia.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 30.00 Mtr.	Mtr.					
	a. Materials:						
12041	Synthetic enamel paint	Ltr.	0.460	₹	180.00	₹	82.80
	b. Carriage:						
	Synthetic enamel paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.05	₹	310.00	₹	15.50
0227	Painter	Day	0.65	₹	395.00	₹	256.75
0212	Helper	Day	0.65	₹	310.00	₹	201.50
	d. Sand paper, putty, brushes, wire brushes, extra painting on fittings etc: (LS)	10.00%	on	₹	557.75	₹	55.78
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.00%	on	₹	613.53	₹	30.68
	f. Water charges: @ 1% on total.	1%	on	₹	644.21	₹	6.44
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	650.65	₹	19.52
						₹	670.17
	Add GST (multiplying factor)		0.1405			₹	94.16
						₹	764.33
	Add for contractor's profit and overheads	@	15%			₹	114.65
			100			₹	878.98
	Add cess	@	1%		T-4-1	₹	8.79
		Tatal	+ fan 1 M+n		Total	₹	887.77
		lotal cos	t for 1 Mtr.		0	₹	29.59
					Say,	₹	29.60

13.46.4 150 mm dia.

10.10.1							
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 30.00 Mtr.	Mtr.					
	a. Materials:						
12041	Synthetic enamel paint	Ltr.	0.460	₹	180.00	₹	82.80
	b. Carriage:						
	Synthetic enamel paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.08	₹	310.00	₹	24.80
0227	Painter	Day	1.00	₹	395.00	₹	395.00
0212	Helper	Day	1.00	₹	310.00	₹	310.00

d. Sand paper, putty, brushes, wire brushes, extra painting on fittings etc: (LS)	10.00%	on	₹	813.80	₹	81.38
e. Pumps for water, scaffolding, ladder etc: (LS)	5.00%	on	₹	895.18	₹	44.76
f. Water charges: @ 1% on total.	1%	on	₹	939.94	₹	9.40
g. Sundries & contingencies: @ 3% on total.	3%	on	₹	949.34	₹	28.48
					₹	977.82
Add GST (multiplying factor)		0.1405			₹	137.38
					₹	1,115.20
Add for contractor's profit and overheads	@	15%			₹	167.28
					₹	1,282.48
Add cess	@	1%			₹	12.82
		•		Total	₹	1,295.30
	Total cos	t for 1 Mtr.			₹	43.18
				Say,	₹	43.20

13.47 Painting on wood work with oil type wood preservative (one or more coats) of approved brand and manufacture on old work including preparation of surface as required complete as per direction of the Engineer in charge.

b. Carriage: 0 Oil type wood preservative		direction of the Engineer in charge.						
a. Materials: 12028 Oil type wood preservative b. Carriage: 0 Oil type wood preservative c. Labours: 0224 Mate Day 0.02 ₹ 310.00 ₹ 6.20 0227 Painter Day 0.20 ₹ 310.00 ₹ 62.00 0212 Helper Day 0.20 ₹ 310.00 ₹ 62.00 0216 d. Sand paper, putty, brushes, wire brushes etc: (LS) e. Pumps for water, scaffolding, ladder etc: (LS) 5.00% On ₹ 232.40 ₹ 11.62 f. Water charges: @ 1% on total. 1% On ₹ 256.22 ₹ 2.56 g. Sundries & contingencies: @ 3% on total. 3% On ₹ 256.22 ₹ 7.76 Add GST (multiplying factor) 0.1405 ₹ 303.99 Add cess @ 1% Total ₹ 353.09 Total cost for 1 sqm. ₹ 353.09	Code	Description	Unit	Quantity		Rate		Amount
12028 Oil type wood preservative Ltr. 0.600 ₹ 140.00 ₹ 84.00		Details of cost for 10.00 Sqm.	Sqm.					
b. Carriage: 0 Oil type wood preservative		a. Materials:						
0 Oil type wood preservative c. Labours: LS 1.00 ₹ 1.20 ₹ 1.20 0224 Mate Day 0.02 ₹ 310.00 ₹ 6.20 0227 Painter Day 0.20 ₹ 395.00 ₹ 79.00 0212 Helper Day 0.20 ₹ 310.00 ₹ 62.00 d. Sand paper, putty, brushes, wire brushes etc: (LS) (LS) 5.00% on ₹ 232.40 ₹ 11.62 e. Pumps for water, scaffolding, ladder etc: (LS) 5.00% on ₹ 244.02 ₹ 12.20 f. Water charges: @ 1% on total. 1% on ₹ 256.22 ₹ 2.56 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 258.78 ₹ 7.76 Add GST (multiplying factor) 0.1405 ₹ 37.45 Add cess @ 15% ₹ 349.59 Add cess @ 1% ₹ 353.09 Total ₹ 353.09	12028	Oil type wood preservative	Ltr.	0.600	₹	140.00	₹	84.00
c. Labours: 0224 Mate Day 0.02 ₹ 310.00 ₹ 6.20 0227 Painter Day 0.20 ₹ 395.00 ₹ 79.00 0212 Helper Day 0.20 ₹ 310.00 ₹ 62.00 d. Sand paper, putty, brushes, wire brushes etc: (LS) 5.00% on ₹ 232.40 ₹ 11.62 (LS) e. Pumps for water, scaffolding, ladder etc: (LS) 5.00% on ₹ 244.02 ₹ 12.20 f. Water charges: @ 1% on total. 1% on ₹ 256.22 ₹ 2.56 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 258.78 ₹ 7.76 Add GST (multiplying factor) 0.1405 ₹ 366.54 Add for contractor's profit and overheads @ 15% ₹ 349.59 Add cess @ 1% ₹ 349.59 Total cost for 1 sqm. ₹ 353.09		b. Carriage:						
0224 Mate Day 0.02 ₹ 310.00 ₹ 6.20 0227 Painter Day 0.20 ₹ 395.00 ₹ 79.00 0212 Helper Day 0.20 ₹ 310.00 ₹ 62.00 d. Sand paper, putty, brushes, wire brushes etc: (LS) 5.00% On ₹ 232.40 ₹ 11.62 (LS) e. Pumps for water, scaffolding, ladder etc: (LS) 5.00% On ₹ 244.02 ₹ 12.20 f. Water charges: @ 1% on total. 1% On ₹ 256.22 ₹ 2.56 g. Sundries & contingencies: @ 3% on total. 3% On ₹ 258.78 ₹ 7.76 Add GST (multiplying factor) 0.1405 ₹ 37.45 Add for contractor's profit and overheads @ 15% ₹ 349.59 Add cess @ 1% ₹ 353.09 Total cost for 1 sqm. ₹ 353.09	0	Oil type wood preservative	LS	1.00	₹	1.20	₹	1.20
0227 Painter Day 0.20 ₹ 395.00 ₹ 79.00 0212 Helper Day 0.20 ₹ 310.00 ₹ 62.00 d. Sand paper, putty, brushes, wire brushes etc: (LS) 5.00% On ₹ 232.40 ₹ 11.62 (LS) e. Pumps for water, scaffolding, ladder etc: (LS) 5.00% On ₹ 244.02 ₹ 12.20 f. Water charges: @ 1% on total. 1% On ₹ 256.22 ₹ 2.56 g. Sundries & contingencies: @ 3% on total. 3% On ₹ 258.78 ₹ 7.76 Add GST (multiplying factor) 0.1405 ₹ 37.45 Add for contractor's profit and overheads @ 15% ₹ 349.59 Add cess @ 1% ₹ 353.09 Total cost for 1 sqm. ₹ 353.09		c. Labours:						
Day 0.20 ₹ 310.00 ₹ 62.00	0224	Mate	Day	0.02	₹	310.00	₹	6.20
d. Sand paper, putty, brushes, wire brushes etc: (LS) 5.00% on ₹ 232.40 ₹ 11.62 e. Pumps for water, scaffolding, ladder etc: (LS) 5.00% on ₹ 244.02 ₹ 12.20 f. Water charges: @ 1% on total. 1% on ₹ 256.22 ₹ 2.56 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 258.78 ₹ 7.76 Add GST (multiplying factor) 0.1405 ₹ 37.45 Add for contractor's profit and overheads @ 15% ₹ 349.59 Add cess @ 1% ₹ 353.09 Total cost for 1 sqm. ₹ 35.31	0227	Painter	Day	0.20	₹	395.00	₹	79.00
(LS) e. Pumps for water, scaffolding, ladder etc: (LS) f. Water charges: @ 1% on total. g. Sundries & contingencies: @ 3% on total. Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Add cess Total cost for 1 sqm. 5.00% On ₹ 232.40 ₹ 11.62 11.62 12.20 5.00% On ₹ 244.02 ₹ 12.20 12.20 12.20 12.20 12.20 12.20 12.20 12.20 12.20 13.56 14.60 14.60 15.60 16.60 17.61 18.60 18.60 19.60 10.1405 10.1	0212	Helper	Day	0.20	₹	310.00	₹	62.00
e. Pumps for water, scaffolding, ladder etc: (LS) 5.00% on ₹ 244.02 ₹ 12.20 f. Water charges: @ 1% on total. 1% on ₹ 256.22 ₹ 2.56 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 258.78 ₹ 7.76 Add GST (multiplying factor) 0.1405 ₹ 36.54 ₹ 303.99 Add for contractor's profit and overheads @ 15% ₹ 349.59 Add cess @ 1% ₹ 3.50 Total ≈ 353.09		d. Sand paper, putty, brushes, wire brushes etc:	5.00%	on	₹	232.40	₹	11.62
f. Water charges: @ 1% on total. 1% on ₹ 256.22 ₹ 2.56 2 256.22 ₹ 2.56 2.56 g. Sundries & contingencies: @ 3% on total. 3% on ₹ 258.78 ₹ 7.76 Add GST (multiplying factor) 0.1405 ₹ 37.45 Add for contractor's profit and overheads @ 15% ₹ 45.60 Add cess @ 1% ₹ 353.09 Total cost for 1 sqm. ₹ 353.09		(LS)	3.00%	OH	`	232.40	`	11.02
g. Sundries & contingencies: @ 3% on total. 3% on ₹ 258.78 ₹ 7.76 Add GST (multiplying factor) 0.1405 ₹ 266.54 Add for contractor's profit and overheads @ 15% ₹ 45.60 Add cess @ 1% ₹ 349.59 Add cess Total ₹ 353.09 Total cost for 1 sqm. ₹ 35.31		e. Pumps for water, scaffolding, ladder etc: (LS)	5.00%	on	₹	244.02	₹	12.20
\$\frac{₹}{266.54} \\ Add GST (multiplying factor)		f. Water charges: @ 1% on total.	1%	on	₹	256.22	₹	2.56
Add GST (multiplying factor) 0.1405 ₹ 37.45 Add for contractor's profit and overheads @ 15% ₹ 45.60 Add cess @ 1% ₹ 3.50 Total cost for 1 sqm. ₹ 35.31		g. Sundries & contingencies: @ 3% on total.	3%	on	₹	258.78	₹	7.76
\$\frac{₹}{303.99} \\ Add for contractor's profit and overheads @ 15% ₹ 45.60 \$\frac{₹}{349.59} \\ Add cess @ 1% ₹ 3.50 Total ₹ 353.09 Total cost for 1 sqm. ₹ 35.31							₹	266.54
Add for contractor's profit and overheads @ 15% ₹ 45.60 ₹ 349.59 Add cess @ 1% ₹ 3.50 Total ₹ 353.09 Total cost for 1 sqm. ₹ 35.31		Add GST (multiplying factor)		0.1405			₹	37.45
Total cost for 1 sqm. ₹ 349.59							₹	303.99
Add cess @ 1% ₹ 3.50 Total cost for 1 sqm. ₹ 353.09 Total cost for 1 sqm. ₹ 35.31		Add for contractor's profit and overheads	@	15%			₹	
Total ₹ 353.09 Total cost for 1 sqm. ₹ 35.31								
Total cost for 1 sqm. ₹ 35.31		Add cess	@	1%				
						Total		
Say, ₹ 35.30			Total cos	t for 1 sqm.			•	
						Say,	₹	35.30

13.48 Providing and applying fire retardant paint unthinned on cleaned wood / ply surface (one or more coats) of required colour of approved brand and manufacture on old work including preparation of surface as per recommendation of the manufacturer to make the surface fire returdant and as required complete as per direction of the Engineer in charge:-

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12021	Fire retardant paint	Ltr.	3.000	₹	300.00	₹	900.00
	b. Carriage:						
0	Fire retardant paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.05	₹	310.00	₹	15.50
0227	Painter	Day	0.60	₹	395.00	₹	237.00
0212	Helper	Day	0.60	₹	310.00	₹	186.00
	d. Sand paper, putty, brushes, wire brushes etc: (LS)	2.00%	on	₹	1,339.70	₹	26.79
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.00%	on	₹	1,366.49	₹	68.32

Say,

₹

197.70

f. Water charges: @ 1% on total.	1%	on	₹ 1,434.81	₹	14.35
g. Sundries & contingencies: @ 3% on total.	3%	on	₹ 1,449.16	₹	43.47
				₹	1,492.63
Add GST (multiplying factor)		0.1405		₹	209.71
				₹	1,702.34
Add for contractor's profit and overheads	@	15%		₹	255.35
				₹	1,957.69
Add cess	@	1%		₹	19.58
			Total	₹	1,977.27
	Total cos	st for 1 sqm.		₹	197.73

13.49 Coal tarring (one or more coats) of approved brand and manufacture on old work @ 0.16 litre coal tar per sqm including preparation of surface as required complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
I.	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:	•					
12011	Coal tar.	Ltr.	1.600	₹	35.00	₹	56.00
02004	Kerosine oil.	Ltr.	0.300	₹	20.00	₹	6.00
	b. Carriage:						
	Coal tar.	LS	1.00	₹	1.20	₹	1.20
	Kerosine oil.	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0227	Painter	Day	0.05	₹	395.00	₹	19.75
0212	Helper	Day	0.50	₹	310.00	₹	155.00
	d. Sand paper, putty, brushes, wire brushes etc:	5.00%	on	₹	245.35	₹	12.27
	(LS)	3.00%	OH	`	240.00	`	12.27
	e. Pumps for water, scaffolding, ladder etc: (LS)	3.00%	on	₹	257.62	₹	7.73
	f. Water charges: @ 1% on total.	1%	on	₹	265.35	₹	2.65
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	268.00	₹	8.04
						₹	220.04
	Add GST (multiplying factor)		0.1405			₹	30.92
						₹	250.96
	Add for contractor's profit and overheads	@	15%			₹	37.64
						₹	288.60
	Add cess	@	1%			₹	2.89
					Total	₹	291.49
		Total cos	t for 1 sqm.			₹	29.15
					Say,	₹	29.20

13.50 Wall painting with plastic emulsion paint (one or more coats) of required colour of approved brand and manufacture on old work to give an even shade including preparation of surface as required complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12032	Plastic emulsion paint	Ltr.	0.750	₹	210.00	₹	157.50
	b. Carriage:						
	Plastic emulsion paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.04	₹	310.00	₹	12.40
0227	Painter	Day	0.55	₹	395.00	₹	217.25
0212	Helper	Day	0.40	₹	310.00	₹	124.00
	d. Sand paper, putty, brushes, wire brushes etc: (LS)	4.0%	on	₹	512.35	₹	20.49
	e. Pumps for water, scaffolding, ladder etc: (LS)	3.0%	on	₹	532.84	₹	15.99
	f. Water charges: @ 1% on total.	1%	on	₹	548.83	₹	5.49
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	554.32	₹	16.63
		•				₹	570.95

Add GST (multiplying factor)		0.1405		₹	80.22
				₹	651.17
Add for contractor's profit and overheads	@	15%		₹	97.68
				₹	748.85
Add cess	@	1%		₹	7.49
		·	Total	₹	756.34
	Total co	ost for 1 sqm.		₹	75.63
			Say,	₹	75.60

13.51 Painting with enamel paint (one or more coats) of required colour of approved brand and manufacture on old work to give an even shade including preparation of surface as required complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12041	Enamel paint	Ltr.	0.610	₹	180.00	₹	109.80
	b. Carriage:						
	Enamel paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.35	₹	395.00	₹	138.25
0212	Helper	Day	0.35	₹	310.00	₹	108.50
	d. Sand paper, putty, brushes, wire brushes etc:	4.0%	on	₹	367.05	₹	14.68
	(LS)	4.070	OH	`	307.03	`	14.00
	e. Pumps for water, scaffolding, ladder etc: (LS)	4.0%	on	₹	381.73	₹	15.27
	f. Water charges: @ 1% on total.	1%	on	₹	397.00	₹	3.97
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	400.97	₹	12.03
						₹	413.00
	Add GST (multiplying factor)		0.1405			₹	58.03
						₹	471.03
	Add for contractor's profit and overheads	@	15%			₹	70.65
						₹	541.68
	Add cess	@	1%			₹	5.42
					Total	₹	547.10
		Total cos	st for 1 sqm.			₹	54.71
					Say,	₹	54.70

13.52 Painting with synthetic enamel paint (one or more coats) of required colour of approved brand and manufacture on old work to give an even shade including preparation of surface as required complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12041	Synthetic enamel paint	Ltr.	0.700	₹	180.00	₹	126.00
	b. Carriage:						
	Enamel paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.35	₹	395.00	₹	138.25
0212	Helper	Day	0.35	₹	310.00	₹	108.50
	d. Sand paper, putty, brushes, wire brushes etc: (LS)	4.0%	on	₹	383.25	₹	15.33
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.0%	on	₹	398.58	₹	19.93
	f. Water charges: @ 1% on total.	1%	on	₹	418.51	₹	4.19
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	422.70	₹	12.68
						₹	435.38
	Add GST (multiplying factor)		0.1405			₹	61.17
						₹	496.55
	Add for contractor's profit and overheads	@	15%			₹	74.48
	O del cons		10/			₹	571.03
	Add cess	@	1%		T-4-1	₹	5.71
					Total	₹	576.74

Total cost for 1 sqm. ₹ 57.67 Say, ₹ 57.70

Painting with Aluminium paint (one or more coats) of approved brand and manufacture on old 13.53 work to give an even shade including preparation of surface as required complete as per direction of the Engineer in charge.

	of the Engineer in charge.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12005	Aluminium paint	Ltr.	0.460	₹	160.00	₹	73.60
	b. Carriage:						
	Aluminium paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.35	₹	395.00	₹	138.25
0212	Helper	Day	0.35	₹	310.00	₹	108.50
	d. Sand paper, putty, brushes, wire brushes etc:	4.0%	on	₹	330.85	₹	13.23
	(LS)	4.0%	OH	`	330.03	`	13.23
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.0%	on	₹	344.08	₹	17.20
	f. Water charges: @ 1% on total.	1%	on	₹	361.28	₹	3.61
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	364.89	₹	10.95
						₹	375.84
	Add GST (multiplying factor)		0.1405			₹	52.81
						₹	428.65
	Add for contractor's profit and overheads	@	15%			₹	64.30
						₹	492.95
	Add cess	@	1%			₹	4.93
					Total	₹	497.88
		Total cos	st for 1 sqm.			₹	49.79

Say, ₹ 49.80

Say,

₹

13.54 Painting with acid proof paint (one or more coats) of approved brand and manufacture of required colour on old work to give an even shade including preparation of surface as required complete as per direction of the Engineer in charge.

	complete as per direction of the Engineer in charg	е.					
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12003	Acid proof paint	Ltr.	0.700	₹	230.00	₹	161.00
	b. Carriage:						
	Acid proof paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.35	₹	395.00	₹	138.25
0212	Helper	Day	0.35	₹	310.00	₹	108.50
	d. Sand paper, putty, brushes, wire brushes etc:	5.0%	on	₹	418.25	₹	20.91
	(LS)	5.0%	on	•	410.23	•	20.91
	e. Pumps for water, scaffolding, ladder etc: (LS)	4.0%	on	₹	439.16	₹	17.57
	f. Water charges: @ 1% on total.	1%	on	₹	456.73	₹	4.57
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	461.30	₹	13.84
						₹	475.14
	Add GST (multiplying factor)		0.1405			₹	66.76
						₹	541.90
	Add for contractor's profit and overheads	@	15%			₹	81.29
						₹	623.19
	Add cess	@	1%			₹	6.23
					Total	₹	629.42
		Total cos	t for 1 sqm.			₹	62.94

62.90

13.55 Painting with black anticorrosive bitumastic paint (one or more coats) of approved brand and manufacture on old work to give an even shade including preparation of surface as required

complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:	•					
12008	Anti corrosive bitumestic paint	Ltr.	0.570	₹	110.00	₹	62.70
	b. Carriage:						
	Anti corrosive bitumestic paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.35	₹	395.00	₹	138.25
0212	Helper	Day	0.35	₹	310.00	₹	108.50
	d. Sand paper, putty, brushes, wire brushes etc:	6.0%	on	₹	319.95	₹	19.20
	(LS)		311			-	
	e. Pumps for water, scaffolding, ladder etc: (LS)	4.0%	on	₹	339.15	₹	13.57
	f. Water charges: @ 1% on total.	1%	on	₹	352.72	₹	3.53
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	356.25	₹	10.69
						₹	366.94
	Add GST (multiplying factor)		0.1405			₹	51.56
			1.50			₹	418.50
	Add for contractor's profit and overheads	@	15%			₹	62.78
	Add coss	@	1%			₹	481.28
	Add cess	<u> </u>	1 70		Total	₹	4.81 486.09
		Total cos	st for 1 sqm.		iotai	₹	48.61
		1010100	7. 101 1 3q111.		Say,	₹	48.60
					Jay,	•	40.00

13.56 Floor painting with floor enamel paint (one or more coats) of approved brand and manufacture of required colour on old work to give an even shade including preparation of surface as required complete as per direction of the Engineer in charge.

	complete as per direction of the Engineer in charg						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12022	Floor enamel paint	Ltr.	0.910	₹	260.00	₹	236.60
	b. Carriage:						
	Floor enamel paint	LS	1.50	₹	1.20	₹	1.80
	c. Labours:						
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0227	Painter	Day	0.30	₹	395.00	₹	118.50
0212	Helper	Day	0.30	₹	310.00	₹	93.00
	d. Sand paper, putty, brushes, wire brushes etc:	5.0%	on	₹	456.10	₹	22.81
	(LS)	5.0%	OH	`	430.10	`	22.01
	e. Pumps for water, scaffolding, ladder etc: (LS)	4.0%	on	₹	478.91	₹	19.16
	f. Water charges: @ 1% on total.	1%	on	₹	498.07	₹	4.98
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	503.05	₹	15.09
						₹	518.14
	Add GST (multiplying factor)		0.1405			₹	72.80
						₹	590.94
	Add for contractor's profit and overheads	@	15%			₹	88.64
						₹	679.58
	Add cess	@	1%			₹	6.80
					Total	₹	686.38
		Total cos	st for 1 sqm.			₹	68.64
					Say,	₹	68.60

Varnishing with varnish (one or more coats of glue sizing) of approved brand and manufacture 13.57 on old work including preparation of surface as required complete as per direction of the Engineer in charge:-

13.57.1 With copal varnish.

Code	Description	Unit	Quantity	Rate	Amount

Say,

67.70

	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12038	Copal varnish (superior)	Ltr.	0.700	₹	130.00	₹	91.00
12023	Glue for sizing	Kg.	0.035	₹	135.00	₹	4.73
	b. Carriage:						
	Copal varnish	LS	1.00	₹	1.20	₹	1.20
	Glue for sizing	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.04	₹	310.00	₹	12.40
0227	Painter	Day	0.50	₹	395.00	₹	197.50
0212	Helper	Day	0.50	₹	310.00	₹	155.00
	d. Sand paper, putty, brushes, wire brushes etc: (LS)	5.00%	on	₹	463.03	₹	23.15
	e. Pumps for water, scaffolding, ladder etc: (LS)	1.00%	on	₹	486.18	₹	4.86
	f. Water charges: @ 1% on total.	1%	on	₹	491.04	₹	4.91
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	495.95	₹	14.88
						₹	510.83
	Add GST (multiplying factor)		0.1405			₹	71.77
						₹	582.60
	Add for contractor's profit and overheads	@	15%			₹	87.39
						₹	669.99
	Add cess	@	1%		-	₹	6.70
		-			Total	₹	676.69
		Lotal cos	st for 1 sqm.			₹	67.67

13.57.2 With spar varnish.

Code	Description	Unit	Quantity		Rate		Amount
•	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12039	Spar varnish (superior)	Ltr.	0.700	₹	130.00	₹	91.00
12023	Glue for sizing	Kg.	0.035	₹	135.00	₹	4.73
	b. Carriage:						
	Spar varnish	LS	1.00	₹	1.20	₹	1.20
	Glue for sizing	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.04	₹	310.00	₹	12.40
0227	Painter	Day	0.50	₹	395.00	₹	197.50
0212	Helper	Day	0.50	₹	310.00	₹	155.00
	d. Sand paper, putty, brushes, wire brushes etc: (LS)	5.0%	on	₹	463.03	₹	23.15
	e. Pumps for water, scaffolding, ladder etc: (LS)	0.50%	on	₹	486.18	₹	2.43
	f. Water charges: @ 1% on total.	1%	on	₹	488.61	₹	4.89
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	493.50	₹	14.81
						₹	508.31
	Add GST (multiplying factor)		0.1405			₹	71.42
						₹	579.73
	Add for contractor's profit and overheads	@	15%			₹	86.96
			1			₹	666.69
	Add cess	@	1%		T	₹	6.67
		-			Total	₹	673.36
		Total cos	t for 1 sqm.			₹	67.34
					Say,	₹	67.30

13.58 French spirit polishing (one or more coats of glue sizing) on old work including preparation of surface clean, dirt and dust free, sand papered smooth as required complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00 Sqm.	Sqm.			

a. Materials:

12047	Wood filler (Shelac)	Kg.	0.132	₹	320.00	₹	42.24
12036	Spirit	Ltr.	1.000	₹	66.00	₹	66.00
	b. Carriage:						
	Wood filler (Shelac)	LS	1.00	₹	1.20	₹	1.20
	Spirit	LS	1.50	₹	1.20	₹	1.80
	c. Labours:						
0224	Mate	Day	0.08	₹	310.00	₹	24.80
0227	Painter	Day	1.00	₹	395.00	₹	395.00
0212	Helper	Day	1.00	₹	310.00	₹	310.00
	d. Pigment, turpentine oil, white woolen cloth,						
	linseed oil, cotton, sand paper, putty, brushes,	2.0%	on	₹	841.04	₹	16.82
	wire brushes etc: (LS)						
	e. Pumps for water, scaffolding, ladder etc: (LS)	0.50%	on	₹	857.86	₹	4.29
	f. Water charges: @ 1% on total.	1%	on	₹	862.15	₹	8.62
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	870.77	₹	26.12
						₹	896.89
	Add GST (multiplying factor)		0.1405			₹	126.01
						₹	1,022.90
	Add for contractor's profit and overheads	@	15%			₹	153.44
						₹	1,176.34
	Add cess	@	1%			₹	11.76
					Total	₹	1,188.10
		Total cos	st for 1 sqm.		_	₹	118.81
					Say,	₹	118.80

13.59 Polishing on wood work with readymade wax polish (two or more coats) of approved brand and manufacture on old work including preparation of surface as required complete as per direction of the Engineer in charge.

	of the Engineer in Charge.						
Code	Description	Unit	Quantity		Rate	<u> </u>	Amount
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12044	Wax polish (ready made)	Kg.	0.250	₹	250.00	₹	62.50
	b. Carriage:						
	Wax polish	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						
0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.40	₹	395.00	₹	158.00
0212	Helper	Day	0.40	₹	310.00	₹	124.00
	d. Sand paper, putty, brushes, wire brushes,	3.0%	on	₹	355.00	₹	10.65
	soap, cloth etc: (LS)	0.070	511	`	555.00	`	10.00
	e. Pumps for water, scaffolding, ladder etc: (LS)	2.0%	on	₹	365.65	₹	7.31
	f Matar charges @ 10/ or total	10/	65	x	272.07	x	2.72
	f. Water charges: @ 1% on total.	1%	on	₹	372.96	₹	3.73
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	376.69	₹	11.30
	I I I I I I I I I I I I I I I I I I I		0.1.105			₹	387.99
	Add GST (multiplying factor)		0.1405			₹	54.51
	Add for contractor/o profit and accordance		1 = 0/			₹	442.50
	Add for contractor's profit and overheads	@	15%			₹	66.38 508.88
	Add cess	@	1%			₹	5.09
	Aud cess	<u> </u>	1 /0		Total	₹	513.97
		Total cos	st for 1 sqm.		10101	₹	513.47
		i otai cot	2 Or 1 3qiii.		Say,	₹	51.40
					Juy,	•	31.40

13.60 Floor polishing on masonry / concrete floors with readymade wax polish (two or more coats) of approved brand and manufacture on old work including preparation of surface as required complete as per direction of the Engineer in charge.

	complete as per an ection of the Engineer in charge	jc.					
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Sqm.	Sqm.					_
	a. Materials:						
12044	Wax polish (ready made)	Kg.	0.050	₹	250.00	₹	12.50
	b. Carriage:						

	Wax polish c. Labours:	LS	1.00	₹	1.20	₹	1.20
0224	Mate	Day	0.02	₹	310.00	₹	6.20
0227	Painter	Day	0.20	₹	395.00	₹	79.00
0212	Helper	Day	0.20	₹	310.00	₹	62.00
	d. Sand paper, putty, brushes, wire brushes, soap, cloth etc: (LS)	5.0%	on	₹	160.90	₹	8.05
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.0%	on	₹	168.95	₹	8.45
	f. Water charges: @ 1% on total.	1%	on	₹	177.40	₹	1.77
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	179.17	₹	5.38
						₹	184.55
	Add GST (multiplying factor)		0.1405			₹	25.93
						₹	210.48
	Add for contractor's profit and overheads	@	15%			₹	31.57
						₹	242.05
	Add cess	@	1%			₹	2.42
			·		Total	₹	244.47
		Total co	st for 1 sqm.			₹	24.45
					Say,	₹	24.50

13.61 Re-Lettering with black japan paint of approved brand and manufacture on old work as required complete as per direction of the Engineer in charge.

	compress as per amounts or the angular morning ge							
Code	Description	Unit	Quantity		Rate		Amount	
		Letter per						
	Details of cost for 100 letters 15 Cm height.	Cm						
		height						
	a. Materials:							
12009	Black japan paint	Ltr.	0.350	₹	100.00	₹	35.00	
	b. Carriage:							
	Black japan paint	LS	1.00	₹	1.20	₹	1.20	
	c. Labours:							
0224	Mate	Day	0.17	₹	310.00	₹	52.70	
0227	Painter	Day	2.10	₹	395.00	₹	829.50	
0212	Helper	Day	2.10	₹	310.00	₹	651.00	
	d. Acetic acid, soap, cloth, Sand paper, putty,	•		x	1 5/0 40	-	70.47	
	brushes, wire brushes etc: (LS)	5.0%	on	<	1,569.40	₹	78.47	
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.0%	on	₹	1,647.87	₹	82.39	
	f. Water charges: @ 1% on total.	1%	on	₹	1,730.26	₹	17.30	
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	1,747.56	₹	52.43	
						₹	1,799.99	
	Add GST (multiplying factor)		0.1405			₹	252.90	
						₹	2,052.89	
	Add for contractor's profit and overheads	@	15%			₹	307.93	
						₹	2,360.82	
	Add cess	@	1%			₹	23.61	
					Total	₹	2,384.43	
	Total cost for 1					₹	1.59	
		letter per	Cm height			`	1.57	

13.62 Painting (one or more coat) with black japan paint of approved brand and manufacture on old work to give an even shade as required complete as per direction of the Engineer in charge.

Code	Description	Unit	Quantity		Rate	ate Amou	
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Materials:						
12009	Black japan paint	Ltr.	0.700	₹	100.00	₹	70.00
	b. Carriage:						
0	Black japan paint	LS	1.00	₹	1.20	₹	1.20
	c. Labours:						

1.60

Say,

0224	Mate	Day	0.03	₹	310.00	₹	9.30
0227	Painter	Day	0.32	₹	395.00	₹	126.40
0212	Helper	Day	0.32	₹	310.00	₹	99.20
	d. Acetic acid, soap, cloth, Sand paper, putty, brushes, wire brushes etc: (LS)	5.0%	on	₹	306.10	₹	15.31
	e. Pumps for water, scaffolding, ladder etc: (LS)	5.0%	on	₹	321.41	₹	16.07
	f. Water charges: @ 1% on total.	1%	on	₹	337.48	₹	3.37
	g. Sundries & contingencies: @ 3% on total.	3%	on	₹	340.85	₹	10.23
						₹	351.08
	Add GST (multiplying factor)		0.1405			₹	49.33
						₹	400.41
	Add for contractor's profit and overheads	@	15%			₹	60.06
						₹	460.47
	Add cess	@	1%			₹	4.60
			•		Total	₹	465.07
		Total cos	st for 1 Sqm.			₹	46.51
					Say,	₹	46.50

SUB HEAD : 14.0 DISMANTLING AND DEMOLISHING WORK

- Specifications of dismantling and demolishing of different elements of structures and safety measures will be as per CPWD's specification.
- 2 For dismantling of structures, which remain submerged in water, the cost may be enhanced by 50%. If site condition warrant lowering of water level to facilitate dismantling, the cost may be enhanced by additional 25%.
- 3 Dismantling of utilities like water supply lines, electric and telephone lines is required to be done under the supervision of concerned departments with prior information to the users.
- The dismantled materials should be examined and a realistic assessment and provision should be made after due process for the salvage value for such materials, can be utilised for works or auctioned.

14.1 Demolishing lime concrete manually / by mechanical means including disposal of material with all lifts and upto 50 m lead etc. complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 1.000 Cum.	Sqm.				
	a. Labours:					
0224	Mate	Day	0.03	₹ 310.00	₹	9.30
0203	Belder	Day	0.38	₹ 310.00	₹	117.80
0212	Coolie	Day	0.38	₹ 310.00	₹	117.80
	b .Chiesel, sharpening tools, sledge hammers, scaffolding etc. (LS)	3.0%	on	₹ 244.90	₹	7.35
	c. Water charges: @ 1.00% on total	1.0%	on	₹ 252.25	₹	2.52
	d. Sundries & contingencies: @ 3% on total	3%	on	₹ 254.77	₹	7.64
					₹	262.41
	Add GST (multiplying factor)		0.1405		₹	36.87
					₹	299.28
	Add for contractor's profit and overheads	@	15%		₹	44.89
					₹	344.17
	Add cess	@	1%		₹	3.44
	Cost of 1 kg			Total	₹	347.61
		Total cos	for 1 Cum.		₹	347.61
				Say,	₹	347.60

14.2 Demolishing cement concrete manually / by mechanical means including disposal of material with all lifts and upto 50 m lead etc. complete as per direction of the Engineer- in-charge:-

14.2.1 Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1.000 Cum.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.10	₹	310.00	₹	31.00
0203	Belder	Day	1.59	₹	310.00	₹	492.90
0212	Coolie	Day	0.72	₹	310.00	₹	223.20
	b .Chiesel, sharpening tools, sledge hammers, scaffolding etc. (LS)	4.0%	on	₹	747.10	₹	29.88
	c. Water charges: @ 1.00% on total	1.0%	on	₹	776.98	₹	7.77
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	784.75	₹	23.54
						₹	808.29
	Add GST (multiplying factor)		0.1405			₹	113.56
						₹	921.85
	Add for contractor's profit and overheads	@	15%			₹	138.28
						₹	1,060.13
	Add cess	@	1%			₹	10.60
	Cost of 1 kg	Total cost	t for 1 Cum.		Total	₹	1,070.73
					Say,	₹	1,070.70

14.2.2 Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1.000 Cum.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.10	₹	310.00	₹	31.00
0203	Belder	Day	0.88	₹	310.00	₹	272.80
0212	Coolie	Day	0.55	₹	310.00	₹	170.50
	b .Chiesel, sharpening tools, sledge hammers, scaffolding etc. (LS)	4.0%	on	₹	474.30	₹	18.97
	c. Water charges: @ 1.00% on total	1.0%	on	₹	493.27	₹	4.93
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	498.20	₹	14.95
						₹	513.15
	Add GST (multiplying factor)		0.1405			₹	72.10
						₹	585.25
	Add for contractor's profit and overheads	@	15%			₹	87.79
						₹	673.04
	Add cess	@	1%			₹	6.73
	Cost of 1 kg	Total cost	for 1 Cum.		Total	₹	679.77
					Say,	₹	679.80

14.3 Demolishing reinforced cement concrete manually / by mechanical means including stacking of steel bars properly and disposal of unserviceable material with all lifts and upto 50 m lead etc. complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 1.000 Cum.	Sqm.				
	a. Labours:					
0224	Mate	Day	0.10	₹ 310.00	₹	31.00
0203	Belder	Day	2.65	₹ 310.00	₹	821.50
0212	Coolie	Day	0.72	₹ 310.00	₹	223.20
0211	Watchman	Day	0.05	₹ 310.00	₹	15.50
	b .Chiesel, sharpening tools, sledge hammers, scaffolding etc. (LS)	3.5%	on	₹ 1,091.20	₹	38.19
	c. Water charges: @ 1.00% on total	1.0%	on	₹ 1,129.39	₹	11.29
	d. Sundries & contingencies: @ 3% on total	3%	on	₹ 1,140.68	₹	34.22
					₹	1,174.90
	Add GST (multiplying factor)		0.1405		₹	165.07
					₹	1,339.97
	Add for contractor's profit and overheads	@	15%		₹	201.00
					₹	1,540.97
	Add cess	@	1%		₹	15.41
	Cost of 1 kg	Total cost	t for 1 Cum.	Total	₹	1,556.38
				Say,	₹	1,556.40

14.4 Demolishing reinforced brick work manually / by mechanical means including stacking of steel bars, bricks/ brick slump properly and disposal of unserviceable material with all lifts and upto 50 m lead etc. complete as per direction of the Engineer- in-charge.

	<u> </u>						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1.000 Cum.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.05	₹	310.00	₹	15.50
0203	Belder	Day	2.12	₹	310.00	₹	657.20
0212	Coolie	Day	0.90	₹	310.00	₹	279.00
0211	Watchman	Day	0.05	₹	310.00	₹	15.50
	b .Chiesel, sharpening tools, sledge hammers, scaffolding etc. (LS)	1.0%	on	₹	967.20	₹	9.67
	c. Water charges: @ 1.00% on total	1.0%	on	₹	976.87	₹	9.77
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	986.64	₹	29.60
						₹	1,016.24

Add GST (multiplying factor)		0.1405		₹	142.78
				₹	1,159.02
Add for contractor's profit and overheads	@	15%		₹	173.85
				₹	1,332.87
Add cess	@	1%		₹	13.33
Cost of 1 kg	Total cos	st for 1 Cum.	Total	₹	1,346.20
			Say,	₹	1,346.20

14.5 Extra for cutting reinforcement in RCC or R.B. work manually / by mechanical means (payment to made on the cross sectional area of RCC or R.B. work) etc. complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 0.50 Sqm.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.010	₹	310.00	₹	3.10
0215	Fitter	Day	0.250	₹	440.00	₹	110.00
0212	Helper	Day	0.250	₹	310.00	₹	77.50
	b .Chiesel, sharpening tools, hacksaw or gas cutters/concrete cutters, etc. (LS)	14.0%	on	₹	190.60	₹	26.68
	c. Water charges: @ 1.00% on total	1.0%	on	₹	217.28	₹	2.17
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	219.45	₹	6.58
						₹	226.03
	Add GST (multiplying factor)		0.1405			₹	31.76
						₹	257.79
	Add for contractor's profit and overheads	@	15%			₹	38.67
						₹	296.46
	Add cess	@	1%			₹	2.96
					Total	₹	299.42
		Total cos	t for 1 Sqm.			₹	598.84
					Say,	₹	598.80

14.6 Extra for scrapping, cleaning and straightening reinforcement obtained from RCC or R.B. work etc. complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 237 Kg.	Kg.					
	a. Labours:						
0224	Mate	Day	0.060	₹	310.00	₹	18.60
0215	Fitter	Day	0.750	₹	440.00	₹	330.00
0212	Helper	Day	0.750	₹	310.00	₹	232.50
	b . Sledge hammers, rail, etc. (LS)	4.0%	on	₹	581.10	₹	23.24
	c. Water charges: @ 1.00% on total	1.0%	on	₹	604.34	₹	6.04
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	610.38	₹	18.31
						₹	628.69
	Add GST (multiplying factor)		0.1405			₹	88.33
						₹	717.02
	Add for contractor's profit and overheads	@	15%			₹	107.55
						₹	824.57
	Add cess	@	1%			₹	8.25
					Total	₹	832.82
		Total co	st for 1 Kg.			₹	3.51
					Say,	₹	3.50

14.7 Demolishing brick work including stacking of serviceable materials and disposal of unserviceable materials with all lifts and upto a lead of 50m etc. complete as per direction of the Engineer- incharge:-

14.7.1 In mud mortar.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.000 Cum.	Sqm.			
	a. Labours:				
0224	Mate	Day	0.030	₹ 310.00	₹ 9.30

0203	Belder	Day	0.250	₹	310.00	₹	77.50
0212	Coolie	Day	0.300	₹	310.00	₹	93.00
0211	Watchman	Day	0.100	₹	310.00	₹	31.00
	b .Chiesel, sharpening tools, sledge hammers, scaffolding etc. (LS)	4.0%	on	₹	210.80	₹	8.43
	c. Water charges: @ 1.00% on total	1.0%	on	₹	219.23	₹	2.19
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	221.42	₹	6.64
						₹	228.06
	Add GST (multiplying factor)		0.1405			₹	32.04
						₹	260.10
	Add for contractor's profit and overheads	@	15%			₹	39.02
						₹	299.12
	Add cess	@	1%			₹	2.99
		Total cos	t for 1 Cum.		Total	₹	302.11
					Say,	₹	302.10

14.7.2 In lime mortar.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1.000 Cum.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.030	₹	310.00	₹	9.30
0203	Belder	Day	0.370	₹	310.00	₹	114.70
0212	Coolie	Day	0.300	₹	310.00	₹	93.00
0211	Watchman	Day	0.100	₹	310.00	₹	31.00
	b .Chiesel, sharpening tools, sledge hammers, scaffolding etc. (LS)	4.0%	on	₹	248.00	₹	9.92
	c. Water charges: @ 1.00% on total	1.0%	on	₹	257.92	₹	2.58
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	260.50	₹	7.82
						₹	268.32
	Add GST (multiplying factor)		0.1405			₹	37.70
						₹	306.02
	Add for contractor's profit and overheads	@	15%			₹	45.90
						₹	351.92
	Add cess	@	1%			₹	3.52
		Total cost	for 1 Cum.		Total	₹	355.44
					Say,	₹	355.40

14.7.3 In cement mortar.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1.000 Cum.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.060	₹	310.00	₹	18.60
0203	Belder	Day	0.950	₹	310.00	₹	294.50
0212	Coolie	Day	0.850	₹	310.00	₹	263.50
0211	Watchman	Day	0.100	₹	310.00	₹	31.00
	b .Chiesel, sharpening tools, sledge hammers, scaffolding etc. (LS)	2.0%	on	₹	607.60	₹	12.15
	c. Water charges: @ 1.00% on total	1%	on	₹	619.75	₹	6.20
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	625.95	₹	18.78
						₹	644.73
	Add GST (multiplying factor)		0.1405			₹	90.58
						₹	735.31
	Add for contractor's profit and overheads	@	15%			₹	110.30
						₹	845.61
	Add cess	@	1%			₹	8.46
		Total cost	for 1 Cum.		Total	₹	854.07
					Say,	₹	854.10

14.8 Removing mortar from brick and cleaning bricks including stacking bricks and disposal rubbish with all lifts and upto a lead of 50 m etc. complete as per direction of the Engineer- in-charge:-

14.8.1 In mud mortar.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 1000 Nos.	Sqm.				
	a. Labours:					
0224	Mate	Day	0.17	₹ 310.00	₹	52.70
0203	Belder	Day	2.30	₹ 310.00	₹	713.00
0212	Coolie	Day	1.30	₹ 310.00	₹	403.00
0211	Watchman	Day	0.10	₹ 310.00	₹	31.00
0220	Mason 2nd class	Day	0.35	₹ 395.00	₹	138.25
	b.Chiesel, sharpening tools, sledge hammers, etc. (LS)	4.0%	on	₹ 1,337.95	₹	53.52
	c. Water charges: @ 1.00% on total	1.0%	on	₹ 1,391.47	₹	13.91
	d. Sundries & contingencies: @ 3% on total	3%	on	₹ 1,405.38	₹	42.16
					₹	1,447.54
	Add GST (multiplying factor)		0.1405		₹	203.38
					₹	1,650.92
	Add for contractor's profit and overheads	@	15%		₹	247.64
					₹	1,898.56
	Add cess	@	1%		₹	18.99
				Total	₹	1,917.55
		Total cos	t for Each.		₹	1.92
				Say,	₹	1.90

14.8.2 In lime mortar.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1000 Nos.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.19	₹	310.00	₹	58.90
0203	Belder	Day	2.50	₹	310.00	₹	775.00
0212	Coolie	Day	1.50	₹	310.00	₹	465.00
0211	Watchman	Day	0.10	₹	310.00	₹	31.00
0220	Mason 2nd class	Day	0.70	₹	395.00	₹	276.50
	b.Chiesel, sharpening tools, sledge hammers, etc. (LS)	4%	on	₹	1,606.40	₹	64.26
	c. Water charges: @ 1.00% on total	1.0%	on	₹	1,670.66	₹	16.71
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	1,687.37	₹	50.62
						₹	1,737.99
	Add GST (multiplying factor)		0.1405			₹	244.19
						₹	1,982.18
	Add for contractor's profit and overheads	@	15%			₹	297.33
						₹	2,279.51
	Add cess	@	1%			₹	22.80
					Total	₹	2,302.31
		Total co	st for Each.			₹	2.30
					Say,	₹	2.30

14.8.3 In cement mortar.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1000 Nos.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.21	₹	310.00	₹	65.10
0203	Belder	Day	3.40	₹	310.00	₹	1,054.00
0212	Coolie	Day	1.35	₹	310.00	₹	418.50
0211	Watchman	Day	0.10	₹	310.00	₹	31.00
0220	Mason 2nd class	Day	1.10	₹	395.00	₹	434.50

b.Chiesel, sharpening tools, sledge hammers, etc. (LS)	3.00%	on	₹ 2,003.10	₹	60.09
c. Water charges: @ 1.00% on total	1.0%	on	₹ 2,063.19	₹	20.63
d. Sundries & contingencies: @ 3% on total	3%	on	₹ 2,083.82	₹	62.51
				₹	2,146.33
Add GST (multiplying factor)		0.1405		₹	301.56
				₹	2,447.89
Add for contractor's profit and overheads	@	15%		₹	367.18
				₹	2,815.07
Add cess	@	1%		₹	28.15
			Total	₹	2,843.22
	Total cos	st for Each.		₹	2.84
			Say,	₹	2.80

14.9 Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead:

14.9.1 Of area 3 sqm and below.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 No.	Each					
	a. Labours:						
0220	Mason (brick layer) 2nd class	Day	0.100	₹	395.00	₹	39.50
0203	Belder	Day	0.180	₹	310.00	₹	55.80
0207	Blacksmith 2nd class	Day	0.050	₹	395.00	₹	19.75
	b .Chiesel, sharpening tools, sledge hammers, ropes, scaffolding etc. (LS)	2.00%	on	₹	115.05	₹	2.30
	c. Water charges: @ 1.00% on total	1.0%	on	₹	117.35	₹	1.17
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	118.52	₹	3.56
						₹	122.08
	Add GST (multiplying factor)		0.1405			₹	17.15
						₹	139.23
	Add for contractor's profit and overheads	@	15%			₹	20.88
						₹	160.11
	Add cess	@	1%			₹	1.60
					Total	₹	161.71
		_			Say,	₹	161.70

14.9.2 Of area beyond 3 sqm.

14.7.2	Or area beyond 3 sqrii.		T			1	
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 No.	Each					
	a. Labours:						
0220	Mason (brick layer) 2nd class	Day	0.130	₹	395.00	₹	51.35
0203	Belder	Day	0.250	₹	310.00	₹	77.50
0211	Blacksmith 2nd class	Day	0.070	₹	395.00	₹	27.65
	b .Chiesel, sharpening tools, sledge hammers, ropes, scaffolding etc. (LS)	4.00%	on	₹	156.50	₹	6.26
	c. Water charges: @ 1.00% on total	1.0%	on	₹	162.76	₹	1.63
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	164.39	₹	4.93
						₹	169.32
	Add GST (multiplying factor)		0.1405			₹	23.79
						₹	193.11
	Add for contractor's profit and overheads	@	15%			₹	28.97
	·					₹	222.08
	Add cess	@	1%			₹	2.22
					Total	₹	224.30
					Say,	₹	224.30

14.10 Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :

14.10.1 Of area 3 sqm and below.

Code	Description	Unit	Quantity	Rate	Amount	
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Details of cost for 1 No.	Each		

	a. Labours:						
0210	Carpenter 2nd class	Day	0.050	₹	395.00	₹	19.75
0203	Belder	Day	0.060	₹	310.00	₹	18.60
0211	Watchman	Day	0.010	₹	310.00	₹	3.10
	b .Chiesel, sharpening tools, sledge hammers, ropes, scaffolding etc. (LS)	1.0%	on	₹	41.45	₹	0.41
	c. Water charges: @ 1.00% on total	1.0%	on	₹	41.86	₹	0.42
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	42.28	₹	1.27
						₹	43.55
	Add GST (multiplying factor)		0.1405			₹	6.12
						₹	49.67
	Add for contractor's profit and overheads	@	15%			₹	7.45
						₹	57.12
	Add cess	@	1%			₹	0.57
		Total cost for Each.			Total	₹	57.69
					Say,	₹	57.70

14.10.2 Of area beyond 3 sqm.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 No.	Each					
	a. Labours:						
0210	Carpenter 2nd class	Day	0.070	₹	395.00	₩	27.65
0203	Belder	Day	0.100	₹	310.00	₩	31.00
0211	Watchman	Day	0.010	₹	310.00	₹	3.10
	b .Chiesel, sharpening tools, sledge hammers, ropes, scaffolding etc. (LS)	1.0%	on	₹	61.75	₹	0.62
	c. Water charges: @ 1.00% on total	1.0%	on	₹	62.37	₹	0.62
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	62.99	₹	1.89
						₹	64.88
	Add GST (multiplying factor)		0.1405			₹	9.12
						₹	74.00
	Add for contractor's profit and overheads	@	15%			₹	11.10
						₹	85.10
	Add cess	@	1%			₹	0.85
		Total cost for Each.		-	Total	₹	85.95
_		_			Say,	₹	86.00

14.11 Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead:

14.11.1 Of sectional area 40 sq cm and below.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Mtr.	Mtr.					
	a. Labours:						
0210	Carpenter (2nd class)	Day	0.080	₹	395.00	₹	31.60
0203	Belder	Day	0.080	₹	310.00	₹	24.80
	b .Chiesel, sharpening tools, sledge hammers, ropes, scaffolding/ladder etc. (LS)	1.0%	on	₹	56.40	₹	0.56
	c. Water charges: @ 1.00% on total	1.0%	on	₹	56.96	₹	0.57
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	57.53	₹	1.73
						₹	59.26
	Add GST (multiplying factor)		0.1405			₹	8.33
						₹	67.59
	Add for contractor's profit and overheads	@	15%			₹	10.14
						₹	77.73
	Add cess	@	1%			₹	0.78
					Total	₹	78.51
		Total cos	Total cost for 1 Mtr.			₹	7.85
					Say,	₹	7.90

14.11.2 Of sectional area beyond 40 sq cm.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 1.000 Cum.	Cum.				
	a. Labours:					
0210	Carpenter (2nd class)	Day	2.000	₹ 395.00	₹	790.00
0203	Belder	Day	2.000	₹ 310.00	₹	620.00
	b .Chiesel, sharpening tools, sledge hammers, ropes, scaffolding/ladder etc. (LS)	1.0%	on	₹ 1,410.00	₹	14.10
	c. Water charges: @ 1.00% on total	1.0%	on	₹ 1,424.10	₹	14.24
	d. Sundries & contingencies: @ 3% on total	3%	on	₹ 1,438.34	₹	43.15
					₹	1,481.49
	Add GST (multiplying factor)		0.1405		₹	208.15
					₹	1,689.64
	Add for contractor's profit and overheads	@	15%		₹	253.45
					₹	1,943.09
	Add cess	@	1%		₹	19.43
		Total cost for 1Cum.		Total	₹	1,962.52
				Say,	₹	1,962.50

14.12 Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional span of 1 m or part thereof beyond 10 m etc. complete as per direction of the Engineer- in-charge:-

14.12.1 Of sectional area 40 sq cm and below.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 10.00 Mtr.	Mtr./ Mtr span				
	a. Labours:					
0210	Carpenter (2nd class)	Day	0.006	₹ 395.0	0 ₹	2.37
0203	Belder	Day	0.008	₹ 310.0	0 ₹	2.48
	b .Chiesel, sharpening tools, sledge hammers, ropes etc. (LS)	0.5%	on	₹ 4.8	5 ₹	0.02
	c. Water charges: @ 1.00% on total	1.0%	on	₹ 4.8	7 ₹	0.05
	d. Sundries & contingencies: @ 3% on total	3%	on	₹ 4.9	2 ₹	0.15
					₹	5.07
	Add GST (multiplying factor)		0.1405		₹	0.71
					₹	5.78
	Add for contractor's profit and overheads	@	15%		₹	0.87
					₹	6.65
	Add cess	@	1%		₹	0.07
		Total cost for 1 Mtr/ Mtr		Total	₹	6.72
					₹	0.67
				Say,	₹	0.70

14.12.2 Of sectional area beyond 40 sq cm.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1.000 Cum per Mtr.	Cum/ Mtr span.					
	a. Labours:						
0210	Carpenter (2nd class)	Day	0.200	₹	395.00	₹	79.00
0203	Belder	Day	0.300	₹	310.00	₹	93.00
	b .Chiesel, sharpening tools, sledge hammers, ropes etc. (LS)	1.0%	on	₹	172.00	₹	1.72
	c. Water charges: @ 1.00% on total	1.0%	on	₹	173.72	₹	1.74
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	175.46	₹	5.26
						₹	180.72
	Add GST (multiplying factor)		0.1405			₹	25.39
						₹	206.11
	Add for contractor's profit and overheads	@	15%		•	₹	30.92
						₹	237.03
	Add cess	@	1%		•	₹	2.37

	Total cost for 1 Cum/ Mtr span	Total	₹	239.40
		Sav.	₹	239.40

14.13 Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional height of 1 m or part thereof beyond 5 m etc. complete as per direction of the Engineer- in-charge:-

14.13.1 Of sectional area 40 sq cm and below.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 Mtr.	Mtr./ Mtr span					
	a. Labours:						
0210	Carpenter (2nd class)	Day	0.010	₹	395.00	₹	3.95
0203	Belder	Day	0.020	₹	310.00	₹	6.20
	b .Chiesel, sharpening tools, sledge hammers, ropes etc. (LS)	1.0%	on	₹	10.15	₹	0.10
	c. Water charges: @ 1.00% on total	1.0%	on	₹	10.25	₹	0.10
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	10.35	₹	0.31
						₹	10.66
	Add GST (multiplying factor)		0.1405			₹	1.50
						₹	12.16
	Add for contractor's profit and overheads	@	15%			₹	1.82
						₹	13.98
	Add cess	@	1%			₹	0.14
					Total	₹	14.12
		Total cost for 1 Mtr/ Mtr span				₹	1.41
					Say,	₹	1.40

14.13.2 Of sectional area beyond 40 sq cm.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1.000 Cum per Mtr.	Cum/ Mtr span.					
	a. Labours:						
0210	Carpenter (2nd class)	Day	0.250	₹	395.00	₹	98.75
0203	Belder	Day	0.500	₹	310.00	₹	155.00
	b .Chiesel, sharpening tools, sledge hammers, ropes etc. (LS)	1.0%	on	₹	253.75	₹	2.54
	c. Water charges: @ 1.00% on total	1.0%	on	₹	256.29	₹	2.56
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	258.85	₹	7.77
						₹	266.62
	Add GST (multiplying factor)		0.1405			₹	37.46
						₹	304.08
	Add for contractor's profit and overheads	@	15%			₹	45.61
						₹	349.69
	Add cess	@	1%			₹	3.50
		Total cost for 1 Cum/ Mtr span		-	Total	₹	353.19
					Say,	₹	353.20

14.14 Dismantling steel work in single section including dismembering and stacking of serviceable materials and unserviceable materials separately with all lifts and upto a lead of 50 m etc.complete as per direction of the Engineer- in-charge:-

14.14.1 R.S Joists.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100.00 Kg.	Kg.			
	a. Labours:				
0224	Mate	Day	0.020	₹ 310.00	₹ 6.20
0215	Fitter	Day	0.100	₹ 440.00	₹ 44.00
0212	Helper	Day	0.100	₹ 310.00	₹ 31.00

0211	Watchman	Day	0.010	₹	310.00	₹	3.10
	b .Gas cutters, pulleys, ropes, scaffolding etc. (LS)	1.0%	on	₹	84.30	₹	0.84
	c. Water charges: @ 1.00% on total	1.0%	on	₹	85.14	₹	0.85
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	85.99	₹	2.58
						₹	88.57
	Add GST (multiplying factor)		0.1405			₹	12.44
						₹	101.01
	Add for contractor's profit and overheads	@	15%			₹	15.15
						₹	116.16
	Add cess	@	1%			₹	1.16
					Total	₹	117.32
		Total co	Total cost for 1 Kg.			₹	1.17
					Say,	₹	1.20

14.14.2 Channels, angles, tees and flats.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 100.00 Kg.	Kg.					
	a. Labours:						
0224	Mate	Day	0.010	₹	310.00	₹	3.10
0215	Fitter	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
0211	Watchman	Day	0.010	₹	310.00	₹	3.10
	b .Gas cutters, pulleys, ropes, scaffolding etc. (LS)	1.0%	on	₹	43.70	₹	0.44
	c. Water charges: @ 1.00% on total	1.0%	on	₹	44.14	₹	0.44
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	44.58	₹	1.34
						₹	45.92
	Add GST (multiplying factor)		0.1405			₹	6.45
						₹	52.37
	Add for contractor's profit and overheads	@	15%			₹	7.86
						₹	60.23
	Add cess	@	1%			₹	0.60
					Total	₹	60.83
		Total cost for 1 Kg.				₹	0.61
					Say,	₹	0.60

14.15 Dismantling steel work in built up section in channels, angles, tees, flats including all gusset plates, bolts, nuts, cutting rivets, welding including dismembering and stacking of serviceable materials and unserviceable materials separately with all lifts and upto a lead of 50 m etc. complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 100.00 Kg.	Kg.					
	a. Labours:						
0224	Mate	Day	0.030	₹	310.00	₹	9.30
0215	Fitter	Day	0.150	₹	440.00	₹	66.00
0212	Helper	Day	0.200	₹	310.00	₹	62.00
0212	Khalashi	Day	0.100	₹	310.00	₹	31.00
0211	Watchman	Day	0.010	₹	310.00	₹	3.10
	b .Gas cutters, gas, pulleys, ropes, ladders/ scaffolding etc. (LS)	1.0%	on	₹	171.40	₹	1.71
	c. Water charges: @ 1.00% on total	1.0%	on	₹	173.11	₹	1.73
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	174.84	₹	5.25
						₹	180.09
	Add GST (multiplying factor)		0.1405			₹	25.30
						₹	205.39
	Add for contractor's profit and overheads	@	15%			₹	30.81
						₹	236.20
	Add cess	@	1%			₹	2.36

		Total	₹	238.56
	Total cost for 1 Kg.		₹	2.39
		Say,	3	2.40

14.16 Dismantling steel work in built up section manually / mechanically without dismembering and stacking of serviceable materials and unserviceable materials separately with all lifts and upto a lead of 50 m etc. complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 100.00 Kg.	Kg.					
	a. Labours:						
0224	Mate	Day	0.030	₹	310.00	₹	9.30
0215	Fitter	Day	0.100	₹	440.00	₹	44.00
0212	Helper	Day	0.100	₹	310.00	₹	31.00
0212	Khalashi	Day	0.100	₹	310.00	₹	31.00
0211	Watchman	Day	0.010	₹	310.00	₹	3.10
	b.Gas cutters, gas, pulleys, ropes, ladders/ scaffolding etc. (LS)	1.0%	on	₹	118.40	₹	1.18
	c. Water charges: @ 1.00% on total	1.0%	on	₹	119.58	₹	1.20
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	120.78	₹	3.62
						₹	124.40
	Add GST (multiplying factor)		0.1405			₹	17.48
						₹	141.88
	Add for contractor's profit and overheads	@	15%			₹	21.28
						₹	163.16
	Add cess	@	1%			₹	1.63
					Total	₹	164.79
		Total cos	st for 1 Kg.			₹	1.65
		_			Say,	₹	1.70

14.17 Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of 1 m or part thereof beyond 10 m etc. complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 10.00 Kg per Mtr. span.	Kg/ Mtr span				
	a. Labours:					
0215	Fitter	Day	0.003	₹ 440.0	0 ₹	1.32
0212	Helper	Day	0.001	₹ 310.0	0 ₹	0.31
0203	Belder	Day	0.004	₹ 310.0	0 ₹	1.24
	b. Water charges: @ 1.00% on total	1.0%	on	₹ 2.8	7 ₹	0.03
	c. Sundries & contingencies: @ 3% on total	3%	on	₹ 2.9	0 ₹	0.09
					₹	2.99
	Add GST (multiplying factor)		0.1405		₹	0.42
					₹	3.41
	Add for contractor's profit and overheads	@	15%		₹	0.51
	·				₹	3.92
	Add cess	@	1%		₹	0.04
				Total	₹	3.96

	Total cost for 1 Kg/ Mtr span		₹	0.40
		Say,	₹	0.40

14.18 Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of 1 m or part thereof beyond 5 m etc. complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity	F	Rate		Amount
	Details of cost for 10.00 Kg per Mtr. height.	Kg/ Mtr height					
	a. Labours:						
0215	Fitter	Day	0.003	₹ .	440.00	₹	1.32
0212	Helper	Day	0.001	₹ :	310.00	₹	0.31
0203	Belder	Day	0.004	₹ :	310.00	₹	1.24
	b. Water charges: @ 1.00% on total	1.0%	on	₹	2.87	₹	0.03
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	2.90	₹	0.09
						₹	2.99
	Add GST (multiplying factor)		0.1405			₹	0.42
						₹	3.41
	Add for contractor's profit and overheads	@	15%			₹	0.51
						₹	3.92
	Add cess	@	1%			₹	0.04
				Т	otal	₹	3.96
			for 1 Kg/ Mtr eight			₹	0.40
				(Say,	₹	0.40

14.19 Dismantling dry brick pitching in floors, drains etc. including stacking of serviceable materials and unserviceable materials separately with all lifts and upto a lead of 50 m etc.complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1.000 Cum.	Kg/ Mtr.					
	a. Labours:						
0224	Mate	Day	0.050	₹	310.00	₹	15.50
0203	Belder	Day	0.350	₹	310.00	₹	108.50
0212	Coolie	Day	0.900	₹	310.00	₹	279.00
	b. Water charges: @ 1.00% on total	1.0%	on	₹	403.00	₹	4.03
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	407.03	₹	12.21
						₹	419.24
	Add GST (multiplying factor)		0.1405			₹	58.90
						₹	478.14
	Add for contractor's profit and overheads	@	15%			₹	71.72
						₹	549.86
	Add cess	@	1%			₹	5.50
					Total	₹	555.36
					Say,	₹	555.40

14.20 Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.

15.20.1 For thickness of tiles 10 mm to 25 mm

10.20.1	TOT THEKTICSS OF THES TO THIT TO 25 THIT			_		_							
Code	Description	Unit	Quantity		Rate		Rate		Rate		Rate		Amount
	Details of cost for 10 sqm	sqm											
	a. Labours:												
0220	Mason (brick layer) 2nd class	Day	0.300	₹	395.00	₹	118.50						
0203	Belder	Day	0.120	₹	310.00	₹	37.20						
0212	Coolie	Day	0.240	₹	310.00	₹	74.40						
	b. Water charges: @ 1.00% on total	1.0%	on	₹	230.10	₹	2.30						
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	232.40	₹	6.97						

				₹	239.37
Add GST (multiplying factor)		0.1405		₹	33.63
				₹	273.00
Add for contractor's profit and overheads	@	15%		₹	40.95
				₹	313.95
Add cess	@	1%		₹	3.14
	Total co	Total cost for 10 sqm Total cost for 1 sqm		₹	317.09
	Total co			₹	31.71
			Say,	₹	31.70

15.20.2 For thickness of tiles above 25 mm and up to 40 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sqm	sqm					
	a. Labours:						
0220	Mason (brick layer) 2nd class	Day	0.590	₹	395.00	₹	233.05
0203	Belder	Day	0.180	₹	310.00	₹	55.80
0212	Coolie	Day	0.240	₹	310.00	₹	74.40
	b. Water charges: @ 1.00% on total	1.0%	on	₹	363.25	₹	3.63
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	366.88	₹	11.01
						₹	377.89
	Add GST (multiplying factor)		0.1405			₹	53.09
						₹	430.98
	Add for contractor's profit and overheads	@	15%			₹	64.65
						₹	495.63
	Add cess	@	1%			₹	4.96
		Total cost	Total cost for 10 sqm		Total	₹	500.59
		Total cos	t for 1 sqm	-	Total	₹	50.06
					Say,	₹	50.10

14.21 Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 10 sqm	sqm				
	a. Labours:					
0212	Coolie	Day	0.750	₹ 310.00	₹	232.50
0203	Belder	Day	1.770	₹ 310.00	₹	548.70
	b. Water charges: @ 1.00% on total	1.0%	on	₹ 781.20	₹	7.81
	c. Sundries & contingencies: @ 3% on total	3%	on	₹ 789.01	₹	23.67
					₹	812.68
	Add GST (multiplying factor)		0.1405		₹	114.18
					₹	926.86
	Add for contractor's profit and overheads	@	15%		₹	139.03
					₹	1,065.89
	Add cess	@	1%		₹	10.66
		Total cos	Total cost for 10 sqm Total cost for 1 sqm		₹	1,076.55
		Total cos			₹	107.66
				Say,	₹	107.70

14.22 Dismantling GS sheet roofing including ridges, hips, valleys, gutters wind ties etc. including dismembering and stacking of serviceable materials and unserviceable materials separately with all lifts and upto a lead of 50 m etc.complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00 Sqm.	Sqm.			
	a. Labours:				
0224	Mate	Day	0.060	₹ 310.00	₹ 18.60
0210	Carpenter (2nd class)	Day	0.450	₹ 395.00	₹ 177.75
0212	Helper	Day	0.850	₹ 310.00	₹ 263.50

0211	Watchman	Day	0.100	₹	310.00	₹	31.00
	b.Pulleys, ropes, ladders/ scaffolding etc. (LS)	4.0%	on	₹	490.85	₹	19.63
	c. Water charges: @ 1.00% on total	1.0%	on	₹	510.48	₹	5.10
	d. Sundries & contingencies: @ 3% on total	3%	on	₹	515.58	₹	15.47
						₹	531.05
	Add GST (multiplying factor)		0.1405			₹	74.61
						₹	605.66
	Add for contractor's profit and overheads	@	15%			₹	90.85
						₹	696.51
	Add cess	@	1%			₹	6.97
		Total cost for 10 sqm			Total	₹	703.48
		Total cost for 1 Sqm.				₹	70.35
			•		Say,	₹	70.40

14.23 Dismantling old plaster or pointing, raking out joints, cleaning and preparing the surface for replastering or re-pointing including disposal of rubbish to the dumping ground with all leads and lifts etc.complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity	Rate	,	Amount
	Details of cost for 10.00 Sqm.	Sqm.				
	a. Labours:					
0203	Belder	Day	0.360	₹ 310.00	₹	111.60
0212	Coolie	Day	0.080	₹ 310.00	₹	24.80
0205	Waterman	Day	0.070	₹ 310.00	₹	21.70
	b .Chiesel, raking tools, wire brushes, ladders/scaffolding etc. (LS)	3.0%	on	₹ 158.10	₹	4.74
	c. Water charges: @ 1.00% on total	1.0%	on	₹ 162.84	₹	1.63
	d. Sundries & contingencies: @ 3% on total	3%	on	₹ 164.47	₹	4.93
					₹	169.40
	Add GST (multiplying factor)		0.1405		₹	23.80
					₹	193.20
	Add for contractor's profit and overheads	@	15%		₹	28.98
					₹	222.18
	Add cess	@	1%		₹	2.22
		Total cost	t for 10 sqm	Total	₹	224.40
		Total cos	t for 1 Sqm.		₹	22.44
			_	Say,	₹	22.40

14.24 Dismantling old glass panes from wooden / steel structures including stacking of serviceable materials and disposal of rubbish and unserviceable materials to the dumping ground with all leads and lifts etc.complete as per direction of the Engineer- in-charge.

Code	Description	Unit	Quantity	Rate		Amount	
	Details of cost for 10.00 Sqm.	Sqm.					
	a. Labours:						
0224	Mate	Day	0.020	₹ 310.	00	₹ 6.2	20
0210	Carpenter (2nd class)	Day	0.100	₹ 395.	00	₹ 39.5	50
0212	Helper	Day	0.100	₹ 310.	00	₹ 31.0)0
	b .Chiesel, raking tools, wire brushes, ladders/scaffolding etc. (LS)	1.0%	on	₹ 76.	70	₹ 0.7	77
	c. Water charges: @ 1.00% on total	1.0%	on	₹ 77.	47	₹ 0.7	77
	d. Sundries & contingencies: @ 3% on total	3%	on	₹ 78.	24	₹ 2.3	35
						₹ 80.5	59
	Add GST (multiplying factor)		0.1405			₹ 11.3	32
						₹ 91.9) 1
	Add for contractor's profit and overheads	@	15%			₹ 13.7	79
						₹ 105.7	70
	Add cess	@	1%			₹ 1.0)6
		Total cost	for 10 sqm	Total		₹ 106.7	76
		Total cost	t for 1 Sqm.			₹ 10.6	86

	Sav	I ∌	10 70
	i sav.	1 \	10.70

14.25 Dismantling ballies or wooden posts and struts including stacking within 50 metres lead.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 50.00 m.	m					
	a. Labours:						
0203	Belder	Day	0.500	₹	310.00	₹	155.00
0212	Coolie	Day	0.500	₹	310.00	₹	155.00
	b. Water charges: @ 1.00% on total	1.0%	on	₹	310.00	₹	3.10
	c. Sundries & contingencies: @ 3% on total	2%	on	₹	313.10	₹	6.26
						₹	319.36
	Add GST (multiplying factor)		0.1405			₹	44.87
						₹	364.23
	Add for contractor's profit and overheads	@	15%			₹	54.63
						₹	418.86
	Add cess	@	1%			₹	4.19
		Total cost for 10 sqm			Total	₹	423.05
		Total cost for 1 m.				₹	8.46
					Say,	₹	8.50

14.26 Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of:

14.26.1 T' or 'L' iron or pipe

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for each	each					
	a. Labours:						
0203	Belder	Day	0.107	₹	310.00	₹	33.17
0212	Coolie	Day	0.100	₹	310.00	₹	31.00
	b. Excavation, transporting and stacking the posts to the required place within 50 metre s lead, refilling the pit and dressing the same: @ 1.00% on total		on	₹	64.17	₹	1.93
	c. Extra for lifting of R.C.C. posts being heavier than L iron and cleaning the posts of stacking concrete: @ 1.00% on total		on	₹	64.17	₹	9.63
	d. Water charges: @ 1.00% on total	1.0%	on	₹	64.17	₹	0.64
	e. Sundries & contingencies: @ 3% on total	3%	on	₹	64.81	₹	1.94
						₹	78.31
	Add GST (multiplying factor)		0.1405			₹	11.00
						₹	89.31
	Add for contractor's profit and overheads	@	15%			₹	13.40
						₹	102.71
	Add cess	@	1%			₹	1.03
		Total cost for each			Total	₹	103.74
					Say,	₹	103.70

14.26.2 RCC

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for each	each					
	a. Labours:						
0203	Belder	Day	0.150	₹	310.00	₹	46.50
0212	Coolie	Day	0.100	₹	310.00	₹	31.00
	b. Excavation, transporting and stacking the posts to the required place within 50 metre s lead, refilling the pit and dressing the same: @ 1.00% on total		on	₹	77.50	₹	2.33

c. Extra for lifting of R.C.C. posts being heavier than L iron and cleaning the posts of stacking concrete: @ 1.00% on total		on	₹	77.50	₹	19.38
d. Water charges: @ 1.00% on total	1.0%	on	₹	77.50	₹	0.78
e. Sundries & contingencies: @ 3% on total	3%	on	₹	78.28	₹	2.35
					₹	102.34
Add GST (multiplying factor)		0.1405			₹	14.38
					₹	116.72
Add for contractor's profit and overheads	@	15%			₹	17.51
					₹	134.23
Add cess	@	1%			₹	1.34
	Total cost for each			Total	₹	135.57
				Say,	₹	135.60

14.27 Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead :

14.27.1 Thickness up to 40 mm

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sqm.	Sqm.					
	a. Labours:						
0203	Belder	Day	2.000	₹	310.00	₹	620.00
0220	Mason (brick layer) 2nd class	Day	0.200	₹	395.00	₹	79.00
0212	Coolie	Day	0.500	₹	310.00	₹	155.00
	b. Water charges: @ 1.00% on total	1.0%	on	₹	854.00	₹	8.54
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	862.54	₹	25.88
						₹	888.42
	Add GST (multiplying factor)		0.1405			₹	124.82
						₹	1,013.24
	Add for contractor's profit and overheads	@	15%			₹	151.99
	·					₹	1,165.23
	Add cess	@	1%			₹	11.65
					Total	₹	1,176.88
		Total cos	t for 1 sqm.			₹	117.69
					Say,	₹	117.70

14.27.2 Thickness above 40 mm up to 75 mm

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 10 sqm.	Sqm.				
	a. Labours:					
0203	Belder	Day	3.000	₹ 310.00	₹	930.00
0220	Mason (brick layer) 2nd class	Day	0.300	₹ 395.00	₹	118.50
0212	Coolie	Day	0.750	₹ 310.00	₹	232.50
	b. Water charges: @ 1.00% on total	1.0%	on	₹ 1,281.00	₹	12.81
	c. Sundries & contingencies: @ 3% on total	3%	on	₹ 1,293.81	₹	38.81
					₹	1,332.62
	Add GST (multiplying factor)		0.1405		₹	187.23
					₹	1,519.85
	Add for contractor's profit and overheads	@	15%		₹	227.98
					₹	1,747.83
	Add cess	@	1%		₹	17.48
				Total	₹	1,765.31
		Total cos	t for 1 sqm.		₹	176.53
				Say,	₹	176.50

14.28 Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge:

14.28.1 15 mm to 40 mm nominal bore

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre	m					
	a. Labours:						
0203	Belder	Day	0.660	₹	310.00	₹	204.60
0212	Coolie	Day	0.660	₹	310.00	₹	204.60
	b. Water charges: @ 1.00% on total	1.0%	on	₹	409.20	₹	4.09
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	413.29	₹	12.40
						₹	425.69
	Add GST (multiplying factor)		0.1405			₹	59.81
						₹	485.50
	Add for contractor's profit and overheads	@	15%			₹	72.83
						₹	558.33
	Add cess	@	1%			₹	5.58
			-		Total	₹	563.91
		Total co	st for 1 m			₹	56.39
					Say,	₹	56.40

14.28.2 Above 40 mm nominal bore

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre	m					
	a. Labours:						
0203	Belder	Day	0.850	₹	310.00	₹	263.50
0212	Coolie	Day	0.750	₹	310.00	₹	232.50
	b. Water charges: @ 1.00% on total	1.0%	on	₹	496.00	₹	4.96
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	500.96	₹	15.03
						₹	515.99
	Add GST (multiplying factor)		0.1405			₹	72.50
						₹	588.49
	Add for contractor's profit and overheads	@	15%			₹	88.27
						₹	676.76
	Add cess	@	1%			₹	6.77
			-		Total	₹	683.53
		Total co	st for 1 m			₹	68.35
					Say,	₹	68.40

14.29 Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-incharge:

14.29.1 Up to 150 mm diameter

Code	Description	Unit	Quantity	Rate	Amoun	ıt
	Details of cost for 40.26 metre or 11 Nos. joints	m				
	Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x0.55x0.75 m =16.61cum Deduct for pipes of average 100 mm dia =1x40.26x(22/7)/4x(0.118)x(0.118) =0.44cum Total =16.17cum					
	Rate as per Item No.2.13 of SH: EARTH WORK "A"	cum	16.170	₹ 150.10	₹ 2,427.	.12
	Rate as per Item No.2.16 of SH: EARTH WORK "B"	cum	16.170	₹ 116.40	₹ 1,882.	.19
	Fuel wood	qtl.	0.460	₹ 400.00	₹ 184.	.00
02004	Kerosine oil	litre	0.380	₹ 48.00	₹ 18.	.24
	a. Labours:					
0215	Fitter (grade 1)	Day	0.630	₹ 440.00	₹ 277.	.20

0203	Beldar	Day	4.500	₹ 310.00	₹	1,395.00
	b. Water charges: @ 1.00% on total except A & B	1.0%	on	₹ 1,874.44	₹	18.74
	c. Sundries & contingencies: @ 3% on total except A& B	3%	on	₹ 1,893.18	₹	56.80
					₹	6,259.29
	Add GST (multiplying factor)		0.1405		₹	879.43
					₹	7,138.72
	Add for contractor's profit and overheads	@	15%		₹	1,070.81
					₹	8,209.53
	Add cess	@	1%		₹	82.10
				Total	₹	8,291.63
		Total co	st for 1 m		₹	205.95
				Say,	₹	206.00

14.29.2 Above 150 mm dia up to 300 mm dia

14.27.2	Above 150 mm dia up to 300 mm dia					
Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 40.26 metre or 11 Nos. joints	m				
	Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x0.65x0.75 m =19.63cum Deduct for pipes of average 250 mm dia =1x40.26x(22/7)/4x(0.274)x(0.274) =2.37cum Total =17.26cum					
	Rate as per Item No.2.13 of SH: EARTH WORK "A"	cum	17.260	₹ 150.10	₹	2,590.73
	Rate as per Item No.2.16 of SH: EARTH WORK "B"	cum	17.260	₹ 116.40	₹	2,009.06
	Fuel wood	qtl.	1.030	₹ 400.00	₹	412.00
02004	Kerosine oil	litre	1.140	₹ 48.00	₹	54.72
	a. Labours:					
0215	Fitter (grade 1)	Day	1.300	₹ 440.00	₹	572.00
0203	Beldar	Day	7.500	₹ 310.00	₹	2,325.00
	b. Water charges: @ 1.00% on total except A & B	1.0%	on	₹ 3,363.72	₹	33.64
	c. Sundries & contingencies: @ 3% on total except A& B	3%	on	₹ 3,397.36	₹	101.92
					₹	8,099.07
	Add GST (multiplying factor)		0.1405		₹	1,137.92
					₹	9,236.99
	Add for contractor's profit and overheads	@	15%		₹	1,385.55
					₹	10,622.54
	Add cess	@	1%		₹	106.23
				Total	₹	10,728.77
		Total co	st for 1 m		₹	266.49
				Say,	₹	266.50

14.29.3 Above 300 mm diameter

Code	Description	Unit	Quantity	Rate	P	Amount
	Details of cost for 40.26 metre or 11 Nos. joints	m				
	Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x0.85x0.75 m =25.67cum Deduct for pipes of average 450 mm dia =1x40.26x(22/7)/4x(0.48)x(0.48) =7.29cum Total =18.38cum					
	Rate as per Item No.2.13 of SH: EARTH WORK "A"	cum	18.380	₹ 150.10	₹	2,758.84
	Rate as per Item No.2.16 of SH: EARTH WORK "B"	cum	18.380	₹ 116.40	₹	2,139.43
	Fuel wood	qtl.	1.030	₹ 400.00	₹	412.00

02004	Kerosine oil	litre	1.140	₹	48.00	₹	54.72
	a. Labours:						
0215	Fitter (grade 1)	Day	2.250	₹	440.00	₹	990.00
0203	Beldar	Day	11.500	₹	310.00	₹	3,565.00
	b. Water charges: @ 1.00% on total except A & B	1.0%	on	₹	5,021.72	₹	50.22
	c. Sundries & contingencies: @ 3% on total except A & B	3%	on	₹	5,071.94	₹	152.16
						₹	10,122.37
	Add GST (multiplying factor)		0.1405			₹	1,422.19
						₹	11,544.56
	Add for contractor's profit and overheads	@	15%			₹	1,731.68
						₹	13,276.24
	Add cess	@	1%			₹	132.76
			-		Total	₹	13,409.00
		Total co	st for 1 m			₹	333.06
					Say,	₹	333.10

14.30 Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity		Rate	,	Amount
	Details of cost for 1 man hole	each					
	Demolition of R.C.C. slab 1.3x1.2x0.15 m =0.234cum Less cover 0.61x0.455x0.15 m =0.042cum =0.192cum						
	a. Labours:						
0203	Beldar	Day	0.500	₹	310.00	₹	155.00
0212	Coolie	Day	0.150	₹	310.00	₹	46.50
	b. Water charges: @ 1.00% on total	1.0%	on	₹	201.50	₹	2.02
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	203.52	₹	6.11
						₹	209.63
	Add GST (multiplying factor)		0.1405			₹	29.45
						₹	239.08
	Add for contractor's profit and overheads	@	15%			₹	35.86
						₹	274.94
	Add cess	@	1%			₹	2.75
					Total	₹	277.69
			•		Say,	₹	277.70

14.31 Taking out C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-incharge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 man hole	each					
	Demolition of R.C.C. slab 1.1x0.9x0.15 m =0.148cum Less cover 0.61x0.455x0.15 m =0.042cum =0.106cum Say 0.11cum						
	a. Labours:						
0203	Beldar	Day	0.290	₹	310.00	₹	89.90
0212	Coolie	Day	0.100	₹	310.00	₹	31.00
	b. Water charges: @ 1.00% on total	1.0%	on	₹	120.90	₹	1.21
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	122.11	₹	3.66
						₹	125.77
	Add GST (multiplying factor)		0.1405			₹	17.67
						₹	143.44
	Add for contractor's profit and overheads	@	15%			₹	21.52
						₹	164.96
	Add cess	@	1%			₹	1.65

		Total	₹	166.61
	Total cost for each		₹	166.61
		Sav.	₹	166.60

14.32 Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for each	each					
	a. Labours:						
0215	Fitter (grade 1)	Day	0.250	₹	440.00	₹	110.00
0203	Beldar	Day	0.500	₹	310.00	₹	155.00
	b. Water charges: @ 1.00% on total	1.0%	on	₹	265.00	₹	2.65
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	267.65	₹	8.03
						₹	275.68
	Add GST (multiplying factor)		0.1405			₹	38.73
						₹	314.41
	Add for contractor's profit and overheads	@	15%			₹	47.16
						₹	361.57
	Add cess	@	1%			₹	3.62
		Total co	st for each	-	Total	₹	365.19
					Say,	₹	365.20

14.33 Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sqm	sqm					
	a. Labours:						
0203	Beldar	Day	0.300	₹	310.00	₹	93.00
0210	Carpenter 2nd class	Day	0.200	₹	395.00	₹	79.00
	b. Water charges: @ 1.00% on total	1.0%	on	₹	172.00	₹	1.72
	c. Sundries & contingencies: @ 3% on total	3%	on	₹	173.72	₹	5.21
						₹	178.93
	Add GST (multiplying factor)		0.1405			₹	25.14
						₹	204.07
	Add for contractor's profit and overheads	@	15%			₹	30.61
						₹	234.68
	Add cess	@	1%			₹	2.35
					Total	₹	237.03
		Total cos	t for 1 sqm			₹	23.70
					Sav.	₹	23.70

SUB HEAD : 15.0 PILE WORK

Note:

- Pile driving rigs including vibratory hammers are assumed to be self contained with power units and necessary accessories required for driving.
- The quantity of concrete which is required to be stripped off upto a minimum height of 600 mm above the designed top level of the pile has been taken into account in the rate analysis. Payment will be made upto design top level / bottom of pile cap.
- Rate analysis for various type of piles like driven cast-in-situ, bored cast-in-situ, driven precast RCC pile and other types of piles have been included. If the steel casing in case of driven pile is required to be retained, the same is required to be priced separately.
- The levelling course below the pile cap is proposed with M15 grade concrete.
- The minimum grade of concrete shall be M25 with minimum cement content of 410 kg/cum. However, for other grades, additional amount to be added for richer mixers to the respective diametre of pile vide Item code No. 5.34 SH. RCC Work.
- The top of the pile shall project 50 mm into the pile cap and reinforcement of pile shall be fully anchored in pile cap.
- 7 The minimum thickness of pile cap should be atleast 0.6 m or 1.5 times the diameter of the pile whichever is more.
- 8 Guidance for piles is to be obtained from IS: 2911.
- 9 Concrete in driven cast-in-situ piles shall be cast upto a height of 600 mm above the designed top level of pile, which shall be stripped off to obtain sound concrete either before final set or after 3 days.

15.1 Providing, driving with hydraulic piling rigs with power units and installing driven cast-in-situ reinforced

15.1	cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile	er and ost of stocated cap etc.	length be teel reinfol	low rcei	the pile ca ment but in	p, to cludi	carry safe ng the cost
15.1.1	400 mm dia piles.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 20.00 Mtr.	Mtr.					
	a. Materials and T&P:						
	Concrete = $3.14/4 \times 0.40^2 \times 20 = 2.51 \text{ Cum}$						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	2.51	₹	11,186.80	₹	28,078.87
15001	Pile shoes CI @ 80 kg/ pile	Kg	80.00	₹	55.00	₹	4,400.00
15002	MS clamps for Pile shoes @ 35 Kg/ pile	Kg	35.00	₹	50.00	₹	1,750.00
0108	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	Day	0.360	₹	32,500.00	₹	11,700.00
0109	Hire and running charges of light crane.	Day	0.060	₹	3,000.00	₹	180.00
	b. Labours:						
0225	Work supervisor/ mistri	Day	0.080	₹	395.00	₹	31.60
0203	Beldar	Day	2.000	₹	310.00	₹	620.00
	TOTAL					₹	46,760.47
	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	560.45
						₹	47,320.92
	d. Water charges : (ex/c A)	@	1.0%			₹	192.42
						₹	47,513.34
	e. Add GST (multiplying factor)		0.1405			₹	2,730.54
						₹	50,243.88
	f. Add for contractor's profit and overheads	@	15%			₹	3,324.75
						₹	53,568.63
	g. Add cess	@	1%			₹	254.90
	Total cost for 20 Mtr.					₹	53,823.53
	Total cost for 1 Mtr.					₹	2,691.18
	Rate per metre (Say)					₹	2,691.20
				l			

Providing, driving with hydraulic piling rigs with power units and installing driven cast-in-situ reinforced cement concrete piles of grade M25 of specified diameter and length below the pile cap, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap):

15.1.2	450 mm dia piles.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 20.00 Mtr.	Mtr.					
	a. Materials and T&P:						
	Concrete -3.14/4x0.45 2 x20 = 3.18 Cum						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	3.18	₹	11,186.80	₹	35,574.02
15001	Pile shoes CI @ 80 kg/ pile	Kg	80.00	₹	55.00	₹	4,400.00
15002	MS clamps for Pile shoes @ 35 Kg/ pile	Kg	35.00	₹	50.00	₹	1,750.00
	Hire and running charges of hydraulic piling rig with						
0108	power unit etc. including complete accessories and	Day	0.480	₹	32,500.00	₹	15,600.00
	shifting at site.						
0109	Hire and running charges of light crane.	Day	0.060	₹	3,000.00	₹	180.00
	b. Labours:						
0225		Day	0.080	₹	395.00	-	21 (0
0223	Work supervisor/ mistri Beldar	Day	2.000	₹	395.00	₹	31.60 620.00
0203		Day	2.000	<	310.00		
	TOTAL					₹	58,155.62
	c. Sundries (wooden blocks, stripped off to obtain sound	@	3.0%			₹	677.45
	concrete etc.) & contingencies: (ex/c A)						
						₹	58,833.07
	d. Water charges : (ex/c A)	@	1.0%			₹	232.59
						₹	59,065.66
	e. Add GST (multiplying factor)		0.1405			₹	3,300.58
						₹	62,366.24
	f. Add for contractor's profit and overheads	@	15%			₹	4,018.83
	·					₹	66,385.07
	g. Add cess	@	1%			₹	308.11
	Total cost for 20 Mtr.					₹	66,693.18
						₹	3,334.66
	Total cost for 1 Mtr					`	0,001.00
	Total cost for 1 Mtr. Rate per metre (Sav)					₹	3 334 70
15.1	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diameters.	ter and	length bel	low	the pile ca	p, to	carry safe
15.1	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power	ter and ost of stace.	<mark>length bel</mark> eel reinfol	low cer	the pile ca nent but in	n-situ p, to cludi	reinforced carry safe ng the cost
	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile	ter and ost of stace.	<mark>length bel</mark> eel reinfol	low cer	the pile ca nent but in	n-situ p, to cludi	reinforced carry safe ng the cost
15.1.3	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the confished and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile 500 mm dia piles.	ter and ost of steeds.	length be eel reinfor all comple	low cer	the pile ca nent but in (Length of	n-site p, to cludi pile 1	reinforced carry safe ng the cost for payment
	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the confished and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile 500 mm dia piles. Description	ter and ost of stee cap etc. ecap):	<mark>length bel</mark> eel reinfol	low cer	the pile ca nent but in	n-site p, to cludi pile 1	reinforced carry safe ng the cost
15.1.3	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the confished and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of piles. Description Details of cost for 20.00 Mtr.	ter and ost of steeds.	length be eel reinfor all comple	low cer	the pile ca nent but in (Length of	n-site p, to cludi pile 1	u reinforced carry safe ng the cost for payment
15.1.3	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile 500 mm dia piles. Description Details of cost for 20.00 Mtr. a. Materials and T&P:	ter and ost of stee cap etc. ecap):	length be eel reinfor all comple	low cer	the pile ca nent but in (Length of	n-site p, to cludi pile 1	reinforced carry safe ng the cost for payment
15.1.3	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the confished and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of piles. Description Details of cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50 ² x20 = 3.925 Cum	ter and ost of st cap etc. cap): Unit Mtr.	length be eel reinfor all comple Quantity	low cer ete.	the pile cament but in (Length of Rate	n-situ p, to cludi pile 1	u reinforced carry safe ng the cost for payment Amount
15.1.3 Code	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the confished and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of piles. Description Details of cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50 ² x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A)	ter and ost of standard cap etc. ecap): Unit Mtr.	length beleel reinforall comples Quantity 3.925	low cer ete.	the pile cament but in (Length of Rate	n-situ p, to cludi pile 1	a reinforced carry safe ng the cost for payment Amount
15.1.3 Code	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diametworking load not less than specified, excluding the confished and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of piles. Description Details of cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile	ter and ost of stocap etc. cap): Unit Mtr. Cum Kg	Quantity 3.925 80.00	towercer to the state of the s	the pile cament but in (Length of Rate 11,186.80 55.00	n-situ p, to cludi pile 1	reinforced carry safe ng the cost for payment Amount 43,908.19
15.1.3 Code	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile 500 mm dia piles. Description Details of cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50 ² x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile	ter and ost of standard cap etc. ecap): Unit Mtr.	length beleel reinforall comples Quantity 3.925	low cer ete.	the pile cament but in (Length of Rate	n-situ p, to cludi pile 1	reinforced carry safe ng the cost for payment Amount 43,908.19
15.1.3 Code 15001 15002	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of piles. Description Details of cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with	ter and ost of stocap etc. ecap): Unit Mtr. Cum Kg Kg	Quantity 3.925 80.00 35.00	low recer ete.	Rate 11,186.80 55.00 50.00	n-situ p, to cludi pile 1	Amount 43,908.19 4,400.00 1,750.00
15.1.3 Code	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diametworking load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall so f cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50 ² x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and	ter and ost of stocap etc. cap): Unit Mtr. Cum Kg	Quantity 3.925 80.00	towercer to the state of the s	the pile cament but in (Length of Rate 11,186.80 55.00	n-situ p, to cludi pile 1	Amount 43,908.19 4,400.00 1,750.00
15.1.3 Code 15001 15002 0108	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamed working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall so f cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50 ² x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	ter and ost of stocap etc. cap etc. cap): Unit Mtr. Cum Kg Kg Day	Quantity 3.925 80.00 35.00 0.600	low recer ete.	Rate 11,186.80 55.00 50.00	n-situ p, to cludi pile 1	Amount 43,908.19 4,400.00 19,500.00
15.1.3 Code 15001 15002	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diametworking load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall so f cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane.	ter and ost of stocap etc. ecap): Unit Mtr. Cum Kg Kg	Quantity 3.925 80.00 35.00	low ccer te.	Rate 11,186.80 55.00 50.00	n-situ p, to cludi pile 1	Amount 43,908.19 4,400.00 1,750.00
15.1.3 Code 15001 15002 0108	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamed working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall so f cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. b. Labours:	cap etc. cap): Unit Mtr. Cum Kg Kg Day Day	Quantity 3.925 80.00 35.00 0.600	low ccer te.	Rate 11,186.80 55.00 50.00 32,500.00	n-situ p, to cludi pile 1	Amount 43,908.19 4,400.00 1,750.00 19,500.00
15.1.3 Code 15001 15002 0108	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamed working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall so f cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. b. Labours: Work supervisor/ mistri	cap etc. cap): Unit Mtr. Cum Kg Kg Day Day	Quantity 3.925 80.00 35.00 0.600	owercer. ₹ ₹ ₹	Rate 11,186.80 55.00 50.00 32,500.00 3,000.00	n-situ p, to cludi pile 1	Amount 43,908.19 4,400.00 1,750.00 180.00 31.60
15.1.3 Code 15001 15002 0108 0109	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamed working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile 500 mm dia piles. Description Details of cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. b. Labours: Work supervisor/ mistri Beldar	cap etc. cap): Unit Mtr. Cum Kg Kg Day Day	Quantity 3.925 80.00 35.00 0.600 0.060	toward of the state of the sta	Rate 11,186.80 55.00 50.00 32,500.00	n-situ p, to cludi pile 1	43,908.19 4,400.00 19,500.00 180.00 31.60 620.00
15.1.3 Code 15001 15002 0108 0109	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamed working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall so f cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. b. Labours: Work supervisor/ mistri	cap etc. cap): Unit Mtr. Cum Kg Kg Day Day Day	Quantity 3.925 80.00 35.00 0.600 0.060	toward of the state of the sta	Rate 11,186.80 55.00 50.00 32,500.00 3,000.00	n-situ p, to cludi pile 1	43,908.19 4,400.00 1,750.00 19,500.00 31.60 620.00 70,389.79
15.1.3 Code 15001 15002 0108 0109	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamed working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile soo mm dia piles. Description Details of cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound	cap etc. cap): Unit Mtr. Cum Kg Kg Day Day Day Day	Quantity 3.925 80.00 35.00 0.600 0.060 0.080 2.000	toward of the state of the sta	Rate 11,186.80 55.00 50.00 32,500.00 3,000.00	n-situ p, to cludi pile 1	43,908.19 4,400.00 1,750.00 19,500.00 31.60 620.00 70,389.79
15.1.3 Code 15001 15002 0108 0109	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diametworking load not less than specified, excluding the confusion of shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top	cap etc. cap): Unit Mtr. Cum Kg Kg Day Day Day Day	Quantity 3.925 80.00 35.00 0.600 0.060 0.080 2.000	toward of the state of the sta	Rate 11,186.80 55.00 50.00 32,500.00 3,000.00	n-situ p, to cludi pile 1	43,908.19 4,400.00 1,750.00 19,500.00 31.60 620.00 70,389.79 794.45
15.1.3 Code 15001 15002 0108 0109	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamed working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile soo mm dia piles. Description Details of cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound	ter and ost of state cap etc. cap): Unit Mtr. Cum Kg Kg Day Day Day Day @	Quantity 3.925 80.00 35.00 0.600 0.060 0.080 2.000	toward of the state of the sta	Rate 11,186.80 55.00 50.00 32,500.00 3,000.00	n-situ p, to cludi pile 1	43,908.19 4,400.00 1,750.00 19,500.00 180.00 70,389.79 794.45 71,184.24 272.76
15.1.3 Code 15001 15002 0108 0109	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diametworking load not less than specified, excluding the confished and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shoe indicated by the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from the pile shall be	ter and ost of state cap etc. cap): Unit Mtr. Cum Kg Kg Day Day Day Day @	Quantity	toward of the state of the sta	Rate 11,186.80 55.00 50.00 32,500.00 3,000.00	n-situ p, to cludi pile 1	43,908.19 4,400.00 1,750.00 19,500.00 180.00 70,389.79 794.45 71,184.24 272.76 71,457.00
15.1.3 Code 15001 15002 0108 0109	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diametworking load not less than specified, excluding the confusion of shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top	ter and ost of state cap etc. cap): Unit Mtr. Cum Kg Kg Day Day Day Day @	Quantity 3.925 80.00 35.00 0.600 0.060 0.080 2.000	toward of the state of the sta	Rate 11,186.80 55.00 50.00 32,500.00 3,000.00	n-situ p, to cludi pile 1	43,908.19 4,400.00 1,750.00 19,500.00 180.00 70,389.79 794.45 71,184.24 272.76 71,457.00 3,870.61
15.1.3 Code 15001 15002 0108 0109	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile 500 mm dia piles. Description Details of cost for 20.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor)	ter and ost of state cap etc. cap): Unit Mtr. Cum Kg Kg Day Day Day Day @ @ @	Quantity 3.925 80.00 35.00 0.600 0.080 2.000 3.0% 1.0% 0.1405	toward of the state of the sta	Rate 11,186.80 55.00 50.00 32,500.00 3,000.00	n-situ p, to cludi pile 1	Amount 43,908.19 4,400.00 1,750.00 19,500.00 180.00 70,389.79 794.45 71,184.24 272.76 71,457.00 3,870.61 75,327.61
15.1.3 Code 15001 15002 0108 0109	Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diametworking load not less than specified, excluding the confished and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shoe indicated by the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from the pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from top of shoe to the bottom of pile shall be measured from the pile shall be	ter and ost of state cap etc. cap): Unit Mtr. Cum Kg Kg Day Day Day Day @	Quantity	toward of the state of the sta	Rate 11,186.80 55.00 50.00 32,500.00 3,000.00	n-situ p, to cludi pile 1	43,908.19 4,400.00 1,750.00 19,500.00 180.00 70,389.79 794.45 71,184.24 272.76 71,457.00 3,870.61

					SH:15/	'PILE \	NORK
	g. Add cess	@	1%			₹	361.32
	Total cost for 20 Mtr.					₹	80,401.84
	Total cost for 1 Mtr.					₹	4,020.09
	Rate per metre (Say)					₹	4,020.10
15.1	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile	ter and ost of stace of cap etc.	length be teel reinfo	low rce	<mark>rthe pile ca</mark> ment but in	p, to clud	carry safeing the cost
15.1.4	550 mm dia piles.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 20.00 Mtr.	Mtr.					
	a. Materials and T&P:						
	Concrete $3.14 / 4 \times 0.55^2 \times 20 = 4.75 \text{ Cum}$						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	4.75	₹	11,186.80	₹	53,137.30
	Pile shoes CI @ 80 kg/ pile	Kg	80.00	₹	55.00	₹	4,400.00
15002	MS clamps for Pile shoes @ 35 Kg/ pile	Kg	35.00	₹	50.00	₹	1,750.00
0108	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	Day	0.600	₹	32,500.00	₹	19,500.00
0109	Hire and running charges of light crane.	Day	0.060	₹	3,000.00	₹	180.00
	b. Labours:	_					
0225	Work supervisor/ mistri	Day	0.080	₹	395.00	₹	31.60
0203	Beldar	Day	2.000	₹	310.00	₹	620.00
	TOTAL					₹	79,618.90
	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	794.45
						₹	80,413.35
	d. Water charges : (ex/c A)	@	1.0%			₹	272.76
						₹	80,686.11
	e. Add GST (multiplying factor)		0.1405			₹	3,870.61
						₹	84,556.72
	f. Add for contractor's profit and overheads	@	15%			₹	4,712.91
						₹	89,269.63
	g. Add cess	@	1%			₹	361.32
	Total cost for 20 Mtr.					₹	89,630.95
	Total cost for 1 Mtr.					₹	4,481.55
	Rate per metre (Say)					₹	4,481.60
15.1.5	Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile 600 mm dia piles.	ter and ost of stace of cap etc.	length be teel reinfo	low rce	<mark>rthe pile ca</mark> ment but in	p, to clud	carry safeing the cost
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 20.00 Mtr.	Mtr.					
	a. Materials and T&P:						
	Concrete 3.14/4x0.60 ² x20 =5.652 Cum					1	
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	5.652	₹	11,186.80	₹	63,227.79
15001	Pile shoes CI @ 80 kg/ pile	Kg	80.00	₹	55.00	₹	4,400.00
15001	MS clamps for Pile shoes @ 35 Kg/ pile	Kg	35.00	₹	50.00	₹	1,750.00
0108	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and	Day	0.700	₹	32,500.00	₹	22,750.00
0109	shifting at site. Hire and running charges of light crane.	Day	0.060	₹	3,000.00	₹	180.00
	h Labours:						
	b. Labours:	Davi	0.100	=	205.00	*	20.50
0225 0203	b. Labours: Work supervisor/ mistri Beldar	Day Day	0.100	₹	395.00 310.00	₹	39.50 722.30

				SH:15/	PILE \	WORK
TOTAL					₹	93,069.59
c. Sundries (wooden blocks, stripped off to obtain sound		0.00/			_	005.05
	@	3.0%			₹	895.25
, , , ,					₹	93,964.84
d Water charges : (ev/c A)	@	1.0%				307.37
d. Water charges : (ex/ c A)		1.070				94,272.21
a Add CST (multiplying factor)		0.1405			-	4,361.74
e. Add G31 (multiplying factor)		0.1405				98,633.95
f Add for contractors and fit and according		150/				
I. Add for contractor's profit and overneads	w	15%			È	5,310.92
n. A del casa		10/				1,03,944.87
	w	1%			—	407.17
						1,04,352.04
						5,217.60
Rate per metre (Say)					₹	5,217.60
cement concrete piles of grade M25 of specified diamet working load not less than specified, excluding the coof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile	ter and ost of stace of cap etc.	length be teel reinfo	low rcei	the pile ca ment but in	p, to clud	carry safe ing the cost
750 mm dia piles.						
Description	Unit	Quantity		Rate		Amount
· ·						
	Curro	4.40	Ŧ	11 104 00	7	74.054.40
						74,056.62
		1	_			4,400.00
	Kg	35.00	₹	50.00	₹	1,750.00
power unit etc. including complete accessories and shifting at site.	Day	0.700	₹	32,500.00	₹	22,750.00
Hire and running charges of light crane.	Day	0.060	₹	3,000.00	₹	180.00
				•		
	Dav	0.140	₹	395.00	₹	55.30
			₹			1,085.00
	J				₹	1,04,276.92
c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	906.61
					 	1,05,183.53
d. Water charges : (ex/c A)	@	1.0%				311.27
					₹	1,05,494.80
e. Add GST (multiplying factor)		0.1405			₹	4,417.06
					₹	1,09,911.86
f. Add for contractor's profit and overheads	@	15%			₹	5,378.29
					₹	1,15,290.15
g. Add cess	@	1%			₹	412.34
Total cost for 15 Mtr.					₹	1,15,702.49
Total cost for 1 Mtr.					₹	7,713.50
Rate per metre (Say)					₹	7,713.50
specified diameter and length below the pile cap,	to carr	y a safe	wo	orking load	no	t less than h bentonite
specified, excluding the cost of steel reinforcement be solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percuss Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Education	or settingsion drill Winch Modile Wile for poils	ng out and ling using L lachine all payment sh	Dire cor all	ect Mud Circ mplete, inclu be measured	ulati ıding	on (DMC) or removal of
	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads g. Add cess Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, driving with hydraulic piling rigs with power cement concrete piles of grade M25 of specified diame working load not less than specified, excluding the cof shoe and the length of pile to be embedded in the pile shall be measured from top of shoe to the bottom of pile 750 mm dia piles. Description Details of cost for 15.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.75²x15 = 6.62 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads Q. Add cess Total cost for 15 Mtr. Total cost for 15 Mtr. Total cost for 15 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ re	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads g. Add cess Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, driving with hydraulic piling rigs with power units an cement concrete piles of grade M25 of specified diameter and working load not less than specified, excluding the cost of si of shoe and the length of pile to be embedded in the pile cap etc. shall be measured from top of shoe to the bottom of pile cap): 750 mm dia piles. Description Unit Details of cost for 15.00 Mtr. A. Materials and T&P: Concrete 3.14/4x0.75²x15 =6.62 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Pile shoes Cl @ 80 kg/ pile MS clamps for Pile shoes @ 35 kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Day b. Labours: Work supervisor/ mistri Day b. Labours: Work supervisor/ mistri Day d. Water charges: (ex/c A) d. Water charges: (ex/c A) d. Water charges: (ex/c A) d. Water charges: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads g. Add cess Total cost for 15 Mtr. Total cost for 15 Mtr. Total cost for 15 Mtr. Total cost for 15 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ reinforce.	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads g. Add cess Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, driving with hydraulic piling rigs with power units and installing cement concrete piles of grade M25 of specified diameter and length be working load not less than specified, excluding the cost of steel reinfor of shoe and the length of pile to be embedded in the pile cap etc. all compleshall be measured from top of shoe to the bottom of pile cap): 750 mm dia piles. Description Details of cost for 15.00 Mtr. A. Materials and T&P: Concrete 3.14/4x0.75²x15 = 6.62 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 6.62 Pile shoes CI @ 80 kg/ pile MS clamps for Pile shoes @ 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Day 0.700 b. Labours: Work supervisor/ mistri Day 0.140 Beldar Day 3.500 d. Water charges: (ex/c A) d. Water charges: (ex/c A) d. Water charges: (ex/c A) d. Water charges: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads @ 1.0% c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads @ 15% G. Add cess Total cost for 15 Mtr. Total cost for 15 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ reinforced cement of ce	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies; (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads e. Add GST (multiplying factor) f. Add for contractor's profit and overheads g. Add cess g. Add cess Total cost for 1 Mtr. Rate per metre (Say) Providing, driving with hydraulic piling rigs with power units and installing cement concrete piles of grade M25 of specified diameter and length below working load not less than specified, excluding the cost of steel reinforcer of shoe and the length of pile to be embedded in the pile cap etc. all complete shall be measured from top of shoe to the bottom of pile cap): 750 mm dia piles. Description Description Details of cost for 15.00 Mtr. a. Materials and T&P: Concrete 3.14/4x0.75²x15 = 6.62 Cum Rate as per item no. 5.31.1. SH. RCC Work (A) Pile shoes Cl. ® 80 kg/ pile MS clamps for Pile shoes ® 35 Kg/ pile Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Day 0.700 ₹ Beldar Day 0.700 ₹ Day 0.140 ₹ Beldar Day 0.140 ₹ Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads @ 15% Total cost for 15 Mtr. Total cost for 15 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ reinforced cement con-	TOTAL C. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads g. Add cess	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies. (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads e. Add GST (multiplying factor) f. Add for contractor's profit and overheads e. Add cess f. Add cess g. Add cess

Codo	Description	Unit	Quantity	ı	5H:15/		
Code	Description Details of cost for 20 Mtr.	Unit Mtr.	Quantity		Rate		Amount
	a. Materials:	IVILI .					
	Concrete -3.14/4x0.452x20 = 3.18 Cum						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	3.18	₹	11,186.80	₹	35,574.02
15003	Bentonite	Tonne	0.250	₹	3,200.00	₹	800.00
13003			0.230	<u> </u>	3,200.00	_	800.00
0131	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories.	Day	0.940	₹	2,100.00	₹	1,974.00
0109	Hire and running charges of light crane.	Day	0.06	₹	3,000.00	₹	180.00
0106	Hire and running charges of bentonite pump.	Day	0.38	₹	4,000.00	₹	1,520.00
0110	Hire and running charges of loader.	Day	0.30	₹	5,100.00	₹	1,530.00
0111	Hire and running charges of tipper	Day	0.30	₹	2,000.00	₹	600.00
	b. Labours:						
0225	Work supervisor/ mistri	Day	0.12	₹	395.00	₹	47.40
0203	Beldar	Day	2.50	₹	310.00	₹	775.00
	TOTAL					₹	43,000.42
	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	222.79
						₹	43,223.21
	d. Water charges : (ex/c A)	@	1.0%			₹	76.49
	A 11 00T (111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.1.1	-		₹	43,299.70
	e. Add GST (multiplying factor)		0.1405			₹	1,085.46
						₹	44,385.16
	f. Add for contractor's profit and overheads	@	15%			₹	1,321.67
						₹	45,706.83
	g. Add cess	@	1%			₹	101.33
	9					₹	45,808.16
	Total cost for 20 Mtr.						
	9					₹	2,290.41
15.2	Total cost for 20 Mtr.	to carry	y a safe ding the o	wo cost	rking load of boring	₹ of gr not with	2,290.40 ade M-25 of less than bentonite
15.2	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of page 12.1)	to carry out inclusion setting sion drill Winch Moile for p	y a safe ding the degree of gout and ling using Lachine all bayment sh	wo cost rem D <i>ire</i> com	rking load of boring oval of sam ot Mud Circu pplete, inclu oe measured	of gr not with he and ulation	2,290.40 ade M-25 of less than bentonite the length on (DMC) or removal of
	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile capes specified, excluding the cost of steel reinforcement be solution and temporary casing of appropriate length from the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated.	to carry out inclusion setting sion drill Winch Moile for p	y a safe ding the degree of gout and ling using Lachine all bayment sh	wo cost rem D <i>ire</i> com	rking load of boring oval of sam ot Mud Circu pplete, inclu oe measured	of gr not with he and ulation	2,290.40 ade M-25 of less than bentonite the length on (DMC) or removal of
15.2.2	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Education of the pile cap in the pile cap.	to carry but inclu for settin sion drill Winch M bile for p Boring M	y a safe ding the o g out and ling using I lachine all bayment sh achine sha	wo cost rem D <i>ire</i> com	rking load of boring oval of sam ot Mud Circle pplete, include oe measured of be used.	of gr not with e and ulation iding	2,290.40 ade M-25 of less than bentonite the length on (DMC) or removal of bottom of
	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Education of the pile cap in the pile cap. Description	to carry but inclu for settin sion drill Winch M bile for p Boring M	y a safe ding the degree of gout and ling using Lachine all bayment sh	wo cost rem D <i>ire</i> com	rking load of boring oval of sam ot Mud Circu pplete, inclu oe measured	of gr not with e and ulation iding	2,290.40 ade M-25 of less than bentonite the length on (DMC) or removal of
15.2.2	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell & Soo mm dia piles. Description Details of cost for 20 Mtr.	to carry but inclu for settin sion drill Winch M bile for p Boring M	y a safe ding the o g out and ling using I lachine all bayment sh achine sha	wo cost rem D <i>ire</i> com	rking load of boring oval of sam ot Mud Circle pplete, include oe measured of be used.	of gr not with e and ulation iding	2,290.40 ade M-25 of less than bentonite the length on (DMC) or removal of bottom of
15.2.2	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated below the pile cap. Description Details of cost for 20 Mtr. a. Materials:	to carry but inclu for settin sion drill Winch M bile for p Boring M	y a safe ding the o g out and ling using I lachine all bayment sh achine sha	wo cost rem D <i>ire</i> com	rking load of boring oval of sam ot Mud Circle pplete, include oe measured of be used.	of gr not with e and ulation iding	2,290.40 ade M-25 of less than bentonite the length on (DMC) or removal of bottom of
15.2.2	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Best Solution of the pile cap of the pile cap. Description Details of cost for 20 Mtr. a. Materials: Concrete 3.14/4x0.50 ² x20 = 3.925 Cum	to carry but inclu for settin sion drill Winch M bile for p Boring M Unit Mtr.	y a safe ding the o g out and ling using I lachine all bayment sh achine sha	wo cost rem Direcom all b	rking load of boring oval of sam ot Mud Circle plete, include measured by the used. Rate	of gr not with e and ulation ding	2,290.40 ade M-25 of less than bentonite the length on (DMC) or removal of bottom of
15.2.2 Code	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated for 20 Mtr. 500 mm dia piles. Description Details of cost for 20 Mtr. a. Materials: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A)	to carry but inclu for settin sion drill Winch M bile for p Boring M Unit Mtr.	y a safe ding the o g out and ling using I lachine all lachine shall achine shall Quantity 3.925	wo cost rem Direction all I	rking load of boring oval of sam ot Mud Circle plete, include measured at be used. Rate	of gr not with e and ulation iding	2,290.40 ade M-25 of less than a bentonite d the length on (DMC) or removal of o bottom of Amount 43,908.19
15.2.2	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Best Solution of the pile cap of the pile cap. Description Details of cost for 20 Mtr. a. Materials: Concrete 3.14/4x0.50 ² x20 = 3.925 Cum	to carry but inclu for settin sion drill Winch M bile for p Boring M Unit Mtr.	y a safe ding the o g out and ling using I lachine all bayment sh achine sha	wo cost rem Direcom all b	rking load of boring oval of sam ot Mud Circle plete, include measured by the used. Rate	of gr not with e and ulation ding	2,290.40 ade M-25 of less than bentonite the length on (DMC) or removal of bottom of
15.2.2 Code 15003 0131	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percuss Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Best Solution Details of cost for 20 Mtr. a. Materials: Concrete 3.14/4x0.50 ² x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories.	to carry but inclusion setting winch M bile for p Boring M Unit Mtr. Cum Tonne Day	y a safe ding the o g out and ling using I lachine all lachine shall achine shall Quantity 3.925	wo cost rem Direction all I	rking load of boring oval of sam ot Mud Circulate, include measured at be used. Rate 11,186.80 3,200.00	of gr not with e and ulation iding	2,290.40 ade M-25 of less than a bentonite d the length on (DMC) or removal of o bottom of Amount 43,908.19 896.00 2,520.00
15.2.2 Code 15003 0131 0109	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percus Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated by Tripod and Mechanical excavated by Tripod and Mechanical excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripod and Mechanical Excavated by Tripo	to carry but inclusion setting winch M bile for p Boring M Unit Mtr. Cum Tonne Day Day	y a safe ding the o g out and ling using L achine all payment sh achine sha Quantity 3.925 0.280 1.20 0.06	wo cost rem Direction all bill no	rking load of boring oval of sam ot Mud Circulate, include measured at be used. Rate 11,186.80 3,200.00 2,100.00	of gr not with e and ulation iding d upto	2,290.40 ade M-25 of less than a bentonite d the length on (DMC) or removal of o bottom of Amount 43,908.19 896.00 2,520.00
15.2.2 Code 15003 0131 0109 0106	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percus Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Best Solution Details of cost for 20 Mtr. a. Materials: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories. Hire and running charges of light crane. Hire and running charges of bentonite pump.	carry but inclu or settin sion drill Winch M bile for p Boring M Unit Mtr. Cum Tonne Day Day Day	y a safe ding the congregation of the congrega	wo cost rem Direction all bill no	rking load of boring oval of sam ot Mud Circulate, include measured of the used. Rate 11,186.80 3,200.00 2,100.00 3,000.00 4,000.00	of gr not with e and ulation iding d upto	2,290.40 ade M-25 of less than a bentonite d the length on (DMC) or removal of o bottom of 43,908.19 896.00 2,520.00 180.00 1,520.00
15.2.2 Code 15003 0131 0109 0106 0110	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percuss Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated by Tripod and Mechanical Excavated by Tripod excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tu	to carry but inclusion setting winch M bile for p Boring M Unit Mtr. Cum Tonne Day Day	Quantity 3.925 0.280 1.20 0.06 0.38 0.30	wo cost rem Direction all bill no	rking load of boring oval of sam ot Mud Circle plete, include measured of be used. Rate 11,186.80 3,200.00 2,100.00 4,000.00 5,100.00	of gr not with e and ulation iding d upto	2,290.40 ade M-25 of less than a bentonite of the length on (DMC) or removal of the bottom of the bottom of the length on (DMC) or removal of the length on (DMC) or removal of the length of the len
15.2.2 Code 15003 0131 0109 0106	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percuss Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Best Tourned to the pile cap. Description Details of cost for 20 Mtr. a. Materials: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of tipper	carry but inclu or settin sion drill Winch M bile for p Boring M Unit Mtr. Cum Tonne Day Day Day	y a safe ding the congregation of the congrega	wo cost rem Direction all bill no	rking load of boring oval of sam ot Mud Circulate, include measured of the used. Rate 11,186.80 3,200.00 2,100.00 3,000.00 4,000.00	of gr not with e and ulation iding d upto	2,290.40 ade M-25 of less than a bentonite d the length on (DMC) or removal of o bottom of 43,908.19 896.00 2,520.00 180.00 1,520.00
15.2.2 Code 15003 0131 0109 0106 0110 0111	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile capes specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percussion and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell is 500 mm dia piles. Description Details of cost for 20 Mtr. a. Materials: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of tipper b. Labours:	to carry put inclusion setting winch M pile for p Boring M Unit Mtr. Cum Tonne Day Day Day Day Day Day	y a safe ding the congress of	wo cost rem Direction all I III no	rking load of boring oval of sam ot Mud Circle plete, include measured at be used. Rate 11,186.80 3,200.00 2,100.00 3,000.00 4,000.00 2,000.00	of gr not with e and ulation ding diupto	2,290.40 ade M-25 of less than he bentonite of the length on (DMC) or removal of the bottom of the bottom of the bottom of the length of bottom of the bott
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15.2.2 Code 15003 0131 0109 0106 0110 0111	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percus Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excaps. Description Details of cost for 20 Mtr. a. Materials: Concrete 3.14/4x0.50²x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories. Hire and running charges of bentonite pump. Hire and running charges of bentonite pump. Hire and running charges of light crane. Hire and running charges of loader. Hire and running charges of loader. Hire and running charges of tipper b. Labours: Work supervisor/ mistri Beldar	to carry put inclusion setting winch M pile for p Boring M Unit Mtr. Cum Tonne Day Day Day Day Day Day	y a safe ding the congress of	wo cost rem Direction all I III no	rking load of boring oval of sam ot Mud Circle plete, include measured at be used. Rate 11,186.80 3,200.00 2,100.00 3,000.00 4,000.00 2,000.00	of grand with the and ulation diding the angulation of the angula	2,290.40 ade M-25 of less than he bentonite of the length on (DMC) or removal of the bottom of the bottom of the bottom of the length of bottom of the bott
15.2.2 Code 15003 0131 0109 0106 0110 0111	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percus Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Becaping the cost for 20 Mtr. a. Materials: Concrete 3.14/4x0.50 ² x20 = 3.925 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories. Hire and running charges of bentonite pump. Hire and running charges of light crane. Hire and running charges of loader. Hire and running charges of loader. Hire and running charges of tipper b. Labours: Work supervisor/ mistri Beldar TOTAL	to carry put inclusion setting winch M pile for p Boring M Unit Mtr. Cum Tonne Day Day Day Day Day Day Day Day	Quantity 3.925 0.280 1.20 0.06 0.38 0.30 0.12	wo cost rem Direction all I III no	rking load of boring oval of sam ot Mud Circulated include measured of the used. Rate 11,186.80 3,200.00 2,100.00 3,000.00 4,000.00 5,100.00 2,000.00	of gr not with e and ulation ding diupto	2,290.40 ade M-25 of less than he bentonite of the length on (DMC) or removal of the bottom of the bottom of the bottom of the length of bottom of the bott
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15.2.2 Code 15003 0131 0109 0106 0110 0111	Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percuss Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated earth with all its lifts and leads. (Length of appropriate length of pile	to carry put inclusion setting sion drill Winch M bile for p Boring M Unit Mtr. Cum Tonne Day Day Day Day Day Day Day Day Day Da	Quantity 3.925 0.280 1.20 0.06 0.38 0.30 0.12 2.50	wo cost rem Direction all I III no	rking load of boring oval of sam ot Mud Circulated include measured of the used. Rate 11,186.80 3,200.00 2,100.00 3,000.00 4,000.00 5,100.00 2,000.00	₹ of grand with the and the angle of the an	2,290.40 ade M-25 of less than a bentonite of the length on (DMC) or removal of the bottom of the bottom of the bottom of the length of bottom of the botto

					SH:15/	PILE W	/ORK
						₹	52,301.74
	e. Add GST (multiplying factor)		0.1405			₹	1,179.29
						₹	53,481.03
	f. Add for contractor's profit and overheads	@	15%			₹	1,435.93
	·					₹	54,916.96
	g. Add cess	@	1%			₹	110.09
	Total cost for 20 Mtr.					₹	55,027.05
	Total cost for 1 Mtr.					₹	2,751.35
	Rate per metre (Say)					₹	2,751.40
	nate per metre (say)					_	2,731.40
15.2	Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement be solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percuss Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated.	to carrout inclusion setting driversetting d	y a safe ding the o g out and ling using I lachine all bayment sh	wo cost rem Dire con	orking load of boring loval of sam oct Mud Circ nplete, include be measured	not with e and ulation	less than bentonite the length n (DMC) or removal of
15.2.3	550 mm dia piles.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 20 Mtr.	Mtr.					
	a. Materials:						
	Concrete 3.1428/4x0.55 ² x20 = 4.753 Cum						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	4.753	₹	11,186.80	₹	53,170.86
15003	Bentonite	Tonne	0.300	₹	3,200.00	₹	960.00
0131	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories.	Day	1.40	₹	2,100.00	₹	2,940.00
0109	Hire and running charges of light crane.	Day	0.06	₹	3,000.00	₹	180.00
0106	Hire and running charges of bentonite pump.	Day	0.38	₹	4,000.00	₹	1,520.00
0110	Hire and running charges of loader.	Day	0.30	₹	5,100.00	₹	1,530.00
0111	Hire and running charges of tipper	Day	0.30	₹	2,000.00	₹	600.00
	b. Labours:						
0225	Work supervisor/ mistri	Day	0.12	₹	395.00	₹	47.40
0203	Beldar	Day	2.75	₹	310.00	₹	852.50
	TOTAL					₹	61,800.76
	c. Sundries (wooden blocks, stripped off to obtain sound	@	3.0%			₹	258.90
	concrete etc.) & contingencies: (ex/c A)	w.	3.0%			`	250.90
						₹	62,059.66
	d. Water charges : (ex/c A)	@	1.0%			₹	88.89
	,					₹	62,148.55
	e. Add GST (multiplying factor)		0.1405			₹	1,261.37
	, , , , , ,					₹	63,409.92
	f. Add for contractor's profit and overheads	@	15%			₹	1,535.86
	,					₹	64,945.78
	g. Add cess	@	1%			₹	117.75
	Total cost for 20 Mtr.					₹	65,063.53
	Total cost for 1 Mtr.					₹	3,253.18
	Rate per metre (Say)			 		₹	3,253.10
15.2	Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement be solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated.	to carrout inclusor setting driversetting dr	y a safe ding the c g out and ling using I lachine all bayment sh	wo cost rem Dire con	orking load of boring loval of sam oct Mud Circ nplete, inclu be measured	not with e and ulation	less than bentonite the length n (DMC) or removal of
15.0.1	(00 many dia miles						
15.2.4	600 mm dia piles.	11-41-	Ouganite	ı	Dete		۱ m م۰۰۰۰۰ ۲
Code	Description	Unit	Quantity		Rate	/	Amount

	Details of cost for 20 Mtr	N/I+r					
	Details of cost for 20 Mtr. a. Materials:	Mtr.					
	Concrete $3.14 / 4x0.60^2 x 20 = 5.65 \text{ Cum}$						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	5.65	₹	11,186.80	₹	63,205.42
15003	Bentonite	Tonne	0.330	₹	3,200.00	₹	1,056.00
0131	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories.	Day	1.50	₹	2,100.00	₹	3,150.00
0109	Hire and running charges of light crane.	Day	0.06	₹	3,000.00	₹	180.00
0106	Hire and running charges of bentonite pump.	Day	0.38	₹	4,000.00	₹	1,520.00
0110	Hire and running charges of loader.	Day	0.30	₹	5,100.00	₹	1,530.00
0111	Hire and running charges of tipper	Day	0.30	₹	2,000.00	₹	600.00
	b. Labours:						
0225	Work supervisor/ mistri	Day	0.12	₹	395.00	₹	47.40
0203	Beldar	Day	3.00	₹	310.00	₹	930.00
	TOTAL					₹	72,218.82
	c. Sundries (wooden blocks, stripped off to obtain sound						
	concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	270.40
	Solici etc etc.) a contingencies. (oxi e i i)					₹	72,489.22
	al Makes also area (a.c./a A)		1.00/			₹	
	d. Water charges : (ex/c A)	@	1.0%			È	92.84
	A 1 1 00T (111 1 1 1 5 1 1)		0.1.105			₹	72,582.06
	e. Add GST (multiplying factor)		0.1405			₹	1,317.42
						₹	73,899.48
	f. Add for contractor's profit and overheads	@	15%			₹	1,604.11
						₹	75,503.59
	g. Add cess	@	1%			₹	122.98
	Total cost for 20 Mtr.					₹	75,626.57
						₹	3,781.33
	Total cost for 1 Mtr.						
						₹	
15.2	Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement be solution and temporary casing of appropriate length for the same content of the same case.	to carry out inclu or settin	y a safe ding the o g out and	wo ost rem	rking load of boring oval of sam	of gr not with	3,781.30 ade M-25 of less than bentonited the length
15.2	Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement be solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of page 1975)	to carry out inclusion setting sion drill Winch Models	y a safe ding the o g out and ing using I achine all ayment sh	wo cost rem Dire com	rking load of boring oval of sam ot Mud Circu plete, inclu oe measured	of gr not with he and ulation	3,781.30 ade M-25 of less than bentonited the length on (DMC) or removal of
	Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated.	to carry out inclusion setting sion drill Winch Models	y a safe ding the o g out and ing using I achine all ayment sh	wo cost rem Dire com	rking load of boring oval of sam ot Mud Circu plete, inclu oe measured	of gr not with he and ulation	3,781.30 ade M-25 of less than bentonited the length on (DMC) or removal of
15.2.5	Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement be solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percust Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excavated piles.	to carry but inclusion setting sion drill Winch M bile for p Boring M	y a safe ding the o g out and ing using L achine all ayment sha	wo cost rem Dire com	rking load of boring oval of sam ot Mud Circu pplete, inclu oe measured of be used.	of gr not with se and ulation iding	3,781.30 ade M-25 of less than bentonite d the length on (DMC) or removal of bottom of
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15.2.5 Code 15003 0131 0109 0106 0110 0111	Rate per metre (Say) Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement is solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by percuss Bailer and Chisel Technique by Tripod and Mechanical excavated earth with all its lifts and leads. (Length of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Excapsion Details of cost for 15.00 Mtr. a. Materials: Concrete 3.14 /4x0.75²x15 = 6.62 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories. Hire and running charges of bentonite pump. Hire and running charges of light crane. Hire and running charges of loader. Hire and running charges of loader. Hire and running charges of tipper b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound	to carry put includer setting winch Mobile for partial setting mobile for p	y a safe ding the or gout and ing using Lachine all ayment shape the control of t	wo cost rem Directornall II no	rking load of boring oval of sam ot Mud Circulate include measured of be used. Rate 11,186.80 3,200.00 2,100.00 3,000.00 4,000.00 5,100.00 2,000.00	of grant with the and ulatical ding district the second s	3,781.30 ade M-25 of less than hentonited the length on (DMC) or removal of bottom of bottom of 2,940.00 180.00 1,530.00 600.00 55.30 1,085.00 84,406.92

					SH:15/	FILL V	VOKK
	e. Add GST (multiplying factor)		0.1405			₹	1,512.82
	, , , , , ,					₹	86,336.86
	f. Add for contractor's profit and overheads	@	15%			₹	1,842.04
	I. Add for contractor's profit and overfleads	<u> </u>	1370			₹	88,178.90
			10/				
	g. Add cess	@	1%			₹	141.22
	Total cost for 15 Mtr.					₹	88,320.12
	Total cost for 1 Mtr.					₹	5,888.01
	Rate per metre (Say)					₹	5,888.00
	Trate per metre (say)					_	3,000.00
15.3	Boring, providing and installation bored cast-in-situ r	pinforce	d coment c	one	rata nilas i	of ar	ada M.25 of
15.5							
	specified diameter and length below the pile cap,						
	specified, excluding the cost of steel reinforcement be						
	solution and temporary casing of appropriate length f						
	of the pile to be embedded in the pile cap etc. by Crawle						
	complete, including removal of excavated earth with a	all its li	fts and lead	ds.	(Length of p	oile f	or payment
	shall be measured upto bottom of pile cap). Note: Truck	Mounte	d rotary / 🖯	TMF	R / Tubewell	Bori	ng Machine
	shall not be used.						
15.3.1	600 mm dia piles.						
Code	Description	Unit	Quantity		Rate	1	Amount
Code			Quantity		Rate		Amount
	Details of cost for 20 Mtr.	Mtr.					
	a. Materials:						
	Concrete $3.14 / 4x0.60^2 x20 = 5.65 \text{ Cum}$						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	5.65	₹	11,186.80	₹	63,205.42
15003	Bentonite	Tonne	0.330	₹	3,200.00	₹	1,056.00
10000	Hire and running charges of hydraulic piling rig with	1011110	0.000	Ì	0,200.00	<u> </u>	1,000.00
0100		Dov	0.75	*	22 500 00	*	24 275 00
0108	power unit etc. including complete accessories and	Day	0.75	₹	32,500.00	₹	24,375.00
	shifting at site.			_			
0109	Hire and running charges of light crane.	Day	0.06	₹	3,000.00	₹	180.00
0106	Hire and running charges of bentonite pump.	Day	0.38	₹	4,000.00	₹	1,520.00
0110	Hire and running charges of loader.	Day	0.30	₹	5,100.00	₹	1,530.00
0111	Hire and running charges of tipper	Day	0.30	₹	2,000.00	₹	600.00
	b. Labours:	,			•		
0225	Work supervisor/ mistri	Day	0.12	₹	395.00	₹	47.40
0203	Beldar		3.00	₹	310.00	₹	930.00
0203		Day	3.00	_	310.00		
	TOTAL					₹	93,443.82
	c. Sundries (wooden blocks, stripped off to obtain sound	@	3.0%			₹	907.15
	concrete etc.) & contingencies: (ex/c A)		3.070			`	707.13
						₹	94,350.97
	d Water charges : (ev/e A)	@	1.0%			₹	
	d. Water charges : (ex/c A)	w	1.0%				311.46
						₹	94,662.43
	e. Add GST (multiplying factor)		0.1405			₹	4,419.71
						₹	99,082.14
	f. Add for contractor's profit and overheads	@	15%			₹	5,381.51
	'					₹	1,04,463.65
	g. Add cess	@	1%			₹	412.58
		<u> </u>	1 70	-			
	Total cost for 20 Mtr.		1	_		₹	1,04,876.23
	Total cost for 1 Mtr.			L		₹	5,243.81
	Rate per metre (Say)					₹	5,243.80
15.3	Boring, providing and installation bored cast-in-situ r	einforce	d cement c	one	crete niles	of ar	ade M-25 of
10.0	specified diameter and length below the pile cap,					_	
	specified, excluding the cost of steel reinforcement k						
	solution and temporary casing of appropriate length f						
	of the pile to be embedded in the pile cap etc. by Crawle						
	complete, including removal of excavated earth with a						
	shall be measured upto bottom of pile cap). Note: Truck						
	shall not be used.						
15.3.2	750 mm dia piles.						
	•	Unit	Ougatita		Doto	1	Ame: int
Code	Description Details of cost for 15 00 Mtr.		Quantity	-	Rate		Amount
	Details of cost for 15.00 Mtr.	Mtr.	1	_			
	a. Materials:		 	_			
	Concrete $3.14 / 4x0.75^2 x15 = 6.62 \text{ Cum}$		<u> </u>	L			

	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	6.62	₹	11,186.80	₹	74,056.62
15003	Bentonite	Tonne	0.30	₹	3,200.00	₹	960.00
	Hire and running charges of hydraulic piling rig with						<u> </u>
0108	power unit etc. including complete accessories and	Day	0.70	₹	32,500.00	₹	22,750.00
	shifting at site.						
0109	Hire and running charges of light crane.	Day	0.06	₹	3,000.00	₹	180.00
0106	Hire and running charges of bentonite pump.	Day	0.75	₹	4,000.00	₹	3,000.00
0110	Hire and running charges of loader.	Day	0.30	₹	5,100.00	₹	1,530.00
0111	Hire and running charges of tipper	Day	0.30	₹	2,000.00	₹	600.00
	b. Labours:						
0225	Work supervisor/ mistri	Day	0.14	₹	395.00	₹	55.30
0203	Beldar	Day	3.50	₹	310.00	₹	1,085.00
	TOTAL			<u> </u>		₹	1,04,216.92
	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	904.81
						₹	1,05,121.73
	d. Water charges : (ex/c A)	@	1.0%			₹	310.65
						₹	1,05,432.38
	e. Add GST (multiplying factor)		0.1405			₹	4,408.29
						₹	1,09,840.67
	f. Add for contractor's profit and overheads	@	15%			₹	5,367.61
						₹	1,15,208.28
	g. Add cess	@	1%			₹	411.52
	Total cost for 15 Mtr.					₹	1,15,619.80
	Total cost for 1 Mtr.				_	₹	7,707.99
	Rate per metre (Say)	 		\vdash		₹	7,708.00
	[50,	 		\vdash		ΙÙ	7,7.30.00
	specified, excluding the cost of steel reinforcement by solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by <i>Crawle</i>	for settin	g out and i	rem	oval of sam	e an	d the length
		for settin er Mounte all its lif	g out and i ed, telescop fts and lead	rem pic b ds.	oval of sam coom hydrau (Length of p	e an ulic p pile t	nd the length piling Rig all for payment
15.3.3	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by <i>Crawle</i> complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). <i>Note: Truck</i>	for settin er Mounte all its lif	g out and i ed, telescop fts and lead	rem pic b ds.	oval of sam coom hydrau (Length of p	e an ulic p pile t	nd the length piling Rig all for payment
15.3.3 Code	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used.	for settin er Mounte all its lif	g out and i ed, telescop fts and lead	rem pic b ds.	oval of sam coom hydrau (Length of p	e an ulic p pile t	nd the length piling Rig all for payment
	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr.	for settin er Mounte all its lif a Mountee	g out and red, telescop fts and lead d rotary / 7	rem pic b ds.	oval of sam boom hydrau (Length of p R / Tubewell	e an ulic p pile t	nd the length piling Rig all for payment ring Machine
	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials:	for settinger Mounte all its lift Mounted Unit	g out and red, telescop fts and lead d rotary / 7	rem pic b ds.	oval of sam boom hydrau (Length of p R / Tubewell	e an ulic p pile t	nd the length piling Rig all for payment ring Machine
	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr.	for settinger Mounte all its lift Mounted Unit	g out and red, telescop fts and lead d rotary / 7	rem pic b ds.	oval of sam boom hydrau (Length of p R / Tubewell	e an ulic p pile t	nd the length piling Rig all for payment ring Machine
	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials:	for settinger Mounte all its lift Mounted Unit	g out and red, telescop fts and lead d rotary / 7	rem pic b ds.	oval of sam boom hydrau (Length of p R / Tubewell	e an ulic µ pile † Bor	nd the length piling Rig all for payment ring Machine
	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00 ² x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite	For setting of Mounted all its lift of Mounted Mounted Unit Mtr.	g out and ued, telescopers and lead rotary / Total	rem pic k ds. TIME	Rate	e an ulic poile d Bor	od the length piling Rig all for payment ring Machine Amount
Code	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and	For setting of Mounted all its lift of Mounted all its	g out and used, telescoperts and lead of rotary / 1	rem pic b ds. TIME	Rate	e an ulic µ pile † Bor	ad the length piling Rig all for payment ring Machine Amount 87,816.38
15003 0108	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	Cum Tonne Day	Quantity 7.85 0.69	rem pic k ds. TTMF	Rate 11,186.80 3,200.00	e an ulic µ poile d Bor ₹	Amount 87,816.38 1,120.00
15003 0108	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane.	Cum Tonne Day Day	Quantity 7.85 0.69 0.06	rem pic k dds. TMF	Rate 11,186.80 3,200.00 3,000.00	e anulic pulle pul	Amount 87,816.38 1,120.00 180.00
15003 0108 0109 0106	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump.	Cum Tonne Day Day Day	Quantity 7.85 0.69 0.06 0.75	rem pic k dds. TMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00	e anulic µ ulic µ bile ↑ Bor	Amount 87,816.38 1,120.00 22,425.00 180.00 3,000.00
15003 0108 0109 0106 0110	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader.	Cum Tonne Day Day Day Day	Quantity 7.85 0.69 0.06 0.75 0.4	rem pic k dds. TMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 5,100.00	e anulic µ ulic µ bile 1 Bor ₹ ₹ ₹	Amount 87,816.38 1,120.00 22,425.00 180.00 3,000.00 2,040.00
15003 0108 0109 0106	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of ligher	Cum Tonne Day Day Day	Quantity 7.85 0.69 0.06 0.75	rem pic k dds. TMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00	e anulic µ ulic µ bile ↑ Bor	Amount 87,816.38 1,120.00 22,425.00 180.00 3,000.00
15003 0108 0109 0106 0110 0111	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of lightcrane. Hire and running charges of loader. Hire and running charges of lipper b. Labours:	Cum Tonne Day Day Day Day Day Day	Quantity 7.85 0.06 0.06 0.75 0.4 0.4	rem bic k dds. TTMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00	e anulic µ pulle 1 l Bor	Amount 87,816.38 1,120.00 22,425.00 180.00 3,000.00 2,040.00 800.00
15003 0108 0109 0106 0110	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of ligher	Cum Tonne Day Day Day Day Day Day Day Day	Quantity 7.85 0.69 0.06 0.75 0.4	rem pic k dds. TMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00 395.00	e anulic µ ulic µ bile 1 Bor ₹ ₹ ₹	Amount 87,816.38 1,120.00 22,425.00 180.00 3,000.00 2,040.00
15003 0108 0109 0106 0110 0111	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of loader. Hire and running charges of loader. Hire and running charges of tipper b. Labours: Work supervisor/ mistri	Cum Tonne Day Day Day Day Day Day	Quantity 7.85 0.35 0.69 0.06 0.75 0.4 0.16	rem bic k dds. TTMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00	e anulic µ ulic µ bile 1 Bor ₹ ₹ ₹ ₹ ₹	Amount 87,816.38 1,120.00 22,425.00 180.00 2,040.00 800.00 63.20 1,240.00
15003 0108 0109 0106 0110 0111	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of tipper b. Labours: Work supervisor/ mistri Beldar	Cum Tonne Day Day Day Day Day Day Day Day	Quantity 7.85 0.35 0.69 0.06 0.75 0.4 0.16	rem bic k dds. TTMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00 395.00	e an ulic µ pile 1 l Bor ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	87,816.38 1,120.00 22,425.00 180.00 2,040.00 800.00 1,18,684.58
15003 0108 0109 0106 0110 0111	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of loader. Hire and running charges of tipper b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound	Cum Tonne Day Day Day Day Day Day Day Day Day Day	Quantity 7.85 0.35 0.69 0.06 0.75 0.4 0.4 0.16 4.00	rem bic k dds. TTMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00 395.00	e an ulic µ poile of the poile	87,816.38 1,120.00 22,425.00 180.00 3,000.00 2,040.00 800.00 1,18,684.58 926.05
15003 0108 0109 0106 0110 0111	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of loader. Hire and running charges of loader. Hire and running charges of tipper b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	Cum Tonne Day Day Day Day Day Day Day Day Day Day	Quantity 7.85 0.35 0.69 0.06 0.75 0.4 0.4 0.16 4.00	rem bic k dds. TTMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00 395.00	e an ulic µ pile 1 l Bor ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 87,816.38 1,120.00 22,425.00 180.00 2,040.00 800.00 1,18,684.58 926.05 1,19,610.63
15003 0108 0109 0106 0110 0111	solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of loader. Hire and running charges of tipper b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound	Cum Tonne Day Day Day Day Day Day Day Day Day Day	Quantity 7.85 0.35 0.69 0.06 0.75 0.4 0.4 0.16 4.00 3.0%	rem bic k dds. TTMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00 395.00	e an ulic µ poile of land land land land land land land land	Amount 87,816.38 1,120.00 22,425.00 180.00 2,040.00 800.00 1,18,684.58 926.05 1,19,610.63 317.94
15003 0108 0109 0106 0110 0111	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of light crane. Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A)	Cum Tonne Day Day Day Day Day Day Day Day Day Day	Quantity 7.85 0.35 0.69 0.06 0.75 0.4 0.4 0.16 4.00 3.0%	rem bic k dds. TTMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00 395.00	e an ulic µ pile 1 l Bor ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 87,816.38 1,120.00 22,425.00 180.00 2,040.00 800.00 1,240.00 1,18,684.58 926.05 1,19,610.63 317.94 1,19,928.57
15003 0108 0109 0106 0110 0111	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of loader. Hire and running charges of loader. Hire and running charges of tipper b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	Cum Tonne Day Day Day Day Day Day Day Day Day Day	Quantity 7.85 0.35 0.69 0.06 0.75 0.4 0.4 0.16 4.00 3.0%	rem bic k dds. TTMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00 395.00	e an ulic µ polle of land land land land land land land land	87,816.38 1,120.00 22,425.00 180.00 2,040.00 800.00 1,240.00 1,18,684.58 926.05 1,19,610.63 317.94 1,19,928.57 4,511.76
15003 0108 0109 0106 0110 0111	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of loader. Hire and running charges of tipper b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A)	Cum Tonne Day Day Day Day Day Day Day Day Day Day	Quantity 7.85 0.35 0.69 0.06 0.75 0.4 0.4 0.16 4.00 3.0% 1.0%	rem bic k dds. TTMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00 395.00	e an ulic µ poile in la Borre te te te te te te te te te te te te te	87,816.38 1,120.00 22,425.00 180.00 3,000.00 2,040.00 800.00 1,18,684.58 926.05 1,19,610.63 317.94 1,19,928.57 4,511.76
15003 0108 0109 0106 0110 0111	solution and temporary casing of appropriate length of the pile to be embedded in the pile cap etc. by Crawle complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used. 1000 mm dia piles. Description Details of cost for 10.00 Mtr. a. Materials: Concrete 3.14 /4x1.00²x10 = 7.85 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. Hire and running charges of loader. Hire and running charges of light crane. Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A)	Cum Tonne Day Day Day Day Day Day Day Day Day Day	Quantity 7.85 0.35 0.69 0.06 0.75 0.4 0.4 0.16 4.00 3.0%	rem bic k dds. TTMF	Rate 11,186.80 3,200.00 3,000.00 4,000.00 2,000.00 395.00	e an ulic µ polle of land land land land land land land land	87,816.38 1,120.00 22,425.00 180.00 3,000.00 2,040.00 800.00 1,18,684.58 926.05 1,19,610.63 317.94 1,19,928.57 4,511.76

	T	ı _		1	3H: 13/		
	g. Add cess	@	1%			₹	421.18
	Total cost for 10 Mtr.					₹	1,30,355.10
	Total cost for 1 Mtr.					₹	13,035.51
	Rate per metre (Say)					₹	13,035.50
15.3	Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement be solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawled complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used.	to carrout inclusion setting of setting of the carrown to the carr	y a safe ding the o g out and ed, telescop fts and lead	wo cost rem oic b ds. (rking load of boring oval of sam boom hydra (Length of p	no wit ie an ulic poile	t less than th bentonite of the length piling Rig all for payment
15.3.4	1200 mm dia piles.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 9.00 Mtr.	Mtr.					
	a. Materials:						
	Concrete $3.14 / 4x1.20^2 x9 = 10.17 \text{ Cum}$						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	10.17	₹	11,186.80	₹	1,13,769.76
15003	Bentonite	Tonne	0.385	₹	3,200.00	₹	1,232.00
0108	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	Day	0.67	₹	32,500.00	₹	21,775.00
0109	Hire and running charges of light crane.	Day	0.06	₹	3,000.00	₹	180.00
0107	Hire and running charges of light crane.	Day	0.75	₹	4,000.00	₹	3,000.00
0110	Hire and running charges of barnerine parties.	Day	0.5	₹	5,100.00	₹	2,550.00
0111	Hire and running charges of foundar.	Day	0.5	₹	2,000.00	₹	1,000.00
0111	b. Labours:	Duy	0.0	Ì	2/000.00	Ì	17000.00
0225	Work supervisor/ mistri	Day	0.18	₹	395.00	₹	71.10
0203	Beldar	Day	4.50	₹	310.00	₹	1,395.00
0200	TOTAL	Day	1.00	`	0.10.00	₹	1,44,972.86
	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	936.09
						₹	1,45,908.95
	d. Water charges : (ex/c A)	@	1.0%			₹	321.39
						₹	1,46,230.34
	e. Add GST (multiplying factor)		0.1405			₹	4,560.71
	, , ,					₹	1,50,791.05
	f. Add for contractor's profit and overheads	@	15%			₹	5,553.19
	n rad for sommatter o prome and overmodate					₹	1,56,344.24
	g. Add cess	@	1%			₹	425.74
	Total cost for 9 Mtr.	C	170			₹	1,56,769.98
	Total cost for 1 Mtr.					₹	17,418.89
						₹	17,418.90
	Rate per metre (Say)					`	17,410.90
15.3	Boring, providing and installation bored cast-in-situ respecified diameter and length below the pile cap, specified, excluding the cost of steel reinforcement be solution and temporary casing of appropriate length for the pile to be embedded in the pile cap etc. by Crawled complete, including removal of excavated earth with a shall be measured upto bottom of pile cap). Note: Truck shall not be used.	to carr out inclu for settin er Mount all its lif	y a safe ding the o g out and ed, telescop fts and lead	wo cost rem oic b ds. (rking load of boring oval of sam boom hydra (Length of p	no wit ie an ulic poile	t less than th bentonite of the length piling Rig all for payment
15.3.5	1500 mm dia piles.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 9.00 Mtr.	Mtr.					
			1	1		1	
	a. Materials:						
	a. Materials: Concrete 3.14 /4x1.50 ² x9 = 15.90 Cum						
		Cum	15.90	₹	11,186.80 3,200.00	₹	1,77,870.12 1,440.00

0108	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and	Day	0.77	₹	32,500.00	₹	25,025.00
0100	shifting at site.	Day	0.77	`	32,300.00	`	23,023.00
0109	Hire and running charges of light crane.	Day	0.10	₹	3,000.00	₹	300.00
0106	Hire and running charges of light crane. Hire and running charges of bentonite pump.	Day	0.96	₹	4,000.00	₹	3,840.00
0110	Hire and running charges of loader.	Day	0.75	₹	5,100.00	₹	3,825.00
0111	Hire and running charges of tipper	Day	0.75	₹	2,000.00	₹	1,500.00
	b. Labours:	Duy	0.70	<u> </u>	2,000.00	`	1,000.00
0225	Work supervisor/ mistri	Day	0.25	₹	395.00	₹	98.75
0203	Beldar	Day	5.00	₹	310.00	₹	1,550.00
0200	TOTAL	Duj	0.00	Ì	010.00	₹	2,15,448.87
	c. Sundries (wooden blocks, stripped off to obtain sound						
	concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	1,127.36
	deficite etc.) a contingencies. (ex/ e / t)					₹	2,16,576.23
	d Weter charges (ov/s A)		1.00/				
	d. Water charges : (ex/c A)	@	1.0%			₹	387.06
	A 11 00T (111 1 1 1 5 1 1)		0.4.405			₹	2,16,963.29
	e. Add GST (multiplying factor)		0.1405			₹	5,492.59
						₹	2,22,455.88
	f. Add for contractor's profit and overheads	@	15%			₹	6,687.86
	<u> </u>					₹	2,29,143.74
	g. Add cess	@	1%			₹	512.74
	Total cost for 9 Mtr.					₹	2,29,656.48
	Total cost for 1 Mtr.					₹	25,517.39
	Rate per metre (Say)					₹	25,517.40
15.4	Boring with hydraulic piling rigs with power units, p						
	reamed piles of specified diameter and length below						
	cafe working load not loss than specified evaluding	the co			<mark>einforcemen</mark>		
	safe working load not less than specified, excluding						
	the cost of boring with bentonite solution and the l	length c					
	the cost of boring with bentonite solution and the letc. all complete as per specification & the direction of	length c					
	the cost of boring with bentonite solution and the l	length c					
	the cost of boring with bentonite solution and the letc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):-	length c					
15.4.1	the cost of boring with bentonite solution and the letc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):-	length c	r in-charge		ength of pi		or payment
15.4.1 Code	the cost of boring with bentonite solution and the letc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description	length of Engineer					
	the cost of boring with bentonite solution and the letc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr.	length c	r in-charge		ength of pi		or payment
	the cost of boring with bentonite solution and the letc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials:	length of Engineer	r in-charge		ength of pi		or payment
	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30) ² x9.625 = 0.680 Cum	length of Engineer	r in-charge		ength of pi		or payment
	the cost of boring with bentonite solution and the letc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials:	length of Engineer	r in-charge		ength of pi		or payment
	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30) ² x9.625 = 0.680 Cum Bulb -3.14/4x(0.75) ² x0.075 = 0.033 Cum	length of Engineer	r in-charge		ength of pi		or payment
	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30) ² x9.625 = 0.680 Cum	length of Engineer	r in-charge		ength of pi		or payment
	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30) ² x9.625 = 0.680 Cum Bulb -3.14/4x(0.75) ² x0.075 = 0.033 Cum 2x 3.14/4x(0.525) ² x0.150 = 0.065 Cum Total concrete '=0.778 cum	length of Engineer	r in-charge		ength of pi		Amount
	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem $-3.14/4x(0.30)^2x9.625 = 0.680$ Cum Bulb $-3.14/4x(0.75)^2x0.075 = 0.033$ Cum $2x 3.14/4x(0.525)^2x0.150 = 0.065$ Cum	Unit Mtr.	Quantity	e (Le	Rate 11,186.80	ile f	Amount 8,703.33
Code	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30) ² x9.625 = 0.680 Cum Bulb -3.14/4x(0.75) ² x0.075 = 0.033 Cum 2x 3.14/4x(0.525) ² x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Unit Mtr.	Quantity 0.778	e (Le	Rate	ile f	Amount 8,703.33
Code	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite	Unit Mtr.	Quantity 0.778	e (Le	Rate 11,186.80	ile f	Amount 8,703.33 256.00
15003	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with	Unit Mtr. Cum Tonne	Quantity 0.778 0.080	e (Lu	Rate 11,186.80 3,200.00	ile f	Amount 8,703.33 256.00
15003	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and	Unit Mtr. Cum Tonne	Quantity 0.778 0.080	e (Lu	Rate 11,186.80 3,200.00	ile f	Amount 8,703.33 256.00 11,700.00
15003 0108	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump.	Unit Mtr. Cum Tonne Day	Ouantity 0.778 0.080 0.360	₹ ₹	Rate 11,186.80 3,200.00 32,500.00	₹ ₹	8,703.33 256.00 11,700.00
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours:	Unit Mtr. Cum Tonne Day Day	0.778 0.080 0.360 0.030 0.02	₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00	₹ ₹	8,703.33 256.00 11,700.00 90.00 80.00
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri	Unit Mtr. Cum Tonne Day Day	0.778 0.080 0.030 0.02	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00		8,703.33 256.00 11,700.00 90.00 80.00
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar	Unit Mtr. Cum Tonne Day Day Day	0.778 0.080 0.360 0.030 0.02	₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00	ile f	8,703.33 256.00 11,700.00 90.00 80.00 31.60 620.00
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri	Unit Mtr. Cum Tonne Day Day Day Day	0.778 0.080 0.030 0.02	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00		or payment
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar	Unit Mtr. Cum Tonne Day Day Day Day Day	0.778 0.080 0.030 0.02 0.08 2.00	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,703.33 256.00 11,700.00 90.00 80.00 31.60 620.00 21,480.93
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar TOTAL	Unit Mtr. Cum Tonne Day Day Day Day	0.778 0.080 0.030 0.02	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,703.33 256.00 11,700.00 90.00 80.00 31.60 620.00
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound	Unit Mtr. Cum Tonne Day Day Day Day Day	0.778 0.080 0.030 0.02 0.08 2.00	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,703.33 256.00 11,700.00 90.00 80.00 31.60 620.00 21,480.93 383.33
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	Unit Mtr. Cum Tonne Day Day Day Day Day	0.778 0.080 0.360 0.030 0.02 0.08 2.00	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00		8,703.33 256.00 11,700.00 90.00 80.00 21,480.93 383.33 21,864.26
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound	Unit Mtr. Cum Tonne Day Day Day Day Day Day	0.778 0.080 0.030 0.02 0.08 2.00	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,703.33 256.00 11,700.00 90.00 80.00 21,480.93 383.33 21,864.26 131.61
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A)	Unit Mtr. Cum Tonne Day Day Day Day Day Day	0.778 0.080 0.360 0.030 0.02 0.08 2.00	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,703.33 256.00 11,700.00 90.00 80.00 21,480.93 383.33 21,864.26 131.61 21,995.87
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	Unit Mtr. Cum Tonne Day Day Day Day Day Day	0.778 0.080 0.360 0.030 0.02 0.08 2.00	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00		8,703.33 256.00 11,700.00 90.00 80.00 21,480.93 383.33 21,864.26 131.61 21,995.87 1,867.60
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor)	Unit Mtr. Cum Tonne Day Day Day Day Day @ @	0.778 0.080 0.360 0.030 0.02 0.08 2.00 3.0%	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,703.33 256.00 11,700.00 90.00 80.00 21,480.93 383.33 21,864.26 131.61 21,995.87 1,867.60 23,863.47
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A)	Unit Mtr. Cum Tonne Day Day Day Day Day Day	0.778 0.080 0.360 0.030 0.02 0.08 2.00	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,703.33 256.00 11,700.00 90.00 80.00 21,480.93 383.33 21,864.26 131.61 21,995.87 1,867.60 23,863.47 2,274.02
15003 0108 0109 0106	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap):- 300 mm dia piles. Description Details of cost for 10 Mtr. a. Materials: Stem -3.14/4x(0.30)²x9.625 = 0.680 Cum Bulb -3.14/4x(0.75)²x0.075 = 0.033 Cum 2x 3.14/4x(0.525)²x0.150 = 0.065 Cum Total concrete '=0.778 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Hire and running charges of light crane. Hire and running charges of bentonite pump. b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor)	Unit Mtr. Cum Tonne Day Day Day Day Day @ @	0.778 0.080 0.360 0.030 0.02 0.08 2.00 3.0%	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 3,200.00 32,500.00 4,000.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,703.33 256.00 11,700.00 90.00 80.00 21,480.93 383.33 21,864.26 131.61 21,995.87 1,867.60

	2x 3.14/4x(0.788) ² x0.337 = 0.329 cum Total concrete'= 1.906 cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Bentonite	Cum Tonne	1.906 0.190	₹	11,186.80 3,200.00	₹	21,322.0 ⁴ 608.00
	2x 3.14/4x(0.788) ² x0.337 =0.329 cum Total concrete'= 1.906 cum	Cum	1 006	3	11 106 00	3	21 322 0
	$2x 3.14/4x(0.788)^2x0.337 = 0.329 \text{ cum}$						
	DUID =3.14/4X(1.123/X().113 = ().11/ ().111						
	Bulb -3.14/4x(1.125) 2 x0.113 = 0.112 cum	Ì					
	Stem $-3.14/4x(0.45)^2x9.212 = 1.465$ cum						
	a. Materials:						
	Details of cost for 10 Mtr.	Mtr.	Zuaritity		Nate	<u> </u>	, amount
Code	Description	Unit	Quantity		Rate		Amount
15.4.3	450 mm dia piles.						
	snan be measured upto to the bottom of pile cap):-						
	etc. all complete as per specification & the direction of shall be measured upto to the bottom of pile cap) :-	Enginee	er in-charge	: (Le	ength of p	ie fo	paymen
	the cost of boring with bentonite solution and the						
	safe working load not less than specified, excluding						
	reamed piles of specified diameter and length below						
	Boring with hydraulic piling rigs with power units, p						
	Rate per metre (Say)					₹	3,457.5
	Total cost for 1 Mtr.					₹	3,457.5
	Total cost for 10 Mtr.					₹	34,575.3
	g. Add cess	@	1%			₹	178.6
						₹	34,396.6
	f. Add for contractor's profit and overheads	@	15%			₹	2,329.9
			5.1.100			₹	32,066.7
	e. Add GST (multiplying factor)		0.1405			₹	1,913.5
	a. Tracor onargos : (on o ry		1.070			₹	30,153.2
	d. Water charges : (ex/c A)	@	1.0%			₹	134.8
	grand grand y					₹	30,018.4
	concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	392.7
	c. Sundries (wooden blocks, stripped off to obtain sound						
	TOTAL			Ì	310.00	₹	29,625.6
	Beldar	Day	2.00	₹	310.00	₹	620.0
	Work supervisor/ mistri	Day	0.08	₹	395.00	₹	31.6
	b. Labours:	Day	0.020	<u> </u>	7,000.00	\vdash	00.0
	Hire and running charges of light charle. Hire and running charges of bentonite pump.	Day	0.020	₹	4,000.00	₹	80.0
	Shifting at site. Hire and running charges of light crane.	Day	0.060	₹	3,000.00	₹	180.0
	power unit etc. including complete accessories and shifting at site.	Day	0.360	₹	32,500.00	₹	11,700.0
	Hire and running charges of hydraulic piling rig with	Day	0.240	∓	22 E00 00	=	11 700 0
	Bentonite	Tonne	0.150	₹	3,200.00	₹	480.0
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	1.478	₹	11,186.80	₹	16,534.0
	Total concrete'= 1.478 cum		4 17 5	_	44.404.55		4 (= 5)
	$2x 3.14/4x(0.7)^2x0.30 = 0.231 \text{ cum}$					<u> </u>	
	Bulb $-3.14/4x(1.00)^2x0.1 = 0.079$ cum					 	
	Stem $-3.14/4x(0.40)^2x9.30 = 1.169 \text{ cum}$					<u> </u>	
	a. Materials:					 	
	Details of cost for 10 Mtr.	Mtr.				 	
Code	<u>Description</u>	Unit	Quantity		Rate	<u> </u>	Amount
	400 mm dia piles.						
	shall be measured upto to the bottom of pile cap) :-	Enginee	er mi-Charge	e (Le	ength of p	ie ic	л раутег
	the cost of boring with bentonite solution and the etc. all complete as per specification & the direction of						
	safe working load not less than specified, excluding						
	reamed piles of specified diameter and length below						
	Boring with hydraulic piling rigs with power units, p						
	Rate per metre (Say)					₹	2,631.2
	Total cost for 1 Mtr.	<u> </u>				₹	2,631.1

Hire and running charges of hydraulic piling rig with 0108 power unit etc. including complete accessories and shifting at site. 0109 Hire and running charges of light crane. 0106 Hire and running charges of bentonite pump. 0205 Work supervisor/ mistri 0203 Beldar Day 0.360 ₹ 32,500.00 ₹ 3,000.00 ₹ 4,000.00 ₹ 395.00 ₹ 395.00 ₹	11 700 00
shifting at site. 0109 Hire and running charges of light crane. Day 0.060 ₹ 3,000.00 ₹ 0106 Hire and running charges of bentonite pump. Day 0.020 ₹ 4,000.00 ₹ b. Labours: Day 0.08 ₹ 395.00 ₹	
0109 Hire and running charges of light crane. Day 0.060 ₹ 3,000.00 ₹ 0106 Hire and running charges of bentonite pump. Day 0.020 ₹ 4,000.00 ₹ b. Labours: Day 0.08 ₹ 395.00 ₹	11,700.00
0106 Hire and running charges of bentonite pump. Day 0.020 ₹ 4,000.00 ₹ b. Labours: Day 0.08 ₹ 395.00 ₹	
b. Labours: Day 0.08 ₹ 395.00 ₹	180.00
0225 Work supervisor/ mistri Day 0.08 ₹ 395.00 ₹	80.00
0202 Polder Day 2.00 ₹ 210.00 ₹	31.60
0203 Deluai	620.00
TOTAL	34,541.64
c. Sundries (wooden blocks, stripped off to obtain sound	2 1/2 7 112 1
concrete etc.) & contingencies: (ex/c A)	396.59
₹	34,938.23
d. Water charges : (ex/c A) @ 1.0% ₹	136.16
₹	35,074.39
e. Add GST (multiplying factor) 0.1405 ₹	1,932.21
₹	37,006.60
f. Add for contractor's profit and overheads @ 15% ₹	2,352.68
₹	39,359.28
g. Add cess @ 1% ₹	180.37
Total cost for 10 Mtr. ₹	39,539.65
Total cost for 1 Mtr. ₹	3,953.97
Rate per metre (Say) ₹	3,954.00
15.4 Boring with hydraulic piling rigs with power units, providing and installing cast in situ s	
reamed piles of specified diameter and length below pile cap in M25 cement concrete,	to carry a
safe working load not less than specified, excluding the cost of steel reinforcement but	ut including
the cost of boring with bentonite solution and the length of the pile to be embedded	
etc. all complete as per specification & the direction of Engineer in-charge (Length of pile for	
shall be measured upto to the bottom of pile cap):-	o. pajo
Shah so measured upto to the section of pile sup).	
15.4.4 500 mm dia niles	
15.4.4 500 mm dia piles. Codo Description Lipit Quantity Pate	Amount
Code Description Unit Quantity Rate	Amount
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr.	Amount
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. a. Materials: ————————————————————————————————————	Amount
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum	Amount
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. a. Materials: ————————————————————————————————————	Amount
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Bulb -3.14/4x(1.25)²x0.125 = 0.153 Cum	Amount
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Bulb -3.14/4x(1.25)²x0.125 = 0.153 Cum 2x 3.14/4x(0.875)²x0.375 = 0.451 Cum	Amount
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum	
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹	26,803.57
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Total concrete'= 2.396 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹	
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(1.25)²x0.125 = 0.153 Cum 2x 3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Cum 2.396 ₹ 11,186.80 ₹ Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with 3,200.00 ₹	26,803.57 640.00
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum 2x 3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Cum 2.396 ₹ 11,186.80 ₹ Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and Day 0.360 ₹ 32,500.00 ₹	26,803.57
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Day 0.360 ₹ 32,500.00 ₹	26,803.57 640.00 11,700.00
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(1.25)²x0.375 = 0.451 Cum 2x 3.14/4x(0.875)²x0.375 = 0.451 Cum Stem -3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Cum 2.396 ₹ 11,186.80 ₹ Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Day 0.360 ₹ 32,500.00 ₹ 0109 Hire and running charges of light crane. Day 0.060 ₹ 3,000.00 ₹	26,803.57 640.00 11,700.00 180.00
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.125 = 0.153 Cum 2x 3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with shifting at site. Day 0.360 ₹ 32,500.00 ₹ 0109 Hire and running charges of light crane. Day 0.060 ₹ 3,000.00 ₹ 0106 Hire and running charges of bentonite pump. Day 0.020 ₹ 4,000.00 ₹	26,803.57 640.00 11,700.00
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. A. Materials: Mtr. A. Materials: A. M	26,803.57 640.00 11,700.00 180.00 80.00
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Zasye = 11,186.80 ₹ Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Day 0.360 ₹ 32,500.00 ₹ 0109 Hire and running charges of light crane. Day 0.060 ₹ 3,000.00 ₹ 0106 Hire and running charges of bentonite pump. Day 0.020 ₹ 4,000.00 ₹ b. Labours: Day 0.08 ₹ 395.00 ₹	26,803.57 640.00 11,700.00 180.00 80.00
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Mtr. Mtr. Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Cum 2.396 ₹ 11,186.80 ₹ Total concrete'= 2.396 Cum Tonne 0.200 ₹ 3,200.00 ₹ Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ ₹ Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Day 0.360 ₹ 32,500.00 ₹ ₹ 0109 Hire and running charges of light crane. Day 0.060 ₹ 3,000.00 ₹ ₹ 4,000.00 ₹ 0106 Hire and running charges of bentonite pump. Day 0.020 ₹ 4,000.00 ₹ ₹ 0225 Work supervisor/ mistri Day 0.08 ₹ 395.00 ₹ 0203 Beldar Day 2.00 ₹ 310.00 ₹	26,803.57 640.00 11,700.00 180.00 80.00 31.60 620.00
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Zasye = 11,186.80 ₹ Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Day 0.360 ₹ 32,500.00 ₹ 0109 Hire and running charges of light crane. Day 0.060 ₹ 3,000.00 ₹ 0106 Hire and running charges of bentonite pump. Day 0.020 ₹ 4,000.00 ₹ b. Labours: Day 0.08 ₹ 395.00 ₹	26,803.57 640.00 11,700.00 180.00 80.00
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete' = 2.396 Cum Z.396 ₹ 11,186.80 ₹ 15003 Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ 15003 ₹ 3,200.00 ₹ 3,200.00 ₹ 15003 Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Day 0.360 ₹ 32,500.00 ₹ 32,500.00 ₹ 32,500.00 ₹ 30,000.00 ₹ 1500.000 ₹ 30,000.00 ₹ 30,000 ₹ 30,000.	26,803.57 640.00 11,700.00 180.00 80.00 31.60 620.00 40,055.17
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(0.50)²x9.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.125 = 0.153 Cum 2x 3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Cum 2.396 ₹ 11,186.80 ₹ Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Day 0.360 ₹ 32,500.00 ₹ 0109 Hire and running charges of light crane. Day 0.060 ₹ 3,000.00 ₹ 0106 Hire and running charges of bentonite pump. Day 0.020 ₹ 4,000.00 ₹ b. Labours: Day 0.08 ₹ 395.00 ₹ 0225 Work supervisor/ mistri Day 0.08 ₹ 395.00 ₹ 0203 Beldar Day 2.00 ₹ 310.00 ₹ TOTAL ₹	26,803.57 640.00 11,700.00 180.00 80.00 31.60 620.00
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(1.25)²x0.125 = 0.153 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Zx 3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Cum 2.396 ₹ 11,186.80 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ 3,200.00 ₹ 10,000 Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. Day 0.360 ₹ 32,500.00 ₹ 32,500.00 ₹ 32,500.00 ₹ 10,000.00 ₹ 10	26,803.57 640.00 11,700.00 180.00 80.00 31.60 620.00 40,055.17 397.55
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Bulb -3.14/4x(1.25)²x0.125 = 0.153 Cum	26,803.57 640.00 11,700.00 180.00 80.00 31.60 620.00 40,055.17 397.55
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. A. Materials: Mtr. A. Materials: A. M	26,803.57 640.00 11,700.00 180.00 80.00 31.60 620.00 40,055.17 397.55 40,452.72 136.49
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Bulb -3.14/4x(1.25)²x0.125 = 0.153 Cum 2x 3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete' = 2.396 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) Cum 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site. 32,500.00 ₹ 0109 Hire and running charges of light crane. Day 0.060 ₹ 3,000.00 ₹ 0106 Hire and running charges of bentonite pump. Day 0.020 ₹ 4,000.00 ₹ 0225 Work supervisor/ mistri Day 0.08 ₹ 395.00 ₹ 0203 Beldar Day 2.00 ₹	26,803.57 640.00 11,700.00 180.00 80.00 40,055.17 397.55 40,452.72 136.49 40,589.21
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. A. Materials: Mtr. A. Materials: A. M	26,803.57 640.00 11,700.00 180.00 80.00 40,055.17 397.55 40,452.72 136.49 40,589.21 1,936.88
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr.	26,803.57 640.00 11,700.00 80.00 31.60 620.00 40,055.17 397.55 40,452.72 136.49 40,589.21 1,936.88 42,526.09
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	26,803.57 640.00 11,700.00 180.00 80.00 31.60 620.00 40,055.17 397.55 40,452.72 136.49 40,589.21 1,936.88 42,526.09 2,358.38
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr.	26,803.57 640.00 11,700.00 80.00 31.60 620.00 40,055.17 397.55 40,452.72 136.49 40,589.21 1,936.88 42,526.09
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. a. Materials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete'= 2.396 Cum Rate as per item no. 5.31.1.1 SH. RCC Work (A) 2.396 ₹ 11,186.80 ₹ 15003 Bentonite Tonne 0.200 ₹ 3,200.00 ₹ Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	26,803.57 640.00 11,700.00 180.00 80.00 31.60 620.00 40,055.17 397.55 40,452.72 136.49 40,589.21 1,936.88 42,526.09 2,358.38
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. A. Materials: Mtr. A. Materials: Bulb -3.14/4x(0.50)²x9.125 = 1.792 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum Bulb -3.14/4x(0.875)²x0.375 = 0.451 Cum 2x 3.14/4x(0.875)²x0.375 = 0.451 Cum Cum 2.396 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 11,186.80 ₹ 1500.00 ₹ 11,186.80 ₹ 11,186.80 ₹ 11,186.80 ₹ 11,186.80 ₹ 12,180 ₹	26,803.57 640.00 11,700.00 180.00 80.00 40,055.17 397.55 40,452.72 136.49 40,589.21 1,936.88 42,526.09 2,358.38 44,884.47 180.81
Code Description Unit Quantity Rate Details of cost for 10 Mtr. Mtr. Mtr. AMaterials: Mtr. AMaterials: Stem -3.14/4x(0.50)²x9.125 = 1.792 Cum Stem -3.14/4x(0.25)²x0.125 = 0.153 Cum 2x 3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete' = 2.396 Cum 2x 3.14/4x(0.875)²x0.375 = 0.451 Cum Total concrete' = 2.396 Cum Tonne 0.200 ₹ 3,200.00 ₹ ₹ 11,186.80	26,803.57 640.00 11,700.00 180.00 80.00 31.60 620.00 40,055.17 397.55 40,452.72 136.49 40,589.21 1,936.88 42,526.09 2,358.38 44,884.47

	Rate per metre (Say)					₹	4,506.50
							.,
15.4	Boring with hydraulic piling rigs with power units, p	roviding	and insta	allin	g cast in s	itu s	ingle under
	reamed piles of specified diameter and length below						
	safe working load not less than specified, excluding						
	the cost of boring with bentonite solution and the						
	etc. all complete as per specification & the direction of	Enginee	<mark>er in-charge</mark>	e (L	<mark>ength of p</mark> i	ile fo	<mark>or payment</mark>
	shall be measured upto to the bottom of pile cap) :-						
	550 mm dia piles.					Г	
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Mtr.	Mtr.					
	a. Materials:						
	Stem -3.1428/4x(0.55) ² x9.04 = 2.148 Cum						
	Bulb -3.1428/4x(1.375) ² x0.14 = 0.208 Cum						
	$2x 3.1428/4x(0.9625)^2x0.41 = 0.597 \text{ Cum}$						
	Total concrete'= 2.953 Cum						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	2.953	₹	11,186.80	₹	33,034.62
15003	Bentonite	Tonne	0.300	₹	3,200.00	₹	960.00
	Hire and running charges of hydraulic piling rig with	_					
0108	power unit etc. including complete accessories and	Day	0.360	₹	32,500.00	₹	11,700.00
0100	shifting at site.	D ==	0.040	-	2.000.00	-	400.00
0109	Hire and running charges of light crane.	Day	0.060	₹	3,000.00	₹	180.00
0106	Hire and running charges of bentonite pump. b. Labours:	Day	0.020	₹	4,000.00	₹	80.00
0225	Work supervisor/ mistri	Day	0.08	₹	395.00	₹	31.60
0223	Beldar	Day	2.00	₹	310.00	₹	620.00
0203	TOTAL	Day	2.00	_	310.00	₹	46,606.22
	c. Sundries (wooden blocks, stripped off to obtain sound						40,000.22
	concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	407.15
	concrete etc.) & contingencies. (ex/ c A)					₹	47.012.27
	d Matar abarras . (av /a A)	a	1.00/				47,013.37
	d. Water charges : (ex/c A)	@	1.0%			₹	139.79 47,153.16
	a Add CST (multiplying factor)		0.1405			₹	1,983.65
	e. Add GST (multiplying factor)		0.1405			₹	49,136.81
	f. Add for contractor's profit and overheads	@	15%			₹	2,415.33
	1. Add for contractor's profit and overneads	w	13%			₹	51,552.14
	g. Add cess	@	1%			₹	185.18
	Total cost for 10 Mtr.	œ.	1 /0			₹	51,737.32
	Total cost for 1 Mtr.					₹	5,173.73
						₹	
	Rate per metre (Say)					Υ.	5,173.70
15.5	Extra over item No. 15.4 for boring, providing and	installir	ng cast-in-s	itu	additional	bulk	in under
10.0	reamed reinforced cement concrete piles, under specifie						
	Engineer in-charge (only the quantity of extra bulbs are						
15.5.1	300 mm dia piles.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 bulb.	Each					-
	a. Materials and T&P:						
	Bulb - 0.033 Cum						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	0.033	₹	11,186.80	₹	369.16
15003	Bentonite	Tonne	0.003	₹	3,200.00	₹	9.60
	Hire and running charges of hydraulic piling rig with						
0108	power unit etc. including complete accessories and	Day	0.020	₹	32,500.00	₹	650.00
	shifting at site.						
0109	Hire and running charges of light crane.	Day	0.010	₹	3,000.00	₹	30.00
0106	Hire and running charges of bentonite pump.	Day	0.010	₹	4,000.00	₹	40.00
0005	b. Labours:	D ==	0.000	-	205.00	_	7.00
0225	Work supervisor/ mistri	Day	0.020	₹	395.00	₹	7.90
0203	Beldar TOTAL	Day	1.000	₹	310.00	₹	310.00
	TOTAL		<u> </u>			₹	1,416.66

	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	31.43
						₹	1,448.09
	d. Water charges : (ex/c A)	@	1.0%			₹	10.79
	, , , , , , , , , , , , , , , , , , ,					₹	1,458.88
	e. Add GST (multiplying factor)		0.1405			₹	153.11
	, , ,					₹	1,611.99
	f. Add for contractor's profit and overheads	@	15%			₹	186.42
	•					₹	1,798.41
	g. Add cess	@	1%			₹	14.29
	Total cost for 1 bulb					₹	1,812.70
	Rate per each bulb (Say)					₹	1,812.70
15.5	Extra over item No. 15.4 for boring, providing and reamed reinforced cement concrete piles, under specifie						
	Engineer in-charge (only the quantity of extra bulbs are			эp	comounding c		an cotion of
15.5.2	400 mm dia piles.	to be pe	144)1				
Code	Description	Unit	Quantity	l	Rate	Π	Amount
Oodc	Details of cost for 1 bulb.	Each	Quartity		Rate		Amount
	a. Materials and T&P:	LUCII				l	
	Bulb - 0.063 Cum						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	0.063	₹	11,186.80	₹	704.77
15003	Bentonite	Tonne	0.006	₹	3,200.00	₹	19.20
0108	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and	Day	0.02	₹	32,500.00	₹	650.00
	shifting at site.						
0109	Hire and running charges of light crane.	Day	0.01	₹	3,000.00	₹	30.00
0106	Hire and running charges of bentonite pump.	Day	0.01	₹	4,000.00	₹	40.00
	b. Labours:						
	Work supervisor/ mistri	Day	0.02	₹	395.00	₹	7.90
0203	Beldar	Day	1.00	₹	310.00	₹	310.00
	TOTAL					₹	1,761.87
	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	31.71
						₹	1,793.58
	d. Water charges : (ex/c A)	@	1.0%			₹	10.89
						₹	1,804.47
	e. Add GST (multiplying factor)		0.1405			₹	154.51
						₹	1,958.98
	f. Add for contractor's profit and overheads	@	15%			₹	188.13
	•					₹	2,147.11
	g. Add cess	@	1%			₹	14.42
	Total cost for 1 bulb					₹	2,161.53
	Rate per each bulb (Say)					₹	2,161.50
	· //						•
15.5	Extra over item No. 15.4 for boring, providing and	installi	ng cast-in-s	itu	additional	bul	<mark>b in und</mark> er
	reamed reinforced cement concrete piles, under specifie						
	Engineer in-charge (only the quantity of extra bulbs are	to be pa	id):-	Ť.			
15.5.3	450 mm dia piles.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 bulb.	Each	-				
	a. Materials and T&P:						
	Bulb - 0.081 Cum						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	0.081	₹	11,186.80	₹	906.13
15003	Bentonite	Tonne	0.008	₹	3,200.00	₹	25.60
	Hire and running charges of hydraulic piling rig with						
0108	power unit etc. including complete accessories and	Day	0.02	₹	32,500.00	₹	650.00
	shifting at site.						
0109	Hire and running charges of light crane.	Day	0.01	₹	3,000.00	₹	30.00
0106	Hire and running charges of bentonite pump.	Day	0.01	₹	4,000.00	₹	40.00
	b. Labours:						
0225	Work supervisor/ mistri	Day	0.02	₹	395.00	₹	7.90

	-				30:10/		
0203	Beldar	Day	1.00	₹	310.00	₹	310.00
	TOTAL		<u> </u>			₹	1,969.63
	c. Sundries (wooden blocks, stripped off to obtain sound		0.004			_	0.1.0.1
	concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	31.91
	gerner ette ettely at eerstinigeriereer (exit e riy					₹	2,001.54
			1.00/				
	d. Water charges : (ex/c A)	@	1.0%			₹	10.95
						₹	2,012.49
	e. Add GST (multiplying factor)		0.1405			₹	155.44
						₹	2,167.93
	f. Add for contractor's profit and overheads	@	15%			₹	189.27
	·					₹	2,357.20
	g. Add cess	@	1%			₹	14.51
	Total cost for 1 bulb		. 70			₹	2,371.71
	Rate per each bulb (Say)					₹	2,371.70
	Rate per each builb (Say)					_	2,371.70
15.5	Extra over item No. 15.4 for boring, providing and	inctalli	og ogstin e	.:+	additional	bull	h in under
15.5							
	reamed reinforced cement concrete piles, under specifie			sp	ecification 8	tne	airection of
	Engineer in-charge (only the quantity of extra bulbs are	to be pa	ud):-				
15.5.4	500 mm dia piles.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 bulb.	Each					
	a. Materials and T&P:						
	Bulb - 0.100 Cum						
	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	0.100	₹	11,186.80	₹	1,118.68
15003	Bentonite	Tonne	0.010	₹	3,200.00	₹	30.40
	Hire and running charges of hydraulic piling rig with				·		
0108	power unit etc. including complete accessories and	Day	0.020	₹	32,500.00	₹	650.00
	shifting at site.						
0109	Hire and running charges of light crane.	Day	0.010	₹	3,000.00	₹	30.00
0106	Hire and running charges of bentonite pump.	Day	0.015	₹	4,000.00	₹	60.00
0100	b. Labours:	Day	0.013	È	4,000.00	_	00.00
0225	Work supervisor/ mistri	Day	0.02	₹	395.00	₹	7.90
0203	Beldar	Day	1.00	₹	310.00	₹	310.00
0203	TOTAL	Day	1.00	<u> </u>	310.00	₹	
						<	2,206.98
	c. Sundries (wooden blocks, stripped off to obtain sound	@	3.0%			₹	32.65
	concrete etc.) & contingencies: (ex/c A)						
						₹	2,239.63
	d. Water charges : (ex/c A)	@	1.0%			₹	11.21
	y , ,					₹	2,250.84
	e. Add GST (multiplying factor)		0.1405			₹	159.07
	c. ridd cor (martiprying factor)		0.1100			₹	2,409.91
	f Add for contractor's profit and averbands	@	1 = 0/			₹	193.68
	f. Add for contractor's profit and overheads	@	15%	-			
		_	40/	<u> </u>		₹	2,603.59
	g. Add cess	@	1%	<u> </u>		₹	14.85
	Total cost for 1 bulb		ļ			₹	2,618.44
	Rate per each bulb (Say)					₹	2,618.40
15.5	Extra over item No. 15.4 for boring, providing and	installi	ng cast-in-s	situ	additional	bull	b in under
	reamed reinforced cement concrete piles, under specifie						
	Engineer in-charge (only the quantity of extra bulbs are						
15.5.5	550 mm dia piles.	1.0					
Code	Description	Unit	Quantity		Rate	I	Amount
Code	Details of cost for 1 bulb.		Quaritity	\vdash	Nate		Amount
		Each	1				
	a. Materials and T&P:		 			 	
	Bulb - 0.102 Cum	0.111	0.100	_	11 10 (00	-	4 4 4 4 6 -
45055	Rate as per item no. 5.31.1.1 SH. RCC Work (A)	Cum	0.102	₹	11,186.80	₹	1,141.05
15003	Bentonite	Tonne	0.010	₹	3,200.00	₹	32.00
	Hire and running charges of hydraulic piling rig with						
0108	power unit etc. including complete accessories and	Day	0.02	₹	32,500.00	₹	650.00
	shifting at site.						
0109	Hire and running charges of light crane.	Day	0.01	₹	3,000.00	₹	30.00
0106	Hire and running charges of bentonite pump.	Day	0.02	₹	4,000.00	₹	80.00
0.00							00.00

	The Laborator		1	T			
0005	b. Labours:	-	0.00	~	005.00	-	7.00
0225	Work supervisor/ mistri	Day	0.02	₹	395.00	₹	7.90
0203	Beldar	Day	1.00	₹	310.00	₹	310.00
	TOTAL			-		₹	2,250.95
	c. Sundries (wooden blocks, stripped off to obtain sound	@	3.0%			₹	33.30
	concrete etc.) & contingencies: (ex/c A))	3.070			`	33.30
						₹	2,284.25
	d. Water charges : (ex/c A)	@	1.0%			₹	11.43
	l de la granda de					₹	2,295.68
	e. Add GST (multiplying factor)		0.1405			₹	162.23
	l					₹	2,457.91
	f. Add for contractor's profit and overheads	@	15%			₹	197.53
	Profit and eventions		1070			₹	2,655.44
	g. Add cess	@	1%			₹	15.14
	Total cost for 1 bulb		1 70			₹	2,670.58
	Rate per each bulb (Say)					₹	2,670.58
	Rate per each built (Say)					-	2,070.00
	pile cap in M25 cement concrete to carry safe work through preformed hole with M.S. black pipe of dia. 400 mix 1:2 (1 cement : 2 fine sand) under sufficient position centring, shuttering, driving and removing the steel of excluding the cost of steel reinforcement as per specific (Length of pile for payment shall be measured from to	mm for ive presection properties in the contraction of the contraction	grouting value of the sure to en ipe and line of the sure of the s	with sur ftin lire	n cement sa e complete g casing et ction of En	and (filling c. co ginee	grouting of g including emplete but er in-charge
	400 11 11						
15.6.1	400 mm dia piles.		Ι	T			
15.6.1 Code	Description	Unit	Quantity		Rate		Amount
	•	Unit Mtr.	Quantity		Rate		Amount
	Description		Quantity		Rate		Amount
	Description Details of cost for 20 Mtr. a. Materials and T& P:		Quantity		Rate		Amount
	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4 x (0.40) 2x 20 = 2.51 Cum	Mtr.		₹			
	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A)		2.510	₹	11,186.80	₹	28,078.87
	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A)	Mtr.	2.510 2.510	_	11,186.80 16,480.10	₹	28,078.87 41,365.05
	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A)	Mtr. Cum Cum	2.510	₹	11,186.80	₹	28,078.87
	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A)	Cum Cum Cum	2.510 2.510 -2.510	₹ ₹	11,186.80 16,480.10 10,758.10	₹ ₹	28,078.87 41,365.05 -27,002.83
Code	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2])	Cum Cum Cum Cum	2.510 2.510 -2.510 0.025	₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95	₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70
15001 15002	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile	Cum Cum Cum Cum Kg. Kg.	2.510 2.510 -2.510 0.025 80.00 35.00	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00	₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00
Code 15001	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer	Cum Cum Cum Cum Kg.	2.510 2.510 -2.510 0.025 80.00	₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00	₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00
15001 15002 0112	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories.	Cum Cum Cum Cum Kg. Kg.	2.510 2.510 -2.510 0.025 80.00 35.00 0.38	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00	₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00
15001 15002	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne	Cum Cum Cum Cum Kg. Kg.	2.510 2.510 -2.510 0.025 80.00 35.00	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00	₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00
15001 15002 0112 0107	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours:	Cum Cum Cum Kg. Kg. Day	2.510 2.510 -2.510 0.025 80.00 35.00 0.38	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00
15001 15002 0112 0107	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri	Cum Cum Cum Kg. Kg. Day Day	2.510 2.510 -2.510 -0.025 80.00 35.00 0.38 0.06	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00
15001 15002 0112 0107	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar	Cum Cum Cum Kg. Kg. Day	2.510 2.510 -2.510 0.025 80.00 35.00 0.38	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00
15001 15002 0112 0107	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40) ² x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri	Cum Cum Cum Kg. Kg. Day Day	2.510 2.510 -2.510 -0.025 80.00 35.00 0.38 0.06	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00
15001 15002 0112 0107	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound	Cum Cum Cum Kg. Kg. Day Day Day	2.510 2.510 -2.510 -2.510 0.025 80.00 35.00 0.38 0.06	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99
15001 15002 0112 0107	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	Cum Cum Cum Kg. Kg. Day Day Day Day @	2.510 2.510 -2.510 0.025 80.00 35.00 0.38 0.06 0.12 3.00	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18
15001 15002 0112 0107	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound	Cum Cum Cum Kg. Kg. Day Day Day	2.510 2.510 -2.510 -2.510 0.025 80.00 35.00 0.38 0.06	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18 211.49
15001 15002 0112 0107	Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges : (ex/c A)	Cum Cum Cum Kg. Kg. Day Day Day Day @	2.510 2.510 -2.510 0.025 80.00 35.00 0.38 0.06 0.12 3.00	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18 211.49 63,801.67
15001 15002 0112 0107	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	Cum Cum Cum Kg. Kg. Day Day Day Day @	2.510 2.510 -2.510 0.025 80.00 35.00 0.38 0.06 0.12 3.00	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18 211.49 63,801.67 3,001.16
15001 15002 0112 0107	Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor)	Cum Cum Cum Kg. Kg. Day Day Day @ @	2.510 2.510 -2.510 -2.510 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18 211.49 63,801.67 3,001.16 66,802.83
15001 15002 0112 0107	Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges : (ex/c A)	Cum Cum Cum Kg. Kg. Day Day Day Day @	2.510 2.510 -2.510 0.025 80.00 35.00 0.38 0.06 0.12 3.00	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18 211.49 63,801.67 3,001.16 66,802.83 3,654.26
15001 15002 0112 0107	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.14] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads	Cum Cum Cum Kg. Kg. Day Day Day @ @ @	2.510 2.510 -2.510 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18 211.49 63,801.67 3,001.16 66,802.83 3,654.26 70,457.09
15001 15002 0112 0107	Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads g. Add cess	Cum Cum Cum Kg. Kg. Day Day Day @ @	2.510 2.510 -2.510 -2.510 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18 211.49 63,801.67 3,001.16 66,802.83 3,654.26 70,457.09 280.16
15001 15002 0112 0107	Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads Total cost for 20 Mtr.	Cum Cum Cum Kg. Kg. Day Day Day @ @ @	2.510 2.510 -2.510 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18 211.49 63,801.67 3,001.16 66,802.83 3,654.26 70,457.09 280.16 70,737.25
15001 15002 0112 0107	Description Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads Total cost for 20 Mtr. Total cost for 1 Mtr.	Cum Cum Cum Kg. Kg. Day Day Day @ @ @	2.510 2.510 -2.510 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18 211.49 63,801.67 3,001.16 66,802.83 3,654.26 70,457.09 280.16 70,737.25 3,536.86
15001 15002 0112 0107	Details of cost for 20 Mtr. a. Materials and T& P: Concrete -3.14/4x(0.40)²x20 = 2.51 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads Total cost for 20 Mtr.	Cum Cum Cum Kg. Kg. Day Day Day @ @ @	2.510 2.510 -2.510 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹	11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	28,078.87 41,365.05 -27,002.83 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 62,974.19 615.99 63,590.18 211.49 63,801.67 3,001.16 66,802.83 3,654.26 70,457.09 280.16 70,737.25

pile cap in M25 cement concrete to carry safe working load not less than specified with a central through preformed hole with M.S. black pipe of dia. 40mm for grouting with cement sand grouting of mix 1:2 (1 cement : 2 fine sand) under sufficient positive pressure to ensure complete filling including centring, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement as per specification & the direction of Engineer in-charge (Length of pile for payment shall be measured from top of the shoe to the bottom of pile cap):- 15.6.2 450 mm dia piles. Code Description Unit Quantity Rate Amount Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.450)²x20 = 3.18 Cum SH. RCC Work (A) item no. [5.12.3] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) Cement mortar 1:2 item for grout item no. [3.1.2]) Cement mortar 1:2 item for grout item no. [3.1.2]) Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Day O.06 ₹ 9,150.00 ₹ 12,730.00 ### 44,400.00 Labours: Day O.12 ₹ 395.00 ₹ 44,400.00						/PILE WORK					
pile cap ¹ in M25 cement concrete to carry safe working load not less than specified with a central through preformed hole with M2. black pipe of dia. 4 homn for grouting with cement sand grouting of mix 1:2 (1 cement : 2 fine sand) under sufficient positive pressure to ensure complete filling including centring, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement as per specification. 8, the direction of Engineer in-charge (Length of pile for payment shall be measured from top of the shot to the bottom of pile cap): 15.6.2	15.6										
through preformed hole with M.S. black pipe of dia. 40mm for grouting with cement sand grouting of mix 1.2 (1 cement : 2 fine sand) under sufficient positive pressure to ensure complete filling including centring, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforcement as per specification. But did including the cost of steel reinforced cement concrete piles of specified diameter and length below the pile cap in M2s cement concrete cere and concrete et each scanding pile driving harmore complete with power units. & accessories) and installing driving Percent concrete cement concrete piles of		installing driven Pre-cast reinforced cement concrete piles of specified diameter and length below the									
mix 1;2 (1 cement : 2 fine sand) under sufficient positive pressure to ensure complete fulling including centring, shutering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement as per specification & the direction of Engineer incharge (Length of pile for payment shall be measured from top of the shoe to the bottom of pile cap): 15.6.2 450 mm dia piles. Section		pile cap in M25 cement concrete to carry safe working load not less than specified with a central									
Centring, Shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement as per specification. 8. the direction of Engine incharge (Length of pile for payment shall be measured from top of the shoe to the bottom of pile cap):- 15.6.2 450 mm dia piles.		through preformed hole with M.S. black pipe of dia. 40mm for grouting with cement sand grouting of									
Security Security		mix 1:2 (1 cement : 2 fine sand) under sufficient positive pressure to ensure complete filling including									
15.6.2 450 mm dia piles Description Unit Quantity Rate Amount		centring, shuttering, driving and removing the steel of	casing p	ipe and li	<mark>fting casing et</mark>	c. complete but					
15.6.2 350 mm dia piles Description Unit Quantity Rate Amount		excluding the cost of steel reinforcement as per spe	ecification	on & the d	lirection of En	gineer in-charge					
Debatis of cost for 20 MBr. Mir. Mir. A. Materials and T&P: Concrete -3.14/4x(0.450) ² x20 = 3.18 Cum SH. RCC Work item no. [5.31.1.1] (A) Cum 3.180 ₹ 11,186.80 ₹ 35,574.02 Add SH. RCC Work (A) Item no. [5.12.3] (A) Cum 3.180 ₹ 10,786.10 ₹ 22.406.72 Deduct SH. RCC Work (A) Item no. [5.14.] (M) Cum 3.180 ₹ 10,786.10 ₹ 3.2406.72 Deduct SH. RCC Work (A) Item no. [5.14.] (M) Cum 3.180 ₹ 10,786.10 ₹ 3.2406.72 T 2.06.72 T 2.07 T		(Length of pile for payment shall be measured from to	p of the	shoe to the	bottom of pile	cap):-					
Debatis of cost for 20 MBr. Mir. Mir. A. Materials and T&P: Concrete -3.14/4x(0.450) ² x20 = 3.18 Cum SH. RCC Work item no. [5.31.1.1] (A) Cum 3.180 ₹ 11,186.80 ₹ 35,574.02 Add SH. RCC Work (A) Item no. [5.12.3] (A) Cum 3.180 ₹ 10,786.10 ₹ 22.406.72 Deduct SH. RCC Work (A) Item no. [5.14.] (M) Cum 3.180 ₹ 10,786.10 ₹ 3.2406.72 Deduct SH. RCC Work (A) Item no. [5.14.] (M) Cum 3.180 ₹ 10,786.10 ₹ 3.2406.72 T 2.06.72 T 2.07 T											
Debatis of cost for 20 MBr. Mir. Mir. A. Materials and T&P: Concrete -3.14/4x(0.450) ² x20 = 3.18 Cum SH. RCC Work item no. [5.31.1.1] (A) Cum 3.180 ₹ 11,186.80 ₹ 35,574.02 Add SH. RCC Work (A) Item no. [5.12.3] (A) Cum 3.180 ₹ 10,786.10 ₹ 22.406.72 Deduct SH. RCC Work (A) Item no. [5.14.] (M) Cum 3.180 ₹ 10,786.10 ₹ 3.2406.72 Deduct SH. RCC Work (A) Item no. [5.14.] (M) Cum 3.180 ₹ 10,786.10 ₹ 3.2406.72 T 2.06.72 T 2.07 T	15.6.2	450 mm dia piles.									
Details of cost for 20 Mtr. Authoritism of Rep.			Unit	Quantity	Rate	Amount					
Concrete -3.14/4X(0.450)*X20 = 3.18 Cum											
SH. RCC Work (a) Item no. [5.11.1] (A)		a. Materials and T&P:									
SH. RCC Work (a) Item no. [5.11.1] (A)		Concrete $-3.14/4x(0.450)^2x20 = 3.18$ Cum									
Add SH. RCC Work (A) item no. [5.12.3] (A)			Cum	3.180	₹ 11.186.80	₹ 35.574.02					
Deduct SH. RCC Work (A) Hem no. (5.1.4) (A)											
Cement mortar 1.2 litem for grout item no. [3.1.2]) cum 0.025 ₹ 5,067.95 ₹ 1,460.00 15001 Cl. Shoes @ 80 kg per pile											
15001 C.I. Shoes @ 80 kg per pile Kg. 80.00 ₹ 55.00 ₹ 4.400.00 15002 M.S. Clamp @ 35 kg per pile Kg. 35.00 ₹ 50.00 ₹ 1.750.00 15002 M.S. Clamp @ 35 kg per pile Kg. 35.00 ₹ 50.00 ₹ 1.750.00 15002 M.S. Clamp @ 35 kg per pile Kg. 35.00 ₹ 50.00 ₹ 1.750.00 15002 M.S. Clamp @ 35 kg per pile Kg. 35.00 ₹ 33.500.00 ₹ 12,730.00 15002 M.S. Clamp @ 35 kg per pile Day 0.06 ₹ 9,150.00 ₹ 549.00 15003 D. Labours: Day 0.12 ₹ 395.00 ₹ 47.40 15004 Beldar Day 3.00 ₹ 310.00 ₹ 74.30 15004 C. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) Ø 1.0% ₹ 74.303.08 15005 C. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) Ø 1.0% ₹ 74.919.07 15006 d. Water charges: (ex/c A) Ø 1.0% ₹ 7.719.00 15007 E. Add GST (multiplying factor) O.1405 ₹ 78.131.12 15008 G. Add Cess F. Add Gest F. Add for contractor's profit and overheads Ø 15% ₹ 82.066.14 15018 Total cost for 20 Mtr. ₹ 81.785.99 15.6 Providing, driving (with vibrating pile driving hammer complete with power units & accessories) and installing driven Pre-cast reinforced cement concrete piles of specified diameter and length below the pile cap in M25 cement concrete to carry safe working load not less than specified with a central through preformed hole with MS. black pipe of dia. 40mm for grouting with cement sand grouting of mix 1:2 (1 cement : 2 fine sand) under sufficient positive pressure to ensure complete filling including centring, driving and removing the steel casing pipe and lifting cang etc. complete but excluding the cost of steel reinforcement as per specification & the direction of Engineer in-charge (Length of pile for payment shall be measured from top of the shoe to the bottom of pile cap): 15.6. Desaription Unit Quantity Rate Amount Output O											
15002 M.S. Clamp @ 35 kg per pile Kg. 35.00 ₹ 50.00 ₹ 1,750.00	15001										
Hire and running charges of vibrating pile driving hammer complete with power unit and accessories.											
Day Day											
Day Day	0112		Day	0.38	₹ 33,500.00	₹ 12,730.00					
Day 0.12 ₹ 395.00 ₹ 47.40	0407	·		0.01	x 045000	x 540.00					
Day 0.12 \$ 395.00 \$ 47.40	0107		⊔ay	0.06	₹ 9,150.00	₹ 549.00					
Day 3.00 \$\frac{2}{310.00} \$\frac{2}{74,303.08} \$\frac{2}{74,303.08} \$\frac{2}{74,303.08} \$\frac{2}{74,303.08} \$\frac{2}{74,303.08} \$\frac{2}{74,303.08} \$\frac{2}{74,303.08} \$\frac{2}{74,919.07} \$\frac{2}{74,919.07} \$\frac{2}{74,919.07} \$\frac{2}{74,919.07} \$\frac{2}{74,919.07} \$\frac{2}{74,919.07} \$\frac{2}{75,130.56} \$\frac{2}{		b. Labours:	<u></u>			<u> </u>					
C. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	0225	Work supervisor/ mistri	Day	0.12	₹ 395.00	₹ 47.40					
c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	0203	Beldar	Day	3.00	₹ 310.00	₹ 930.00					
c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)		TOTAL				₹ 74,303.08					
Concrete etc.) & contingencies: (ex/c A)		c. Sundries (wooden blocks, stripped off to obtain sound									
1.0% \$ 74,919.07			@	3.0%		₹ 615.99					
d. Water charges : (ex/c A)						₹ 74 919 07					
e. Add GST (multiplying factor) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads g. Add cesu g. Add cess g. Add cess g. Add cess g. Add cess g. Add ces		d Water charges : (ev/c A)	@	1 0%							
e. Add GST (multiplying factor) f. Add for contractor's profit and overheads f. Add for contractor's profit and		d. Water Charges : (ex/C A)	Œ,	1.0%							
f. Add for contractor's profit and overheads @ 15%		Add GST (multiplying factor)		0.1405							
f. Add for contractor's profit and overheads @ 15%		e. Add 651 (marriprying factor)		0.1403							
g. Add cess g. Add cess g. Add cess g. Add cess g. Add cess g. Add cess Total cost for 20 Mtr. Total cost for 20 Mtr. Total cost for 1 Mtr. Rate per metre (Say) 7. Applied a providing, driving (with vibrating pile driving hammer complete with power units & accessories) and installing driven Pre-cast reinforced cement concrete piles of specified diameter and length below the pile cap in M25 cement concrete to carry safe working load not less than specified with a central through preformed hole with M.S. black pipe of dia. 40mm for grouting with cement sand grouting of mix 1:2 (1 cement : 2 fine sand) under sufficient positive pressure to ensure complete filling including centring, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement as per specification & the direction of Engineer in-charge (Length of pile for payment shall be measured from top of the shoe to the bottom of pile cap):- 15.6.3 500 mm dia piles. Code Description Unit Quantity Rate Amount Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0,50)²x20 = 3.925 Cum SH. RCC Work item no. [5.31.1.1] (A) Cum 3.925 ₹ 11,186.80 ₹ 43,908.19 Add SH. RCC Work (A) item no. [5.12.3] (A) Cum 3.925 ₹ 16,480.10 ₹ 64,684.39 Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cum -3.925 ₹ 10,758.10 ₹ 42,225.54 Cement mortar 1:2 item for grout item no. [3.1.2]) Cum 0.025 ₹ 5,067.95 ₹ 126.70 Cement mortar 1:2 item for grout item no. [3.1.2]) Cum 0.025 ₹ 5,067.95 ₹ 126.70 T5001 C.I. Shoes @ 80 kg per pile		f Add for contractor's profit and averboads	@	15%							
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15001 C.I. Shoes @ 80 kg per pile Kg. 80.00 ₹ 55.00 ₹ 4,400.00											
	15001	<u> </u>									
15002 w.5. Clamp @ 35 kg per pile Kg. 35.00 ₹ 50.00 ₹ 1,750.00				+							
	15002	IIVI.S. Clamp @ 35 kg per pile	Kg.	35.00	< 50.00	₹ 1,/50.00					

					SH:15/		
0112	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories.	Day	0.38	₹	33,500.00	₹	12,730.00
0107	Hire and running charges of crane 20 tonne	Day	0.06	₹	9,150.00	₹	549.00
	b. Labours:						
0225	Work supervisor/ mistri	Day	0.12	₹	395.00	₹	47.40
0203	Beldar	Day	3.00	₹	310.00	₹	930.00
	TOTAL					₹	86,900.14
	c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	615.99
						₹	87,516.13
	d. Water charges : (ex/c A)	@	1.0%			₹	211.49
						₹	87,727.62
	e. Add GST (multiplying factor)		0.1405			₹	3,001.16
						₹	90,728.78
	f. Add for contractor's profit and overheads	@	15%			₹	3,654.26
						₹	94,383.04
	g. Add cess	@	1%			₹	280.16
	Total cost for 20 Mtr.					₹	94,663.20
	Total cost for 1 Mtr.					₹	4,733.16
	Rate per metre (Say)			t		₹	4,733.20
	nate per mene (eag)			t		T`	1,700.20
	mix 1:2 (1 cement : 2 fine sand) under sufficient positions centring, shuttering, driving and removing the steel of	casing p	ipe and li	ftin	g casing et	c. co	omplete but
	excluding the cost of steel reinforcement as per specific (Length of pile for payment shall be measured from to						
	(Length of pile for payment shall be measured from to						
15.6.4	(Length of pile for payment shall be measured from to 550 mm dia piles.	p of the	shoe to the		ttom of pile		:-
15.6.4 Code	(Length of pile for payment shall be measured from to 550 mm dia piles. Description	op of the Unit					
	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr.	p of the	shoe to the		ttom of pile		:-
	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P:	op of the Unit	shoe to the		ttom of pile		:-
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	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55) ² x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A)	Unit Mtr. Cum Cum Cum	Quantity 4.750 4.750 -4.750	e bo	Rate 11,186.80 16,480.10 10,758.10	₹ ₹	53,137.30 78,280.48 -51,100.98
Code	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55) ² x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2])	Unit Mtr. Cum Cum Cum Cum	4.750 4.750 -4.750 0.025	₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95	₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70
Code 15001	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55) ² x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.14] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile	Unit Mtr. Cum Cum Cum Cum Cum Kg.	4.750 4.750 -4.750 0.025 80.00	₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00	₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00
Code	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55) ² x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile	Unit Mtr. Cum Cum Cum Cum	4.750 4.750 -4.750 0.025	₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95	₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00
15001 15002 0112	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55) ² x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories.	Unit Mtr. Cum Cum Cum Cum Cum Kg. Kg. Day	4.750 4.750 -4.750 0.025 80.00 35.00 0.38	₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00	₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00
15001 15002	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55) ² x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne	Unit Mtr. Cum Cum Cum Cum Cum Kg. Kg.	4.750 4.750 4.750 -4.750 0.025 80.00 35.00	₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00	₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55) ² x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours:	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38	₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55) ² x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38	₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55) ² x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 1,00,849.90 615.99
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	Unit Mtr. Cum Cum Cum Cum Kg. Kg. Day Day Day Day	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06 0.12 3.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 47.40 930.00 1,00,849.90 615.99
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55) ² x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 1,00,849.90 615.99 1,01,465.89 211.49
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	Unit Mtr. Cum Cum Cum Cum Kg. Kg. Day Day Day Day	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06 0.12 3.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 1,00,849.90 615.99 1,01,465.89 211.49
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A)	Unit Mtr. Cum Cum Cum Cum Kg. Kg. Day Day Day Day	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06 0.12 3.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 1,00,849.90 615.99 1,01,465.89 211.49 1,01,677.38 3,001.16
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges : (ex/c A)	Unit Mtr. Cum Cum Cum Cum Kg. Kg. Day Day Day Day	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06 0.12 3.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 1,00,849.90 615.99 1,01,465.89 211.49 1,01,677.38 3,001.16
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges : (ex/c A)	Unit Mtr. Cum Cum Cum Cum Kg. Kg. Day Day Day Day	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06 0.12 3.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 1,00,849.90 615.99 1,01,465.89 211.49 1,01,677.38 3,001.16 1,04,678.54
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A)	Cum Cum Cum Cum Cum Cum Cum Cum Ag. Kg. Day Day Day @ @ @	4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 1,00,849.90 615.99 1,01,465.89 211.49 1,01,677.38 3,001.16 1,04,678.54 3,654.26
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A)	Cum Cum Cum Cum Cum Cum Cum Cum Ag. Kg. Day Day Day @ @ @	4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	:-
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges : (ex/c A) e. Add GST (multiplying factor)	Unit Mtr. Cum Cum Cum Cum Kg. Kg. Day Day Day @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 1,00,849.90 615.99 1,01,465.89 211.49 1,01,677.38 3,001.16 1,04,678.54 3,654.26 1,08,332.80
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories . Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges : (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads g. Add cess	Unit Mtr. Cum Cum Cum Cum Kg. Kg. Day Day Day @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 1,00,849.90 615.99 1,01,465.89 211.49 1,01,677.38 3,001.16 1,04,678.54 3,654.26 1,08,332.80 280.16
15001 15002 0112 0107	(Length of pile for payment shall be measured from to 550 mm dia piles. Description Details of cost for 20 Mtr. a. Materials and T&P: Concrete -3.14/4x(0.55)²x20 = 4.75 Cum SH. RCC Work item no. [5.31.1.1] (A) Add SH. RCC Work (A) item no. [5.12.3] (A) Deduct SH. RCC Work (A) item no. [5.1.4] (A) Cement mortar 1:2 item for grout item no. [3.1.2]) C.I. Shoes @ 80 kg per pile M.S. Clamp @ 35 kg per pile Hire and running charges of vibrating pile driving hammer complete with power unit and accessories. Hire and running charges of crane 20 tonne b. Labours: Work supervisor/ mistri Beldar TOTAL c. Sundries (wooden blocks, stripped off to obtain sound concrete etc.) & contingencies: (ex/c A) d. Water charges: (ex/c A) e. Add GST (multiplying factor) f. Add for contractor's profit and overheads g. Add cess Total cost for 20 Mtr.	Unit Mtr. Cum Cum Cum Cum Kg. Kg. Day Day Day @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	4.750 4.750 4.750 -4.750 0.025 80.00 35.00 0.38 0.06 0.12 3.00 3.0%	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 11,186.80 16,480.10 10,758.10 5,067.95 55.00 50.00 33,500.00 9,150.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	53,137.30 78,280.48 -51,100.98 126.70 4,400.00 1,750.00 12,730.00 549.00 47.40 930.00 1,00,849.90 615.99 1,01,465.89 211.49 1,01,677.38 3,001.16 1,04,678.54 3,654.26 1,08,332.80 280.16 1,08,612.96

	T		1	1	311.107		T T T
45.4	Describing a delicity of all the effective of the delicity of the second					<u> </u>	
15.6	Providing, driving (with vibrating pile driving hammer complete with power units & accessories) an installing driven Pre-cast reinforced cement concrete piles of specified diameter and length below the						
	pile cap in M25 cement concrete to carry safe wor						
	through preformed hole with M.S. black pipe of dia. 40						
	mix 1:2 (1 cement : 2 fine sand) under sufficient posit						
	centring, shuttering, driving and removing the steel of	casing p	<mark>ipe and li</mark>	ftin	<mark>ig casing et</mark>	c. c	<mark>omplete but</mark>
	excluding the cost of steel reinforcement as per spe	ecificatio	n & the d	lire	<mark>ction of En</mark>	gine	er in-charge
	(Length of pile for payment shall be measured from to	p of the	shoe to the	e bo	ottom of pile	cap):-
15.6.5	600 mm dia piles.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 20 Mtr.	Mtr.	Laaning				7
	a. Materials and T&P:	IVICI .					
	Concrete $3.1428 / 4x0.60^2 x20 = 5.652 \text{ Cum}$						
		C	F (F2	x	11 10/ 00		(2.227.70
	SH. RCC Work item no. [5.31.1.1] (A)	Cum	5.652	₹	11,186.80	₹	63,227.79
	Add SH. RCC Work (A) item no. [5.12.3] (A)	Cum	5.652	₹	16,480.10	₹	93,145.53
	Deduct SH. RCC Work (A) item no. [5.1.4] (A)	Cum	-5.652	₹	10,758.10	₹	-60,804.78
4	Cement mortar 1:2 item for grout item no. [3.1.2])	Cum	0.025	₹	5,067.95	₹	126.70
15001	C.I. Shoes @ 80 kg per pile	Kg.	80.00	₹	55.00	₹	4,400.00
15002	M.S. Clamp @ 35 kg per pile	Kg.	35.00	₹	50.00	₹	1,750.00
0110	Hire and running charges of vibrating pile driving hammer	D :	0.00	_	22 500 00	_	10 700 00
0112	complete with power unit and accessories .	Day	0.38	₹	33,500.00	₹	12,730.00
0107	Hire and running charges of crane 20 tonne	Day	0.06	₹	9,150.00	₹	549.00
0107	b. Labours:	Day	0.00	`	9,130.00	`	549.00
0225	Work supervisor/ mistri	Day	0.12	₹	395.00	7	47.40
		Day		_		₹	47.40
0203	Beldar	Day	3.00	₹	310.00	₹	930.00
	TOTAL					₹	1,16,101.64
	c. Sundries (wooden blocks, stripped off to obtain sound	@	3.0%			₹	615.99
	concrete etc.) & contingencies: (ex/c A)	G	3.0%			`	013.77
						₹	1,16,717.63
	d. Water charges : (ex/c A)	@	1.0%			₹	211.49
	an trater enarges (en ery		11070			₹	1,16,929.12
	e. Add GST (multiplying factor)		0.1405			₹	3,001.16
	C. Add 031 (Martiplying factor)		0.1403			₹	1,19,930.28
	f Add for contractor's profit and averboads	@	15%			₹	
	f. Add for contractor's profit and overheads	@	15%				3,654.26
			10/			₹	1,23,584.54
	g. Add cess	@	1%			₹	280.16
	Total cost for 20 Mtr.					₹	1,23,864.70
	Total cost for 1 Mtr.					₹	6,193.24
	Rate per metre (Say)					₹	6,193.20
	<u> </u>						·
15.6	Providing, driving (with vibrating pile driving hamme	er comp	lete with p	ow	er units &	acce	ssories) and
	installing driven Pre-cast reinforced cement concrete						
	pile cap in M25 cement concrete to carry safe wor						
	through preformed hole with M.S. black pipe of dia. 40						
	mix 1:2 (1 cement : 2 fine sand) under sufficient positi						
	centring, shuttering, driving and removing the steel of				•		0
	excluding the cost of steel reinforcement as per spe						
	(Length of pile for payment shall be measured from to	ib or the	snoe to the	טט =	rtom or pile	cap). -
15.6.6	750 mm dia piles.		T -				
Code	Description	Unit	Quantity		Rate	 	Amount
	Details of cost for =20 Mtr.	Mtr.	ļ			 	
	a. Materials and T&P:		<u> </u>				
	Concrete 3.14 /4x0.75x20 = 8.83 Cum						
	SH. RCC Work item no. [5.31.1.1] (A)	Cum	8.830	₹	11,186.80	₹	98,779.44
	Add SH. RCC Work (A) item no. [5.12.3] (A)	Cum	8.830	₹	16,480.10	₹	1,45,519.28
	Deduct SH. RCC Work (A) item no. [5.1.4] (A)	Cum	-8.830	₹	10,758.10	₹	-94,994.02
	Cement mortar 1:2 item for grout item no. [3.1.2])	Cum	0.025	₹	5,067.95	₹	126.70
15001	C.I. Shoes @ 80 kg per pile	Kg.	80.00	₹	55.00	₹	4,400.00
15002	M.S. Clamp @ 35 kg per pile	Kg.	35.00	₹	50.00	₹	1,750.00
				_		_	

0112 0107 0225 0203	I line and a marine absence of allocation allocations become						
0225	Hire and running charges of vibrating pile driving hammer	Day	0.38	₹	33,500.00	₹	12,730.00
0225	complete with power unit and accessories .	D	0.07	-	0.150.00	-	F 40.00
	Hire and running charges of crane 20 tonne	Day	0.06	₹	9,150.00	₹	549.00
	b. Labours: Work supervisor/ mistri	Day	0.12	₹	395.00	₹	47.40
0203	Beldar	Day Day	3.00	₹	310.00	₹	930.00
	TOTAL	Day	3.00	<u> </u>	310.00	₹	1,69,837.80
	c. Sundries (wooden blocks, stripped off to obtain sound					`	1,07,037.00
	concrete etc.) & contingencies: (ex/c A)	@	3.0%			₹	615.99
						₹	1,70,453.79
	d. Water charges : (ex/c A)	@	1.0%			₹	211.49
						₹	1,70,665.28
	e. Add GST (multiplying factor)		0.1405			₹	3,001.16
			450/			₹	1,73,666.44
	f. Add for contractor's profit and overheads	@	15%			₹	3,654.26
	a Address		10/			₹	1,77,320.70
	g. Add cess	@	1%			₹	280.16
	Total cost for 20 Mtr.					₹	1,77,600.86
	Total cost for 1 Mtr.					₹	8,880.04
	Rate per metre (Say)					₹	8,880.00
	platform by Kentledge and preparation of pile head or cafter test etc. complete as per specification & the direction. Note: 1. Initial and Routine Load Test shall be carried out.	n of Engi	neer in-cha	arge	2:-		g or test cup
		-					
	Note: 2. Testing agency shall submit the design of loading	g platfori	m for the a	ppr	oval of Engi	neer	-in-Charge.
15.7.1	Single pile upto 50 tonne safe capacity						
15.7.1.1	Initial test (Test Load 2.5 times the safe Capacity).						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 test	Each					
		Lacii					
	a. Materials/ Test:						
15004	Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and up to 50 tonne capacity pile		1.00	₹	40,000.00	₹	40,000.00
	b. Carriage:						
	c. Labours:						
	TOTAL					₹	40,000.00
		@	1 00/			₹	400.00
	e. Water charges:	w	1.0%				
	f Add CCT (multiplying factor)		0.1405			₹	40,400.00 5,676.20
	f. Add GST (multiplying factor)		0.1405			₹	46,076.20
	g. Add for contractor's profit and overheads	@	15%			₹	6,911.43
	g. Add for contractor's profit and overficads		1370			₹	52,987.63
	h. Add cess	@	1%			₹	529.88
	Total cost for 1 No. Test	-				₹	53,517.51
						-	
	Rate per each Test (Say)				Say,	₹	53,517.50

15.7.1	Single pile upto 50 tonne safe capacity					
15.7.1.2	Routine test (Test Load 1.5 times the safe Capacity).					
Code	Description	Unit	Quantity	Rate	-	Amount
	Details of cost for 1 test	Each				
	a. Materials/ Test:					
	Cyclic vertical load testing of piles in accordance with IS:					
15007	2911 (Part-IV) including preparation of pile head etc. for	Per test	1.00	₹ 15,000.00	₹	15,000.00
	Single pile up to 50 tonne capacity					
	b. Carriage:					
	c. Labours:					
	TOTAL				₹	15,000.00
	e. Water charges:	@	1.0%		₹	150.00
					₹	15,150.00
	f. Add GST (multiplying factor)		0.1405		₹	2,128.58
	Add Consequence (Standard Consequence)		4 = 0/		₹	17,278.58
	g. Add for contractor's profit and overheads	@	15%		₹	2,591.79 19,870.37
	h. Add cess	@	1%		₹	19,670.37
	Total cost for 1 No. Test		170		₹	20,069.07
	Rate per each Test (Say)				₹	20,069.10
						·
15.7	Vertical load testing of piles in accordance with I					
	platform by Kentledge and preparation of pile head or c				itiing	or test cap
	after test etc. complete as per specification & the direction	n of Engi	neer in-cha	arge:-		
	Note: 1. Initial and Routine Load Test shall be carried out	hy Dyna	mic Metho	d of Testing		
	Note: 2. Testing agency shall submit the design of loading				noor i	n Chargo
	Note. 2. Testing agency shall submit the design of loading	y piatrori	ii ioi tile a	pprovar or Engi	neer-i	n-Charge.
15.7.2	Single pile above 50 tonne and upto 100 tonne capacity p	nile:-				
15.7.2.1	Initial test (Test Load 2.5 times the safe Capacity).					
15.7.2.1 Code		Unit	Quantity	Rate	A	Amount
	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test	1	Quantity	Rate	, A	Amount
	Initial test (Test Load 2.5 times the safe Capacity). Description	Unit	Quantity	Rate	,	Amount
	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test:	Unit Each	Quantity	Rate	,	Amount
	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS:	Unit Each	Quantity	Rate	, A	Amount
	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test:	Unit Each	Quantity 1.00	Rate ₹ 45,000.00	. ₹	
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per	Unit Each Per test				
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap	Unit Each Per test				
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne	Unit Each Per test				
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage:	Unit Each Per test				
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours:	Unit Each Per test			₹	45,000.00
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL	Unit Each Per test	1.00		₹	45,000.00 45,000.00
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours:	Unit Each Per test			₹₹	45,000.00 45,000.00 450.00
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges:	Unit Each Per test	1.00		₹₹₹	45,000.00 45,000.00 450.00 45,450.00
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL	Unit Each Per test	1.00		₹₹	45,000.00 45,000.00 450.00 6,385.73
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges:	Unit Each Per test	1.00		₹₹₹₹	45,000.00 45,000.00 450.00 45,450.00 6,385.73 51,835.73
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads	Unit Each Per test	1.00 1.0% 0.1405 15%		₹ ₹ ₹ ₹ ₹ ₹	45,000.00 45,000.00 450.00 45,450.00 6,385.73 7,775.36 59,611.09
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess	Unit Each Per test	1.00 1.0% 0.1405		₹ ₹ ₹ ₹ ₹ ₹ ₹	45,000.00 45,000.00 450.00 45,450.00 6,385.73 7,775.36 59,611.09 596.11
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test	Unit Each Per test @ @ @	1.00 1.0% 0.1405 15%		₹ ₹ ₹ ₹ ₹ ₹	45,000.00 45,000.00 450.00 45,450.00 6,385.73 7,775.36 59,611.09 596.11 60,207.20
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess	Unit Each Per test @ @ @	1.00 1.0% 0.1405 15%		₹ ₹ ₹ ₹ ₹ ₹ ₹	45,000.00 45,000.00 450.00 45,450.00 6,385.73 7,775.36 59,611.09 596.11 60,207.20
15005	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say)	Unit Each Per test @ @ @ @ @	1.00 1.0% 0.1405 15%	₹ 45,000.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	45,000.00 45,000.00 450.00 45,450.00 6,385.73 7,775.36 59,611.09 596.11 60,207.20 60,207.20
Code	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Vertical load testing of piles in accordance with III	Unit Each Per test @ @ @ @ @ S 2911	1.00 1.0% 0.1405 15% 1%	₹ 45,000.00	₹ ₹ ₹ ₹ ₹ ₹	45,000.00 45,000.00 450.00 45,450.00 6,385.73 7,775.36 59,611.09 596.11 60,207.20 of loading
15005	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Vertical load testing of piles in accordance with liplatform by Kentledge and preparation of pile head or contractor is pile head or contractor is pile head or contractor is pile head or contractor is pile head or contractor by Kentledge and preparation of pile head or contractor is pile head or contractor by Kentledge and preparation of pile head or contractor is pile head or contractor by Kentledge and preparation of pile head or contractor is pile head or contractor by Kentledge and preparation of pile head or contractor is pile head or contra	Per test @ @ @ @ S 2911 onstructi	1.00 1.0% 0.1405 15% 1% (Part IV) integration of test	₹ 45,000.00	₹ ₹ ₹ ₹ ₹ ₹	45,000.00 45,000.00 450.00 45,450.00 6,385.73 7,775.36 59,611.09 596.11 60,207.20 of loading
15005	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Vertical load testing of piles in accordance with III	Per test @ @ @ @ S 2911 onstructi	1.00 1.0% 0.1405 15% 1% (Part IV) integration of test	₹ 45,000.00	₹ ₹ ₹ ₹ ₹ ₹	45,000.00 45,000.00 450.00 45,450.00 6,385.73 7,775.36 59,611.09 596.11 60,207.20 60,207.20 of loading
15005	Initial test (Test Load 2.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Vertical load testing of piles in accordance with liplatform by Kentledge and preparation of pile head or contractor is pile head or contractor is pile head or contractor is pile head or contractor is pile head or contractor by Kentledge and preparation of pile head or contractor is pile head or contractor by Kentledge and preparation of pile head or contractor is pile head or contractor by Kentledge and preparation of pile head or contractor is pile head or contractor by Kentledge and preparation of pile head or contractor is pile head or contra	Per test @ @ @ S 2911 onstruction of English	1.00 1.00 1.00 1.00 0.1405 15% 1% (Part IV) in the control of test the control	₹ 45,000.00 ncluding install cap and dismararge:-	₹ ₹ ₹ ₹ ₹ ₹	45,000.00 45,000.00 450.00 45,450.00 6,385.73 7,775.36 59,611.09 596.11 60,207.20 60,207.20 of loading

	Note: 2. Testing agency shall submit the design of loading	g platfori	m for the a	pproval of Engi	neer-in-Charge.
15.7.2	Single pile above 50 tonne and upto 100 tonne capacity p	oile:-			
	Routine test (Test Load 1.5 times the safe Capacity).				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 test	Each			
	a. Materials/ Test:				
15008	Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile above 50 tonne capacity pile and up to 100 tonne capacity pile	Per test	1.00	₹ 23,000.00	₹ 23,000.00
	b. Carriage:				
	c. Labours:				
	TOTAL				₹ 23,000.00
	e. Water charges:	@	1.0%		₹ 230.00
					₹ 23,230.00
	f. Add GST (multiplying factor)		0.1405		₹ 3,263.82
			4.50/		₹ 26,493.82
	g. Add for contractor's profit and overheads	@	15%		₹ 3,974.07 ₹ 30,467.89
	h. Add cess	@	1%		₹ 30,467.89
	Total cost for 1 No. Test	e	1 70		₹ 30,772.57
	Rate per each Test (Say)				₹ 30,772.60
	reate per such rest (suy)				00/172.00
15.7.3	Note: 1. Initial and Routine Load Test shall be carried out Note: 2. Testing agency shall submit the design of loading Group of two or more piles upto 50 tonne safe capacity				neer-in-Charge.
15.7.3.1	Initial test (Test Load 2.5 times the safe Capacity).				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 test	Each			
	a. Materials/ Test:				
15006	Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & group of two or more up to 50 tonne	Per test	1.00	₹ 50,000.00	₹ 50,000.00
	b. Carriage:				
	c. Labours:				
	TOTAL				₹ 50,000.00
	e. Water charges:	@	1.0%		₹ 500.00
					₹ 50,500.00
	f. Add GST (multiplying factor)		0.1405		₹ 7,095.25
	a Add for contractor's profit and averbands	<i>a</i>	1 = 0/		₹ 57,595.25
	g. Add for contractor's profit and overheads	@	15%		₹ 8,639.29 ₹ 66,234.54
	h. Add cess	@	1%		₹ 662.35
	Total cost for 1 No. Test		- 70		₹ 66,896.89
	Rate per each Test (Say)				₹ 66,896.90
15.7	Vertical load testing of piles in accordance with Isplatform by Kentledge and preparation of pile head or cafter test etc. complete as per specification & the direction	onstruct	ion of test	cap and dismar	

Note: 1. Initial and Routine Load Test shall be carried out by Dynamic Method of Testing							
Note: 2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-Charge.							
Group of two or more piles upto 50 tonne safe capacity							
	Unit	Quantity	Data	Amount			
-		Quantity	Rate	Amount			
	Each						
	Per test	1.00	₹ 29,500.00	₹ 29,500.00			
b. Carriage:							
c. Labours:							
TOTAL				₹ 29,500.00			
e. Water charges:	@	1.0%		₹ 295.00			
0				₹ 29,795.00			
f. Add GST (multiplying factor)		0.1405		₹ 4,186.20			
		. = 0.		₹ 33,981.20			
g. Add for contractor's profit and overheads	@	15%		₹ 5,097.18 ₹ 39.078.38			
h Add cass	@	1%		₹ 39,078.38 ₹ 390.78			
	<u> </u>	1 70		₹ 39,469.16			
				₹ 39,469.20			
Nate per each rest (say)				07,107.20			
Kentledge method including preparation of pile head etc.		Code of	practice IS: 29	911 (part IV) by			
Upto 50 tonne Safe capacity pile.							
Description	Unit	Quantity	Rate	Amount			
Details of cost for 1 test	Each						
a. Materials/ Test:							
	Per test	1.00	₹ 15,000.00	₹ 15,000.00			
b. Carriage:							
c. Labours:							
TOTAL				₹ 15,000.00			
e. Water charges:	@	1.0%		₹ 150.00			
				₹ 15,150.00			
f. Add GST (multiplying factor)		0.1405		₹ 2,128.58 ₹ 17,278.58			
g. Add for contractor's profit and overheads	@	15%		₹ 2,591.79			
g. Add for contractor 5 profit and overheads	C	1070		₹ 19,870.37			
h. Add cess	@	1%		₹ 198.70			
Total cost for 1 No. Test				₹ 20,069.07			
Rate per each Test (Say)				₹ 20,069.10			
	<u> </u>						
Kentledge method including preparation of pile head etc.		Code of	practice IS: 29	911 (part IV) by			
	llm:+	Ougatit	Doto	A may ret			
· · · · · · · · · · · · · · · · · · ·		Quantity	кате	Amount			
	Each						
Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile above 50 tonne capacity pile and up to 100	Per test	1.00	₹ 23,000.00	₹ 23,000.00			
	Note: 2. Testing agency shall submit the design of loading Group of two or more piles upto 50 tonne safe capacity Routine test (Test Load 1.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Cyclic vertical load testing of pile in accordance Kentledge method including preparation of pile head etc. Single Pile: Upto 50 tonne Safe capacity pile. Description Details of cost for 1 test a. Materials/ Test: Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Cyclic vertical load testing of pile in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Cyclic vertical load testing of pile in accordance Kentledge method including preparation of pile head etc. Single Pile: Above 50 tonne and upto 100 tonne Safe capacity pile. Description Details of cost for 1 test a. Malterials/ Test iconduction of pile head etc. for 1 test a. Water and upto 100 tonne Safe capacity pile. Description	Note: 2. Testing agency shall submit the design of loading platform Group of two or more piles upto 50 tonne safe capacity Routine test (Test Load 1.5 times the safe Capacity). Description Details of cost for 1 test a. Materials/ Test: Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess h. Add cess Cyclic vertical load testing of pile in accordance with IS (sentiedge method including preparation of pile head etc. for. Single Pile: Upto 50 tonne Safe capacity pile. Description Details of cost for 1 test a. Materials/ Test: Cyclic vertical load testing of piles in accordance with IS (sentiedge method including preparation of pile head etc. for Single pile up to 50 tonne capacity b. Carriage: c. Labours: Cyclic vertical load testing of piles in accordance with IS (sentiedge method including preparation of pile head etc. for Single pile up to 50 tonne capacity b. Carriage: c. Labours: Cyclic vertical load testing of piles in accordance with IS (sentiedge) c. Labours: Cyclic vertical load testing of piles in accordance with IS (sentiedge) c. Labours: Cyclic vertical load testing of pile in accordance with IS (sentiedge) c. Labours: Dotals of cost for 1 No. Test Rate per each Test (Say) Cyclic vertical load testing of pile in accordance with IS (sentiedge method including preparation of pile head etc. for. Single Pile: Description Description Details of cost for 1 test a. Materials/ Test: Cyclic vertical load testing of pile in accordance with IS (sentiedge method including preparation of pile head etc. for. Single Pile: Description Details of cost for 1 test a. Materials/ Test: Cyclic vertical load testing of piles in accordance with IS (sentiedge) Description Details of cost for 1 test a. Materials/ Test: Cyclic vertical load testing of piles in acc	Note: 2. Testing agency shall submit the design of loading platform for the a Group of two or more piles upto 50 tonne safe capacity. Description Description Description Details of cost for 1 test a. Materials/ Test: Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess for 1 No. Test Rate per each Test (Say) Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single Piles: Description Details of cost for 1 test a. Materials/ Test: Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity b. Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads with IS Code of Single Piles accordance with IS: 2912 (vertical load testing of piles in accordance with IS: 2913 (vertical load testing of piles in accordance with IS: 2914 (vertical load testing of piles in accordance with IS: 2915 (vertical load testing of piles in accordance with IS: 2916 (vertical load testing of piles in accordance with IS: 2917 (vertical load testing of piles in accordance with IS: 2918 (vertical load testing of piles in accordance with IS: 2919 (vertical load testing of piles in accordance with IS: 2910 (vertical load testing of piles in accordance with IS: 2911 (vertical	Note: 2. Testing agency shall submit the design of loading platform for the approval of Engi Group of two or more piles upto 50 tonne safe capacity Routine test (Test Load 1.5 times the safe Capacity). Description Description Details of cost for 1 test a. Materials/ Test: Cyclic vertical load testing of piles in accordance with 15: 2911 (Part-IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each b. Carriage: C. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) Cyclic vertical foad testing of pile in accordance with 15: Cyclic vertical load testing of pile in accordance with 15: Description Details of cost for 1 No. Test Rate per each Test (Say) Cyclic vertical load testing of pile in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of piles in accordance with 15: Cyclic vertical load testing of pile in accordance with 15: Cyclic vertical load testing of pile in accordance with 15: Cyclic vertical load testing of pile in accordance with 15: Cyclic vertical load testing of pile in accordance with 15: Description Descript			

				T		
	b. Carriage:					
	c. Labours:					
	TOTAL				₹	23,000.00
	e. Water charges:	@	1.0%		₹	230.00
					₹	23,230.00
	f. Add GST (multiplying factor)		0.1405		₹	3,263.82
	, ,				₹	26,493.82
	g. Add for contractor's profit and overheads	@	15%		₹	3,974.07
					₹	30,467.89
	h. Add cess	@	1%		₹	304.68
	Total cost for 1 No. Test				₹	30,772.57
	Rate per each Test (Say)				₹	30,772.60
15.8	Cyclic vertical load testing of pile in accordance Kentledge method including preparation of pile head etc.		Code of	practice IS: 29) 911 (part IV) by
15.8.2	Group of two or more piles:-	101.				
15.8.2.1	Upto 400 tonne safe capacity pile of group			<u> </u>		
		I I maid	0	Data	Γ	A
Code	Description Description	Unit	Quantity	Rate		Amount
	Details of cost for 1 test a. Materials/ Test:	Each				
15009	Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each	Per test	1.00	₹ 29,500.00	₹	29,500.00
	b. Carriage:					
	c. Labours:					
	TOTAL				₹	29,500.00
	e. Water charges:	@	1.0%		₹	295.00
	e. Water Charges.	<u> </u>	1.0%		₹	29,795.00
	S A LL COT / LUL L L C L L L		0.1405			4,186.20
	It Add (SI (multiplying factor)					
	f. Add GST (multiplying factor)		0.1403		₹	
		@	15%		₹	33,981.20
	g. Add for contractor's profit and overheads	@			₹	33,981.20 5,097.18
		@			₹	33,981.20 5,097.18 39,078.38
	g. Add for contractor's profit and overheads		15%		₹ ₹	33,981.20 5,097.18 39,078.38 390.78
	g. Add for contractor's profit and overheads h. Add cess		15%		₹ ₹ ₹	33,981.20 5,097.18 39,078.38 390.78 39,469.16
15.9	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per spe	@ with IS	15% 1% Code of		₹ ₹ ₹ ₹	33,981.20 5,097.18 39,078.38 390.78 39,469.16 39,469.20 Part IV) for
15.9.1	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific to the same of the	@ with IS cification	15% 1% Code of a & the direction	ection of Engine	₹ ₹ ₹ ₹	33,981.20 5,097.18 39,078.38 390.78 39,469.16 39,469.20 Part IV) for
	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific to the same of th	@ with IS cification Unit	15% 1% Code of		₹ ₹ ₹ ₹ ••er ir	33,981.20 5,097.18 39,078.38 390.78 39,469.16 39,469.20 Part IV) for
15.9.1	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific to the same of the	@ with IS cification	15% 1% Code of a & the direction	ection of Engine	₹ ₹ ₹ ₹ ••er ir	33,981.20 5,097.18 39,078.38 390.78 39,469.16 39,469.20 Part IV) for
15.9.1	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific	@ with IS cification Unit	15% 1% Code of a & the direction	ection of Engine	₹ ₹ ₹ ₹ ••er ir	33,981.20 5,097.18 39,078.38 390.78 39,469.16 39,469.20 Part IV) for
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific pile. Description Details of cost for 1 test a. Materials/ Test: Lateral load testing of single pile in accordance with IS:	@ with IS cification Unit Each	15% 1% Code of a & the direction	Rate	₹ ₹ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge :-
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific per specif	@ with IS cification Unit Each	15% 1% Code of a & the direction	ection of Engine	₹ ₹ ₹ ₹ ••er ir	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge:-
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific	@ with IS cification Unit Each	15% 1% Code of a & the direction	Rate	₹ ₹ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽	33,981.20 5,097.18 39,078.38 390.78 39,469.16 39,469.20 Part IV) for
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific pile. Description Details of cost for 1 test a. Materials/ Test: Lateral load testing of single pile in accordance with IS: 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity b. Carriage:	@ with IS cification Unit Each	15% 1% Code of a & the direction	Rate	₹ ₹ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽ ₹ ₽	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge :-
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific pile. Description Details of cost for 1 test a. Materials/ Test: Lateral load testing of single pile in accordance with IS: 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity b. Carriage: c. Labours:	@ with IS cification Unit Each	15% 1% Code of a & the direction	Rate	₹ ₹ ₹ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge:-
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific pile. Description Details of cost for 1 test a. Materials/ Test: Lateral load testing of single pile in accordance with IS: 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity b. Carriage: c. Labours: TOTAL	with IS cification Unit Each Per test	15% 1% Code of the direction of the dire	Rate	₹ ₹ ₹ ₹ ₽ ₽ 11 (eer in	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge:-
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific pile. Description Details of cost for 1 test a. Materials/ Test: Lateral load testing of single pile in accordance with IS: 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity b. Carriage: c. Labours:	@ with IS cification Unit Each	15% 1% Code of a & the direction	Rate	₹ ₹ ₹ ₹ ₹	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge:- Amount
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific pile. Description Details of cost for 1 test a. Materials/ Test: Lateral load testing of single pile in accordance with IS: 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity b. Carriage: c. Labours: TOTAL e. Water charges:	with IS cification Unit Each Per test	15% 1% Code of a the direction of the di	Rate	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge:- Amount 15,000.00 15,000.00 15,000.00 15,000.00
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific pile. Description Details of cost for 1 test a. Materials/ Test: Lateral load testing of single pile in accordance with IS: 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity b. Carriage: c. Labours: TOTAL	with IS cification Unit Each Per test	15% 1% Code of the direction of the dire	Rate	₹ ₹ ₹ ₹ ₹ ₹	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge:- Amount 15,000.00 15,000.00 15,150.00 2,128.58
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific	@ with IS cification Unit Each Per test	15% 1% Code of a the direction of the di	Rate	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge:- Amount 15,000.00 15,150.00 2,128.58 17,278.58
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific pile. Description Details of cost for 1 test a. Materials/ Test: Lateral load testing of single pile in accordance with IS: 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity b. Carriage: c. Labours: TOTAL e. Water charges:	with IS cification Unit Each Per test	15% 1% Code of a the direction of the di	Rate	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge:- Amount 15,000.00 15,000.00 15,150.00 2,128.58 17,278.58 2,591.79
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specarious pile. Description Details of cost for 1 test a. Materials/ Test: Lateral load testing of single pile in accordance with IS: 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity b. Carriage: c. Labours: TOTAL e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads	with IS cification Unit Each Per test @ @	15% 1% Code of a the direction of the	Rate	₹ ₹ ₹ ₹ ₹ ₹ ₹	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge:- Amount 15,000.00 15,150.00 2,128.58 17,278.58 2,591.79 19,870.37
15.9.1 Code	g. Add for contractor's profit and overheads h. Add cess Total cost for 1 No. Test Rate per each Test (Say) Lateral load testing of single pile in accordance of determining safe allowable lateral load on pile as per specific	@ with IS cification Unit Each Per test	15% 1% Code of a the direction of the di	Rate	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	33,981.20 5,097.18 39,078.38 390.78 39,469.20 Part IV) for 1-charge:- Amount 15,000.00 15,000.00 15,150.00 2,128.58 17,278.58 2,591.79

15.9	Lateral load testing of single pile in accordance	with IS	Code of	prac	tice IS · 29	11 (Part IV) for
10.7	determining safe allowable lateral load on pile as per spe						
	grant and make an a principle of						G -
15.9.2	Above 50 tonne and upto 100 tonne capacity pile.						
Code	Description	Unit	Quantity	1	Rate		Amount
Code	Details of cost for 1 test	Each	Qualitity		Kate		Amount
	a. Materials/ Test:	Lacii					
	Lateral load testing of single pile in accordance with IS:						
15011	2911 part -IV for determining safe allowable lateral load	Per test	1.00	₹	23,600.00	₹	23,600.00
	on pile above 50 tonne capacity						
	b. Carriage:						
	c. Labours:						
	TOTAL					₹	23,600.00
	e. Water charges:	@	1.0%			₹	236.00
						₹	23,836.00
	f. Add GST (multiplying factor)		0.1405			₹	3,348.96
						₹	27,184.96
	g. Add for contractor's profit and overheads	@	15%			₹	4,077.74
						₹	31,262.70
	h. Add cess	@	1%			₹	312.63
	Total cost for 1 No. Test					₹	31,575.33
	Rate per each Test (Say)					₹	31,575.30
15.10	Integrity testing of Pile using Low Strain / Sonic Integrity 14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of English	oving so skill tra	oil, mud, d ained perso	ust a	and chippir	ng le	an concrete
15.10	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high	oving son skill tragineering	pil, mud, d ained perso g-in-Charge shall judi	ust a onal ·	and chippir for conduc y decided	ng le	an concrete the test and ne technical
	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control.	oving son skill tragineering of work type of	oil, mud, d nined perso g-in-Charge shall judi soil strata	ust a onal ·	and chippir for conduct y decided in importance	ng le ting by th of th	an concrete the test and ne technical ne project.
15.10 Code	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description	oving son skill tragineering of work type of son Unit	pil, mud, d ained perso g-in-Charge shall judi	ust a onal ·	and chippir for conduc y decided	ng le ting by th of th	an concrete the test and ne technical
	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description Details of cost for 1 test	oving son skill tragineering of work type of	oil, mud, d nined perso g-in-Charge shall judi soil strata	ust a onal ·	and chippir for conduct y decided in importance	ng le ting by th of th	an concrete the test and ne technical ne project.
Code	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control, Description Details of cost for 1 test a. Materials/ Test:	or skill tra gineering of work type of s Unit	pil, mud, dained perso g-in-Charge shall judi soil strata a	ciosi	y decided importance	by the	an concrete the test and ne technical ne project. Amount
	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control Description Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment	oving son skill tragineering of work type of son Unit	pil, mud, dained perso g-in-Charge shall judi soil strata a	ust a onal ·	and chippir for conduct y decided in importance	ng le ting by th of th	an concrete the test and ne technical ne project.
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control per per per per per per per per per per	oving son skill tragineering of work type of Unit Each day	shall judi soil strata a Quantity	ust a onal	y decided importance Rate 3,500.00	by the	ne technical ne project. Amount
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician	oving son skill tragineering of work type of state Unit Each day day	shall judi soil strata a Quantity 0.10	ust a ponal of the control of the c	y decided importance Rate 3,500.00	by the of the	an concrete the test and ne technical ne project. Amount 350.00
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician)	oving son skill tragineering of work type of Unit Each day	shall judi soil strata a Quantity	ust a onal	y decided importance Rate 3,500.00	by the of the	an concrete the test and ne technical ne project. Amount 350.00 75.00 35.50
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician) TOTAL	oving son skill tragineering of work type of state Unit Each day day	shall judi soil strata a Quantity 0.10	ust a ponal of the control of the c	y decided importance Rate 3,500.00	by the of the	ne technical ne project. Amount
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician) TOTAL d. Sundries including report charge, transportation etc.	oving son skill tragineering of work type of state Unit Each day day	shall judi soil strata a Quantity 0.10	ust a ponal of the control of the c	y decided importance Rate 3,500.00	by the of the	an concrete the test and ne technical ne project. Amount 350.00 75.00 35.50 460.50
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician) TOTAL	oving son skill tragineering of work type of state Unit Each day day	shall judi soil strata a Quantity 0.10	ust a ponal of the control of the c	y decided importance Rate 3,500.00	by the of the state of the sta	an concrete the test and ne technical ne project. Amount 350.00 75.00 35.50 460.50 250.00
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control, Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician) TOTAL d. Sundries including report charge, transportation etc. [LS]	oving son skill tragineering of work type of state Unit Each day day day	oil, mud, dained personal personal personal personal pudition of the personal person	ust a ponal of the control of the c	y decided importance Rate 3,500.00	by the of the state of the sta	an concrete the test and ne technical ne project. Amount 350.00 75.00 35.50 460.50 250.00 710.50
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician) TOTAL d. Sundries including report charge, transportation etc.	oving son skill tragineering of work type of state Unit Each day day	shall judi soil strata a Quantity 0.10	ust a ponal of the control of the c	y decided importance Rate 3,500.00	ting leting the state of the s	an concrete the test and ne technical ne project. Amount 350.00 75.00 35.50 460.50 250.00 710.50 7.11
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician) TOTAL d. Sundries including report charge, transportation etc. [LS] e. Water charges:	oving son skill tragineering of work type of state Unit Each day day day	cil, mud, dained persogrin-Charge shall judi soil strata a Quantity 0.10 0.10 1.0%	ust a ponal of the control of the c	y decided importance Rate 3,500.00	ting leting by the of the stat	an concrete the test and me technical me project. Amount 350.00 75.00 35.50 460.50 250.00 710.50 7.11 717.61
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control, Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician) TOTAL d. Sundries including report charge, transportation etc. [LS]	oving son skill tragineering of work type of state Unit Each day day day	oil, mud, dained personal personal personal personal pudition of the personal person	ust a ponal of the control of the c	y decided importance Rate 3,500.00	ting leting by the of the stat	an concrete the test and me technical me project. Amount 350.00 75.00 35.50 460.50 250.00 710.50 7.11 717.61 100.82
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician) TOTAL d. Sundries including report charge, transportation etc. [LS] e. Water charges: f. Add GST (multiplying factor)	oving son skill tragineering of work type of state Unit Each day day day day	cil, mud, dained persogrin-Charge shall judi soil strata a Quantity 0.10 0.10 1.0% 0.1405	ust a ponal of the control of the c	y decided importance Rate 3,500.00	ting leting the strength of t	an concrete the test and an extending project. Amount 350.00 75.00 35.50 460.50 250.00 710.50 7.11 717.61 100.82 818.43
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En. Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control. Description Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician) TOTAL d. Sundries including report charge, transportation etc. [LS] e. Water charges:	oving son skill tragineering of work type of state Unit Each day day day	cil, mud, dained persogrin-Charge shall judi soil strata a Quantity 0.10 0.10 1.0%	ust a ponal of the control of the c	y decided importance Rate 3,500.00	ting leting the strength of t	an concrete the test and the test and the test and the project. Amount 350.00 75.00 35.50 460.50 250.00 710.50 7.11 717.61 100.82 818.43 122.76
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control per per per per per per per per per per	oving son skill tragineering of work type of state Unit Each day day day day @ @ @ @ @ @	oil, mud, dained personal pers	ust a ponal of the control of the c	y decided importance Rate 3,500.00	ting leting the strength of t	an concrete the test and the test and the test and the project. Amount 350.00 75.00 35.50 460.50 250.00 710.50 7.11 717.61 100.82 818.43 122.76 941.19
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control, Details of cost for 1 test a. Materials/ Test: Pile integrity testing equipment b. Labours: Technician Helper (Technician) TOTAL d. Sundries including report charge, transportation etc. [LS] e. Water charges: f. Add GST (multiplying factor) g. Add for contractor's profit and overheads h. Add cess	oving son skill tragineering of work type of state Unit Each day day day day	cil, mud, dained persogrin-Charge shall judi soil strata a Quantity 0.10 0.10 1.0% 0.1405	ust a ponal of the control of the c	y decided importance Rate 3,500.00	ting leting to the state of th	an concrete the test and the test and the test and the project. Amount 350.00 75.00 35.50 460.50 250.00 7.11 717.61 100.82 818.43 122.76 941.19 9.41
Code 0133	14893 including surface preparation of pile top bt rem lumps etc. and use of computerised equipment and high submission of results, all complete as per direction of En Note: The inclusion of the above item in the schedule sanctioning authority, keeping in view the quality control per per per per per per per per per per	oving son skill tragineering of work type of state Unit Each day day day day @ @ @ @ @ @	oil, mud, dained personal pers	ust a ponal of the control of the c	y decided importance Rate 3,500.00	ting leting the strength of t	an concrete the test and the test and the test and the project. Amount 350.00 75.00 35.50 460.50 250.00 710.50 7.11 717.61 100.82 818.43 122.76 941.19

Sub Head: 16.0 Aluminium Work

- Description of items has been given very briefly. Relevant clauses of CPWD-Specifications may be referred 1 for quality, sampling and tests etc.
- Manual mixing of cement mortars have been considered here. However, for using of mechanical mixer, the cost will differ with manual mixing as per item no.3.17.
- Sand can be either coarse or fine as required/available. Here, provision of fine sand is considered only due 3 to non-availability of coarse sand in Tripura. However, if design dictates for use of coarse sand, then seperate analysis may be made as per site condition.
- Rates of all materials used in the analysis are at the site of work which is including the cost for loading, 4 unloading and haulage.

Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, i.e. at top, bottom and sides with required EPDM 16.1 rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawing and the direction of Engineer-in-charge. (Glazing and paneling and dash fasteners to be paid for separately):-

16.1.1 For fixed portion of approved quality:-

16.1.1.1 Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 42.02 Kg.	Kg.			
16001	a. Materials: Aluminium T or L sections: External member of the frame (Jindal section No. 4605) V =2x2.4 =4.80 m H = 2x3x0.95 = 5.70 m = 10.50 m @ 1.653 kg/m = 17.36 kg. Internal member of the frame (Jindal section no. 4604) V = 2x2.40 = 4.80 M H = 1x3x0.95 = 2.85 m = 7.65 m @ 1.692 kg/m = 12.94 kg Aluminium sap beading on both side (Jindal section No. 4407) 2x6x2 (1.14+0.95) = 50.16 m Snap beading = 50.16 m @0.176 kg/m = 8.33kg Angle cleat 38x38x4.8 mm 50 mm long 18x0.05 = 0.90m @ 0.985 kg/m = 0.89 kg Sub total = 40.02 kg add 5% wastage = 2.00 kg. Total = 42.02 kg.	Kg.	42.02	200.00	8404.00
08056	CP brass/ Stainless steel screws 20mm for cleat angle: 18x4	100 Nos.	72	168.00	120.96
16012	Anodising 15 microns on aluminium sections. b. Carriage:	Kg.	42.02	39.00	1638.78
0215 0228 0203 0201	Carriage of material c. Labours (for fabrication of frame): Fitter (Grade I) Beldar (Special) Beldar Bandhani Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor)	Kg. Day Day Day Day @ @	42.02 2.00 1.00 1.00 0.05 3% 0.5% 0.1405	0.10 395.00 395.00 310.00 310.00	4.20 790.00 395.00 310.00 15.50 11678.44 350.35 12028.79 60.14 12088.93 1698.50 13787.43
	Add 15% for contractor's profit and overheads	@	15%		2068.11 15855.54
	Add cess	@	1%	Total	158.56 16014.10
		Total cos	t for 1 Kg.	Say,	400.15 400.20

16.1.1.2 Powder coated aluminium (minimum thickness of powder coating of 50 micron).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 40.02 Kg.	Kg.			
	a. Materials:	5			
	Aluminium T or L sections:				
	External member of the frame (Jindal section No. 4605)				
	V = 2x2.4 = 4.80 m H = 2x3x0.95 = 5.70 m = 10.50 m)			
	1.653 kg/m = 17.36 kg.				
	Internal member of the frame (Jindal section no. 4604)				
	V = 2x2.40 = 4.80 M H = 1x3x0.95 = 2.85 m = 7.65 m @)			
16001	1.692 kg/m = 12.94 kg	Kg.	42.02	200.00	8404.00
	Aluminium sap beading on both side (Jindal section No.				
	4407) $2x6x2$ (1.14+0.95) = 50.16 m Snap beading =				
	50.16 m @0.176 kg/m = 8.33kg Angle cleat 38x38x4.8 mm 50 mm long 18x0.05 =				
	0.90m @ 0.985 kg/m = 0.89 kg				
	Sub total = 40.02 kg add 5% wastage = 2.00 kg.				
	Total = 42.02 kg.				
0005/	CP brass/ Stainless steel screws 20mm for cleat angle:	100Nos.	72	140.00	120.04
08056	18x4	TOUNOS.	12	168.00	120.96
16022	Expoxy powder coating 50micron on aluminium	Kg.	42.02	62.00	2605.24
10022	sections.	1,8.	12.02	02.00	2000.21
	b. Carriage:	I/ a	42.02	0.10	4.20
	Carriage of material c. Labours (for fabrication of frame):	Kg.	42.02	0.10	4.20
0215	Fitter (Grade I)	Day	2.00	395.00	790.00
0213	Beldar (Special)	Day Day	1.00	395.00	395.00
0203	Beldar	Day	1.00	310.00	310.00
0201	Bandhani	Day	0.05	310.00	15.50
		,			12644.90
	Add for sundries & contingencies	@	3%		379.35
	Total				13024.25
	Add for electricity charges	@	0.5%		65.12
					13089.37
	Add GST (multiplying factor)		0.1405		1839.06
	A dal 150/ fee a continuation (a constitution of constitution)		150/		14928.43
	Add 15% for contractor's profit and overheads	@	15%		2239.26
	Add cess	@	1%		17167.69 171.68
	Aud CESS	w	1 /0	Total	171.00
		Total		Total	433.27
				Say,	433.30
				٠.	

16.1.1.3 Polyester powder coated aluminium (minimum thickness of polyester powder coating of 50 micron).

Code	Description	Unit	Quantity	Rate	Amount
16001	Details of cost for 40.02 Kg. a. Materials: Aluminium T or L sections: External member of the frame (Jindal section No. 4605) V = 2x2.4 = 4.80 m H = 2x3x0.95 = 5.70 m = 10.50 m @ 1.653 kg/m = 17.36 kg. Internal member of the frame (Jindal section no. 4604) V = 2x2.40 = 4.80 M H = 1x3x0.95 = 2.85 m = 7.65 m @ 1.692 kg/m = 12.94 kg Aluminium sap beading on both side (Jindal section No. 4407) 2x6x2 (1.14+0.95) = 50.16 m Snap beading = 50.16 m @0.176 kg/m = 8.33kg Angle cleat 38x38x4.8 mm 50 mm long 18x0.05 = 0.90m @ 0.985 kg/m = 0.89 kg Sub total = 40.02 kg add 5% wastage = 2.00 kg. Total = 42.02 kg.	Kg.	42.02	200.00	8404.00
08056	CP brass/ Stainless steel screws 20mm for cleat angle: 18x4	100Nos.	72	168.00	120.96

Polyester powder coating 50 microns on aluminium kg. 42.02 68.00 2857.36 sections.

b. Carriage:

Carriage of material Kg. 42.02 0.10 4.20

	c. Labours (for fabrication of frame):				
0215	Fitter (Grade I)	Day	2.00	395.00	790.00
0228	Beldar (Special)	Day	1.00	395.00	395.00
0203	Beldar	Day	1.00	310.00	310.00
0201	Bandhani	Day	0.05	310.00	15.50
					12897.02
	Add for sundries & contingencies	@	3%		386.91
	Total				13283.93
	Add for electricity charges	@	0.5%		66.42
					13350.35
	Add GST (multiplying factor)		0.1405		1875.72
					15226.07
	Add 15% for contractor's profit and overheads	@	15%		2283.91
					17509.98
	Add cess	@	1%		175.10
				Total	17685.08
			Total cost for	1 Kg.	441.91
				Say,	441.90

For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately):-

16.1.2.1 Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 20.21 Kg.	Kg.			
	a. Materials:	J			
16001	Aluminium sections: Hanging style (Jindal section no 4524) $1x2.35 = 2.35$ m @2.53kg/m = 5.95 kg Meeting style (Jindal section no 4526) $1 x2.35 = 2.35$ m @2.456 kg/m = 5.79 kg Top & bottom rail (Jindal section no 4510) $2x0.75 = 1.50$ m @2.48 kg/m =3.72 kg Lock rail (Jindal section no 4524) $1x0.75 = 0.75$ m @ 2.53 kg/m = 1.90 kg Glazing plate (Jindal section no 440) on one side of lock rail $1 x 0.75 = 0.75$ m @ 0.459 kg/m = 0.34 kg Aluminium snap beading (Jindal section no 4497) on both side $2x2x(0.75+1.26) = 8.04$ m x $2x2x(0.75+0.81) = 6.24$ m = 14.28 m @ 0.176 kg/m = 2.51 kg Aluminium angle cleat $38x38x4.8$ mm 35 mm long $3x4x0.035 = 0.42$ m @ 0.985 kg/m = 0.41 kg Sub total = 20.62 kg Add 5% wastage = 1.03 kg Total = 21.65 kg	Kg.	21.65	200.00	4330.00
08056	CP brass/ Stainless steel screws 20mm for cleat $12x4 = 48$ For cleat $4 \times 8 = 32$ For glazing plate @15 cm c/c in 75 cm length $2x6 = 12$ Total = 92 Nos.	100Nos.	92	168.00	154.56
08107 16012	Anodised Aluminium butt hinges 100x75x4 mm Anodising 15 microns on aluminium sections.	10 Nos. Kg.	4 21.65	600.00 39.00	240.00 844.35
16020	Neoprene / EPDM gasket in groove of meeting style	metre	2.35	28.00	65.80
	b. Carriage:				
	Carriage of material	Kg.	31.20	0.10	3.12
0215 0228 0203 0201	c. Labours (for fabrication of frame): Fitter (Grade I) Beldar (Special) Beldar Bandhani Labours (for fixing the shutter including hinges):	Day Day Day Day	1.00 1.00 0.50 0.40	395.00 395.00 310.00 310.00	395.00 395.00 155.00 124.00
0209	Carpenter 1st class	Day	0.20	440.00	88.00

0203	Belder	Day	0.50	310.00	155.00
					6949.83
	Add for sundries & contingencies	@	3%		208.49
	Total				7158.32
	Add for electricity charges	@	0.5%		35.79
					7194.11
	Add GST (multiplying factor)		0.1405		1010.77
					8204.88
	Add 15% for contractor's profit and overheads	@	15%		1230.73
					9435.61
	Add cess	@	1%		94.36
				Total	9529.97
		Т	otal cost for 1	Kg.	471.55
				Say,	471.60

16.1.2.2 Powder coated aluminium (minimum thickness of powder coating of 50 micron).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 20.21 Kg.	Kg.			
	a. Materials:				
	Aluminium sections:				
	Hanging style (Jindal section no 4524) 1x2.35 = 2.35 m				
	@2.53kg/m = 5.95 kg				
	Meeting style (Jindal section no 4526) 1 x2.35 = 2.35 m				
	@2.456 kg/m = 5.79 kg				
	Top & bottom rail (Jindal section no 4510) $2x0.75 = 1.50$				
	m @2.48 kg/m =3.72 kg Lock rail (Jindal section no 4524) 1x0.75 = 0.75 m @				
	2.53 kg/m = 1.90 kg				
16001	Glazing plate (Jindal section no 440) on one side of lock	Kg.	21.65	200.00	4330.00
	rail 1 x $0.75 = 0.75$ m @ 0.459 kg/m = 0.34 kg				
	Aluminium snap beading (Jindal section no 4497) on				
	both side $2x2x(0.75+1.26) = 8.04 \text{ m x } 2x2x(0.75+0.81) =$				
	6.24 m = 14.28 m @ 0.176 kg/m = 2.51 kg				
	Aluminium angle cleat 38x38x4.8 mm 35 mm long 3x4x0.035 = 0.42 m @ 0.985 kg/m = 0.41 kg				
	Sub total = 20.62 kg Add 5% wastage = 1.03 kg				
	Total = 21.65 kg				
	CP brass/ Stainless steel screws 20mm for cleat 12x4 =				
08056	48 For cleat 4 x8 = 32 For glazing plate @15 cm c/c in	100Nos.	92	168.00	154.56
	75 cm length 2x6 = 12 Total = 92 Nos.				
08107	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos.	4	600.00	240.00
16022	Expoxy powder coating 50micron on aluminium	Kg.	21.65	62.00	1342.30
	sections.	· ·			
16020	Neoprene / EPDM gasket in groove of meeting style	metre	2.35	28.00	65.80
	b. Carriage:			0.00	
	Carriage of material c. Labours (for fabrication of frame):	Kg.	31.20	0.10 0.00	3.12
0215	Fitter (Grade I)	Day	1.00	395.00	395.00
0218	Beldar (Special)	Day	1.00	395.00	395.00
0203	Beldar	Day	0.50	310.00	155.00
0201	Bandhani	Day	0.40	310.00	124.00
	Labours (for fixing the shutter including hinges):	_			
0209	Carpenter 1st class	Day	0.20	440.00	88.00
0203	Belder	Day	0.50	310.00	155.00 7447.78
	Add for sundries & contingencies	@	3%		223.43
	Total	_	<i>-</i> 70		7671.21
	Add for electricity charges	@	0.5%		38.36
					7709.57
	Add GST (multiplying factor)		0.1405		1083.20

Add 15% for contractor's profit and overheads	@	15%		8792.77 1318.92
Add 15% for contractor's profit and overheads	@	15%		10111.69
Add cess	@	1%		101.12
			Total	10212.81
		Total cost fo	r 1 Kg.	505.33
			Sav.	505.30

16.1.2.3 Polyester powder coated aluminium (minimum thickness of polyester powder coating of 50 micron).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 20.21 Kg.	Kg.			•
16001	a. Materials: Aluminium sections: Hanging style (Jindal section no 4524) 1x2.35 = 2.35 m @2.53kg/m = 5.95 kg Meeting style (Jindal section no 4526) 1 x2.35 = 2.35 m @2.456 kg/m = 5.79 kg Top & bottom rail (Jindal section no 4510) 2x0.75 = 1.50 m @2.48 kg/m = 3.72 kg Lock rail (Jindal section no 4524) 1x0.75 = 0.75 m @ 2.53 kg/m = 1.90 kg Glazing plate (Jindal section no 440) on one side of lock rail 1 x 0.75 = 0.75 m @ 0.459 kg/m = 0.34 kg Aluminium snap beading (Jindal section no 4497) on both side 2x2x(0.75+1.26) = 8.04 m x 2x2x(0.75+0.81) = 6.24 m = 14.28 m @ 0.176 kg/m = 2.51 kg Aluminium angle cleat 38x38x4.8 mm 35 mm long 3x4x0.035 = 0.42 m @ 0.985 kg/m = 0.41 kg Sub total = 20.62 kg Add 5% wastage = 1.03 kg Total = 21.65 kg	Kg.	21.65	200.00	4330.00
08056	CP brass/ Stainless steel screws 20mm for cleat 12x4 = 48 For cleat 4 x8 = 32 For glazing plate @15 cm c/c in 75 cm length 2x6 = 12 Total = 92 Nos.		92	168.00	154.56
08107	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos.	4	600.00	240.00
16021	Polyester powder coating 50 microns on aluminium sections.	Kg.	21.65	68.00	1472.20
16020	Neoprene / EPDM gasket in groove of meeting style	metre	2.35	28.00	65.80
	b. Carriage:				
	Carriage of material	Kg.	31.20	0.10	3.12
0215	c. Labours (for fabrication of frame): Fitter (Grade I)	Day	1.00	0.00 395.00	395.00
0228	Beldar (Special)	Day	1.00	395.00	395.00
0203	Beldar	Day	0.50	310.00	155.00
0201	Bandhani	Day	0.40	310.00	124.00
	Labours (for fixing the shutter including hinges):				
0209	Carpenter 1st class	Day	0.20	440.00	88.00
0203	Belder	Day	0.50	310.00	155.00
	Add for sundries & contingencies	@	3%		7577.68 227.33
	Total Add for electricity charges	@	0.5%		7805.01 39.03 7844.04
	Add GST (multiplying factor)		0.1405		1102.09 8946.13
	Add 15% for contractor's profit and overheads	@	15%		1341.92 10288.05
	Add cess	@	1%	Total	10200.03 102.88 10390.93
		To	otal cost for 1		514.15 514.20

Providing and fixing 12 mm thick prelaminated three layer medium density (exterior grade) particle board grade-I, type II conforming to IS: 12823 bonded with phenol formaldehyde synthetic resin, of approved brand and manufacture in panelling fixed in aluminium doors, windows, shutters and partition frames with C.P. brass / stainless steel screws all complete as per architectural drawing and the direction of Engineer-in-charge:

16.2.1 Prelaminated particle board of approved quality with decorative lamination on one side and balancing lamination on other side.

familiation on other side.				
Description	Unit	Quantity	Rate	Amount
Details of cost for 7.00 Sqm.	Sqm.			
a. Materials:				
Prelaminated particle board with decorative lamination				
•	Sqm.	7.35	/00.00	5145.00
Ç				
	LS	52.00	1.30	67.60
c. Labours:				
Belder	Day	1.00	310.00	310.00
Carpenter (2nd class)	Day	0.90	395.00	355.50
				5878.10
Add for sundries & contingencies	@	3%		176.34
Total				6054.44
Add for electricity charges	@	0.5%		30.27
-				6084.71
Add GST (multiplying factor)		0.1405		854.90
				6939.61
Add 15% for contractor's profit and overheads	@	15%		1040.94
				7980.55
Add cess	@	1%		79.81
			Total	8060.36
	To	tal cost for 1	Sqm.	1151.48
			Say,	1,151.50
	Description Details of cost for 7.00 Sqm. a. Materials: Prelaminated particle board with decorative lamination on one side and balancing lamination on other side. b. Carriage: Carriage of material c. Labours: Belder Carpenter (2nd class) Add for sundries & contingencies Total Add for electricity charges Add GST (multiplying factor) Add 15% for contractor's profit and overheads	Description Unit Details of cost for 7.00 Sqm. a. Materials: Prelaminated particle board with decorative lamination on one side and balancing lamination on other side. b. Carriage: Carriage of material LS c. Labours: Belder Day Carpenter (2nd class) Day Add for sundries & contingencies @ Total Add for electricity charges @ Add GST (multiplying factor) Add 15% for contractor's profit and overheads @ Add cess @	DescriptionUnitQuantityDetails of cost for 7.00 Sqm. a. Materials:Sqm.Prelaminated particle board with decorative lamination on one side and balancing lamination on other side.Sqm.7.35b. Carriage: Carriage of material c. Labours: BelderLS52.00Carpenter (2nd class)Day1.00Carpenter (2nd class)Day0.90Add for sundries & contingencies Total Add for electricity charges@3%Add GST (multiplying factor)0.1405Add 15% for contractor's profit and overheads@15%Add cess@1%	DescriptionUnitQuantityRateDetails of cost for 7.00 Sqm. a. Materials:Sqm. Sqm.Sqm.Prelaminated particle board with decorative lamination on one side and balancing lamination on other side.Sqm.7.35700.00b. Carriage: Carriage of material c. Labours: BelderLS52.001.30Carpenter (2nd class)Day1.00310.00Carpenter (2nd class)Day0.90395.00Add for sundries & contingencies Total Add for electricity charges@3%Add GST (multiplying factor)0.14050.1405Add 15% for contractor's profit and overheads@15%Add cess@1%Total Total Total Total cost for 1 Sqm.

16.2.2 Prelaminated particle board of approved quality with decorative lamination on both side.

10.2.2	Freianninated particle board of approved quanty with decorative lamination on both side.								
Code	Description	Unit	Quantity	Rate	Amount				
	Details of cost for 7.00 Sqm.	Sqm.							
	a. Materials:								
08218	Prelaminated particle board with decorative lamination	Sqm.	7.35	810.00	5953.50				
00210	on both side	oqiii.	7.55	010.00	3733.30				
	b. Carriage:								
	Carriage of material	LS	52.00	1.30	67.60				
	c. Labours:								
0203	Belder	Day	1.00	310.00	310.00				
0210	Carpenter (2nd class)	Day	0.90	395.00	355.50				
					6686.60				
	Add for sundries & contingencies	@	3%		200.60				
	Total				6887.20				
	Add for electricity charges	@	0.5%		34.44				
					6921.64				
	Add GST (multiplying factor)		0.1405		972.49				
					7894.13				
	Add 15% for contractor's profit and overheads	@	15%		1184.12				
					9078.25				
	Add cess	@	1%		90.78				
				Total	9169.03				
		Total	cost for 1		1309.86				
				Say,	1,309.90				

Providing and fixing glazing of approved quality in aluminium doors, windows, ventilator, shutters and partition etc. with EPDM rubber / neoprene gasket etc. complete as per architectural drawing and the direction of Engineer-in-charge (Cost of snap beading shall be paid in basic item):-

16.3.1 With float glass panes of 4.0 mm thickness (weight not less than 10.0 kg / sqm)

	9 1		J 1	,	
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 Sqm.	Sqm.			
	a. Materials:				
08146	With glass panes of 4.0 mm thickness (weight not less than 10.0 kg / sqm)	Sqm.	1.10	400.00	440.00
16020	Neoprene /EPDM gasket	Mtr.	6.00	28.00	168.00
	b. Carriage:				

	Carriage of material	kg	11.00	0.14	1.54
0210 0203	c. Labours: Carpenter (2nd class) Belder	Day Day	0.23 0.23	395.00 310.00	90.85 71.30 771.69
	Add for sundries & contingencies Total	@	3%		23.15 794.84
	Add for electricity charges	@	0.5%		3.97 798.81
	Add GST (multiplying factor)		0.1405		112.23 911.04
	Add 15% for contractor's profit and overheads	@	15%		136.66 1047.70
	Add cess	@	1%	Total	10.48 10.58.18
16.3.2	With float glass panes of 5.5 mm thickness (weight not I		cost for 1	Say,	1,058.20
Code	Description	Unit	Quantity	Rate	Amount
Code	Details of cost for 1.00 Sqm.	Sqm.	Qualitity	Nate	Amount
	a. Materials: With glass panes of 5.5 mm thickness (weight not less				
08147	than 13.75 kg / sqm)	Sqm.	1.1	550.00	605.00
16020	Neoprene /EPDM gasket b. Carriage:	Mtr.	6.00	28.00	168.00
	Carriage of material LS c. Labours:	kg	15.13	0.14	2.12
0210	Carpenter (2nd class)	Day	0.23	395.00	90.85
0210	Belder	Day	0.23	310.00	71.30
0200	belder	Day	0.23	310.00	937.27
	Add for sundries & contingencies	@	3%		28.12
	Total	C	370		965.39
	Add for electricity charges	@	0.5%		4.83
	, ,				970.22
	Add GST (multiplying factor)		0.1405		136.32
	Add 150/ for contractor/s profit and averbands	@	1 0/		1106.54
	Add 15% for contractor's profit and overheads	@	15%		165.98 1272.52
	Add cess	@	1%		12.73
				Total	1285.25
			cost for 1	Say,	1,285.20
16.3.3	With float glass panes of 8 mm thickness (weight not les	ss than 20) kg / sqm)		
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 Sqm. a. Materials:	Sqm.			
08291	With glass panes of 8 mm thickness (weight not less than 20 kg / sqm)	Sqm.	1.1	730.00	803.00
16020	Neoprene /EPDM gasket b. Carriage:	Mtr.	6.00	28.00	168.00
	Carriage of material	kg	22.00	0.14	3.08
	c. Labours:				
0210	Carpenter (2nd class)	Day	0.23	395.00	90.85
0203	Belder	Day	0.23	310.00	71.30
	Add for oundries a service service	@	20/		1136.23
	Add for sundries & contingencies Total	@	3%		34.09 1170.32
	Add for electricity charges	@	0.5%		5.85
	Add GST (multiplying factor)		0.1405		1176.17 165.25
	Add 15% for contractor's profit and overheads	@	15%		1341.42 201.21
	·				1542.63
	Add cess	@ 	1%	- · ·	15.43
		rotal	cost for 1	Total Say,	1558.06 1,558.10
				Juy	1,000.10

Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS: 6315, having brand logo embrossed on the body / plate with double spring mechanism and door weight upto 125 kg. for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece MS sheet outer box with slide plate etc. complete as per direction of the Engineer-in-charge:-

16.4.1	With stainless steel cover plate minimum 1.25 mm thickness								
Code	Description	Unit	Quantity	Rate	Amount				
	Details of cost for 1No. a. Materials:	No.							
16017	Hydraulic floor spring with cover	No.	1	1600.00	1600.00				
	Cement conrete 1:2:4 [vide RCC SI. No. 4.1.3] "A"	cum	0.002	10456.60	20.91				
	b. Labours:								
0210	Carpenter 2nd class	Day	0.01	395.00	3.95				
0218*	Mason (avg)	Day	0.16	415.00	66.40				
0203	Belder	Day	0.17	310.00	52.70				
					1743.96				
	Add for sundries & contingencies Total	@	3%		52.32 1796.28				
	Add for electricity charges	@	0.5%		8.98 1805.26				
	Add GST (multiplying factor)		0.1405		253.64 2058.90				
	Add 15% for contractor's profit and overheads	@	15%		308.83 2367.73				
	Add cess	@	1%	Total	23.68 2391.41				
		Total co	st for 1 No.	Say,	2,391.41 2,391.40				

16.4.2	With CP brass cover plate minimum 1.25 mm thickness				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.	No.			
	a. Materials:				
16016	Hydraulic floor spring with cover	No.	1	1700.00	1700.00
	Cement conrete 1:2:4 [vide RCC SI. No. 4.1.3] "A"	cum	0.002	10456.60	20.91
	osment sem etc. HETT (trace tree en tree trine). The	00	0.002		20171
	b. Labours:				
0210	Carpenter 2nd class	Day	0.01	395.00	3.95
0218*	Mason (avg)	Day	0.16	415.00	66.40
0203	Belder	Day	0.17	310.00	52.70
					1843.96
	Add for sundries & contingencies	@	3%		55.32
	Total				1899.28
	Add for electricity charges	@	0.5%		9.50
					1908.78
	Add GST (multiplying factor)		0.1405		268.18
					2176.96
	Add 15% for contractor's profit and overheads	@	15%		326.54
					2503.50
	Add cess	@	1%	-	25.03
		+		Total	2528.53
		Lotal cos	st for 1 No.	Say,	2,528.50

Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50 micron) consisting of tee / angle sections, of approved make conforming to IS: 733 in frames of false ceiling including aluminium angle cleats with necessary C.P. brass / stainless steel sunk screws, aluminium perimeter angles fixed to wall with stainless steel rawl plugs @ 450 mm centre to centre and fixing the frame work to G.I. level adjusting hangers 6 mm dia. with necessary cadmium plated machine screws all complete as per approved architectural drawings and the direction of Engineer-in-charge (level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately):-

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 6.35 Kg. [2.40 x 2.40 = 5.76 sqm] a. Materials:				
16001	Aluminum main runner - assuming Tee of size $35 \times 23.5 \times 1.5$ mm @600 mm c/c 3.00×2.40 m =7.20 m. Extra for light fittings 2×1.20 m = 2.40 m Total = 9.60 m @ 0.247 kg/m = 2.370 kg. Aluminium cross runner - assuming Tee of size $35 \times 23.5 \times 1.5$ mm @ 600 mm c/c $3\times4\times0.60$ m = 7.20 m (-) 2×0.30 +(-) 0.60 m Total = 6.60 m @0.247 kg/m = 1.630 kg Perimeter angle aluminium assuming size $25.4 \times 25.4 \times 1.63$ mm @ 600 mm c/c 4×2.40 m = 9.60 m @ 0.213 kg/m = 2.045 kg CLEATS Aluminium angle - assuming size $25.4 \times 25.4 \times 1.63$ mm Extra for light fittings = $3 \times 2\times 2 = 12$ m Corner = 4.0 For joining rinners = 42.0 Total = $58 \times 0.025 = 1.45$ m @ 0.213 kg/m = 0.309 kg. Sub Total = $2.37+1.63+2.045+0.309 = 6.354$ kg. Add 5% wastage = 0.318 kg	Kg.	6.67	200.00	1334.40
08056	CP brass / stainless steel screws 20 mm for cleat angle	100Nos.	1.16	168.00	1.95
05050	Rawl plugs for perimeter angle fixing	Nos.	24	7.00	168.00
16022	Expoxy powder coating 50micron on aluminium sections. b. Carriage:	Kg.	6.67	62.00	413.66
	Carriage of material	Kg.	6.67	0.10	0.67
0209 0203	c. Labours: Carpenter 1st class Beldar	Day Day	0.64 0.64	440.00 310.00	281.60 198.40

				2398.68
Add for sundries, Scaffolding & contingencies	@	3%		71.96
Total				2470.64
Add for electricity charges	@	0.5%		12.35
				2482.99
Add GST (multiplying factor)		0.1405		348.86
				2831.85
Add 15% for contractor's profit and overheads	@	15%		424.78
				3256.63
Add cess	@	1%		32.57
			Total	3289.20
		Total cost for 1	Kg.	517.98
			Say,	518.00

Providing and fixing 6 mm dia G.I. level adjusting hangers (upto 1200 mm length) fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40x3mm size 60mm long and stainless steel expandable dash fasteners 12.5 mm dia. 50 mm long, complete as per architectural drawing and the direction of Engineer-in-charge.

Code	Description	Uı	nit	Quantity	Rate	Amount
-	Details of cost for 23 Nos. (Hangers in 2.40 m x2.40m =	•				•
	5.76 sqm)					
	a. Materials:					
16002	6 mm dia G.I. adjusting hangers including clips (upto 1200 mm length) For light fiting $2x4 = 8.00$ Nos. For runners = 15.00 Total = 23 Nos.		OS.	23.00	30.00	690.00
11021	Ceiling cleats made out of 40 x 3 mm GI flat size 60 mm long 23 x $0.06 = 1.38$ m @ 0.95 kg/m 1.31 kg Add 5% wastage = 0.07 kg. Total = 1.38 kg	Q	ùtl.	0.014	5200.00	71.76
16015	Dash hold fasteners 12.5 mm dia, 50 mm long with 6 mm dia bolt	N	OS.	23	12.00	276.00
	b. Labours:					
0209	Carpenter 1st class		ay	0.35	440.00	154.00
0203	Beldar	D	ay	0.27	310.00	83.70
	Add for a plain 0 continuousia			20/		1275.46
	Add for sundries & contingencies Total	@		3%		38.26 1313.72
	Add for electricity charges	@		0.5%		6.57
	Add for electricity charges	•		0.5%		1320.29
	Add GST (multiplying factor)			0.1405		185.50
						1505.79
	Add 15% for contractor's profit and overheads	@		15%		225.87
	•					1731.66
	Add cess	@		1%		17.32
					Total	1748.98
			To	tal cost for 1	l No.	76.04
					Say,	76.00

Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving dash fastener, over expansion joints on vertical surfaces/ceiling floors, the fixing on plate in one row on one side of joint only shall be done with stainless steel dash fasteners of 8 mm dia and 75 mm long bolt including providing aluminium washers 2 mm thick and 15 mm dia, at a staggered pitch of 200 mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete as required and as per architectural drawings and the direction of Engineer-in-charge:-

16.7.1 Anodised aluminium sheet of 2.5 mm thick (anodised transparent or dyed to required shade according to IS: 1868, minimum anodic coating of grade AC 15)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 7.0 Kg.	Kg.			
	a. Materials:				
10006	Aluminium sheet of 2.5 mm thick , 170mm wide 5.88 x 0.17 m 1.00 sqm @7.00kg/sqm = 7.00 kg Add 5% wastage = 0.35 kg Total = 7.35 kg	Kg.	7.35	230.00	1690.50

16012	Anodising 15 microns on aluminium sections.	Kg.	7.35	39.00	286.65
16014	Cadmium plated full threaded steel screws 4 mm dia 30 mm long	100Nos.	30	30.00	9.00
16011	Aluminium washers 15 mm dia 2 mm thick	100Nos.	30	10.00	3.00
16031	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt b. Labours:	Nos.	30	15.00	450.00
		_			
0210	Carpenter 2nd class	Day	0.392	395.00	154.84
0203	Beldar	Day	0.392	310.00	121.52
	c. Scaffolding, ladders, challis, machine work etc. @ 3% on total	3%	on	2715.51	81.47
					2796.98
	Add for sundries & contingencies	@	3%		83.91
	Total	C	370		2880.89
			0.5%		
	Add for electricity charges	@	0.5%		14.40
					2895.29
	Add GST (multiplying factor)		0.1405		406.79
					3302.08
	Add 15% for contractor's profit and overheads	@	15%		495.31
	·				3797.39
	Add cess	@	1%		37.97
		-		Total	3835.36
		Total cos	st for 1 Kg.	10101	547.91
		rotar co.	st for fixy.	Covi	
				Say,	547.90

16.7.2 Powder coated aluminium sheet of 2.5 mm thick (minimum thickness of powder coating of 50 micron).

		1			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 7.0 Kg. a. Materials:	Kg.			
10006	Aluminium sheet of 2.5 mm thick , 170mm wide 5.88 x 0.17 m 1.00 sqm @7.00kg/sqm = 7.00 kg Add 5% wastage = 0.35 kg Total = 7.35 kg		7.35	230.00	1690.50
16022	Powder coating 50 microns on aluminium sections.	Kg.	7.35	62.00	455.70
16014	Cadmium plated full threaded steel screws 4 mm dia 30 mm long	100Nos.	30	30.00	9.00
16011	Aluminium washers 15 mm dia 2 mm thick	100Nos.	30	10.00	3.00
16031	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt b. Labours:	Nos.	30	15.00	450.00
0210	Carpenter 2nd class	Day	0.392	395.00	154.84
0203	Beldar	Day	0.392	310.00	121.52
	c. Scaffolding, ladders, challis, machine work etc. @3% on total	3%	on	2884.56	86.54
					2971.10
	Add for sundries & contingencies Total	@	3%		89.13 3060.23
	Add for electricity charges	@	0.5%		15.30
					3075.53
	Add GST (multiplying factor)		0.1405		432.11
	Add 15% for contractor's profit and overheads	@	15%		3507.64 526.15
	Add 15% for contractor's profit and overfields	w	13/0		4033.79
	Add cess	@	1%		40.34
				Total	4074.13
		Total cos	st for 1 Kg.		582.02
				Say,	582.00

Filling the gap in between aluminium frame and adjacent RCC/brick work by providing weather silicon sealant over backer rod of approved quality etc. complete as per architectural drawing and direction of the Engineer-in charge:- (i) Upto 5 mm depth and 5 mm width.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 Mtr.	Mtr.			
	a. Materials:				
16019	Masking tape	Mtr.	2.00	3.00	6.00
16023	Silicon sealant	Cartridg e	0.09	340.00	29.58
	b. Labours:				
0210	Carpenter 2nd class	Day	0.05	395.00	19.75
0203	Helper	Day	0.07	310.00	21.70
					77.03
	Add for sundries & contingencies	@	3%		2.31
	Total				79.34
	Add for electricity charges	@	0.5%		0.40
					79.74
	Add GST (multiplying factor)		0.1405		11.20
					90.94
	Add 15% for contractor's profit and overheads	@	15%		13.64
					104.58
	Add cess	@	1%		1.05
				Total	105.63
		Total cos	st for 1 Mtr.		105.63
				Say,	105.60

Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side having 12 mm air gap including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (both primary and secondary sealant) of approved quality etc.complete as per specification, drawing and direction of Engineer-in-charge.

Codo	Description	Unit	Ougntity	Data	Amount
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.0 Sqm	Sqm			
	a. Materials:				
16018	Double glazed hermetically sealed glazing with 10 wastage	[%] Sqm.	1.10	2180.00	2398.00
16020	Neoprene / EPDM gasket	Mtr.	6.00	28.00	168.00
10020		IVILI .	0.00	26.00	100.00
	b. Labours:	_			
0217	Glazier	Day	0.23	395.00	90.85
0203	Beldar	Day	0.46	310.00	142.60
					2799.45
	Add for sundries & contingencies, perforated aluminium spacers, desiccants etc.	@	5%		139.97
	Total				2939.42
	Add for electricity charges	@	0.5%		14.70
	Add for electricity charges	•	0.570		
	A LL COT (0.4.405		2954.12
	Add GST (multiplying factor)		0.1405		415.05
					3369.17
	Add 15% for contractor's profit and overheads	@	15%		505.38
	·				3874.55
	Add cess	@	1%		38.75
		-		Total	3913.30
		Total	cost for 1	i Otai	3913.30
		i Otal (LUST TUL T	0 -	
				Say,	3,913.30

Providing and fixing stainless steel (SS 304 grade) adjustable friction window stay of approved quality

16.10 with necessary stainless steel screws etc. to the side hung windows etc. complete as per direction of Engineer-in-charge:-

16.10.1	205 x 19 mm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.	No.			_
	a. Materials:				
16026	Stainless steel (SS 304 grade) adjustable friction window stays	No.	1	190.00	190.00

16024	Stainless steal screws 30mm x4mm.	100 Nos.	4	36.00	1.44
0210 0203	b. Labours: Carpenter 2nd class Helper	Day Day	0.014 0.014	395.00 310.00	5.53 4.34 201.31
	Add for sundries & contingencies Total	@	3%		6.04 207.35
	Add for electricity charges	@	0.5%		1.04 208.39
	Add GST (multiplying factor)		0.1405		29.28 237.67
	Add 15% for contractor's profit and overheads	@	15%		35.65 273.32
	Add cess	@	1%	Total	2.73 276.05
		Total co	st for 1 No.	Say,	276.00
16.10.2	255 x 19 mm.			•	
Code	Description	Unit	Quantity	Rate	Amount
16025	Details of cost for 1 No. a. Materials: Stainless steel (SS 304 grade) adjustable friction window stays	No.	1	230.00	230.00
16024	Stainless steal screws 30mm x4mm.	100 Nos.	4	36.00	1.44
0210 0203	b. Labours: Carpenter 2nd class Helper	Day Day	0.014 0.014	395.00 310.00	5.53 4.34 241.31
	Add for sundries & contingencies Total	@	3%		7.24 248.55
	Add for electricity charges	@	0.5%		1.24 249.79
	Add GST (multiplying factor)		0.1405		35.10 284.89
	Add 15% for contractor's profit and overheads	@	15%		42.73 327.62
	Add cess	@	1%	Total	3.28 330.90
		Total co	st for 1 No.	Say,	330.90

16.10.3	355 x 19 mm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.	No.			
	a. Materials: Stainless stool (SS 304 grade) adjustable friction	,			
16027	Stainless steel (SS 304 grade) adjustable friction window stays	¹ No.	1	280.00	280.00
16024	Stainless steal screws 30mm x4mm.	100 Nos.	4	36.00	1.44
	b. Labours:				
0210	Carpenter 2nd class	Day	0.014	395.00	5.53
0203	Helper	Day	0.014	310.00	4.34
	Add Consider a continuo		20/		291.31
	Add for sundries & contingencies	@	3%		8.74
	Total Add for electricity charges	@	0.5%		300.05 1.50
	Add for electricity charges	w	0.5%		301.55
	Add GST (multiplying factor)		0.1405		42.37
	The control of the co				343.92
	Add 15% for contractor's profit and overheads	@	15%		51.59
	·				395.51
	Add cess	@	1%		3.96
				Total	399.47
		Total co	st for 1 No.	Say,	399.50
1/ 10 /	510 x 19 mm.				
Code	Description	Unit	Quantity	Rate	Amount
Code	Details of cost for 1 No.	No.	Quartity	Nate	Amount
	a. Materials:	140.			
1/000	Stainless steel (SS 304 grade) adjustable friction	١		F00.00	500.00
16028	window stays	No.	1	520.00	520.00
16024	Stainless steal screws 30mm x4mm.	100 Nos.	4	36.00	1.44
	b. Labours:				
0210	Carpenter 2nd class	Day	0.014	395.00	5.53
0203	Helper	Day	0.014	310.00	4.34
	·	J			531.31
	Add for sundries & contingencies	@	3%		15.94
	Total				547.25
	Add for electricity charges	@	0.5%		2.74
	Add CST (multiplying factor)		O 140E		549.99 77.27
	Add GST (multiplying factor)		0.1405		627.26
	Add 15% for contractor's profit and overheads	@	15%		94.09
	And 10% for contractor 5 profit and overficads	C	1370		721.35
	Add cess	@	1%		7.21
				Total	728.56
		Total co	st for 1 No.	Say,	728.60
	710 10				
	710 x 19 mm.	11	0+21	D-+-	A ma ot
Code	Description Details of cost for 1 No.	Unit No.	Quantity	Rate	Amount
	a. Materials:	INU.			
4/225	Stainless steel (SS 304 grade) adjustable friction	١ ,.		000.00	000.00
16029	window stays	No.	1	930.00	930.00
16024	Stainless steal screws 30mm x4mm.	100 Nos.	4	36.00	1.44
	b. Labours:				
0210	Carpenter 2nd class	Day	0.014	395.00	5.53
0210	Helper	Day	0.014	310.00	4.34
5200	· · · · · · · · · · · · · · · · · · ·	کس	3.311	5.5.55	941.31
	Add for sundries & contingencies	@	3%		28.24
	Total				969.55
	Add for electricity charges	@	0.5%		4.85
					974.40
	Add GST (multiplying factor)		0.1405		136.90

				1111.30
Add 15% for contractor's profit and overheads	@	15%		166.69
				1277.99
Add cess	@	1%		12.78
			Total	1290.77
	Total	cost for 1 No.	Say,	1,290.80

Providing and fixing aluminium casement windows fastener of required length for aluminium windows

16.11	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. of approved quality complete as per direction of Engineer-in-charge:-						
16.11.1	Anodised aluminium of grade AC 15).						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 1 No. a. Materials:	No.					
16003	Anodised aluminium casement windows fastener	No.	1	45.00	45.00		
16030	Stainless steel screws 25mm x4mm b. Labours:	100Nos.	4	40.00	1.60		
0209	Carpenter 1st class	Day	Day 0.006		2.64 49.24		
	Add for sundries & contingencies Total	@	3%		1.48 50.72		
	Add for electricity charges	@	0.5%		0.25 50.97		
	Add GST (multiplying factor)		0.1405		7.16 58.13		
	Add 15% for contractor's profit and overheads	@	15%		8.72 66.85		
	Add cess	@	1%		0.67		
		Total cos	st for 1 No.	Total Say,	67.52 67.50		
16.11.2	Powder coated aluminium minimum thickness 50 micro	on.					
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 1 No. a. Materials:	No.	,				
16005	Powder coated aluminium casement windows fastener	No.	1	48.00	48.00		
16030	Stainless steel screws 25mm x4mm b. Labours:	100Nos.	4	40.00	1.60		
0209	Carpenter 1st class	Day	0.006	440.00	2.64 52.24		
	Add for sundries & contingencies Total	@	3%		1.57 53.81		
	Add for electricity charges	@	0.5%		0.27 54.08		
	Add GST (multiplying factor)		0.1405		7.60 61.68		
	Add 15% for contractor's profit and overheads	@	15%		9.25 70.93		
	Add cess	@	1%	Total	0.71 71.64		
		Total cost for 1 No.		Say,	71.60		
	Polyester powder coated aluminium minimum thickness	s 50 microi					
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 1 No. a. Materials:	No.					
16004	Polyester powder coated casement windows fastener	No.	1	47.00	47.00		
16030	Stainless steel screws 25mm x4mm b. Labours:	100Nos.	4	40.00	1.60		
0209	Carpenter 1st class	Day	0.006	440.00	2.64 51.24		

Add for sundries & contingencies Total	@	3%		1.54 52.78
Add for electricity charges	@	0.5%		0.26 53.04
Add GST (multiplying factor)		0.1405		7.45
Add 15% for contractor's profit and overheads	@	15%		60.49 9.07
rida 10% for definitation a promitanta ever medas	C	1070		69.56
Add cess	@	1%		0.70
			Total	70.26
	Total co	Total cost for 1 No.		70.30

Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. of approved quality complete as per direction of Engineer-in-charge:-

	Anodised aluminium of grade AC 15).			
Code	Description			
D 1 11 C 1 C 1 N				

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.	No.			
	a. Materials:				
16006	Anodised aluminium round shape handle.	No.	1	54.00	54.00
16030	Stainless steel screws 25mm x4mm	100Nos.	4	40.00	1.60
	b. Labours:				
0209	Carpenter 1st class	Day	0.006	440.00	2.64
					58.24
	Add for sundries & contingencies	@	3%		1.75
	Total				59.99
	Add for electricity charges	@	0.5%		0.30
					60.29
	Add GST (multiplying factor)		0.1405		8.47
					68.76
	Add 15% for contractor's profit and overheads	@	15%		10.31
					79.07
	Add cess	@	1%		0.79
				Total	79.86
		Total cos	st for 1 No.	Sav.	79.90

16.12.2	Powder coated aluminium minimum thickness 50 micro	n.			
Code	Description	Unit	Quantity	Rate	Amount
•	Details of cost for 1 No.	No.			
	a. Materials:				
16008	Powder coated aluminium round shape handle.	No.	1	57.00	57.00
16030	Stainless steel screws 25mm x4mm	100 Nos.	4	40.00	1.60
	b. Labours:				
0209	Carpenter 1st class	Day	0.006	440.00	2.64
	·	-			61.24
	Add for sundries & contingencies	@	3%		1.84
	Total				63.08
	Add for electricity charges	@	0.5%		0.32
					63.40
	Add GST (multiplying factor)		0.1405		8.91
					72.31
	Add 15% for contractor's profit and overheads	@	15%		10.85
					83.16
	Add cess	@	1%		0.83
				Total	83.99
		Total cost for 1 No.		Say,	84.00

16.12.3 Polyester powder coated aluminium minimum thickness 50 micron.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.	No.			
	a. Materials:				
16007	Polyester powder coated aluminium round shape handle.	No.	1	62.00	62.00
16030	Stainless steel screws 25mm x4mm	100Nos.	4	40.00	1.60
	b. Labours:				

0209	Carpenter 1st class	Day	0.006	440.00	2.64 66.24
	Add for sundries & contingencies Total	@	3%		1.99 68.23
	Add for electricity charges	@	0.5%		0.34 68.57
	Add GST (multiplying factor)		0.1405		9.63 78.20
	Add 15% for contractor's profit and overheads	@	15%		11.73 89.93
	Add cess	@	1%	Total	0.90 90.83
		Total co	st for 1 No.	Say,	90.80

Providing and fixing aluminium tubular handle bar of 32 mm outer dia, 3.0 mm thick and 2100 mm long with Stainless Steel screws etc. of approved quality complete as per direction of Engineer-in-charge:-

16 12 1	Anadisad	aluminium	of grade	AC 15)
16 13 1	Anodisea	aluminium	or arade	AC ID I.

Code	Description	Unit	Quantity	Rate	Amount
•	Details of cost for 10 Nos. handle bar	No.	•		•
	a. Materials:				
	Aluminium sections				
	$10x22/7x14(0.032x0.032 - 0.026 \times 0.026) \times 2.10 = 0.0057$				
16001	cum @ 2710 kg/cum = 15.56 kg	Kg.	16.34	200.00	3268.00
	Add 5% wastage = 0.78 kg				
1/010	Total = 16.34 kg	17.	4/04	20.00	(07.0/
16012	Anodising 15 microns on aluminium sections.	Kg.	16.34	39.00	637.26
16024	Stainless steal screws 30mm x4mm.	100Nos.	8	36.00	2.88
	b. Labours:				
0209	Carpenter 1st class	Day	0.125	440.00	55.00
					3963.14
	Add for sundries & contingencies	@	3%		118.89
	Total				4082.03
	Add for electricity charges	@	0.5%		20.41
					4102.44
	Add GST (multiplying factor)		0.1405		576.39
					4678.83
	Add 15% for contractor's profit and overheads	@	15%		701.83
					5380.66
	Add cess	@	1%		53.81
				Total	5434.47
		Total cos	st for 1 No.	Say,	543.40

16.13.2 Powder coated aluminium minimum thickness 50 micron.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Nos. handle bar	No.		•	
	a. Materials:				
	Aluminium sections				
1/001	$10x22/7x14(0.032x0.032 - 0.026 \times 0.026) x2.10 = 0.0057$	I/ a	1/ 2/	200.00	22/0.00
16001	cum @ 2710 kg/cum = 15.56 kg Add 5% wastage = 0.78 kg	Kg.	16.34	200.00	3268.00
	Total = 16.34 kg				
	Expoxy powder coating 50micron on aluminium				
16022	sections.	Kg.	16.34	62.00	1013.08
16024	Stainless steal screws 30mm x4mm.	100Nos.	8	36.00	2.88
	b. Labours:				
0209	Carpenter 1st class	Day	0.125	440.00	55.00
					4338.96
	Add for sundries & contingencies	@	3%		130.17
	Total				4469.13
	Add for electricity charges	@	0.5%		22.35
	Add GST (multiplying factor)		0.1405		4491.48 631.05
					5122.53

Add 15% for contractor's profit and overheads	@	15%		768.38 5890.91
Add cess	@	1%		58.91
			Total	5949.82
	Total	cost for 1 No.	Sav.	595.00

16.13.3 Polyester powder coated aluminium minimum thickness 50 micron.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Nos. handle bar	No.			
	a. Materials: Aluminium sections 10x22/7x14(0.032x0.032 - 0.026 x 0.026) x2.10 = 0.0057				
16001	cum @ 2710 kg/cum = 15.56 kg Add 5% wastage = 0.78 kg Total = 16.34 kg	Kg.	16.34	200.00	3268.00
16021	Polyester powder coating 50 microns on aluminium sections.	Kg.	16.34	68.00	1111.12
16024	Stainless steal screws 30mm x4mm.	100Nos.	8	36.00	2.88
	b. Labours:				
0209	Carpenter 1st class	Day	0.125	440.00	55.00
	Add for a disc 0 continuous		20/		4437.00
	Add for sundries & contingencies Total	@	3%		133.11 4570.11
	Add for electricity charges	@	0.5%		22.85
	Add CCT (acception dispersion of the color)		0.1.405		4592.96
	Add GST (multiplying factor)		0.1405		645.31 5238.27
	Add 15% for contractor's profit and overheads	@	15%		785.74
	Add cess	@	1%		6024.01 60.24
	Aud Cess		1 /0	Total	6084.25
		Total cos	st for 1 No.	Say,	608.40

Providing and fixing 100 mm brass locks (best make of approved quality) with 6 levers without pair of handles for aluminium doors including necessary cutting and making good etc. complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
•	Details of cost for 1 No.	No.	•		•
	a. Materials:				
08166	Brass mortice latch & lock 100 mm with 6 levers	No.	1	280.00	280.00
00100	without pair of handles	140.	•	200.00	200.00
	b. Labours:				
0209	Carpenter 1st class	Day	0.17	440.00	74.80
	Total				354.80
	Add for electricity charges	@	0.5%		1.77
					356.57
	Add GST (multiplying factor)		0.1405		50.10
					406.67
	Add 15% for contractor's profit and overheads	@	15%		61.00
					467.67
	Add cess	@	1%		4.68
				Total	472.35
		Total	cost for 1 No.	Say,	472.40

Providing and fixing anodised aluminium (anodysed transparent or dyed to required shade according to IS: 1868, minimum anodic coating of grading AC 15) sub frame work for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS: 1285 fixed with dash fasener of required dia and size (Dash fastener to be paid seperately.

Code	Description	Unit	Quantity	Rate	Amount
•	Details of cost for 4.082 Kg.	Kg.	•	•	•

a. Materials:

	Aluminium section:				
	External Section of tye frame (Jindal section no				
	TU/3644) V = $2x2.00 = 4.00 m H = 2x1.20 = 2.40 M$ Total				
16001	+ 6.40 m @ 0.607 kg/m = 3.885 kg	Kg.	4.286	200.00	857.20
	Angle cleat 38 x 38 x 4.8 mm 50 mm long 4 x $0.05 =$	3			
	0.20 m @ 0.985 kg/m = 0.197 kg				
	Sub total = 4.082 kg Add 5% wastage = 0.204 kg Total = 4.286 kg				
16012	Anodising 15 microns on aluminium sections.	Kg.	4.286	39.00	167.15
08056	CP brass /Stainless steel screws 20 mm	100Nos.	8	168.00	13.44
00000	b. Labours:	1001103.	Ü	100.00	10.44
0228	Skilled Beldar (for floor rubbing etc.)	Day	0.04	395.00	15.80
0215	Fitter (Grade I)	Day	0.04	395.00	15.80
0203	Beldar	Day	0.02	310.00	6.20
0201	Bandhani	Day	0.01	310.00	3.10
					1078.69
	Add for sundries & contingencies	@	3%		32.36
	Total		0.5%		1111.05
	Add for electricity charges	@	0.5%		5.56 1116.61
	Add GST (multiplying factor)		0.1405		156.88
	Add 031 (Harripfyllig factor)		0.1403		1273.49
	Add 15% for contractor's profit and overheads	@	15%		191.02
					1464.51
	Add cess	@	1%		14.65
				Total	1479.16
		Total co	st for 1 Kg.		362.36
				Say,	362.40

16.16 Extra for applying additional anodic coating AC 25 instead of AC 15 to aluminium extruded sections for fixed portion / for shutters of doors, windows & ventilators.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 41.09 Kg.	Kg.			
	a. Materials:				
16013	Anodising 25 microns on aluminium sections	Kg.	41.09	49.00	2013.41
16012	Anodising 15 microns on aluminium sections.	Kg.	41.09	39.00	1602.51
	Difference of cost			"A"	410.90
	Add for sundries & contingencies	@	3%		12.33
	Total				423.23
	Add for electricity charges	@	0.5%		2.12
					425.35
	Add GST (multiplying factor)		0.1405		59.76
					485.11
	Add 15% for contractor's profit and overheads	@	15%		72.77
					557.88
	Add cess	@	1%		5.58
				Total	563.46
		Total co	st for 1 Kg.		13.71
				Say,	13.70

Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of Grade AC 15) of approved design / pattern, with approved standard section and fixed to the existing window frame with C.P. brass / stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge (only weight of grill to be measured for payment).

Code	Description	Unit	Quantity	Rate	Amount
•	Details of cost for 10 Kg.	Kg.	•		•
	a. Materials:				
	Aluminium grill:				
0201	= 10 kg Add 20% wastage = 2 kg	Kg.	12.00	260.00	3120.00
	Total = 12 kg				
	b. Labours:				

0228 0215 0203 0201	Skilled Beldar (for floor rubbing etc.) Fitter (Grade I) Beldar Bandhani	Day Day Day Day	0.50 0.25 0.25 0.05	395.00 395.00 310.00 310.00	197.50 98.75 77.50 15.50 3509.25
	Add for sundries & contingencies Total	@	3%		105.28 3630.03
	Add for electricity charges	@	0.5%		18.15
	Add GST (multiplying factor)		0.1405		3648.18 512.57 4160.75
	Add 15% for contractor's profit and overheads	@	15%		624.11 4784.86
	Add cess	@	1%	Total	47.85 4832.71
		Т	otal cost for 1		483.27 483.30

Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).

Code	Description	Unit	Quantity	Rate	Amount
3000	Details of cost for 2.10 sqm	sqm			
	a. Materials:	-			
	Glass:				
16033	= 2.10 sqm Add 10% wastage = 0.21 sqm	sqm	2.31	1800.00	4158.00
	Total = 2.31 sqm				
	Stainless steel pivot and spring type fixing	each	2.00	2391.40	4782.80
	[Rate vide Item No. 16.4.1] "A"	eacri	2.00	2391.40	4702.00
	b. Labours:				
0217	Glazier	Day	0.90	395.00	355.50
0203	Beldar	Day	0.90	310.00	279.00
					9575.30
	Add for Sundries, carriage, methylated spirit, sush rog	@	5%		239.63
	cotton & contingencies:[Excluding [A]				
	Total	_	. =		10093.93
	Add for electricity charges [Excluding [A]	@	0.5%		26.56
	A 141 OCT /v. 111 at 1 a Conta A 1 F at all a 1 A 1		0.4.405		10120.49
	Add GST (multiplying factor) [Excluding [A]		0.1405		749.94
	Add 15% for contractor's profit and everboads [10870.43
	Add 15% for contractor's profit and overheads [@	15%		913.14
	Excluding [A]				11783.57
	Add cess[Excluding [A]	@	1%		70.01
	Add 6635[Excluding [A]		1 70	Total	11853.58
		To	tal cost for 1		5644.56
		10	ta. 003t 101 1	Say,	5,644.60
				Juy,	0,044.00

Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).

Code Description Unit Quantity Rate Amount
Details of cost for 6.50 Kg. Kg.

a. Materials:

16001	Aluminium section: Width of the unit 1.60 m Height of the unit 4.20 m Area of single unit = 6.72 sqm Total area 6.72 sqm No. of panels 1 No. Aluminium weight = 6.50 kg/sqm Vision height 2.20 m Add for cleats, sleeves, screws etc. @5% 0.33 Spandrel height 2.0 m Total 6.83 Details of cost for 6.50 kg	Kg.	6.50	200.00	1300.00
16022	Powder coating 50 microns on aluminium sections.	Kg.	6.50	62.00	403.00
0215 0203 0201	b. Labours: Fitter (Grade I) Beldar Bandhani	Day Day Day	0.08 0.02 0.01	395.00 310.00 310.00	31.60 6.20 3.10 1743.90
	Add for sundries & contingencies Total	@	3%		52.32 1799.32
	Add for electricity charges	@	0.5%		9.00
	Add GST (multiplying factor)		0.1405		1808.32 254.07 2062.39
	Add 15% for contractor's profit and overheads	@	15%		309.36 2371.75
	Add cess	@	1%	Total	23.72 23.95.47
		-	Total cost for		368.53 368.50

Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:

- a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:
- b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimentional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.
- c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.
- d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.

- e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge.
- Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub- head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places.
- Note:- 2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accreditated by NABL (National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories.
- (1) Performance Laboratory Test for Air Leakage Test (-50pa to 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr.
- (2) Static Water Penetration Test. (50pa to 1500pa) as per ASTME- 331-09 testing method for a range up to 2000 ml.
- (3) Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml.
- (4) Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTME-330-10 testing method for a range upto 50 mm.
- (5) Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test. Tests to be conducted on site.
- (6) Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 6.72 sqm	sqm			
	a. Materials:				
	Width of the unit 1.6 m				
	Height of the unit 4.2 m				
	Area of Single Unit 6.72 sqm				
	Total area 6.72 sqm No. of Pannels 1				
	Aluminium wight per sqm 6.50 kg/sqm				
	Vision height 2.2				
	Spandrel height 2.0 m				
	Details of cost for 6.72 sqm				
16034	Structural sealant - 6 mm x 12 mm	metre	17.02	32.00	544.64
16035	Spacer tape 6.4 mm thick x 6 mm wide	metre	20.11	21.00	422.31
16036	Weather Sealant - Non staining (600 ml)	each	1.96	400.00	784.00
16037	Weather Sealant - Normal (300 ml)	each	2.55	120.00	306.00
16038	MS Brackets / Aluminum Alloy Brackets	Kg.	9.78	110.00	1075.80
16039	Silicon Gasket in kg (Above 50 g/m)	Kg.	0.78	500.00	390.00
16040	EPDM Gasket in kg (Above 60 g/m)	Kg.	0.70	160.00	112.00
16041	Anchor Fastner - M10	each	2.00	11.00	22.00
16042	SS Bolt with washer of sizes for structural glazing / ACP cladding	each	2.00	38.00	76.00
16059	Baker rod	metre	5.04	5.00	25.20

SS Screws of sizes for structural glazing / ACP Cladding	each	52.00	4.00	208.00
Fire stop	metre	1.60	590.00	944.00
Protective tape	metre	6.72	21.00	141.12
GI flashing - 1.2 mm thick	Kg.	3.96	62.00	245.52
Masking tape	metre	6.72	3.00	20.16
b. Charges				5316.75
For fabrication [LS]	55%	on	5316.75	2924.21
For installation [LS]	50%	on	5316.75	2658.38
For transportation [LS]	35%	on	5316.75	1860.86
For scaffolding / loading / unloading [LS]	20%	on	5316.75	1063.35
Designing charges etc. [LS]	4%	on	5316.75	212.67
				14036.22
Add GST (multiplying factor)		0.1405		1972.09
				16008.31
Add 15% for contractor's profit and overheads	@	15%		2401.25
				18409.56
Add cess	@	1%		184.10
			Total	18593.66
	То	tal cost for 1	l sqm	2766.91
			Say,	2,766.90
	Fire stop Protective tape GI flashing - 1.2 mm thick Masking tape b. Charges For fabrication [LS] For installation [LS] For transportation [LS] For scaffolding / loading / unloading [LS] Designing charges etc. [LS] Add GST (multiplying factor) Add 15% for contractor's profit and overheads	Fire stop Protective tape GI flashing - 1.2 mm thick Masking tape b. Charges For fabrication [LS] For installation [LS] For transportation [LS] For scaffolding / loading / unloading [LS] Designing charges etc. [LS] Add GST (multiplying factor) Add 15% for contractor's profit and overheads @ Add cess @	Fire stop Protective tape GI flashing - 1.2 mm thick Masking tape B. Charges For fabrication [LS] For installation [LS] For transportation [LS] For scaffolding / loading / unloading [LS] Designing charges etc. [LS] Add GST (multiplying factor) Add 15% for contractor's profit and overheads metre 6.72 B. Kg. 3.96 metre 6.72 b. Charges For fabrication [LS] For so, on For installation [LS] For scaffolding / so, on For scaffolding / loading / unloading [LS] For scaffolding / loading / unloading loading / unloading loading / unloading loading / unloading loading / unloading loading / unloading loading / unloading l	Fire stop Protective tape GI flashing - 1.2 mm thick Masking tape Born fabrication [LS] For fabrication [LS] For transportation [LS] For scaffolding / loading / unloading [LS] Designing charges etc. [LS] Add GST (multiplying factor) Add 15% for contractor's profit and overheads Add cess metre 6.72 21.00 Kg. 3.96 62.00 metre 6.72 3.00 b. Ckg. 3.96 62.00 metre 6.72 3.00 b. Charges For fabrication [LS] 55% on 5316.75 50% on 5316.75 20% on 5316.75 Add GST (multiplying factor) Add 15% for contractor's profit and overheads @ 15% Total Total Total cost for 1 sqm

Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthned clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. "(Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2) "For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm."

(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25 - 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 6.72 sqm a. Materials: Width of the unit 1.60 m Height of the unit 4.20 m Area of single unit = 6.72 sqm Total area 6.72 sqm No. of panels 1 No. Area of glass deducting area of gap / grove 5% 6.38 sqm Vision height 2.2 m Wastage 10% 0.638 sqm Spandrel height 2.0 m Area of glass 7.02 sqm Details of cost for 6.72 sqm	sqm			
16046 16047	6 mm thick high performance glass 6 mm thick clear heat strengthened glass b. Charges	sqm sqm	7.02 7.02	1750.00 660.00	12285.00 4633.20
	Insurance charges	1%	on	16918.20	169.18
	Fabrication charges including silicon sealant, baker rod, desecant etc.	25%	on	16918.20	4229.55
	Transportation including loading and unloading	1%	on	16918.20	169.18 21486.11
	c. Sundries including water /Eelctrical charges	3%	on	16918.20	
	Add GST (multiplying factor)		0.1405		3109.36 25240.05

Add 15% for contractor's profit and overheads @ 15% 3786.01 29026.06

Add cess @ 1% 290.26 Total 29316.32

Total cost for 1 sqm 4362.55 Say, 4,362.60

Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in-Charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.76 sqm	sqm			
	a. Materials:				
	Width of the unit 1.6 m				
	Shutter Height of the unit 1.1 m				
	Outer glass 6 mm Area of Single Unit 1.76 sqm Inner				
	glass 6 mm				
	Aluminium wight per sqm 7.78 kg/sqm Aluminium				
	weight = 13.7 kg				
	No. of Locking point 4 No.				
	Total 67 kg				
	Wedge block 1 No.				
	Hinge size 0.512 m				
	Details of cost for 1.76 sqm				
16048	6 mm thick clear heat strengthened glass	each	3.00	130.00	390.00
16040	EPDM Gasket in kg (Above 60 g/m)	Kg.	0.80	160.00	128.00
16043	SS Screws of sizes for structural glazing / ACP Cladding	each	49.00	4.00	196.00
16044	Protective tape	metre	1.76	21.00	36.96
16049	ARMS GS HD- TOP HUNG - 20" TYPE P - COUPLE	pair	1.00	1500.00	1500.00
16050	Connecting block	each	2.00	40.00	80.00
16051	Curtain wall sticker	each	4.00	100.00	400.00
16052	Adjustable Fastening Pawl	each	4.00	40.00	160.00
16053	Corner drive	each	2.00	300.00	600.00
16054	Top wedge block	each	1.00	130.00	130.00
	b. Charges				
	For fabrication	20%	on	3620.96	724.19
					4345.15
	c. Sundries including water /Eelctrical charges	3%	on	3620.96	130.35
					4475.50
	Add GST (multiplying factor)		0.1405		628.81
					5104.31
	Add 15% for contractor's profit and overheads	@	15%		765.65
					5869.96
	Add cess	@	1%		58.70
				Total	5928.66
		To	otal cost for 1	sqm	3368.56
				Say,	3,368.60

Providing, fabricating and supplying shadow box of required size and shape, for fixing in the spandrel portion of the structural glazing, in linear as well as curvilinear portions of the building by providing semi -rigid, inorganic, non-combustible fibre glass wool insulation 50 mm thick, conforming to IS: 8183 and BS: 3958 Part 5. The insulation layer shall have facing (factory bonded on surface # 1 of the fibre glass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5 mm and nominal mass not less than 60 gm / sqm, made of randomly oriented glass fibres distributed in a binder by a wet-lay process including fixing 1.5 mm thick solid aluminum sheet backing using, 6 mm thick cement board including SS rivets, nuts, bolts, washers etc complete.

Code Description Unit Quantity Rate Amount
--

	Details of cost for 3.23 sqm	sqm			
	a. Materials:				
	Width of the unit 0.86 m				
	Height of the unit 3.75 m				
	Area 3.23 sqm				
	Area including wastage @5% 3.39 sqm				
	Details of cost for 3.23 sqm				
16055	Glass wool density 48 kg/sqm with Black Glass Tissue (BGT)	sqm	3.39	255.00	864.45
16063	GI/Aluminium Sheet (0.8 mm thick)	Kg.	21.30	60.00	1278.00
16056	SS Screws - # 8 x 19	each	32.00	10.00	320.00
16057	Weather Sealant - DC 789	cartridge	2.00	130.00	260.00
16058	Cement Board	sqm	3.39	250.00	847.50
	b. Charges				
	For fabrication	10%	on	3569.95	357.00
	For installation	10%	on	3569.95	357.00
	For clips & adhesives	20%	on	3569.95	713.99
					4997.94
	c. Sundries including water /Eelctrical charges	3%	on	3569.95	149.94
					5147.88
	Add GST (multiplying factor)		0.1405		723.28
					5871.16
	Add 15% for contractor's profit and overheads	@	15%		880.67
		_			6751.83
	Add cess	@	1%	-	67.52
		т.		Total	6819.35
		10	tal cost for	•	2111.25
				Say,	2,111.30

Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. ,all complete for the required performances as specified, as per the Architectural drawings, as per the approved shop drawings, as specified, and as directed by the Engineer- inCharge. "For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevent Item*).

(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 3.23 sqm	sqm			
	a. Materials:				
	Width of the unit 0.86 m				
	Height of the unit 3.75 m				
	Area 3.23 sqm				
	Area including wastage @5% 3.39 sqm				
	Details of cost for 3.23 sqm				
16046	6 mm thick High performance glass	sqm	3.39	1750.00	5932.50
	b. Charges				
	For fabrication including silicon sealant, baker rod	′ 18%	on	5932.50	1067.85
	desecant etc.	1070	OH	3732.30	1007.03
	For insurance charges	1%	on	5932.50	59.33
	For trasportation including loading & unloading	10%	on	5932.50	593.25
					7652.93
	c. Sundries including water /Eelctrical charges	3%	on	5932.50	229.59
					7882.52
	Add GST (multiplying factor)		0.1405		1107.49
					8990.01
	Add 15% for contractor's profit and overheads	@	15%		1348.50
					10338.51
	Add cess	@	1%		103.39

16.24

Total 10441.90
Total cost for 1 sqm 3232.79
Sav. 3.232.80

Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite

16.25 Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including:

- (a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.
- (b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metalic colour of approved shades made out of aluminium composite panel material of approved thickness and specification. The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.
- (c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge.

However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places."

4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 6.72 sqm	sqm			
	a. Materials:				
	Width of the unit 1.6 m				
	Height of the unit 4.2 m				
	Area of Single Unit 6.72 sqm				
	Total area 6.72 sqm No. of Pannels 1				
	Area including wastage @5% 7.06 sqm				
	Aluminium wight per sqm 4.50 kg/sqm				
	Details of cost for 6.72 sqm		0.00	400.00	000 00
	Weather Sealant - Non staining (600 ml)	each	2.00	400.00	800.00
	Weather Sealant - Normal (300 ml)	each	2.00	120.00	240.00
	MS Brackets / Aluminum Alloy Brackets	Kg.	10.00	110.00	1100.00
	EPDM Gasket in kg (Above 60 g/m) Anchor Fastner - M10	Kg. each	0.70 2.00	160.00 11.00	112.00 22.00
	SS Bolt with washer of sizes for structural glazing / ACP	еасп	2.00	11.00	22.00
10047	cladding	each	2.00	38.00	76.00
	Baker rod	metre	5.00	5.00	25.00
		metre			
16043	SS Screws of sizes for structural glazing / ACP Cladding	each	49.00	4.00	196.00
16044	Protective tape	metre	7.00	21.00	147.00
16045	GI flashing - 1.2 mm thick	Kg.	4.00	62.00	248.00
16060	4 mm thick ACP	sqm	7.06	1120.00	7907.20
	b. Charges				
	For fabrication	30%	on	10873.20	3261.96
	For installation	30%	on	10873.20	3261.96
	For transportation	10%	on	10873.20	1087.32
	For scaffolding / loading / unloading	10%	on	10873.20	1087.32
	Designing charges etc.	4%	on	10873.20	434.93

c. Sundries including water /Eelctrical charges	3'	% on	20006.69	20006.69 600.20 20606.89
Add GST (multiplying factor)		0.1405		2895.27
Add 15% for contractor's profit and overheads	@	15%		23502.16 3525.32
Add cess	@	1%		27027.48 270.27
		Total cost for	Total 1 sqm Say,	27297.75 4062.17 4,062.20

16.25.2 3mm thick aluminium composite panel material consisting of 2.25mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 6.72 sqm	sqm			
	a. Materials:				
	Width of the unit 1.6 m				
	Height of the unit 4.2 m				
	Area of Single Unit 6.72 sqm				
	Total area 6.72 sqm No. of Pannels 1				
	Area including wastage @5% 7.06 sqm				
	Aluminium wight per sqm 4.50 kg/sqm				
	Details of cost for 6.72 sqm				
16036	Weather Sealant - Non staining (600 ml)	each	2.00	400.00	800.00
16037	Weather Sealant - Normal (300 ml)	each	2.00	120.00	240.00
16038	MS Brackets / Aluminum Alloy Brackets	Kg.	10.00	110.00	1100.00
16040	EPDM Gasket in kg (Above 60 g/m)	Kg.	0.70	160.00	112.00
16041	Anchor Fastner - M10	each	2.00	11.00	22.00
16042	SS Bolt with washer of sizes for structural glazing / ACP cladding	each	2.00	38.00	76.00
16059	Baker rod	metre	5.00	5.00	25.00
16043	SS Screws of sizes for structural glazing / ACP Cladding	each	49.00	4.00	196.00
16044	Protective tape	metre	7.00	21.00	147.00
16045	GI flashing - 1.2 mm thick	Kg.	4.00	62.00	248.00
16061	3 mm thick ACP	sqm	7.06	870.00	6142.20
	b. Charges				
	For fabrication	30%	on	9108.20	2732.46
	For installation	30%	on	9108.20	2732.46
	For transportation	10%	on	9108.20	910.82
	For scaffolding / loading / unloading	10%	on	9108.20	910.82
	Designing charges etc.	4%	on	9108.20	364.33
					16759.09
	c. Sundries including water /Eelctrical charges	3%	on	16759.09	502.77
					17261.86
	Add GST (multiplying factor)		0.1405		2425.29
	Add 45% Consideration of Chandra and Chandra		4 = 0/		19687.15
	Add 15% for contractor's profit and overheads	@	15%		2953.07
	Add assa		10/		22640.22
	Add cess	@	1%	Total	226.40
		т.	otal cost for 1	Total	22866.62
		10	ינמו 2051 101	•	3402.77
				Say,	3,402.80

Design supply & installation of suspended Spider Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS-316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/ beams by means of SS-316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof.

The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured.

Code Description Unit Quantity Rate Amount
--

	Details of cost for 35.28 sqm Façade area: Width 7.00m Height 5.07 m Total = 35.28 sqm of 1 panel. Fin.area: Width 0.40 m, Height = 2.3 Total = 4.6 sqm For 5 panel A. Materials: (A) Spider fitting	sqm			
16064	4 point façade glass bracket without flat head bolts	each	5	3500.00	17500.00
16065	2 point façade glass bracket (wall mounted without flat head bolts)	each	2	1750.00	3500.00
16066	1 point façade glass bracket (wall mounted without flat head bolts)	each	12	1350.00	16200.00
16067 16068	Flate head bolt for brackets of spider glazing 400 mm long fin plate without fastners (B) Local Hardware Anchor Fastner - M10	each pair	36 5	680.00 6200.00	24480.00 31000.00
16041	For one point spider fitting =12x2=24 nos For two point spider fitting =2x2=4 nos For 400mm fin plates =5x6=30 nos Total=58 nos	each	58	11.00	638.00
16070	Non staining water resistant Clear silicon filling in gap Vr. joints between glasses = 7x5.04=35.28m Hr.joints between glass & wall = 2x7.00=14.00 m	metre	49.28	67.00	3301.76
16069	Total=49.28 m Stainless steel U Channel of size (50x25x2mm) (C) Glass Area	metre	7.00	165.00	1155.00
16033	Toughened glass 12 mm thickness with hole =7.00x5.04=35.28 sqm + 1.76 sqm (Add 5% Wastage) Total = 37.04 sqm	sqm	37.04	1800.00	66672.00
16071	21mm thick clear toughened Laminated glass for fins with holes = 5x2.30x.40=4.60sqm + 0.23sqm (Add 5% Wastage) Total = 4.83 sqm	sqm	4.83	6300.00	30429.00
	D. Charges For Baker Rod, Screw &Accessories For Labour For Scaffolding	20% 5% 2%	on on on	5094.76 195894.71 195894.71	1018.95 9794.74 3917.89
	c. Sundries including water /Eelctrical charges	3%	on	209607.34	209607.34 6288.22
	Add GST (multiplying factor)		0.1405		215895.56 30333.33
	Add 15% for contractor's profit and overheads	@	15%		246228.89 36934.33
	Add cess	@	1%	Tatal	283163.22 2831.63
		То	tal cost for 1	Total sqm Say,	285994.85 8106.43 8,106.40

Sub Head: 17.0 Water Proofing Work

- 1 Description of items has been given very briefly. Relevant clauses of CPWD's specifications may be referred for detailed
 - (i) IS-73: Specification for paving bitumen.
 - (i) IS-702: Specification for industrial bitumen.
 - (ii) IS-1322: Specification for bitumen felts for water proofing and damp proofing.
 - (iii) IS-1580: Specification for bituminous compounds for water proofing and caulking purpose.
 - (iv) IS-2645: Specification for integral water proofing compounds for cement mortar and concrete.
 - (v) IS-3384: Specification for bitumen primer for water proofing and damp proofing.
 - (vi) IS-7193: Specification for glass fibre base coal tarpitch & bitumen felts (Amendment I).
- The rates are inclusive of form work i.e. inclusive of all necessary centring / staging, shuttering, scaffolding etc., removal of form work and with all such arrangements as specified in CPWD's specification.
- Sand can be either coarse or fine as required/available. Here, provision of fine sand is considered only due to non-availability of coarse sand in Tripura. However, design of concrete dictates for use of coarse sand, then seperate analysis may be made as per site condition.
- 4 Manual mixing of cement mortars have been considered here. However, for using of mechanical mixer, the cost will differ with manual mixing as per item no.3.17.
- Green work shall be protected from the effects of sun and rain by suitable covering and also from damage, mortar dropping etc.during the execution of the work. Masonry work in cement or composite mortar shall be kept constantly moist on all faces for a minimum period of seven days.

17.1	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground evel for under ground structures as directed by Engineer-in-Charge and consisting of:								
	(i) Ist layer of 22 mm to 25 mm thick approved and specified 1:3 (1 cement : 3 fine sand) mixed with water proofing compouver the leveling course (leveling course to be paid separately water proofing compound.	ound confo	rming to IS:26	45 in the recomn	nended proportion				
	(ii) 2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 fine sand) mixed with water proofing compound in recommended proportions.								
	(iii) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cudm/sqm thoroughly embeddin the 2nd layer.								
17.1.1	Using rough kota stone.								
Code	Description	Unit	Quantity	Rate	Amount				
Oouc	Details of cost for 10 Sqm.	sqm	Quantity	Rute	Amount				
	a. Materials:	39							
	1st layer Cement mortar 1:3 for fixing of stone								
	=10 x 0.025 = 0.25								
3.1.3	Rate as per Item No. 3.1.3 of SH: Mortar	cum	0.250	R4026.43	R1006.61				
	Kota stone slab = 10 sqm Wastage @ 10% = 1 sqm Total =10 + 1 = 11 sqm								
17010	Kota stone slab 25mm thick (rough chiseled)	sqm	11.00	R290.00	R3190.00				
17010	Cement mortar 1:3 = 10x0.025 = 0.25cum		11122	1120100					
	Wastage @ 12% = 0.03cum								
	Total = 0.28cum	cum	0.280	R4026.43	R1127.40				
3.1.3	Rate as per Item No. 3.1.3 of SH: Mortar for slurry Bed = 2x10.00 @ 2kg/cum = 40.00kg Joints 4x3.7x0.02x0.037 = 0.011cum + 25x0.6x0.02x0.037 = 0.011cum = 0.022cum @ 1440 kg/cum = 31.68kg Total = (40.00 + 31.68)kg = 71.88kg or 0.72t								
03001	Portland Cement	tonne	0.072	R5800.00	R417.60				
04015	Water proofing materials Mortar=0.25 + 0.28= 0.53cum Cement in 0.53cum @ 5.1 q/cum = 2.7 quintal Cement in slurry = 0.73 quintal								
	Total = 3.43 quintal @ 1kg for 50kg of cement = 6.86kg	kg	6.860	R37.00	R253.82				
04007	Stone Aggregate (Single size) : 12.5mm nominal size @ 8								
	cudm/sqm 1x10.3x8x1/1000 = 0.08cum	cum	0.080	R4785.00	R382.80				
	b. Carriage:								
0469	Cartage 11x0.025 @ 2330kg/cum = 0.64t Carriage of stone blocks white & red stone & kota stone slab	tonne	0.640	R102.47	R65.58				
0421	Portland Cement	tonne	0.072	R102.47	R7.38				
0405	Stone aggregate below 40 mm nominal size	cum	0.080	R147.57	R11.81				
0.00	c. Labour:								
	Labour for base mortar & kota stone laying i/c slurry job		1						
0222	Mason (for plain stone work) 2nd class	Day	1.200	R395.00	R474.00				
0203	Belder	Day	1.000	R310.00	R310.00				
0212	Coolie	Day	1.000	R310.00	R310.00				
	Labour for top layer & spreading stone grit			_					
0222	Mason (for plain stone work) 2nd class	Day	1.080	R395.00	R426.60				

0203	Belder	Day	1.080	R310.00	R334.80
0205	Waterman	Day	0.450	R310.00	R139.50
				Total	R8457.90
	Add for sundries and contingencies	@	3.00%	R8457.90	R253.74
					R8711.64
	Add for water charges	@	1.00%	R8711.64	R87.12
					R8798.76
	Add GST (multiplying factor)		0.1405	R8798.76	R1236.23
					R10034.99
	Add for overheads and contractor's profit	@	15.00%	R10034.99	R1505.25
					R11540.24
	Add cess	@	1.00%	R11540.24	R115.40
		Total cost for 10 sqm		10 sqm	R11655.64
		-	Total cost for 1 sqm		R1165.56
				Say,	R1165.60

Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 fine sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :

	recommended proportion complete at all levels and as directed by Engineer-in-charge :						
17.2.1	Using rough kota stone.						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 Sqm.	sqm					
	a. Materials:						
	1st layer						
	Kota stone slab = 10 sqm						
	Wastage @ 10% = 1 sqm						
17010	Total =10 + 1 = 11 sqm		11.000	R290.00	R3190.00		
17010	Kota stone slab 25mm thick (rough chiseled) [Cement slurry for jointing (6x3.70 = 22.70m) + (7x2.78 =	sqm	11.000	R290.00	K3190.00		
	19.46m) = 41.66x0.025x0.012= 0.013cum] +						
	[Cement slurry for filling 20mm gap 10x0.02 = 0.200cum]						
	=0.213cum @ @ 1440 kg/cum = 306.70kg or 0.307t						
	=0.213cum @ 1440 kg/cum = 306.70kg or 0.307t = 0.310t say						
03001	Portland Cement	tonne	0.310	R5800.00	R1798.00		
	Cement plaster 1:3 with neat cement punning	torine	0.310	13000.00	1(1790.00		
12.3.1 &	· · ·	cam	10.000	R275.90	R2759.00		
12.3	(Rate as per Item No. 12.3.1 & 12.5 of SH: Finishing) A Water proofing materials	sqm	10.000	R275.90	N2139.00		
	Cement slurry =0.31t = 310kg						
04015	Cement sldffy =0.3 ft = 310kg Cement plaster 1:3 @ 13.62 q/100 Sqm = 136.20kg						
	Total = 446.20kg @ 1kg for 50kg of cement = 8.90kg	kg	8.900	R37.00	R329.30		
	b. Carriage:	ĸg	0.700	1107.00	11020.00		
0469	Cartage 11x0.025 @ 2330kg/cum = 0.64t						
	Carriage of stone blocks white & red stone & kota stone slab	tonne	0.640	R102.47	R65.58		
0421	Portland Cement	tonne	0.310	R102.47	R31.77		
	c. Labour:						
	Labour for fixing of Kota stone and applying cement & applying						
	slurry						
0222	Mason (for plain stone work) 2nd class	Day	3.000	R395.00	R1185.00		
0203	Belder	Day	3.000	R310.00	R930.00		
0212	Coolie	Day	1.000	R310.00	R310.00		
				Total	R10598.65		
	Add for sundries and contingencies except A	@	3.00%	R7839.65	R235.19		
					R10833.84		
	Add for water charges except A	@	1.00%	R8074.84	R80.75		
			1	50455	R10914.59		
	Add GST (multiplying factor) except A		0.1405	R8155.59	R1145.86		
	Add for overland and control of the		15.00%	D0004 45	R12060.45		
	Add for overheads and contractor's profit except A	@	15.00%	R9301.45	R1395.22		
	Add coop except A		1.00%	D10606 67	R13455.67 R106.97		
	Add cess except A	@	1.00% Total cost for	R10696.67			
			Total cost for		R13562.64 R1356.26		
			i otai cost ioi				
				Say,	R1356.30		

17.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like as required as per direction of the Engineer-in-charge, consisting of :
	(i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.
	(ii) 2nd course of 20 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.

(iii) 3rd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.

	(iv) 4th course of 400 micron thick PVC sheet. (Overlaps at j	oints of PVC	sheet should	be 100 mm wide a	and pasted to each
Code	other with bitumen @ 1.7 kg/ sqm). Description	Unit	Quantity	Rate	Amount
Oouc	Details of cost for 10 Sqm.	sqm	Quartity	Rute	Amount
	a. Materials:	34			
	Cement slurry @ 4.4 kg/sqm = 44.00 kg = 0.044t				
03001	Portland Cement	tonne	0.044	R5800.00	R255.20
	Cement plaster 1:3 (20mm thick)				
3.1.3	Rate as per item No. 3.1.3 of SH: Mortars	cum	0.224	R4026.43	R901.92
	Blown type petroleum bitumen of penetration 85/25 of				
05006	approved quality	tonne	0.017	R40138.00	R682.35
11036		sqm	10.000	R40.00	R400.00
11000	Polyvinyl chloride sheet 400 micron thick	Sqiii	10.000	14-0.00	14400.00
	@ 1 kg per 50kg of cement used Cement slurry = 44kg				
04015	Cement plaster 1:3 = 10 x (13.62x100)/100 = 136.2kg				
	Total = 180.2 kg/ 50 = 3.60kg	kg	3.600	R37.00	R133.20
	b. Carriage:	···g	0.000		
0421	Portland Cement	tonne	0.044	R102.47	R4.51
0472	Tar/ Bitumen	tonne	0.017	R102.47	R1.74
0472	c. Labour:	tornic	0.017	1(102.41	1(1,14
0218*	Mason (average)	Day	0.940	R420.00	R394.80
0212	Coolie	Day	1.020	R310.00	R316.20
0205	Waterman	Day	1.100	R310.00	R341.00
0203	Painter	Day	0.200	R395.00	R79.00
0203	Belder	Day	1.330	R310.00	R412.30
0225	Mistry	Day	0.060	R395.00	R23.70
0223	ivii y	Day	0.000	Total	R3945.92
	Add for sundries and contingencies in/c cost for carriage of Water proofing material & cost of scaffolding etc.	@	4.50%	R3945.92	R177.57
					R4123.49
	Add for water charges	@	1.00%	R4123.49	R41.23
	i i				R4164.72
	Add GST (multiplying factor)		0.1405	R4164.72	R585.14
					R4749.86
	Add for overheads and contractor's profit	@	15.00%	R4749.86	R712.48
					R5462.34
	Add cess	@	1.00%	R5462.34	R54.62
			Total cost for	10 sqm	R5516.96
			Total cost for	1 sqm	R551.70
				Say,	R551.70

	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints
17.4	between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete as
	required as per direction of the Engineer-in-charge:
17 1 1	Commented with comment high (225 many wide 0.11 many thick)

	required as per direction of the Engineer-in-charge:						
17.4.1	Serrated with central bulb (225 mm wide, 8-11 mm thick)						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 100 Metres	metre					
	a. Materials:						
17010	Water stops Serrated with central bulb (225 mm wide, 8-11 mm						
17012	thick)	metre	100.00	R240.00	R24000.00		
	b. Labour:						
0203	Belder	Day	2.000	R310.00	R620.00		
				Total	R24620.00		
	Add for sundries and contingencies in/c cost of wires etc.	@	3.00%	R24620.00	R738.60		
					R25358.60		
	Add for water charges	@	1.00%	R25358.60	R253.59		
					R25612.19		
	Add GST (multiplying factor)		0.1405	R25612.19	R3598.51		
					R29210.70		
	Add for overheads and contractor's profit	@	15.00%	R29210.70	R4381.61		
					R33592.31		
	Add cess	@	1.00%	R33592.31	R335.92		
		Total cost for 100 metre		R33928.23			
·		T	otal cost for	1 metre	R339.28		
				Say,	R339.30		

17.4.2	Dumb bell with central bulb (180 mm wide, 8 mm thick)				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100.00 Metres	metre			
	a. Materials:				
17013	Water stops Dumb bell with central bulb	metre	100.00	R180.00	R18000.00
	b. Labour:				
0203	Belder	Day	2.000	R310.00	R620.00
				Total	R18620.00

Add for sundries and contingencies in/c cost of wires etc.	@	3.00%	R18620.00	R558.60
				R19178.60
Add for water charges	@	1.00%	R19178.60	R191.79
				R19370.39
Add GST (multiplying factor)		0.1405	R19370.39	R2721.54
				R22091.93
Add for overheads and contractor's profit	@	15.00%	R22091.93	R3313.79
				R25405.72
Add cess	@	1.00%	R25405.72	R254.06
	Total cost for 100 metre Total cost for 1 metre		00 metre	R25659.78
			1 metre	R256.60
		_	Say,	R256.60

17.4.3	Kickers (320 mm wide, 5 mm thick)				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 Metres	metre			
	a. Materials:				
17014	Kickers	metre	100.00	R225.00	R22500.00
	b. Labour:				
0203	Belder	Day	2.000	R310.00	R620.00
				Total	R23120.00
	Add for sundries and contingencies in/c cost of wires etc.	@	3.00%	R23120.00	R693.60
					R23813.60
	Add for water charges	@	1.00%	R23813.60	R238.14
					R24051.74
	Add GST (multiplying factor)		0.1405	R24051.74	R3379.27
					R27431.01
	Add for overheads and contractor's profit	@	15.00%	R27431.01	R4114.65
					R31545.66
	Add cess	@	1.00%	R31545.66	R315.46
		Total cost for 100 metre		00 metre	R31861.12
		Total cost for 1 metre		metre	R318.61
				Say,	R318.60

- Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound, as directed by Engineer-in-Charge and consisting of applying:
 - (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours.
 - (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	sqm			
	a. Materials:				
	Cement = 10 x (0.488+0.242) = 7.30Kg				
	Sealing fillets = 10 x 0.5 = 5.00Kg				
	Total = 12.30Kg = 0.012 tonne				
03001	Portland Cement	tonne	0.012	R5800.00	R69.60
	Bonding material = 1.6 kg x 30 x 2 = 96.00Kg Bitumen (blown/ residual type) = 10 x (0.25 + 0.126) = 3.79Kg				
	Sealing fillets = 10 x 0.10 kg/sqm = 1.00Kg				
	Wastage @ 5% on 4.79Kg = 0.24Kg				
	Total = 5.03Kg Say 5.00Kg				
17018	Polymer modified cementation coating	kg	5.000	R160.00	R800.00
	b. Carriage of cement:				
0421	Portland Cement	tonne	0.012	R102.47	R1.23
	c. Labour:				
0218*	Mason (average)	Day	2.000	R420.00	R840.00
0203	Belder	Day	2.000	R310.00	R620.00
0205	Waterman	Day	0.250	R310.00	R77.50
				Total	R2408.33
	Add for sundries and contingencies in/c cost of brushes etc.	@	4.00%	R2408.33	R96.33
					R2504.66
	Add for water charges	@	1.00%	R2504.66	R25.05
					R2529.71
	Add GST (multiplying factor)		0.1405	R2529.71	R355.42
					R2885.13
	Add for overheads and contractor's profit	@	15.00%	R2885.13	R432.77
			1		R3317.90
	Add cess	@	1.00%	R3317.90	R33.18
			Total cost for 1		R3351.08
			Total cost for	1 sam	R335.11

R335.10 Say Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing 17.6 cement compound, as directed by Engineer-in-Charge and consisting of applying: (a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sgm and fine sand @ 1.289 kg/sgm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. For the purpose of measurement the entire treated surface will be measured. Code Description Quantity Rate Amount Details of cost for 10 Sqm. sqm a. Materials: Cement = $10 \times (1.289 + 0.488) = 17.77 \text{Kg}$ Sealing fillets @ 10%= 1.77Kg Total = 19.54Kg = 0.020 tonne R5800.00 03001 Portland Cement tonne 0.020 R116.00 Bonding material = 1.6 kg x 30 x 2 = 96.00 KgBitumen (blown/ residual type) = 10 x (0.253 + 0.67) = 9.23Kg Wastage @ 5% = 0.46Kg Total = 9.69Kg Polymer modified cementation coating 17018 kg 9.690 R160.00 R1550.40 Fibre Glass cloth = 10.00 Sqm Wastage @ 10% = 1.00 Sqm Total = 11.00 Sqm17019 Fibre Glass cloth 11.000 R52.00 R572.00 sam b. Carriage of cement: 0421 Cement tonne 0.020 R102.47 R2.05 c. Labour: R420.00 R840.00 0218* Mason (average) Day 2.000 R310.00 R310.00 0203 Belder Day 1.000 R310.00 0205 Waterman Dav Total R3467.95 R3467.95 Add for sundries and contingencies in/c cost of brushes etc. **@** 4.00% R138.72 R3606.67 Add for water charges **@** 1.00% R3606.67 R36.07 R3642.74 Add GST (multiplying factor) 0.1405 R3642.74 R511.80 R4154.54 R623.18 R4154.54 Add for overheads and contractor's profit @ 15.00% R4777.72 Add cess @ 1.00% R4777.72 R47.78 Total cost for 10 sam R4825.50 Total cost for 1 sqm R482.55 R482.60 Providing and laying integral cement based water proofing treatment including preparation of surface as required for 17.7 treatment of roofs, balconies, terraces etc, as directed by Engineer-in-Charge and consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement: 5 fine sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 fine sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 fine sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge: With average thickness of 120 mm and minimum thickness at khurra as 65 mm. 17.7.1 Description Unit Quantity Rate Amount

	Details of cost for 10 Sqm.	sqm			
	i) Cement slurry				
03001	Portland Cement	tonne	0.0275	R5800.00	R159.50
	ii) Cement mortar 1:5 (1 cement : 5 fine sand)				
3.1.5	Rate as per Item No. 3.1.5 of SH: Mortar	cum	0.224	R2845.94	R637.49
	i) Roof treatment with brick bats and cement mortar				
	a. Materials:		2.212	5015000	
20038	Brick Aggregate (single size) : 63mm nominal size	cum	0.940	R3150.00	R2961.00
0404	Carriage of brick aggregate	cum	0.940	R159.56	R149.99
	Cement mortar 1:5 (1 cement : 5 fine sand)				
3.1.5	Rate as per Item No. 3.1.5 of SH : Mortar	cum	0.500	R2845.94	R1422.97
	b. Labour:				
0203	Belder	Day	1.750	R310.00	R542.50
0205	Waterman	Day	0.280	R310.00	R86.80
0219	Mason (brick layer) 1st class	Day	0.050	R440.00	R22.00
0220	Mason (brick layer) 2nd class	Day	0.050	R395.00	R19.75
0224	Mate	Day	0.040	R310.00	R12.40
	Extra labour for ramming				
0203	Belder	Day	0.250	R310.00	R77.50
	iv) Cement slurry				
03001	Portland Cement	tonne	0.0275	R5800.00	R159.50
0203	Belder	Day	0.200	R310.00	R62.00
	v) 20mm Cement plaster 1:4 (1 cement : 4 fine sand)				
12.3.2	Rate as per Item No. 12.3.2 of SH : Finishing A	sqm	10.000	R209.60	R2096.00
	vi) Water proofing compound (27.50+27.50+69.40+124.00 =) 248.40 kg @ 1 kg per bag of				
	cement				
04015	Water proofing materials	kg	5.000	R37.00	R185.00
	Extra for making chequers for 10 sqm				
17011	Fibre glass tissue reinforcement Type II Grade I	Sqm.	10.500	R100.00	R1050.00
0220	Mason (brick layer) 2nd class	Day	0.360	R395.00	R142.20
0203	Belder	Day	0.360	R310.00	R111.60
0220	Mason (brick layer) 2nd class	Day	0.540	R395.00	R213.30
0203	Belder	Day	0.540	R310.00	R167.40
0205	Waterman	Day	0.450	R310.00	R139.50
				Total	R10418.40
	Add for sundries and contingencies in/c cost of labour for	@	3.00%	R8322.40	R249.67
	laying 20mm bed layer i.e. total except A		0.0070	110022.10	
					R10668.07
	Add for water charges except A	@	1.00%	R8572.07	R85.72
					R10753.79
	Add GST (multiplying factor) except A		0.1405	R8657.79	R1216.42
			ļ		R11970.21
	Add for overheads and contractor's profit except A	@	15.00%	R9874.21	R1481.13
					R13451.34
	Add cess except A	@	1.00%	R11355.34	R113.55
		Total cost for 10 sqm			R13564.89
		•	Total cost for		R1356.49
				Say,	R1356.50

Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS: 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or peasized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete as required as per direction of the Engineer-in-charge with:

			_		
17.8.1	Bitumen felt (hessian base) type 3 grade I conforming to IS: 13	322			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 Sqm.	sqm			
	a. Materials:				
	Blown or / and residual bitumen applied hot				
	= 2x1.45x30 = 87 kg				
05006	Blown type petroleum bitumen of penetration 85/25 of				
03000	approved quality	tonne	0.087	R40138.00	R3492.01
	Hessian felt type 3 Grade I (hessian base self finished bitumen				
	felt) = 30 sqm				
	Add for overlapping @ 10% = 3.00sqm				
	Total = 33 sqm				
06003	Bitumen felt : Type 3 grade I	sqm	33.000	R73.00	R2409.00
04009	Stone grit 6mm and down size or pea sized gravel				
04007	= 30x6 = 180 cudm	cum	0.180	R4390.00	R790.20
04012	Coal (steam) = 2 quintal/t of bitumen = 2x0.087 = 0.174q	quintal	0.174	R800.00	R139.20
	b. Carriage :				
0472	Tar/ Bitumen = 0.087 + 2.7x0.001x33 = 0.162t	tonne	0.162	R102.47	R16.60
0405	Stone aggregate below 40mm nomial size	cum	0.180	R147.57	R26.56
0467	Coal (steam)	tonne	0.017	R102.47	R1.78
	c Labour:				

0227	Painter	Day	2.160	R395.00	R853.20
0203	Belder	Day	3.240	R310.00	R1004.40
0225	Mistry	Day	0.180	R395.00	R71.10
				Total	R8804.05
	Add for sundries and contingencies in/c cost for Preparing roof surface, cutting groove and making good etc. & cost of brushes etc	@	5.00%	R8804.05	R440.20
					R9244.25
	Add for water charges	@	1.00%	R9244.25	R92.44
					R9336.69
	Add GST (multiplying factor)		0.1405	R9336.69	R1311.80
					R10648.49
	Add for overheads and contractor's profit	@	15.00%	R10648.49	R1597.27
					R12245.76
	Add cess	@	1.00%	R12245.76	R122.46
		Т	Total cost for	30 sqm	R12368.22
			Total cost for	r 1 sqm	R412.27
				Say,	R412.30

Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth course of blown bitumen 85/25 or 90/15 conforming to IS: 702 applied hot @ 1.45, 1.20 and 1.45 Kg per square metre of area respectively, second and fourth courses of roofing felt type 3 grade I conforming to IS: 1322 (Hessian based self finished bitumen felt), sixth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per sqm including preparation of surface but excluding grading, complete as required as per direction of the Engineer-in-charge.

Details of cost for 30 Sqm. a. Materials: Blown or / and residual bitumen applied hot = (1.45 + 1.2+ 1.45) x 30 = 123 kg	
Blown or / and residual bitumen applied hot	mount
Blown or / and residual bitumen applied hot	
= (1.45 + 1.2+ 1.45) x 30 = 123 kg Blown type petroleum bitumen of penetration 85/25 of approved quality Hessian felt type 3 Grade I (hessian base self finished bitumen felt) = 60 sqm	
Blown type petroleum bitumen of penetration 85/25 of approved quality Hessian felt type 3 Grade I (hessian base self finished bitumen felt) = 60 sqm Add for overlapping @ 10% = 6.00sqm Total = 66 sqm Stone grit form and down size or pea sized gravel = 30x6 = 180 cudm Cum 0.180 R4390.00	
Add for water charges Add GST (multiplying factor) Add Issam	
Add for vater charges Add GST (multiplying factor) Add G	
felt) = 60 sqm Add for overlapping @ 10% = 6.00sqm Total = 66 sqm sqm 66.000 R73.00 06003 Bitumen felt : Type 3 grade I sqm 66.000 R73.00 04009 Stone grit 6mm and down size or pea sized gravel = 30x6 = 180 cudm cum 0.180 R4390.00 04012 Coal (steam) = 2 quintal/t of bitumen = 2x0.123 = 0.246q quintal 0.246 R800.00 0472 Tar/ Bitumen = 0.123 + 2.7x0.001x66 = 0.273t tonne 0.273 R102.47 0405 Stone aggregate below 40mm nomial size cum 0.180 R147.57 0467 Coal (steam) tonne 0.025 R102.47 c. Labour: ac	R4936.97
Add for overlapping @ 10% = 6.00sqm	
Total = 66 sqm	
06003 Bitumen felt : Type 3 grade I sqm 66.000 R73.00 04009 Stone grit 6mm and down size or pea sized gravel = 30x6 = 180 cudm cum 0.180 R4390.00 04012 Coal (steam) = 2 quintal/t of bitumen = 2x0.123 = 0.246q quintal 0.246 R800.00 b. Carriage :	
04009 Stone grit 6mm and down size or pea sized gravel = 30x6 = 180 cudm cum 0.180 R4390.00 04012 Coal (steam) = 2 quintal/t of bitumen = 2x0.123 = 0.246q quintal 0.246 R800.00 b. Carriage :	
Coal (steam) = 2 quintal/t of bitumen = 2x0.123 = 0.246q quintal Q.246 R800.00	R4818.00
30x6 = 180 cudm	
D. Carriage :	R790.20
0472 Tar/ Bitumen = 0.123 + 2.7x0.001x66 = 0.273t tonne 0.273 R102.47 0405 Stone aggregate below 40mm nomial size cum 0.180 R147.57 0467 Coal (steam) tonne 0.025 R102.47 c. Labour: Day 3.240 R395.00 0203 Belder Day 4.860 R310.00 0225 Mistry Day 0.200 R395.00 Add for sundries and contingencies in/c cost for Preparing roof surface, cutting groove and making good etc. & cost of brushes etc © 5.00% R13664.42 Add for water charges @ 1.00% R14347.64 Add GST (multiplying factor) 0.1405 R14491.12	R196.80
0405 Stone aggregate below 40mm nomial size cum 0.180 R147.57 0467 Coal (steam) tonne 0.025 R102.47 c. Labour: Day 3.240 R395.00 0203 Belder Day 4.860 R310.00 0225 Mistry Day 0.200 R395.00 Add for sundries and contingencies in/c cost for Preparing roof surface, cutting groove and making good etc. & cost of brushes etc © 5.00% R13664.42 Add for water charges @ 1.00% R14347.64 Add GST (multiplying factor) 0.1405 R14491.12	
O467 Coal (steam) tonne 0.025 R102.47 c. Labour: Day 3.240 R395.00 0203 Belder Day 4.860 R310.00 0225 Mistry Day 0.200 R395.00 Add for sundries and contingencies in/c cost for Preparing roof surface, cutting groove and making good etc. & cost of brushes etc © 5.00% R13664.42 Add for water charges @ 1.00% R14347.64 Add GST (multiplying factor) 0.1405 R14491.12	R27.97
c. Labour: 0227 Painter Day 3.240 R395.00 0203 Belder Day 4.860 R310.00 0225 Mistry Day O.200 R395.00 Total Add for sundries and contingencies in/c cost for Preparing roof surface, cutting groove and making good etc. & cost of brushes etc Add for water charges Add GST (multiplying factor) R14347.64	R26.56
0227PainterDay3.240R395.000203BelderDay4.860R310.000225MistryDay0.200R395.00Add for sundries and contingencies in/c cost for Preparing roof surface, cutting groove and making good etc. & cost of brushes etc©5.00%R13664.42Add for water charges@1.00%R14347.64Add GST (multiplying factor)0.1405R14491.12	R2.52
Day 4.860 R310.00 O225 Mistry Day 0.200 R395.00 Total Add for sundries and contingencies in/c cost for Preparing roof surface, cutting groove and making good etc. & cost of brushes etc Add for water charges @ 1.00% R14347.64 Add GST (multiplying factor) 0.1405 R14491.12	
Day Day	R1279.80
Add for sundries and contingencies in/c cost for Preparing roof surface, cutting groove and making good etc. & cost of brushes etc Add for water charges Add GST (multiplying factor) Total Total 5.00% R13664.42 E13664.42 0.1405 R14347.64 R14491.12	R1506.60
Add for sundries and contingencies in/c cost for Preparing roof surface, cutting groove and making good etc. & cost of brushes etc Add for water charges Add GST (multiplying factor) Add GST (multiplying factor) Add GST (multiplying factor) Add GST (multiplying factor) Add GST (multiplying factor) S 5.00% R13664.42 Expression of the preparing roof surface and surface are surface as a surface and surface are surface as a surface and surface are surface as a su	R79.00
surface, cutting groove and making good etc. & cost of brushes @ 5.00% R13664.42 Add for water charges @ 1.00% R14347.64 Add GST (multiplying factor) 0.1405 R14491.12	R13664.42
etc 6 Add for water charges 6 1.00% R14347.64 Add GST (multiplying factor) 0.1405 R14491.12	
Add for water charges @ 1.00% R14347.64 Add GST (multiplying factor) 0.1405 R14491.12	R683.22
Add GST (multiplying factor) 0.1405 R14491.12	
Add GST (multiplying factor) 0.1405 R14491.12	R14347.64
	R143.48
	R14491.12
	R2036.00
	R16527.12
Add for overheads and contractor's profit @ 15.00% R16527.12	R2479.07
	R19006.19
Add cess @ 1.00% R19006.19	R190.06
Total cost for 30 sqm	R19196.25
Total cost for 1 sqm	R639.88
Say,	R639.90

Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade I (fibre base self finished bitumen felt) six and final courses of stone grit 6 mm and down size or pea sized gravel spread at 6cu.dm per sqm including preparation of surface, excluding grading, compete as required as per direction of the Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 Sqm.	sqm			
	a. Materials:				
	Blown or / and residual bitumen applied hot				
	= (1.45 + 1.2+ 1.70) x 30 = 130.5 kg				

05006	Blown type petroleum bitumen of penetration 85/25 of				
03000	approved quality	tonne	0.131	R40138.00	R5238.01
	Bitumen felt type 3 Grade I (fibre based self finished bitumen				
	felt) = 60 sqm				
	Add for overlapping @ 10% = 6.00sqm				
	Total = 66 sgm				
17001	Bitumen felt fibre base (vegetable or animal): As per IS 7193				
17001	Grade I	sqm	66.000	R80.00	R5280.00
0.4000	Stone grit 6mm and down size or pea sized gravel	·			
04009	= 30x6 = 180 cudm	cum	0.180	R4390.00	R790.20
04012	Coal (steam) = 2 quintal/t of bitumen = 2x0.1305 = 0.261q	quintal	0.261	R800.00	R208.80
	b. Carriage :	•			
0472	Tar/ Bitumen = 0.1305 + 2.7x0.001x66 = 0.275t	tonne	0.275	R102.47	R28.18
0469	Stone aggregate below 40mm nomial size	cum	0.180	R147.57	R26.56
0467	Coal (steam)	tonne	0.026	R102.47	R2.67
	c. Labour:				
0227	Painter	Day	4.320	R395.00	R1706.40
0203	Belder	Day	6.480	R310.00	R2008.80
0225	Mistry	Day	0.360	R395.00	R142.20
		-		Total	R15431.82
	Add for sundries and contingencies in/c cost for Preparing roof				
	surface, cutting groove and making good etc. & cost of brushes	@	5.00%	R15431.82	R771.59
	etc				
					R16203.41
	Add for water charges	@	1.00%	R16203.41	R162.03
	ii ii ii ii ii ii ii ii ii ii ii ii ii				R16365.44
	Add GST (multiplying factor)		0.1405	R16365.44	R2299.34
	, i j j				R18664.78
	Add for overheads and contractor's profit	@	15.00%	R18664.78	R2799.72
	·				R21464.50
	Add cess	@	1.00%	R21464.50	R214.65
		Т	otal cost for	30 sqm	R21679.15
		-	Total cost for	1 sqm	R722.64
				Say,	R722.60

Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade II (glass fibre base self finished bitumen felt) and sixth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per sqm including preparation of surface but excluding grading, complete as required as per direction of the Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 Sqm.	sqm			
	a. Materials:				
	Blown or / and residual bitumen applied hot				
	$= (1.45 + 1.2 + 1.70) \times 30 = 130.5 \text{ kg}$				
05006	Blown type petroleum bitumen of penetration 85/25 of				
03000	approved quality	tonne	0.131	R40138.00	R5238.01
	Bitumen felt type 2 Grade II (fibre based self finished bitumen				
	felt) = 60 sqm				
	Add for overlapping @ 10% = 6.00sqm				
	Total = 66 sqm				
17009	Bitumen felt fibre base (vegetable or animal): As per IS 7193				
17009	Grade II	Sqm.	66.000	R90.00	R5940.00
04009	Stone grit 6mm and down size or pea sized gravel				
04009	= 30x6 = 180 cudm	cum	0.180	R4390.00	R790.20
04012	Coal (steam) = 2 quintal/t of bitumen = 2x0.1305 = 0.261q	quintal	0.261	R800.00	R208.80
	b. Carriage :				
0472	Tar/ Bitumen = 0.1305 + 3.08x0.001x66 = 0.334t	tonne	0.334	R102.47	R34.22
0405	Stone aggregate below 40mm nomial size	cum	0.180	R147.57	R26.56
0467	Coal (steam)	tonne	0.026	R102.47	R2.67
	c. Labour :				
0227	Painter	Day	4.320	R395.00	R1706.40
0203	Belder	Day	6.480	R310.00	R2008.80
0225	Mistry	Day	0.360	R395.00	R142.20
				Total	R16097.86
	Add for sundries and contingencies	@	3.00%	R16097.86	R482.94
					R16580.80
	Add for water charges	@	1.00%	R16580.80	R165.81
					R16746.61
	Add GST (multiplying factor)		0.1405	R16746.61	R2352.90
					R19099.51
	Add for overheads and contractor's profit	@	15.00%	R19099.51	R2864.93
					R21964.44
	Add cess	@	1.00%	R21964.44	R219.64
			Total cost for		R22184.08
		-	Total cost for	1 sqm	R739.47
				Say,	R739.50

17.12	Supplying and applying bituminous solution primer on roof audirection of the Engineer-in-charge.	nd / or wa	II surface at 0.	24 litre per sqm.	as required as per
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	sqm			
	a. Materials:				
17002	Bitumen solution primer of approved quality	litre	2.400	R55.00	R132.00
	b. Labour :				
0227	Painter	Day	0.170	R395.00	R67.15
0203	Belder	Day	0.170	R310.00	R52.70
				Total	R251.85
	Add for sundries and contingencies in/c cost for Preparing roof surface, cutting groove and making good etc. & cost of brushes etc	@	5.00%	R251.85	R12.59
					R264.44
	Add for water charges	@	1.00%	R264.44	R2.64
					R267.08
	Add GST (multiplying factor)		0.1405	R267.08	R37.52
					R304.60
	Add for overheads and contractor's profit	@	15.00%	R304.60	R45.69
					R350.29
	Add cess	@	1.00%	R350.29	R3.50
		Total cost for 10 sqm			R353.79
		Total cost for 1 sqm		R35.38	
				Say,	R35.40

17.13	Deduct for omitting in water proofing treatment final course of spreading stone grit 6 mm down size or pea sized gravel as						
	per direction of the Engineer-in-charge:						
17.13.1	at 6 cudm per sqm						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 Sqm.	sqm					
	a. Materials:						
04009	Stone grit 6 mm and down size or pea sized gravel						
04009	= 6x10 = 60 cudm	cum	0.060	R4390.00	R263.40		
	b. Carriage :						
0405	Stone aggregate below 40mm nomial size	cum	0.060	R147.57	R8.85		
				Total	R272.25		
	Add for sundries and contingencies in/c cost of labour for screening and spreading grit & cost of brushes etc. :[LS]	@	100.00%	R272.25	R272.25		
					R544.50		
	Add for water charges	@	1.00%	R544.50	R5.45		
					R549.95		
	Add GST (multiplying factor)		0.1405	R549.95	R77.27		
					R627.22		
	Add for overheads and contractor's profit	@	15.00%	R627.22	R94.08		
					R721.30		
	Add cess	@	1.00%	R721.30	R7.21		
			Total cost for	10 sqm	R728.51		
			Total cost for	1 sqm	R72.85		
				Say,	R72.90		

17.13.2	at 8 cudm per sqm				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	sqm			
	a. Materials:				
04009	Stone grit 6 mm and down size or pea sized gravel				
04009	= 8x10 = 80 cudm	cum	0.080	R4390.00	R351.20
	b. Carriage :				
0405	Stone aggregate below 40mm nomial size	cum	0.080	R147.57	R11.81
				Total	R363.01
	c. Water charges: @ 1.0% on total	1.0%	on	R363.01	R3.63
				Total	R366.64
	Add for sundries and contingencies in/c cost of labour for screening and spreading grit & cost of brushes etc. :	@	100.00%	R366.64	R366.64
					R733.28
	Add for water charges	@	1.00%	R733.28	R7.33
					R740.61
	Add GST (multiplying factor)		0.1405	R740.61	R104.06
					R844.67
	Add for overheads and contractor's profit	@	15.00%	R844.67	R126.70
					R971.37
	Add cess	@	1.00%	R971.37	R9.71
		Total cost for 10 sqm		10 sqm	R981.08
			Total cost for	1 sqm	R98.11
				Say,	R98.10

17.14	Grading roof for water proofing treatment complete as requi	ired as per dii	rection of the	Engineer-in-charge	with:			
17.14.1	1 Cement concrete 1:2:4 (1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size)							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 1 cum.	cum						
	a. Materials:							
04006	Stone Aggregate (Single size) : 20mm nominal size	cum	0.670	R4875.00	R3266.25			
	Stone Aggregate (Single size) : 10mm nominal size	cum	0.220	R4730.00	R1040.60			
	Sand (fine): Selected quarry	cum	0.450	R560.00	R252.00			
03001	Portland Cement	tonne	0.320	R5800.00	R1856.00			
	b. Carriage :							
0405	Stone aggregate below 40 mm nominal size	cum	0.890	R147.57	R131.34			
0425	Sand (fine) : Selected quarry	cum	0.450	R131.75	R59.29			
0421	Portland Cement	tonne	0.320	R102.47	R32.79			
	c. Labour:							
0203	Belder	Day	1.630	R310.00	R505.30			
0205	Waterman	Day	0.700	R310.00	R217.00			
0219	Mason (brick layer) 1st class	Day	0.100	R440.00	R44.00			
	d. Hire charges for:							
0113	Concrete Mixer 0.25 to 0.40 cum with Hopper	Day	0.070	R1150.00	R80.50			
0129	Vibrator (Neddle type 40mm)	Day	0.070	R395.00	R27.65			
				Total	R7512.72			
	Add for sundries and contingencies in/c cost of labour for laying in terrace & cost of brushes etc.	@	5.00%	R7512.72	R375.64			
					R7888.36			
	Add for water charges	@	1.00%	R7888.36	R78.88			
	ii ii ii ii ii ii ii ii ii ii ii ii ii				R7967.24			
	Add GST (multiplying factor)		0.1405	R7967.24	R1119.40			
					R9086.64			
	Add for overheads and contractor's profit	@	15.00%	R9086.64	R1363.00			
					R10449.64			
	Add cess	@	1.00%	R10449.64	R104.50			
			Total cost for	1 cum	R10554.14			
				Say,	R10554.10			

17.14.2	Cement mortar 1:3 (1 cement : 3 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.	cum			
	a. Materials:				
	Cement mortar 1:3 (1 cement : 3 fine sand)				
3.1.3	Rate as per Item No. 3.1.3 of SH: Mortars	cum	1.000	R4026.43	R4026.43
	b. Labours:				
0218*	Mason (average)	Day	1.000	R420.00	R420.00
0203	Belder	Day	2.000	R310.00	R620.00
0205	Waterman	Day	0.500	R310.00	R155.00
0212	Coolie	Day	5.000	R310.00	R1550.00
				Total	R6771.43
	Add for sundries and contingencies	@	3.00%	R6771.43	R203.14
					R6974.57
	Add for water charges	@	1.00%	R6974.57	R69.75
					R7044.32
	Add GST (multiplying factor)		0.1405	R7044.32	R989.73
					R8034.05
	Add for overheads and contractor's profit	@	15.00%	R8034.05	R1205.11
					R9239.16
	Add cess	@	1.00%	R9239.16	R92.39
			Total cost for	R9331.55	
				Say,	R9331.60

17.14.3	Cement mortar 1:4 (1cement : 4 fine sand)				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum.	cum			
	a. Materials:				
	Cement mortar 1:4 (1 cement : 4 fine sand)				
3.1.4	Rate as per Item No. 3.1.4 of SH: Mortar	cum	1.000	R3259.11	R3259.11
	b. Labours:				
0218*	Mason (average)	Day	1.000	R420.00	R420.00
0203	Belder	Day	2.000	R310.00	R620.00
0205	Waterman	Day	0.500	R310.00	R155.00
0212	Coolie	Day	5.000	R310.00	R1550.00
				Total	R6004.11
	Add for sundries and contingencies	@	3.00%	R6004.11	R180.12
					R6184.23
	Add for water charges	@	1.00%	R6184.23	R61.84
					R6246.07
	Add GST (multiplying factor)		0.1405	R6246.07	R877.57

			Sav.	R8274.10
		Total cost for 1 cum		R8274.11
Add cess	@	1.00%	R8192.19	R81.92
				R8192.19
Add for overheads and contractor's profit	@	15.00%	R7123.64	R1068.55
				R7123.64

Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) as per direction of the Engineer-in-Charge and finished neat (item of laying brick tiles shall be paid for separately).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 Sqm.	sqm			
	a. Materials:				
	APP modified polymeric felt (two layers) 1.5mm thick				
	= 3x30 = 60sqm				
	Add 10% for wastage = 6.0 sqm				
	Total = 66 sqm				
17015	APP modified polymeric felt (two layers) 1.5mm thick	Sqm.	66.000	R85.00	R5610.00
17002	Bitumen solution primer of approved quality				
17002	= 0.4x30 = 12sqm	litre	12.000	R55.00	R660.00
	Blown type petroleum bitumen of penetration 85/25 of				
05006	approved quality				
	3 x 36 = 108kg = 0.108 tonne	tonne	0.108	R40138.00	R4334.90
04012	Coal (steam)	quintal	0.174	R800.00	R139.20
	b. Carriage :				
0472	Tar/ Bitumen	tonne	0.120	R102.47	R12.30
0467	Coal (steam)	tonne	0.017	R102.47	R1.78
	c. Labour:				
0227	Painter	Day	2.160	R395.00	R853.20
0203	Belder	Day	3.240	R310.00	R1004.40
0225	Mistry	Day	0.180	R395.00	R71.10
				Total	R12686.88
	Add for sundries and contingencies in/c cost for Preparing roof surface & cutting grooves and making good, cost for carriage of Polymeric felt & cost for brushes etc.	@	4.50%	R12686.88	R570.91
					R13257.79
	Add for water charges	@	1.00%	R13257.79	R132.58
					R13390.37
	Add GST (multiplying factor)		0.1405	R13390.37	R1881.35
					R15271.72
	Add for overheads and contractor's profit	@	15.00%	R15271.72	R2290.76
					R17562.48
	Add cess	@	1.00%	R17562.48	R175.62
				30 Sqm.	R17738.10
			Total cost for	1 Sqm.	R591.27
				Say,	R591.30

Providing and laying in situ five course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd & 4th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd layer of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/ sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) as per direction of the Engineer-in-Charge and finished neat (item of laying brick tiles shall be paid for separately).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 Sqm.	sqm			
	a. Materials:				
	A.P.P. modified polymeric felt (two layers) 2mm thick				
	= 30sqm				
	Add 10% for wastage = 3.0 sqm				
	Total = 33 sgm				
17016	APP modified polymeric felt (two layers) 2mm thick	Sqm.	33.000	R115.00	R3795.00
17000	Bitumen solution primer of approved quality				
17002	= 0.4x30 = 12sqm	litre	12.000	R55.00	R660.00

05006	Blown type petroleum bitumen of penetration 85/25 of approved quality				
03000	1.20x30x2 = 72kg = 0.072 tonne	tonne	0.072	R40138.00	R2889.94
04012	Coal (steam)	quintal	0.174	R800.00	R139.20
	b. Carriage :				
0472	Tar/ Bitumen	tonne	0.084	R102.47	R8.61
0467	Coal (steam)	tonne	0.017	R102.47	R1.78
	c. Labour:				
0227	Painter	Day	1.580	R395.00	R624.10
0203	Belder	Day	2.370	R310.00	R734.70
0225	Mistry	Day	0.130	R395.00	R51.35
				Total	R8904.68
	Add for sundries and contingencies in/c cost for Preparing roof surface & cutting grooves and making good, cost for carriage of Polymeric felt & cost for brushes etc.	@	4.50%	R8904.68	R400.71
					R9305.39
	Add for water charges	@	1.00%	R9305.39	R93.05
					R9398.44
	Add GST (multiplying factor)		0.1405	R9398.44	R1320.48
					R10718.92
	Add for overheads and contractor's profit	@	15.00%	R10718.92	R1607.84
					R12326.76
	Add cess	@	1.00%	R12326.76	R123.27
		Total cost for 30 Sqm.		30 Sqm.	R12450.03
		7	otal cost for	1 Sqm.	R415.00
				Say,	R415.00

Providing and laying in situ seven course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) as per direction of the Engineer-in-Charge and finished neat (item of laying brick tiles shall be paid for separately).

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 Sqm.	sqm			
	a. Materials:				
	A.P.P. modified polymeric felt (two layers) 2mm thick				
	= 3x30 = 60sqm				
	Add 10% for wastage = 6.0 sqm				
	Total = 66 sqm				
17016	APP modified polymeric felt (two layers) 2mm thick	Sqm.	66.000	R115.00	R7590.00
17002	Bitumen solution primer of approved quality				
17002	= 0.4x30 = 12sqm	litre	12.000	R55.00	R660.00
	Blown type petroleum bitumen of penetration 85/25 of				
05006	approved quality				
	3 course x 36 = 108 kg = 0.108 tonne	tonne	0.108	R40138.00	R4334.90
04012	Coal (steam)	quintal	0.174	R800.00	R139.20
	b. Carriage :				
0472	Tar/ Bitumen	tonne	0.120	R102.47	R12.30
0467	Coal (steam)	tonne	0.017	R102.47	R1.78
	c. Labour:				
0227	Painter	Day	2.160	R395.00	R853.20
0203	Belder	Day	3.240	R310.00	R1004.40
0225	Mistry	Day	0.180	R395.00	R71.10
				Total	R14666.88
	Add for sundries and contingencies in/c cost for Preparing roof surface & cutting grooves and making good, cost for carriage of Polymeric felt & cost for brushes etc.	@	4.50%	R14666.88	R660.01
					R15326.89
	Add for water charges	@	1.00%	R15326.89	R153.27
					R15480.16
	Add GST (multiplying factor)		0.1405	R15480.16	R2174.96
					R17655.12
	Add for overheads and contractor's profit	@	15.00%	R17655.12	R2648.27
					R20303.39
	Add cess	@	1.00%	R20303.39	R203.03
		Т	otal cost for	30 Sqm.	R20506.42
		1	Total cost for	1 Sqm.	R683.55
				Say,	R683.60

Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrance, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrance manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147 as per direction of the Engineer-in-Charge. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane.

17.18.1	2mm (for corrugated roof sheets)				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 Sqm.	sqm			
	a. Materials:				
	APP. modified 2mm thick = 30 sqm				
	Add 10% for wastage = 3.0 sqm				
	Total = 33 sgm				
17003	APP modified 2 mm thick membrane reinforced with glass fibre				
17003	matt	Sqm.	33.000	R115.00	R3795.00
17017	Bitumen primer for bitumen membrane	litre	12.000	R105.00	R1260.00
17004	Commercial LPG in cylinder	kg	7.000	R70.00	R490.00
	b. Carriage :				
0472	Tar/ Bitumen	tonne	0.012	R102.47	R1.23
	c. Labour:				
0229	Skilled torch operator for laying tack	Day	2.160	R440.00	R950.40
0225	Mistry	Day	0.180	R395.00	R71.10
0203	Belder	Day	3.240	R310.00	R1004.40
				Total	R7572.13
	Add for sundries and contingencies in/c cost for Preparing roof				
	surface & cutting grooves, cost for carriage of Bitumen	@	3.00%	R7572.13	R227.16
	membrane, Fuel & cost for brushes & bitumen torch etc.	G	3.00%	1072.10	1(227.10
			1.000/		R7799.29
	Add for water charges	@	1.00%	R7799.29	R77.99
	Add CCT (south able to a feebox)		0.1405	D7077 00	R7877.28 R1106.76
-	Add GST (multiplying factor)		0.1405	R7877.28	
<u> </u>	Add for overheads and contractor's profit	@	15.00%	R8984.04	R8984.04 R1347.61
	Add for overheads and contractor's profit	w	15.00%	K0904.04	R1347.61 R10331.65
-	Add cess	@	1.00%	R10331.65	R10331.65 R103.32
	Aud Cess		Total cost for		R103.32 R10434.97
			Total cost for		R347.83
			Total Cost 101		R347.80
				Say,	K347.80

Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147 as per direction of the Engineer-in-Charge. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane as required as per direction of the Engineer-in-charge.

17.19.1 3 mm thick

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 Sqm.	sqm			
	a. Materials:				
	APP modified 3mm thick = 30 sqm				
	Add 10% for wastage = 3.0 sqm				
	Total = 33 sqm				
17005	APP modified 3 mm thick membrane reinforced with glass fibre				
17005	matt	Sqm.	33.000	R220.00	R7260.00
17017	Bitumen primer for bitumen membrane	litre	12.000	R105.00	R1260.00
17004	Commercial LPG in cylinder	kg	7.000	R70.00	R490.00
	b. Carriage :				
0472	Tar/ Bitumen	tonne	0.012	R102.47	R1.23
	c. Labour:				
0229	Skilled torch operator for laying tack	Day	2.160	R440.00	R950.40
0225	Mistry	Day	0.180	R395.00	R71.10
0203	Belder	Day	3.240	R310.00	R1004.40
				Total	R11037.13

Add for sundries and contingencies in/c cost for Preparing roof surface & cutting grooves, cost for carriage of Bitumen membrane, Fuel & cost for brushes & bitumen torch etc.		4.50%	R11037.13	R496.67
				R11533.80
Add for water charges	@	1.00%	R11533.80	R115.34
				R11649.14
Add GST (multiplying factor)		0.1405	R11649.14	R1636.70
				R13285.84
Add for overheads and contractor's profit	@	15.00%	R13285.84	R1992.88
				R15278.72
Add cess	@	1.00%	R15278.72	R152.79
	Total cost for 30 Sqm.			R15431.51
	Total cost for 1 Sqm.		1 Sqm.	R514.38
			Say,	R514.40

Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscocity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147 as per direction of the Engineer-in-Charge. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane as required as per direction of the Engineer-in-charge:

17.20.1	3 mm thick				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 Sqm.	sqm			
	a. Materials:				
	APP modified 3mm thick = 30 sqm				
	Add 10% for wastage = 3.0 sqm				
	Total = 33 sqm				
17007	APP modified 3 mm thick membrane reinforced with polyester				
17007	matt	Sqm.	33.000	R240.00	R7920.00
17017	Bitumen primer for bitumen membrane	litre	12.000	R105.00	R1260.00
17004	Commercial LPG in cylinder	kg	7.000	R70.00	R490.00
	b. Carriage :				
0472	Tar/ Bitumen	tonne	0.012	R102.47	R1.23
	c. Labour:				
0229	Skilled torch operator for laying tack	Day	2.160	R440.00	R950.40
	Mistry	Day	0.180	R395.00	R71.10
0203	Belder	Day	3.240	R310.00	R1004.40
				Total	R11697.13
	Add for sundries and contingencies in/c cost for Preparing roof surface & cutting grooves, cost for carriage of Bitumen membrane, Fuel & cost for brushes & bitumen torch etc.	@	4.50%	R11697.13	R526.37
					R12223.50
	Add for water charges	@	1.00%	R12223.50	R122.24
					R12345.74
	Add GST (multiplying factor)		0.1405	R12345.74	R1734.58
					R14080.32
	Add for overheads and contractor's profit	@	15.00%	R14080.32	R2112.05
					R16192.37
	Add cess	@	1.00%	R16192.37	R161.92
			Total cost for 3		R16354.29
		•	Total cost for	1 Sqm.	R545.14
	1			_	DE45.40

Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation and as required as per direction of the Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 Sqm.	sqm			
	a. Materials:				
	Geotextile 120gsm membrane = 30 sqm				
	Add 5% for wastage = 1.50 sqm				
	Total = 31.50 sqm				
17006	Geotextile 120 grams per sqm membrane	Sqm.	31.500	R50.00	R1575.00
	b. Labour:				
0229	Skilled torch operator for laying tack or fitter				
0229	= 2.16/5 = 0.43	Day	0.430	R440.00	R189.20
0225	Mistry = 0.18/5 = 0.04	Day	0.040	R395.00	R15.80
0203	Belder = 3.24/5 = 0.65	Day	0.650	R310.00	R201.50

				Total	R1981.50
Add for sundries and contingencies in/c Geotextile & cost for torch, LPG etc.	cost for carriage of @		7.50%	R1981.50	R148.61
					R2130.11
Add for water charges	@		1.00%	R2130.11	R21.30
					R2151.41
Add GST (multiplying factor)			0.1405	R2151.41	R302.27
					R2453.68
Add for overheads and contractor's profit	@		15.00%	R2453.68	R368.05
					R2821.73
Add cess	@		1.00%	R2821.73	R28.22
		Total cost for 30 Sqm. Total cost for 1 Sqm.			R2849.95
					R95.00
			·	Say,	R95.00

Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/ system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.

0 - 1 -	December 11 and	11	0	D. L.	0 1
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	sqm			
	a. Materials:				
	Fibre reinforced elastomeric liquid waterproofing				
17020	membrane = 10.76 litre + 0.538 (add wastage @ 5%)				
	= 11.30 litre	litre	11.300	R230.00	R2599.00
	b. Labour:				
0212	Coolie	Day	0.670	R310.00	R207.70
0227	Painter	Day	0.670	R395.00	R264.65
		-		Total	R3071.35
	Add for sundries and contingencies in/c cost for Carriage of				
	materials, cost of Wire brush, brushes, rollers etc. etc.	@	4.00%	R3071.35	R122.85
					R3194.20
	Add for water charges	@	1.00%	R3194.20	R31.94
					R3226.14
	Add GST (multiplying factor)		0.1405	R3226.14	R453.27
					R3679.41
	Add for overheads and contractor's profit	@	15.00%	R3679.41	R551.91
					R4231.32
	Add cess	@	1.00%	R4231.32	R42.31
		Total cost for 10 Sqm		10 Sqm	R4273.63
		•	Total cost for	1 Sqm	R427.36
				Say,	R427.40

Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush as required as per direction of the Engineer-in-charge.

The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guaranteed for 10 years against any leakage.

17.23.1 For vertical surface two coats @0.70 kg per sqm per coat

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 Sqm.	sqm			
	a. Materials:				
17021	Inegral crystalline slurry				
17021	= 2 x 0.70 kg/Sq.mtr.= 1.40kg	kg	1.400	R320.00	R448.00
				Total	R448.00
	Add for sundries and contingencies in/c cost for Carriage of materials & tools, labours for application of waterproofing material etc.		7.50%	R448.00	R33.60
					R481.60
	Add for water charges	@	1.00%	R481.60	R4.82
					R486.42
	Add GST (multiplying factor)		0.1405	R486.42	R68.34
					R554.76
	Add for overheads and contractor's profit	@	15.00%	R554.76	R83.21
					R637.97

17.23

Add cess	@	1.00%	R637.97	R6.38
	1	Total cost for 1 Sqm		
			Say,	R644.40

17.23.2	For horizontal surface one coat @1.10 kg per sqm.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1.00 Sqm.	sqm			
	a. Materials:				
17021	Inegral crystalline slurry				
17021	= 1 x 1.10 kg/Sq.mtr.= 1.10kg	kg	1.100	R320.00	R352.00
				Total	R352.00
	Add for sundries and contingencies in/c cost for Carriage of materials & tools, labours for application of waterproofing material etc.	@	7.50%	R352.00	R26.40
					R378.40
	Add for water charges	@	1.00%	R378.40	R3.78
					R382.18
	Add GST (multiplying factor)		0.1405	R382.18	R53.70
					R435.88
	Add for overheads and contractor's profit	@	15.00%	R435.88	R65.38
					R501.26
	Add cess	@	1.00%	R501.26	R5.01
		Total cost for 1.00 Sqm		.00 Sqm	R506.27
				Say,	R506.30

Providing & Applying polymer modified, flexible cementatious negative side waterproofing coating with elastic waterproofing polymers on interior wall plaster surface in three coats @14.35kg /10 sqm. one coat of self priming of cementatious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementatious waterproofing polymer (dilution with water in the ratio of 3:1) after scrapping and properly cleaning the surface to remove pre-existing paint film & loose particles till plaster is visible, complete in all respect as per the direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	sqm			
	a. Materials:				
17025	Cementious water coating with elastic polymers = 14.35 litre + 0.72 (add wastage @ 5%) = 15.07 litre	litre	15.070	R220.00	R3315.40
	b. Labours:				
0212	Coolie	Day	0.230	R310.00	R71.30
0227	Painter	Day	0.460	R395.00	R181.70
				Total	R3568.40
	Add for sundries and contingencies in/c cost for Carriage of materials, labours for Wire brush, brushes, rollers etc.	@	4.00%	R3568.40	R142.74
					R3711.14
	Add for water charges	@	1.00%	R3711.14	R37.11
					R3748.25
	Add GST (multiplying factor)		0.1405	R3748.25	R526.63
					R4274.88
	Add for overheads and contractor's profit	@	15.00%	R4274.88	R641.23
					R4916.11
	Add cess	@	1.00%	R4916.11	R49.16
		Total cost for 10 Sqm		10 Sqm	R4965.27
		Total cost for 1 Sqm		1 Sqm	R496.53
				Say,	R496.50

Providing and applying crystalline mortar by mixing in the ratio of 4.5 : 1 (4.5 parts crystalline mortar : 1 part water) for the treatment of faulty construction joints, cracks, tie rod holes and spalled & honeycombed surface of RCC underground structures like basement, water tanks, bridge deck etc. to ensure water tightness. The crystallie mortar shall conform to the EN 1504-3 having compressive strength Class R4 > 45 MPa and adhesive bond strength Class R3 > 1.5 MPa. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.

For sealing cracks and faulty construction joints, by preparing the surface, making U-shape groove size of 25x25mm and then priming the surface with integral crystalline slurry @0.05kg per running meter and while the surface is tacky then filling the groove upto top edge with crystalline mortar @1.50kg per running meter. Once crystalline mortar is touch dry then finally applying two coats of integral crystalline slurry @0.05kg per running meter per coat on treated surface.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 Metre.	metre			
	a. Materials:				
17022	Crystalline Mortar @ 1.50 Kg per metre	kg	1.500	R290.00	R435.00
	Inegral crystalline slurry for priming and finishing = 3 x 0.05 kg/metre= 0.15kg	kg	0.150	R320.00	R48.00
				Total	R483.00

Add for sundries and contingencies in/c cost for Carriage of materials & tools, labours for making crystalline mortar and repair work etc.		10.00%	R483.00	R48.30
				R531.30
Add for water charges	@	1.00%	R531.30	R5.31
				R536.61
Add GST (multiplying factor)		0.1405	R536.61	R75.39
				R612.00
Add for overheads and contractor's profit	@	15.00%	R612.00	R91.80
				R703.80
Add cess	@	1.00%	R703.80	R7.04
	Total cost for 1 metre		R710.84	
			Say,	R710.80

For patching of tie rod holes, preparing tie rod hole surface and then priming the area with integral crystalline slurry @0.070kg per sqm and while the surface is tacky, repairing and then filling the tie rod holes with crystalline mortar @0.040kg per hole as required as per direction of the Engineer-in-charge. The crystalline mortar shall be tightly rodded into tie rod holes or packed tightly (For 25x25x25 mm tie rod hole, use 0.040 kg to fill the hole)

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 no. hole	Each			
	a. Materials:				
17022	Crystalline Mortar @ 0.040 Kg per hole	kg	0.040	R290.00	R11.60
				Total	R11.60
	Add for sundries and contingencies in/c cost for Carriage of materials & tools, labours for making crystalline mortar and repair work etc.	@	65.00%	R11.60	R7.54
					R19.14
	Add for water charges	@	1.00%	R19.14	R0.19
					R19.33
	Add GST (multiplying factor)		0.1405	R19.33	R2.72
					R22.05
	Add for overheads and contractor's profit	@	15.00%	R22.05	R3.31
					R25.36
	Add cess	@	1.00%	R25.36	R0.25
		Total cost for each hole		R25.61	
			·	Say,	R25.60

Providing and applying of swellable type water stop tape, 19mm x 25mm thick in linear meter (expansive nature) for construction joints treatment of RCC structure, such as raft slab, retaining walls, water storage tank and at the junctions of raft slab with the retaining walls etc.. After cleaning the surface, one coat of required primer for swellable water stop tape shall be applied throughout the length of the joint @3.78 litre per 240 running meter. Over the primed surface swellable type water stop tape shall be placed. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guaranteed for 10 years against any leakage.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 Metre.	sqm			
	a. Materials:				
17023	Swellable type water stop tape (Crystalline sealing compound)	metre	1.000	R480.00	R480.00
17024	Swellable type water stop primer (@3.78 itre per 240 running metre)	litre	0.016	R2050.00	R32.29
				Total	R512.29
	Add for sundries and contingencies in/c cost for Carriage of materials & tools, labours for application of primer and swellable water stop etc.	@	7.50%	R512.29	R38.42
					R550.71
	Add for water charges	@	1.00%	R550.71	R5.51
					R556.22
	Add GST (multiplying factor)		0.1405	R556.22	R78.15
					R634.37
	Add for overheads and contractor's profit	@	15.00%	R634.37	R95.16
					R729.53
	Add cess	@	1.00%	R729.53	R7.30
		1	otal cost for	1 Metre	R736.83
				Say,	R736.80

REPAIRS AND REHABILITATION ITEMS:

17.27 Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge.

17.27.1 75mm average thickness

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 Sqm.	sam			

	a. Labour:				
0226	Machine Operator	Day	0.200	R440.00	R88.00
0203	Belder	Day	0.100	R310.00	R31.00
				Total	R119.00
	Add for sundries and contingencies in/c Hire charges for HILTY- TE 504 Pneumatic chisel	@	35.00%	R119.00	R41.65
					R160.65
	Add for water charges	@	1.00%	R160.65	R1.61
					R162.26
	Add GST (multiplying factor)		0.1405	R162.26	R22.80
					R185.06
	Add for overheads and contractor's profit	@	15.00%	R185.06	R27.76
					R212.82
	Add cess	@	1.00%	R212.82	R2.13
		Total cost for 1 Sqm		r 1 Sqm	R214.95
				Say,	R215.00

17.27.2	50mm average thickness				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 Sqm.	sqm			
	a. Labour:				
0226	Machine Operator	Day	0.134	R440.00	R58.96
0203	Belder	Day	0.070	R310.00	R21.70
				Total	R80.66
	Add for sundries and contingencies in/c Hire charges for HILTY- TE 504 Pneumatic chisel	@	35.00%	R80.66	R28.23
					R108.89
	Add for water charges	@	1.00%	R108.89	R1.09
					R109.98
	Add GST (multiplying factor)		0.1405	R109.98	R15.45
					R125.43
	Add for overheads and contractor's profit	@	15.00%	R125.43	R18.81
					R144.24
	Add cess	@	1.00%	R144.24	R1.44
		Total cost for 1 Sqm		1 Sqm	R145.68
				Say,	R145.70

17.27.3	25 mm average thickness				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 Sqm.	sqm			
	a. Labour:				
0226	Machine Operator	Day	0.070	R440.00	R30.80
0203	Belder	Day	0.030	R310.00	R9.30
				Total	R40.10
	Add for sundries and contingencies in/c Hire charges for HILTY- TE 504 Pneumatic chisel	@	35.00%	R40.10	R14.04
					R54.14
	Add for water charges	@	1.00%	R54.14	R0.54
					R54.68
	Add GST (multiplying factor)		0.1405	R54.68	R7.68
					R62.36
	Add for overheads and contractor's profit	@	15.00%	R62.36	R9.35
					R71.71
	Add cess	@	1.00%	R71.71	R0.72
		Total cost for 1 Sqm			R72.43
				Say,	R72.40

Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.

. ,	Paro apro 12 mm anamoro.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 3 Sqm (95.54 metre length of 10mm dia bar) Bars upto 12mm diameter (1 litre chemical shall cover 3.00 sqm area of bars)	sqm			
	a. Materials:				
17026	Chemical Rust Remover	metre	1.000	R230.00	R230.00
	b. Labour: (Application charges for 3.0 sqm)				
0227	Painter	Day	0.162	R395.00	R63.99
0212	Coolie	Day	0.162	R310.00	R50.22
				Total	R344.21
	Add for sundries and contingencies in/c cost of putty, brush and sand paper etc.	@	3.00%	R344.21	R10.33
					R354.54

	I otal co	Total cost for 1 Metre length of bar		
	Tatala			
	Total cost	Total cost for 3 Sqm (95.54 metre length of 10mm dia bar)		R474.36
Add cess	@	1.00%	R469.66	R4.70
				R469.66
Add for overheads and contractor's profit	@	15.00%	R408.40	R61.26
				R408.40
Add GST (multiplying factor)		0.1405	R358.09	R50.31
				R358.09
Add for water charges	@	1.00%	R354.54	R3.55

17.28.2	Bars above 12 mm diameter				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 3 Sqm (47.78 metre length of 20mm dia bar) Bars above 12mm diameter (1 litre chemical shall cover 3.00 sqm area of bars)	sqm			
	a. Materials:				
17026	Chemical Rust Remover	metre	1.000	R230.00	R230.00
	b. Labour: (Application charges for 3.0 sqm)				
0227	Painter	Day	0.162	R395.00	R63.99
0212	Coolie	Day	0.162	R310.00	R50.22
				Total	R344.21
	Add for sundries and contingencies in/c cost of putty, brush and sand paper etc.	@	3.00%	R344.21	R10.33
					R354.54
	Add for water charges	@	1.00%	R354.54	R3.55
					R358.09
	Add GST (multiplying factor)		0.1405	R358.09	R50.31
					R408.40
	Add for overheads and contractor's profit	@	15.00%	R408.40	R61.26
					R469.66
	Add cess	@	1.00%	R469.66	R4.70
		Total cost for 3 Sqm (47.78 metre length of 20mm dia bar)			R474.36
		Total cost for 1 Metre length of bar			R9.93
				Say,	R9.90

Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In- Charge.

17.29.1	7.29.1 Upto and including 12mm dia.						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 nos. hole	Each	1 1				
	a. Materials:						
17027	Approx unit weight of Epoxy = 2000 kg/cum or 2 gm/cucm Volume of Epoxy filled = 3.14/4 [(1.5)2-(1.2)2]x15.5cm = 9.86cucm Weight of Epoxy for 10 holes = 10x9.86x2 = 197.20 gms say 200gms = 0.2 kg	kg	0.200	R650.00	R130.00		
	b. Machinery:	<u> </u>					
0140	Hire charges of Drill machine upto 30mm dia	Day	0.500	R180.00	R90.00		
	c. Labours:	-					
0215	Fitter (grade1)	Day	0.500	R440.00	R220.00		
0203	Belder	Day	0.500	R310.00	R155.00		
				Total	R595.00		
	Add for sundries and contingencies	@	3.00%	R595.00	R17.85		
					R612.85		
	Add for water charges	@	1.00%	R612.85	R6.13		
					R618.98		
	Add GST (multiplying factor)		0.1405	R618.98	R86.97		
					R705.95		
	Add for overheads and contractor's profit	@	15.00%	R705.95	R105.89		
					R811.84		
	Add cess	@	1.00%	R811.84	R8.12		
			Total cost for 1		R819.96		
		Т	otal cost for ea		R82.00		
				Say,	R82.00		

Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and as per direction of Engineer-In-charge complete in all respect.

17.30.1	SBR Polymer (@10% of cement weight) modified cementition with specified proportion of approved polymer	us bond coat	t @2.2 kg cen	nent per sqm of s	urface area mixed
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm. bonding coat	sqm			
	a. Materials:				
03001	Portland Cement	tonne	0.022	R5800.00	R127.60
17028	SBR Polymer @ 10% of cement weight = 22.00kg x 10% = 2.20kg	kg	2.200	R210.00	R462.00
	b. Labour:				
0218*	Mason (average)	Day	0.270	R420.00	R113.40
0212	Coolie	Day	0.270	R310.00	R83.70
				Total	R786.70
	Add for sundries and contingencies in/c cost of scaffolding	@	3.00%	R786.70	R23.60
					R810.30
	Add for water charges	@	1.00%	R810.30	R8.10
					R818.40
	Add GST (multiplying factor)		0.1405	R818.40	R114.99
					R933.39
	Add for overheads and contractor's profit	@	15.00%	R933.39	R140.01
					R1073.40
	Add cess	@	1.00%	R1073.40	R10.73
			Total cost for 10 Sqm		
			Total cost for	1 Sqm	R108.41
				Say,	R108.40

17.30.2	Epoxy bonding adhesive having coverage 2.20 sqm/kg of ap	g adhesive having coverage 2.20 sqm/kg of approved make						
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 2.20 Sqm. bonding coat	sqm						
	a. Materials:							
17027	Ероху	kg	1.000	R650.00	R650.00			
				Total	R650.00			
	Add for sundries and contingencies in/c cost brushes etc	@	10.00%	R650.00	R65.00			
					R715.00			
	Add for water charges	@	1.00%	R715.00	R7.15			
					R722.15			
	Add GST (multiplying factor)		0.1405	R722.15	R101.46			
					R823.61			
	Add for overheads and contractor's profit	@	15.00%	R823.61	R123.54			
					R947.15			
	Add cess	@	1.00%	R947.15	R9.47			
			Total cost for 2.20 Sqm		R956.62			
			Total cost for	1 Sqm	R434.83			
				Say,	R434.80			

17.31	Extra for providing and laying of Fibre glass cloth over bonding coat of approved adhesive as per item no. 17.30, when the coat is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 Sqm.	sqm					
	a. Materials:						
17019	Fibre Glass cloth	sqm	11.000	R52.00	R572.00		
	c. Labour:						
0218*	Mason (average)	Day	0.050	R420.00	R21.00		
0203	Belder	Day	0.050	R310.00	R15.50		
0205	Waterman	Day	0.005	R310.00	R1.55		
				Total	R610.05		
	Add for sundries and contingencies	@	3.00%	R610.05	R18.30		
					R628.35		
	Add for water charges	@	1.00%	R628.35	R6.28		
					R634.63		
	Add GST (multiplying factor)		0.1405	R634.63	R89.17		
					R723.80		
	Add for overheads and contractor's profit	@	15.00%	R723.80	R108.57		
					R832.37		
	Add cess	@	1.00%	R832.37	R8.32		
			Total cost for 10 sqm				
			Total cost for	1 sqm	R84.07		
				Say,	R84.10		

Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 fine sand with polymer minimum 2% by wt. of cement used) as per specifications and as per direction of the Engineer-incharge.

17.32 Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/ mm²)

17.32.1	12 mm average thickness.
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Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	sqm			
	a. Materials:				
	Cement mortar 1:4 (1 cement : 4 fine sand) = 0.144 cum				
3.1.4	Rate as per Item No. 3.1.4 of SH: Mortar	cum	0.144	R3259.11	R469.31
	SBR Polymer				
17028	Qty of cement in mortar = 0.144x0.38 = 0.055 MT or 55kg @ 2%				
	of weight of cement 55kg x 2% = 1.10 kg	kg	1.100	R210.00	R231.00
	b. Labour:				
0218*	Mason (average)	Day	0.670	R420.00	R281.40
0212	Coolie	Day	0.750	R310.00	R232.50
0205	Waterman	Day	0.920	R310.00	R285.20
				Total	R1499.41
	Add for sundries and contingencies in/c cost of scaffolding	@	4.00%	R1499.41	R59.98
					R1559.39
	Add for water charges	@	1.00%	R1559.39	R15.59
					R1574.98
	Add GST (multiplying factor)		0.1405	R1574.98	R221.28
					R1796.26
	Add for overheads and contractor's profit	@	15.00%	R1796.26	R269.44
					R2065.70
	Add cess	@	1.00%	R2065.70	R20.66
		Total cost for 10 Sqm			R2086.36
			Total cost for	1 Sqm	R208.64
		•		Say,	R208.60

17.32.2	25 mm average thickness in 2 layers.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	sqm			
	a. Materials:				
	Cement mortar 1:4 (1 cement : 4 fine sand) = (0.144/12)x25=				
	0.30 cum				
3.1.4	Rate as per Item No. 3.1.4 of SH: Mortar	cum	0.300	R3259.11	R977.73
	SBR Polymer				
17028	Oty of cement = 0.30x0.38 = 0.114 MT or 114kg @ 2% of weight				
	of cement 114kg x 2% = 2.28 kg	kg	2.280	R210.00	R478.80
	b. Labour:				
0218*	Mason (average)	Day	0.940	R420.00	R394.80
0212	Coolie	Day	1.020	R310.00	R316.20
0205	Waterman	Day	1.010	R310.00	R313.10
				Total	R2480.63
	Add for sundries and contingencies in/c cost of scaffolding	@	4.00%	R2480.63	R99.23
					R2579.86
	Add for water charges	@	1.00%	R2579.86	R25.80
					R2605.66
	Add GST (multiplying factor)		0.1405	R2605.66	R366.10
					R2971.76
	Add for overheads and contractor's profit	@	15.00%	R2971.76	R445.76
					R3417.52
	Add cess	@	1.00%	R3417.52	R34.18
			Total cost for	10 Sqm	R3451.70
			Total cost for	1 Sqm	R345.17
				Say,	R345.20

17.32.3	50 mm average thickness in 3 layers.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	sqm			
	a. Materials:				
	Cement mortar 1:4 (1 cement : 4 fine sand) = (0.144/12)x50=				
	0.60 cum				
3.1.4	Rate as per Item No. 3.1.4 of SH: Mortar	cum	0.600	R3259.11	R1955.47
	SBR Polymer				
17028	Qty of cement = 0.60x0.38 = 0.228 MT or 228kg @ 2% of weight				
	of cement 228kg x 2% = 4.56 kg	kg	4.560	R210.00	R957.60
	b. Labour:				

0218*	Mason (average)	Day	1.880	R420.00	R789.60
0212	Coolie	Day	2.040	R310.00	R632.40
0205	Waterman	Day	2.020	R310.00	R626.20
				Total	R4961.27
	Add for sundries and contingencies in/c cost of scaffolding	@	4.00%	R4961.27	R198.45
					R5159.72
	Add for water charges	@	1.00%	R5159.72	R51.60
					R5211.32
	Add GST (multiplying factor)		0.1405	R5211.32	R732.19
					R5943.51
	Add for overheads and contractor's profit	@	15.00%	R5943.51	R891.53
					R6835.04
	Add cess	@	1.00%	R6835.04	R68.35
		Total cost for 10 Sqm		10 Sqm	R6903.39
			Total cost for	1 Sqm	R690.34
				Say,	R690.30

Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, fine sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness.

17.33 Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super-Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)

					<u> </u>		
17.33.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 10 Sqm. Area (0.5cum) M25 concrete 0.5 cum of concrete @ 330 kg/cum	sqm					
	a. Materials:						
5.31.2	Rate as per Item No. 5.31.2 of						
5.51.2	SH : Reinforced Cement Concrete (A)	cum	0.500	R10044.60	R5022.30		
	Deduction for pumping charges: Pumping charges of concrete including Hire charges of pump, pining work & accessories etc.	cum	0.500	R220.00	-R110.00		
	piping work & accessories etc.	Culli	0.300	R220.00	-K110.00		
1 //1 / 🛭	SBR Polymer @2% of cement 165kg = 165x2% = 3.30kg	kg	3.300	R210.00	R693.00		
				Total	R5605.30		
	Add for sundries and contingencies except A	@	3.00%	R583.00	R17.49		
					R5622.79		
	Add for water charges except A	@	1.00%	R600.49	R6.00		
					R5628.79		
	Add GST (multiplying factor) except A		0.1405	R606.49	R85.21		
					R5714.00		
	Add for overheads and contractor's profit except A	@	15.00%	R691.70	R103.76		
			1.000/	D705.40	R5817.76		
	Add cess except A	@	1.00%	R795.46	R7.95		
		Total cost for 10 Sqm			R5825.71		
			Total cost for		R582.57		
				Say,	R582.60		

17.33.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 10 Sqm. Area (0.75cum) M25 concrete 0.75 cum of concrete @ 330 kg/cum	sqm				
	a. Materials:					
5.31.2	Rate as per Item No. 5.31.2 of					
3.31.2	SH : Reinforced Cement Concrete (A)	cum	0.750	R10044.60	R7533.45	
0105	Deduction for pumping charges					
0125	Pumping charges of concrete including Hire charges of pump,	01.100	0.75	D000 00	D405.00	
	piping work & accessories etc.	cum	0.75	R220.00	-R165.00	
17028	SBR Polymer @2% of cement 247.50kg = 247.50x2% = 4.95kg	kg	4.95	R210.00	R1039.50	
				Total	R8407.95	
	Add for sundries and contingencies except A	@	3.00%	R874.50	R26.24	
					R8434.19	
	Add for water charges except A	@	1.00%	R900.74	R9.01	
					R8443.20	
	Add GST (multiplying factor) except A		0.1405	R909.75	R127.82	
					R8571.02	
	Add for overheads and contractor's profit except A	@	15.00%	R1037.57	R155.64	
					R8726.66	
	Add cess except A	@	1.00%	R1193.21	R11.93	

	Total cost for	R8738.59	
	Total cost for	R873.86	
		Say,	R873.90

Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, fine sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness and as per direction of the Engineer-in-charge.

Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate

Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super- Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)

17.34.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum
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17.54.1	Softim thick in Grade in 25 with content content for 1635 than 550 kg per cam					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 10 Sqm. Area (0.5cum) M25 concrete 0.5 cum of concrete @ 330 kg/cum	sqm				
	a. Materials:					
5.31.2	Rate as per Item No. 5.31.2.1 of SH: Reinforced Cement Concrete (A)	cum	0.500	R10044.60	R5022.30	
0125	Deduction for pumping charges: Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	0.50	R220.00	-R110.00	
17028	SBR Polymer @2% of cement 165kg = 165x2% = 3.30kg	kg	3.300	R210.00	R693.00	
				Total	R5605.30	
	Add for sundries and contingencies except A	@	3.00%	R583.00	R17.49	
					R5622.79	
	Add for water charges except A	@	1.00%	R600.49	R6.00	
					R5628.79	
	Add GST (multiplying factor) except A		0.1405	R606.49	R85.21	
					R5714.00	
	Add for overheads and contractor's profit except A	@	15.00%	R691.70	R103.76	
					R5817.76	
	Add cess except A	@	1.00%	R795.46	R7.95	
			Total cost for		R5825.71	
			Total cost for	1 Sqm	R582.57	
				Say,	R582.60	

17.34.2	75mm thick in Grade M 25 with cement content not less than 3	30 kg per	cum		
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00 Sqm. Area (0.75cum) M25 concrete 0.75 cum of concrete @ 330 kg/cum	sqm			
	a. Materials:				
5.31.2	Rate as per Item No. 5.31.2.1 of				
5.51.2	SH: Reinforced Cement Concrete (A)	cum	0.750	R10044.60	R7533.45
0125	Deduction for pumping charges: Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	0.75	R220.00	-R165.00
17028	SBR Polymer @2% of cement 247.50kg = 247.50x2% = 4.95kg	kg	4.95	R210.00	R1039.50
				Total	R8407.95
	Add for sundries and contingencies except A	@	3.00%	R874.50	R26.24
					R8434.19
	Add for water charges except A	@	1.00%	R900.74	R9.01
					R8443.20
	Add GST (multiplying factor) except A		0.1405	R909.75	R127.82
			15.00%	D.1007.57	R8571.02
	Add for overheads and contractor's profit except A	@	15.00%	R1037.57	R155.64
	Add coop expent A		1.00%	D4402.04	R8726.66
	Add cess except A	@ 1.00% R1193.21			R11.93
		Total cost for 10 Sqm Total cost for 1 Sqm			R8738.59 R873.86
			TOTAL COST TO	Say,	R873.90

17.34.3	3 100mm thick in Grade M 25 with cement content not less than 330 kg per cum						
Code	Description Unit Quantity Rate Amount						
	Details of cost for 10 Sqm. Area (1.00cum)	sqm					
	M25 concrete 1.00 cum of concrete @ 330 kg/cum						
	a. Materials:						
5.31.2	Rate as per Item No. 5.31.2.1 of						
5.31.2	SH : Reinforced Cement Concrete (A)	cum	1.000	R10044.60	R10044.60		

	Deduction for pumping charges :				
0125	Pumping charges of concrete including Hire charges of pump,				
	piping work & accessories etc.	cum	1.00	R220.00	-R220.00
17028	SBR Polymer				
17028	@2% of cement 330kg = 330x2% = 6.6kg	kg	6.60	R210.00	R1386.00
				Total	R11210.60
	Add for sundries and contingencies except A	@	3.00%	R1166.00	R34.98
					R11245.58
	Add for water charges except A	@	1.00%	R1200.98	R12.01
					R11257.59
	Add GST (multiplying factor) except A		0.1405	R1212.99	R170.43
					R11428.02
	Add for overheads and contractor's profit except A	@	15.00%	R1383.42	R207.51
					R11635.53
	Add cess except A	@	1.00%	R1590.93	R15.91
		Total cost for 10 Sqm		R11651.44	
			Total cost for	r 1 Sqm	R1165.14
				Say,	R1165.10

17.35	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/ masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per direction of the Engineer- in-Charge. (The payment shall be made on the basis of actual weight of approved grout injected.)					
17.35.1	Stirrer mixed Acrylic Polymer of approved make @ 2% of weishrink compound in concrete/RCC work					
Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for 100 Kg Acrylic polymer mixed cement grout	kg				
	a. Materials:					
	Acrylic Polymer chemical for cracks					
17036	Considering 1 kg of cement grout mixed with non shrink					
	polymer compound with cement @ 2% of cement	kg	2.00	R32.00	R64.00	
03001	Portland Cement	tonne	0.10	R5800.00	R580.00	
0047	b. Labours:		1.00	D 440 00	D 4 40 00	
0216	Foreman	Day	1.00	R440.00	R440.00	
	Nozzleman	Day	1.00	R440.00	R440.00	
0236	Pump Operator	Day	1.00	R440.00 Total	R440.00 R1964.00	
			+	TOTAL	K 1964.00	
	Add for sundries and contingencies in/c carriage of materials & Injecting charges of Stirrer mixed polymer grout Gun, rubber, pipe and other accessories Hire charges of plant, machinery including necessary fuel and transportation of site	@	165.00%	R1964.00	R3240.60	
					R5204.60	
	Add for water charges	@	1.00%	R5204.60	R52.05	
					R5256.65	
	Add GST (multiplying factor)		0.1405	R5256.65	R738.56	
					R5995.21	
	Add for overheads and contractor's profit	@	15.00%	R5995.21	R899.28	
					R6894.49	
	Add cess	@	1.00%	R6894.49	R68.94	
			Total cost for		R6963.43	
			Total cost for	r 1 Kg	R69.63	
				Say,	R69.60	

17.35.2	Stirrer mixed SBR Polymer (of approved make) modified Cenconcrete/RCC work.	nent slurry	made with	Shrinkage Comper	nsating Cement in
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 Kg of SBR polymer mixed cement grout	kg			
	a. Materials:				
17028	SBR Polymer for crack	kg	2.00	R210.00	R420.00
03001	Portland Cement	tonne	0.10	R5800.00	R580.00
	b. Labours:				
0216	Foreman	Day	1.00	R440.00	R440.00
0235	Nozzleman	Day	1.00	R440.00	R440.00
0236	Pump Operator	Day	1.00	R440.00	R440.00
				Total	R2320.00
	Add for sundries and contingencies in/c carriage of materials & Injecting charges of Stirrer mixed polymer grout Gun, rubber, pipe and other accessories Hire charges of plant, machinery including necessary fuel and transportation of site	@	165.00%	R2320.00	R3828.00
				_	R6148.00
	Add for water charges	@	1.00%	R6148.00	R61.48
					R6209.48

Add GST (multiplying factor)		0.1405	R6209.48	R872.43
				R7081.91
Add for overheads and contractor's profit	@	15.00%	R7081.91	R1062.29
				R8144.20
Add cess	@	1.00%	R8144.20	R81.44
		Total cost for	100 Kg	R8225.64
		Total cost for 1		R82.26
			Say,	R82.30

17.35.3	Epoxy injection grout in concrete/RCC work of approved make)			
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Kg of Epoxy grout	kg			
	a. Materials:				
17027	Ероху	kg	10.00	R650.00	R6500.00
0144	Hire charges of plant and Machinery that can inject 350 kg/day	Day	0.03	R320.00	R9.60
	b. Labours:				
0203	Belder	Day	0.06	R310.00	R18.60
0235	Nozzleman	Day	0.03	R440.00	R13.20
				Total	R6541.40
	Add for sundries and contingencies in/c cost of gloves & gogles etc	@	3.00%	R6541.40	R196.24
					R6737.64
	Add for water charges	@	1.00%	R6737.64	R67.38
					R6805.02
	Add GST (multiplying factor)		0.1405	R6805.02	R956.11
					R7761.13
	Add for overheads and contractor's profit	@	15.00%	R7761.13	R1164.17
					R8925.30
	Add cess	@	1.00%	R8925.30	R89.25
				R9014.55	
			Total cost fo	r 1 Kg	R901.46
				Say,	R901.50

Providing, erecting, maintaining and removing temporary protective screens made out of specified fabric with all necessary fixing arrangement to ensure that it remains in position for the work duration as required and as per direction of the Engineer-in-charge.

	of the Engineer in charge.				
17.36.1	Wooven PVC cloth				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	sqm			
	a. Materials:				
17029	Wooven PVC cloth (A)	Sqm.	10.000	R28.00	R280.00
	b. Labours:				
	For fixing and removal after complete work @ 25.0% on (A)	25.0%	on	R280.00	R70.00
				Total	R350.00
	Add for sundries and contingencies in/c fixing double scaffolding outside	@	3.00%	R350.00	R10.50
					R360.50
	Add for water charges	@	1.00%	R360.50	R3.61
					R364.11
	Add GST (multiplying factor)		0.1405	R364.11	R51.16
					R415.27
	Add for overheads and contractor's profit	@	15.00%	R415.27	R62.29
					R477.56
	Add cess	@	1.00%	R477.56	R4.78
			Total cost for	10 Sqm	R482.34
			Total cost for	1 Sqm	R48.23
				Say,	R48.20

17.37 Cleaning of exposed concrete surface of sticking material including loose and foreign material by sand blasting with fine sand followed by and including cleaning with oil free air blast as required and as per direction of the Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm.	sqm			
	a. Machinery:				
0141	Hire charges of sand blasting equipment				
0141	(14 sqm per day)	Day	0.700	R250.00	R175.00
0142	Hire charges for compressor	Day	0.700	R500.00	R350.00
	b. Materials:				
02003	Sand (fine) : Selected quarry	cum	1.000	R560.00	R560.00
	c. Labour:				
0203	Belder	Day	0.700	R310.00	R217.00
				Total	R1302.00
	Add for sundries and contingencies	@	3.00%	R1302.00	R39.06
					R1341.06

Add for water charges	@	1.00%	R1341.06	R13.41	
				R1354.47	
Add GST (multiplying factor)		0.1405	R1354.47	R190.30	
				R1544.77	
Add for overheads and contractor's profit	@	15.00%	R1544.77	R231.72	
				R1776.49	
Add cess	@	1.00%	R1776.49	R17.76	
		Total cost for 10 Sqm			
		Total cost for	⁻ 1 Sqm	R179.43	
			Say,	R179.40	

Shotcreting R.C.C. columns, beams and slabs etc. in layers with approved design mix concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, fine sand and graded stone aggregate of 10 mm maximum size in proportion as per design criteria] including the cost of centering and shuttering at edges and corners etc. as required and as per direction of the Engineer-in-charge.

Note: Rates shall include the providing necessary ground wires etc. The levelling gauges, if used, shall be paid for separately. Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument.

17.38.1	25mm thick in Grade M 25 with cement content not less than 330 kg per cum								
Code	Description	Unit	Quantity	Rate	Amount				
	Details of cost for 10 Sqm. M25 concrete 0.5 cum of concrete @ 330 kg/cum Cubical qty of concrete for 10sqm = 10x1.00x0.025 = 0.25cum Wastage 25% = 0.25x25/100 = 0.0625cum Total = 0.3125 cum	sqm							
	a. Materials:								
5.31.2	Rate as per Item No. 5.31.2 of SH: Reinforced Cement Concrete (A)	cum	0.313	R10044.60	R3138.94				
0139	Compressor, gun, rubber pipes & other accessories - Hire charge of plant & machinery i/c necessary fuel (approx. 40sqm area of shortcrete per day = 10/40 = 0.25 day)	Day	0.25	R4500.00	R1125.00				
	b. Labour:								
0226	Operator (Pile/ Special machine)	Day	0.40	R440.00	R176.00				
0235	Nozzleman/ gun man	Day	0.40	R440.00	R176.00				
0220	Mason (brick layer) 2nd class	Day	0.40	R395.00	R158.00				
0237	Helper (Technician)	Day	0.80	R355.00	R284.00				
0205	Waterman	Day	0.40	R310.00	R124.00				
				Total	R5181.94				
	Add for sundries and contingencies except A	@	3.00%	R2043.00	R61.29				
					R5243.23				
	Add for water charges except A	@	1.00%	R2104.29	R21.04				
					R5264.27				
	Add GST (multiplying factor) except A		0.1405	R2125.33	R298.61				
					R5562.88				
	Add for overheads and contractor's profit except A	@	15.00%	R2423.94	R363.59				
					R5926.47				
	Add cess except A	@	1.00%	R2787.53	R27.88				
			Total cost for		R5954.35				
			Total cost for		R595.44				
				Say,	R595.40				

17.38.2	2 50mm thick in Grade M 25 with cement content not less than 330 kg per cum								
Code	Description	Unit	Quantity	Rate	Amount				
	Details of cost for 10 Sqm. M25 concrete 0.5 cum of concrete @ 330 kg/cum Cubical qty of concrete for 10sqm = 10x1.00x0.050 = 0.50cum Wastage 25% = 0.50x25/100 = 0.125cum Total = 0.625 cum	sqm							
	a. Materials:								
5.31.2	Rate as per Item No. 5.31.2 of SH: Reinforced Cement Concrete (A)	cum	0.625	R10044.60	R6277.88				
0139	Compressor, gun, rubber pipes & other accessories - Hire charge of plant & machinery i/c necessary fuel (approx. 25sqm area of shortcrete per day = 10/25= 0.4day)	Day	0.40	R4500.00	R1800.00				
	b. Labour:								
0226	Operator (Pile/ Special machine)	Day	0.40	R440.00	R176.00				
0235	Nozzleman/ gun man	Day	0.40	R440.00	R176.00				
0220	Mason (brick layer) 2nd class	Day	0.40	R395.00	R158.00				
0237	Helper (Technician)	Day	0.80	R355.00	R284.00				
0205	Waterman	Day	0.40	R310.00	R124.00				
				Total	R8995.88				
	Add for sundries and contingencies except A	@	3.00%	R2718.00	R81.54				
					R9077.42				

Add for water charges except A	@	1.00%	R2799.54	R28.00
				R9105.42
Add GST (multiplying factor) except A		0.1405	R2827.54	R397.27
				R9502.69
Add for overheads and contractor's profit except A	@	15.00%	R3224.81	R483.72
				R9986.41
Add cess except A	@	1.00%	R3708.53	R37.09
		Total cost for 10 sqm		
		Total cost for	r 1 sqm	R1002.35
			Say,	R1002.40

17.38.3								
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 10 Sqm . M25 concrete 0.5 cum of concrete @ 330 kg/cum Cubical qty of concrete for 10sqm = 10x1.00x0.075 = 0.75cum Wastage 25% = 0.75x25/100 = 0.1875cum Total = 0.9375 cum	sqm						
	a. Materials:							
5.31.2	Rate as per Item No. 5.31.2 of SH : Reinforced Cement Concrete (A)	cum	0.938	R10044.60	R9416.81			
0139	Compressor, gun, rubber pipes & other accessories - Hire charge of plant & machinery i/c necessary fuel (approx. 15sqm area of shortcrete per day = 10/15= 0.665day)	Day	0.665	R4500.00	R2992.50			
	b. Labour:							
0226	Operator (Pile/ Special machine)	Day	0.40	R440.00	R176.00			
0235	Nozzleman/ gun man	Day	0.40	R440.00	R176.00			
0220	Mason (brick layer) 2nd class	Day	0.40	R395.00	R158.00			
0237	Helper (Technician)	Day	0.80	R355.00	R284.00			
0205	Waterman	Day	0.40	R310.00	R124.00			
				Total	R13327.31			
	Add for sundries and contingencies except A	@	3.00%	R3910.50	R117.32			
					R13444.63			
	Add for water charges except A	@	1.00%	R4027.82	R40.28			
					R13484.91			
	Add GST (multiplying factor) except A		0.1405	R4068.10	R571.57			
					R14056.48			
	Add for overheads and contractor's profit except A	@	15.00%	R4639.67	R695.95			
					R14752.43			
	Add cess except A	@	1.00%	R5335.62	R53.36			
			Total cost for		R14805.79			
		•	Total cost for	<u> </u>	R1480.58			
				Say,	R1480.60			

Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diametre (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete, as required and as per direction of the Engineer-in-charge.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 20 Nos. holes	each			
	a. Materials:				
	Adhesive chemical				
17031	(750mm deep & 20mm Dia Hole)				
17031	Volume of hole = $20x(3.14/4)x2.00x2.00x7.5 = 471$ cub cm.				
	Adhesive @ 40% of 471ml = 188.40 ml, Say 188ml	ml	188.00	R3.00	R564.00
17032	Bit of drilling machine for Hole upto 30mm dia				
17032	(One Bit done 20 Holes only)	each	1	R560.00	R560.00
17033	GI injection nipple 12mm dia, 75mm long	each	20.00	R48.00	R960.00
17034	Blowing compressed air for cleaning holes upto 30mm dia	each	20.00	R11.00	R220.00
	b. Labour:				
0218*	Mason (average)	Day	0.50	R420.00	R210.00
0212	Coolie	Day	0.50	R310.00	R155.00
0205	Waterman	Day	0.50	R310.00	R155.00
				Total	R2824.00
	Add for sundries and contingencies	@	3.00%	R2824.00	R84.72
					R2908.72
	Add for water charges	@	1.00%	R2908.72	R29.09
					R2937.81
	Add GST (multiplying factor)		0.1405	R2937.81	R412.76
					R3350.57
	Add for overheads and contractor's profit	@	15.00%	R3350.57	R502.59
					R3853.16
	Add cess	@	1.00%	R3853.16	R38.53

	Total cost for 20	R3891.69	
	Total cost for	R194.58	
		Say,	R194.60

17.40	Providing and fixing hard drawn steel wire fabric of size 75 x firmly anchored to the concrete surface by means of "L" shap including the cost of materials, labour, tool & plants, as require	ed mild st	eel shear key	welded with exist	ing reinforcement
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 Sqm. (i.e. 77.50 kg)	sqm			
	a. Materials:				
17035	L shaped 100mm long, 10mm dia mild steel shear key (key to be provided at 0.5 mtr centre to centre in each direction) Total no. of Shear key of MS Bar in 10sqm = 25 nos 25x0.10x0.617 = 1.55 kg	kg	1.550	R78.00	R120.90
0143	Welding charges of shear key to existing reinforcement	each	25	R5.50	R137.50
17030	Hard drawn steel wire fabric 75x25mm, weight 7.75kg/sqm 75x25mm = 10.00 sqm + Add 5% wastage = 0.50sqm Total = 10.50 sqm	sam	10.50	R470.00	R4935.00
	b. Labour:				11.000.00
0207	Blacksmith 2nd class	Day	1.000	R395.00	R395.00
0203	Belder	Day	1.000	R310.00	R310.00
				Total	R5898.40
	Add for sundries and contingencies including carriage of material at site	@	3.00%	R5898.40	R176.95
					R6075.35
	Add for water charges	@	1.00%	R6075.35	R60.75
					R6136.10
	Add GST (multiplying factor)		0.1405	R6136.10	R862.12
					R6998.22
	Add for overheads and contractor's profit	@	15.00%	R6998.22	R1049.73
			1.000	5001505	R8047.95
	Add cess	@	1.00%	R8047.95	R80.48
			Total cost for		R8128.43
			Total cost fo		R812.84
				Say,	R812.80

End

SUB HEAD: 18.0 SANITARY INSTALLATIONS

Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required:

18.1.1 White Vitreous china Orrisa pattern W.C. pan of size 580x440 mm with integral type foot rests.

		,, ,				
Discription	Unit	Quantity		Rate	Am	ount
Details of cost for one pan						
MATERIALS						
White Vitreous china Orrisa pattern W.C. pan each	each	1.00	₹	1,100.00	₹	1,100.00
10 litre low level P.V.C. flushing cistern with	each	1.00	₹	800.00	₹	800.00
fitting accessories and flush pipe						
100 mm Sand C.I. 'P' or'S' trap with vent horn each	each	1.00	₹	320.00	₹	320.00
Mosquito proof coupling of approved design	each	1.00	₹	30.00	₹	30.00
			_		_	
,	3					550.00
	3					220.00
	Day	1.00	<	310.00		310.00
TOTAL					<	3,330.00
Add Carriage for materials and cost for overflow						
3 1 1 1 1	@	1%			₹	33.30
g. r. vo. vopane and many painting or many co. [210.]						
TOTAL					₹	3,363.30
Add for Sundries and contingencies	@	3%			₹	100.90
TOTAL					₹	3,464.20
Add for water charges	@	1%			₹	34.64
TOTAL					₹	3,498.84
Add GST (multiplying factor)		0.1405			₹	491.59
					₹	3,990.43
Add for contractor's profit and overheads	@	15%				598.56
***		40/				4,588.99
	@	1%				45.89
Cost for 1 No.						4,634.88
Say					₹	4,634.90
	Details of cost for one pan MATERIALS White Vitreous china Orrisa pattern W.C. pan each 10 litre low level P.V.C. flushing cistern with fitting accessories and flush pipe 100 mm Sand C.I. 'P' or'S' trap with vent horn each Mosquito proof coupling of approved design LABOUR: Fitter (grade-I) Mason 1st class Beldar TOTAL Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead,white lead ,plug, screws, Gaskin,cement,sand and grit for repairs and fixing, painting of fitting etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 1 No.	Details of cost for one pan MATERIALS White Vitreous china Orrisa pattern W.C. pan each 10 litre low level P.V.C. flushing cistern with each fitting accessories and flush pipe 100 mm Sand C.I. 'P' or'S' trap with vent horn each Mosquito proof coupling of approved design LABOUR: Fitter (grade-I) Mason 1st class Beldar TOTAL Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead, white lead ,plug, screws, Gaskin, cement, sand and grit for repairs and fixing, painting of fitting etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add cess Cost for 1 No.	Details of cost for one pan MATERIALS White Vitreous china Orrisa pattern W.C. pan each each 1.00 10 litre low level P.V.C. flushing cistern with each 1.00 fitting accessories and flush pipe 100 mm Sand C.I. 'P' or'S' trap with vent horn each each 1.00 Mosquito proof coupling of approved design LABOUR: Fitter (grade-I) Mason 1st class Beldar Day 0.50 Beldar TOTAL Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead,white lead ,plug, screws, Gaskin,cement,sand and grit for repairs and fixing, painting of fitting etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads @ 1% Cost for 1 No.	Details of cost for one pan MATERIALS White Vitreous china Orrisa pattern W.C. pan each 1.00 ₹ 10 litre low level P.V.C. flushing cistern with each 1.00 ₹ 100 mm Sand C.I. 'P' or'S' trap with vent horn each each 1.00 ₹ Mosquito proof coupling of approved design each 1.00 ₹ Mason 1st class Beldar TOTAL Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead, white lead, plug, screws, Gaskin, cement, sand and grit for repairs and fixing, painting of fitting etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add cess @ 1% Cost for 1 No.	Details of cost for one pan MATERIALS White Vitreous china Orrisa pattern W.C. pan each each 1.00 ₹ 1,100.00 10 litre low level P.V.C. flushing cistern with each 1.00 ₹ 800.00 fitting accessories and flush pipe 100 mm Sand C.I. 'P' or'S' trap with vent horn each each 1.00 ₹ 320.00 Mosquito proof coupling of approved design each 1.00 ₹ 30.00 LABOUR: Fitter (grade-I) Day 1.25 ₹ 440.00 Mason 1st class Day 0.50 ₹ 440.00 Beldar Day 1.00 ₹ 310.00 TOTAL Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead,white lead ,plug, screws, Gaskin,cement,sand and grit for repairs and fixing, painting of fitting etc. [L.S.] TOTAL Add for Sundries and contingencies @ 3% TOTAL Add for water charges @ 1% TOTAL Add GST (multiplying factor) 0.1405 Add cess @ 15% Add cess Cost for 1 No.	Details of cost for one pan MATERIALS White Vitreous china Orrisa pattern W.C. pan each 1.00 ₹ 1,100.00 ₹ 800.00 ₹ 10 litre low level P.V.C. flushing cistern with each 1.00 ₹ 800.00 ₹ 11 litre low level P.V.C. flushing cistern with each 1.00 ₹ 800.00 ₹ 11 litre low level P.V.C. flushing cistern with each 1.00 ₹ 800.00 ₹ 10 litre low level P.V.C. flushing cistern with each 1.00 ₹ 800.00 ₹ 10 litre low level P.V.C. flushing cistern with each 1.00 ₹ 800.00 ₹ 10 litre low level P.V.C. flushing cistern with each 1.00 ₹ 320.00 ₹ 10 litre low level P.V.C. flushing cistern with each 1.00 ₹ 320.00 ₹ 10 litre low level P.V.C. flushing cistern with each 1.00 ₹ 30.00 ₹ 10 litre low level P.V.C. flushing each 1.00 ₹ 30.00 ₹ 10 litre low level P.V.C. flushing each 1.0

Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required:

Stainless Steel AISI-304(18/8) Orissa pattern W.C pan of size 585x480 mm with flush pipe and integrated type of foot rests.

Code	Discription	Unit	Quantity		Rate	An	nount
	Details of cost for one pan						
	MATERIALS						
18180	Salem Stainless steel AISI - 304 (18/8) Orrisa each pattern W.C. pan 724mm X 578mm	each	1.00	₹	4,500.00	₹	4,500.00
18159	10 litre low level P.V.C. flushing cistern with fitting accessories and flush pipe	each	1.00	₹	800.00	₹	800.00
18070	100 mm Sand C.I. 'P' or'S trap with vent horn each	each	1.00	₹	320.00	₹	320.00
18009	Mosquito proof coupling of approved design	each	1.00	₹	30.00	₹	30.00
	LABOUR						
0215	Fitter (grade-I)	Day	1.25	₹	440.00	₹	550.00
0219	Mason 1st class	Day	0.50	₹	440.00	₹	220.00
0203	Beldar	Day	1.00	₹	310.00	₹	310.00
	TOTAL	-				₹	6,730.00

Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead, white lead ,plug, screws, Gaskin, cement, sand and grit for repairs and fixing, painting of fitting etc. [L.S.]	@	1%	₹	67.30
TOTAL			₹	6,797.30
Add for Sundries and contingencies	@	3%	₹	203.92
TOTAL			₹	7,001.22
Add for water charges	@	1%	₹	70.01
TOTAL			₹	7,071.23
Add GST (multiplying factor)		0.1405	₹	993.51
			₹	8,064.74
Add for contractor's profit and overheads	@	15%	₹	1,209.71
			₹	9,274.45
Add cess	@	1%	₹	92.74
Cost for 1 No.			₹	9,367.19
Say			₹	9,367.20

18.2 Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required:

18.2.1 Code	W.C. pan with ISI marked white solid plastic seat and lid Description Details of cost for one pan MATERIALS	Unit	Quantity		Rate	Amo	ount
18062	White solid plastic seat and lid with C.P. brass each hinges and rubber buffers complete	each	1.00	₹	350.00	₹	350.00
18082	White vitreous china pedestal type W.C. pan each	each	1.00	₹	900.00	₹	900.00
18159	10 litre low level C.I. flushing cistern with fitting accessories and flush pipe	each	1.00	₹	800.00	₹	800.00
18009	Mosquito proof coupling of approved design LABOUR	each	1.00	₹	30.00	₹	30.00
0215	Fitter (grade-I)	Day	1.25	₹	440.00	₹	550.00
0219	Mason 1st class	Day	0.50	₹	440.00	₹	220.00
0203	Beldar	Day	1.00	₹	310.00	₹	310.00
	TOTAL					₹	3,160.00
	Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead, white lead ,plug, screws, Gaskin, cement, sand and grit for repairs and fixing, painting of fitting etc [L.S.]	@	1%			₹	31.60
	TOTAL					₹	3,191.60
	Add for Sundries and contingencies	@	3%			₹	95.75
	TOTAL					₹	3,287.35
	Add 1% for water charges	@	1%			₹	32.87
	TOTAL					₹	3,320.22
	Add GST (multiplying factor)		0.1405			₹	466.49
						₹	3,786.71
	Add for contractor's profit and overheads	@	15%			₹	568.01
						₹	4,354.72
	Add cess	@	1%			₹	43.55
	Cost for 1 No.					₹	4,398.27
	Say					₹	4,398.30

18.2 Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required:

Code	Description	Unit	Quantity		Rate	Amo	unt
	Details of cost for one pan						
	MATERIALS						
18063	Black solid plastic seat and lid with C.P.brass each	each	1.00	₹	300.00	₹	300.00
	hinges and rubber buffers complete						
18082	White vitreous china pedestal type W.C. pan each	each	1.00	₹	900.00	₹	900.00
18159	10 litre low level C.I. flushing cistern with	each	1.00	₹	800.00	₹	800.00
	fitting accessories and flush pipe						
18009	Mosquito proof coupling of approved design	each	1.00	₹	30.00	₹	30.00
	LABOUR						
0215	Fitter (grade-I)	Day	1.25	₹	440.00		550.00
0219	Mason 1st class	Day	0.50	₹	440.00	₹	220.00
0203	Beldar	Day	1.00	₹	310.00	₹	310.00
	TOTAL					₹	3,110.00
	Add Carriage for materials and cost for overflow						
	arrangements and special for overflow pipe, Read		4.07			-	24.40
	lead, white lead , plug, screws, Gaskin, cement, sand and	@	1%			₹	31.10
	grit for repairs and fixing, painting of fitting etc [L.S.]						
	TOTAL					₹	3,141.10
	Add for Sundries and contingencies	@	3%			₹	94.23
	TOTAL					₹	3,235.33
	Add 1% for water charges	@	1%			₹	32.35
	TOTAL					₹	3,267.69
	Add GST (multiplying factor)		0.1405			₹	459.11
						₹	3,726.80
	Add for contractor's profit and overheads	@	15%			₹	559.02
						₹	4,285.82
	Add cess	@	1%			₹	42.86
	Cost for 1 No.					₹	4,328.68
	Say					₹	4,328.70

Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required:

18.3.1 Code	W.C. pan with ISI marked white solid plastic seat and lid. Description	Unit	Quantity		Rate	Amo	unt
	Details of cost for one pan						
	MATERIALS						
18062	White solid plastic seat and lid with C.P. brass each	each	1.00	₹	350.00	₹	350.00
	hinges and rubber buffers complete						
18082	White glazed pedestal type W.C. pan	each	1.00	₹	900.00	₹	900.00
18134	10 litre white glazed vitreous china low level	each	1.00	₹	1,280.00	₹	1,280.00
	flushing cistern with fitting and bracket and						
	40 mm white C.P. flush bend						
18009	Mosquito proof coupling of the approved	each	1.00	₹	30.00	₹	30.00
	municipal design						
	LABOUR						
0215	Fitter (grade-I)	Day	1.00	₹	440.00	₹	440.00
0219	Mason 1st class	Day	1.00	₹	440.00	₹	440.00
0203	Beldar	Day	1.00	₹	310.00	₹	310.00
	TOTAL					₹	3,750.00
	Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead, white lead ,plug, screws, Gaskin, cement, sand and grit for repairs and fixing, painting of fitting etc. [L.S.]	@	1%			₹	37.50

TOTAL			₹	3,787.50
Add for Sundries and contingencies	@	3%	₹	113.63
TOTAL			₹	3,901.13
Add 1% for water charges	@	1%	₹	39.01
TOTAL			₹	3,940.14
Add GST (multiplying factor)		0.1405	₹	553.59
			₹	4,493.73
Add for contractor's profit and overheads	@	15%	₹	674.06
			₹	5,167.79
Add cess	@	1%	₹	51.68
Cost for 1 No.			₹	5,219.47
Say			₹	5,219.50

18.3 Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required:

12 2 2	W.C. pan with ISI marked black solid plastic seat and lid.	
10.3.Z	W.C. pan with 151 marked black solid blastic seat and 110.	

18.3.2	W.C. pan with 151 marked black solid plastic seat and lid.	1116	0		Data	A	
Code	Description	Unit	Quantity		Rate	Amo	ount
	Details of cost for one pan MATERIALS						
18063	Black solid plastic seat and lid with C.P. brass each		1.00	₹	300.00	=	300.00
10003	hinges and rubber buffers complete		1.00	`	300.00	`	300.00
18082	Vitreous china pedestal type W.C. pan	each	1.00	₹	900.00	₹	900.00
18134	10 litre white vitreous china low level flushing each	eacn	1.00	₹	1,280.00		1,280.00
10134	cistern with fitting and bracket and 40 mm		1.00	`	1,200.00	`	1,280.00
	white C.P. flush bend						
18009	Mosquito proof coupling of the approved	each	1.00	₹	30.00	₹	30.00
10003	municipal design	Gacii	1.00	`	30.00	`	30.00
	LABOUR						
0215	Fitter (grade-I)	Day	1.00	₹	440.00	₹	440.00
0219	Mason 1st class	Day	1.00	₹	440.00		440.00
0203	Beldar	Day	1.00	₹	310.00		310.00
	TOTAL	,		1		₹	3,700.00
							,
	Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read						
	lead,white lead ,plug, screws, Gaskin,cement,sand and	@	1%			₹	37.00
	grit for repairs and fixing, painting of fitting etc.[L.S.]						
	TOTAL					₹	3,737.00
	Add for Sundries and contingencies	@	3%			₹	112.11
	TOTAL					₹	3,849.11
	Add 1% for water charges	@	1%			₹	38.49
	TOTAL					₹	3,887.60
	Add GST (multiplying factor)		0.1405			₹	546.21
						₹	4,433.81
	Add for contractor's profit and overheads	@	15%			₹	665.07
						₹	5,098.88
	Add cess	@	1%			₹	50.99
	Cost for 1 No.					₹	5,149.87
	Say					₹	5,149.90

18.4 Fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:

18.4.1 One urinal basin with 5 litre white P.V.C. automatic flushing cistern.

Code	Description	Unit	Quantity		Rate	Amo	unt
	Details of cost for one no.						
	MATERIALS						
18073	Flat back or angular lipped front urinal basin	each	1.00	₹	530.00	₹	530.00
	of 430x260x350 mm and 340x410x265 mm						
	sizes respectively of white vitreous china						
18160	5 litre PVC automatic flushing cistern with	each	1.00	₹	480.00	₹	480.00
	fittings						
18164	Standard size G.I. Flush pipe with brass	each	1.00	₹	460.00	₹	460.00
	unions and clamps including C.P. brass						
	spreaders						
0045	LABOUR	_		_		_	
0215	Fitter (grade-I)	Day	0.88	₹	440.00		387.20
0219 0203	Mason 1st class Beldar	Day	0.88 1.50	₹	440.00 310.00		387.20 465.00
0203	TOTAL	Day	1.50	₹	310.00	₹ ₹	2,709.40
	Add Carriage for materials & cost of white lead, read						2,703.40
	lead,gaskin, cement ,sand,grit for fixing and	@	1%			₹	27.09
	repairs,painting of brackets, fiitings etc. [L.S.]						
	TOTAL					₹	2,736.49
	Add for Sundries and contingencies	@	3%			₹	82.09
	TOTAL					₹	2,818.59
	Add 1% for water charges	@	1%			₹	28.19
	TOTAL					₹	2,846.77
	Add GST (multiplying factor)		0.1405			₹	399.97
						₹	3,246.74
	Add for contractor's profit and overheads	@	15%			₹	487.01
						₹	3,733.75
	Add cess	@	1%			₹	37.34
	Cost for 1 No.					₹	3,771.09
	Say					₹	3,771.10

Fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:

18.4.2 Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern.

10.7.2	range of two armar basins with a little writter ivio.	automatio masim	ig oloteiii.				
Code	Description	Unit	Quantity		Rate	Amo	ount
	Details of cost for one no.						
	MATERIALS						
18073	Flat back or angular lipped front urinal basin	each	2.00	₹	530.00	₹	1,060.00
	of 430x260x350 mm and 340x410x265 mm						
	sizes respectively of white glazed vitreous						
	china						
18160	5 litre PVC automatic flushing cistern with	each	1.00	₹	480.00	₹	480.00
	fittings						
18165	Standard size G.I. Flush pipe with brass	each	1.00	₹	1,020.00	₹	1,020.00
	unions and clamps including C.P. brass						
	spreaders						
	LABOUR						
0215	Fitter (grade-I)	Day	1.5	₹	440.00	₹	660.00
0219	Mason 1st class	Day	1.50	₹	440.00	₹	660.00
0203	Beldar	Day	2.00	₹	310.00	₹	620.00
	TOTAL					₹	4,500.00

Add Carriage for materials & cost of white lead,read lead,gaskin, cement ,sand,grit for fixing and repairs,painting of brackets, fiitings etc. [L.S.]	@	1%	₹	45.00
TOTAL			₹	4,545.00
Add for Sundries and contingencies	@	3%	₹	136.35
TOTAL			₹	4,681.35
Add 1% for water charges	@	1%	₹	46.81
TOTAL			₹	4,728.16
Add GST (multiplying factor)		0.1405	₹	664.31
			₹	5,392.47
Add for contractor's profit and overheads	@	15%	₹	808.87
			₹	6,201.34
Add cess	@	1%	₹	62.01
Cost for 1 No.			₹	6,263.35
Say			₹	6,263.40

18.4 Fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:

18.4.3 Range of three urinal basins with10 litre white P.V.C. automatic flushing cistern.

18.4.3	Range of three urinal basins with 10 litre white P.V.C. aut	omatic flus	ning cistern	•			
Code	Description	Unit	Quantity		Rate	Amo	ount
	Details of cost for one no.						
	MATERIALS						
18073	Flat back or angular lipped front urinal basin	each	3.00	₹	460.00	₹	1,380.00
	of 430x260x350 mm and 340x410x265 mm						
	sizes respectively of white vitreous china						
18161	10 litre PVC automatic flushing cistern with	each	1.00	₹	510.00	₹	510.00
	fittings						
18166	Standard size G.I. Flush pipe with brass	each	1.00	₹	1,380.00	₹	1,380.00
	unions and clamps including C.P. brass						
	spreaders						
	LABOUR						
0215	Fitter (grade-I)	Day	2	₹	440.00	₹	880.00
0219	Mason 1st class	Day	2.00	₹	440.00	₹	880.00
0203	Beldar	Day	3.00	₹	310.00	₹	930.00
	TOTAL					₹	5,960.00
	Add Carriage for materials & cost of white lead,read					_	
	lead,gaskin, cement ,sand,grit for fixing and	@	1%			₹	59.60
	repairs,painting of brackets, fiitings etc. [L.S.] TOTAL					₹	6,019.60
	Add for Sundries and contingencies	@	3%			₹	180.59
	TOTAL	e	370			₹	6,200.19
	Add 1% for water charges	@	1%			₹	62.00
	TOTAL	e	1 70			₹	6,262.19
			0.1405			₹	879.84
	Add GST (multiplying factor)		0.1405				
						₹	7,142.03
	Add for contractor's profit and overheads	@	15%			₹	1,071.30
						₹	8,213.33
	Add cess	@	1%			₹	82.13
	Cost for 1 No.					₹	8,295.46
	Say					₹	8,295.50

18.4 Fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:

18.4.4 Range of four urinal basins with10 litre white P.V.C. automatic flushing cistern.

Code	Description	Unit	Quantity		Rate	Am	ount
	Details of cost for one no.						
	MATERIALS						
18073	Flat back or angular lipped front urinal basin	each	4.00	₹	460.00	₹	1,840.00
	of 430x260x350 mm and 340x410x265 mm						
	sizes respectively of white vitreous china						
18161	10 litre PVC automatic flushing cistern with	each	1.00	₹	510.00	₹	510.00
	fittings						
18167	Standard size G.I. Flush pipe with brass	each	1.00	₹	2,020.00	₹	2,020.00
	unions and clamps including C.P. brass						
	spreaders						
	LABOUR						
0215	Fitter (grade-I)	Day	3.00	₹	440.00		1,320.00
0219	Mason 1st class	Day	3.00	₹	440.00		1,320.00
0203	Beldar	Day	4.00	₹	310.00		1,240.00
	TOTAL					₹	8,250.00
	Add Carriage for materials & cost of white lead,read lead,gaskin, cement ,sand,grit for fixing and	@	1%			₹	82.50
	repairs, painting of brackets, fiitings etc. [L.S.]	e	1 70			`	02.00
	TOTAL					₹	8,332.50
	Add for Sundries and contingencies	@	3%			₹	249.98
	TOTAL					₹	8,582.48
	Add 1% for water charges	@	1%			₹	85.82
	TOTAL					₹	8,668.30
	Add GST (multiplying factor)		0.1405			₹	1,217.90
						₹	9,886.20
	Add for contractor's profit and overheads	@	15%			₹	1,482.93
	·					₹	11,369.13
	Add cess	@	1%			₹	113.69
	Cost for 1 No.					₹	11,482.82
	Say					₹	11,482.80
	•						

Fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS: 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required:

18.5.1	Single half stall urinal with 5 litre P.V.C. automatic flus	hing cistern.					
Code	Description	Unit	Quantity		Rate	An	nount
	Details of cost for one no.						
	MATERIALS						
18168	Half stall urinals of white vitreous china with waste fittings	each	1.00	₹	1,250.00	₹	1,250.00
18160	5 litre PVC automatic flushing cistern with all fittings	each	1.00	₹	480.00	₹	480.00
18018	Standard size flush pipe with unions, spreaders each and clamps all in C.P. brass	each	1.00	₹	270.00	₹	270.00
18067	50 mm diameter standard urinal C.I. Trap with each vent arm outlet grating other couplings in C.P.	each	1.00	₹	175.00	₹	175.00
	brass						
	LABOUR						
0215	Fitter (grade-I)	Day	1.75	₹	440.00	₹	770.00
0219	Mason 1st class	Day	2.00	₹	440.00	₹	880.00
0203	Beldar	Day	4.00	₹	310.00	₹	1,240.00
	TOTAL					₹	5,065.00

Add Carriage for materials & cost of white lead,read lead,gaskin, cement ,sand,grit for fixing and repairs,painting of brackets, fiitings etc.[L.S.]	@	1%	₹	50.65
TOTAL			₹	5,115.65
Add for Sundries and contingencies	@	3%	₹	153.47
TOTAL			₹	5,269.12
Add 1% for water charges	@	1%	₹	52.69
TOTAL			₹	5,321.81
Add GST (multiplying factor)		0.1405	₹	747.71
			₹	6,069.52
Add for contractor's profit and overheads	@	15%	₹	910.43
			₹	6,979.95
Add cess	@	1%	₹	69.80
Cost for 1 No.			₹	7,049.75
Say			₹	7,049.80

18.5 Fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS: 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors:

18.5.2 Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern.

Code	Description	Unit	Quantity		Rate	Am	ount
	Details of cost for one no.						
	MATERIALS						
18168	Two half stall urinals of white vitreous china	each	2.00	₹	1,250.00	₹	2,500.00
	with waste fittings						
18160	5 litre PVC automatic flushing cistern with	each	1.00	₹	480.00	₹	480.00
	fittings						
18019	Standard size flush pipe with unions, spreaders each		1.00	₹	400.00	₹	400.00
4000=	and clamps all in C.P. brass			_		_	
18067	50 mm diameter standard urinal C.I. Trap with each		1.00	₹	175.00	₹	175.00
	vent arm outlet grating other couplings in C.P.						
	brass						
0215	LABOUR	Davi	2.50	=	440.00	3	4 400 00
0215	Fitter (grade-I) Mason 1st class	Day Day	3.00	₹	440.00 440.00		1,100.00 1,320.00
0213	Beldar	Day	6.00	₹	310.00		1,860.00
0200		Day	0.00	`	310.00	₹	7,835.00
	TOTAL					•	7,033.00
	Add Carriage for materials & cost of white lead,read						
	lead,gaskin, cement ,sand,grit for fixing and	@	1%			₹	78.35
	repairs,painting of brackets, fiitings etc.[L.S.]						
	TOTAL					₹	7,913.35
	Add for Sundries and contingencies	@	3%			₹	237.40
	TOTAL					₹	8,150.75
	Add 1% for water charges	@	1%			₹	81.51
	TOTAL					₹	8,232.26
	Add GST (multiplying factor)		0.1405			₹	1,156.63
						₹	9,388.89
	Add for contractor's profit and overheads	@	15%			₹	1,408.33
						₹	10,797.22
	Add cess	@	1%			₹	107.97
	Cost for 1 No.					₹	10,905.19
	Say					₹	10,905.20

18.5 Fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS: 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors:

18.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern.

10.5.5	Range of three half stall urmais with 10 little P.V.C. autom	atic nusnin	ig cistern.				
Code	Description	Unit	Quantity		Rate	Am	ount
	Details of cost for one no.						
	MATERIALS						
18168	Three half stall urinals of white vitreous china with waste fittings	each	3.00	₹	1,250.00	₹	3,750.00
18161	10 litre PVC automatic flushing cistern with fittings	each	1.00	₹	510.00	₹	510.00
18020	Standard size flush pipe with unions, spreaders each and clamps all in C.P. brass		1.00	₹	520.00	₹	520.00
18068	80 mm diameter standard urinal C.I. Trap with each vent arm outlet grating other couplings in C.P.		1.00	₹	225.00	₹	225.00
	brass LABOUR						
0215	Fitter (grade-I)	Day	3.00	₹	440.00	₹	1,320.00
0219	Mason 1st class	Day	3.50	₹	440.00	₹	1,540.00
0203	Beldar	Day	7.00	₹	310.00	₹	2,170.00
	TOTAL	•				₹	10,035.00
	Add Carriage for materials & cost of white lead,read lead,gaskin, cement ,sand,grit for fixing and repairs,painting of brackets, fiitings etc.[L.S.]	@	1%			₹	100.35
	TOTAL					₹	10,135.35
	Add for Sundries and contingencies	@	3%			₹	304.06
	TOTAL					₹	10,439.41
	Add 1% for water charges	@	1%			₹	104.39
	TOTAL					₹	10,543.80
	Add GST (multiplying factor)		0.1405			₹	1,481.40
						₹	12,025.20
	Add for contractor's profit and overheads	@	15%			₹	1,803.78
						₹	13,828.98
	Add cess	@	1%			₹	138.29
	Cost for 1 No.					₹	13,967.27
	Say					₹	13,967.30

Fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS: 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors:

18.5.4 Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18168	Four half stall urinals of white vitreous china	each	4.00	₹	1,250.00	₹	5,000.00
	with waste fittings						
18161	10 litre PVC automatic flushing cistern with	each	1.00	₹	510.00	₹	510.00
	fittings						
18021	Standard size flush pipe with unions, spreaders each		1.00	₹	600.00	₹	600.00
	and clamps all in C.P. brass						
18068	80 mm diameter standard urinal C.I. Trap with each		1.00	₹	225.00	₹	225.00
	vent arm outlet grating other couplings in C.P.						
	LABOUR						
0215	Fitter (grade-I)	Day	3.50	₹	440.00	₹	1,540.00
0219	Mason 1st class	Day	4.00	₹	440.00	₹	1,760.00
0203	Beldar	Day	8.00	₹	310.00	₹	2,480.00

TOTAL			₹	12,115.00
Add Carriage for materials & cost of white lead,read lead,gaskin, cement ,sand,grit for fixing and repairs,painting of brackets, fiitings etc.[L.S.]	@	1%	₹	121.15
TOTAL			₹	12,236.15
Add for Sundries and contingencies	@	3%	₹	367.08
TOTAL			₹	12,603.23
Add 1% for water charges	@	1%	₹	126.03
TOTAL			₹	12,729.27
Add GST (multiplying factor)		0.1405	₹	1,788.46
			₹	14,517.73
Add for contractor's profit and overheads	@	15%	₹	2,177.66
			₹	16,695.39
Add cess	@	1%	₹	166.95
Cost for 1 No.			₹	16,862.34
Say			₹	16,862.30

18.6 Fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. Automatic flushing cistern, with fittings, standard size G.I. flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required:

Quantity

15%

Rate

Amount

Single squatting plate with 5 litre P.V.C. automatic flushing cistern.

	Details of cost for one no. MATERIALS						
18074	Squatting plate of white glazed vitreous china each	each	1.00	₹	950.00	₹	950.00
18160	5 litre PVC automatic flushing cistern with fittings	each	1.00	₹	480.00	₹	480.00
18022	G.I. Flush pipe of standard size with spreaders fittings	each	1.00	₹	175.00	₹	175.00
	LABOUR						
0215	Fitter (grade-I)	Day	1.75	₹	440.00	₹	770.00
0219	Mason 1st class	Day	0.75	₹	440.00	₹	330.00
0203	Beldar	Day	3.00	₹	310.00	₹	930.00
	TOTAL					₹	3,635.00
	Add Carriage for materials , white lead,read lead,gaskin, cement ,sand, grit for fixing and repairs,painting of brackets, fiitings etc.[L.S.]	@	1%			₹	36.35
	TOTAL					₹	3,671.35
	Add for Sundries and contingencies	@	3%			₹	110.14
	TOTAL					₹	3,781.49
	Add 1% for water charges	@	1%			₹	37.81
	TOTAL					₹	3,819.31
	Add GST (multiplying factor)		0.1405			₹	536.61
						₹	4,355.92

18.6 Fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. Automatic flushing cistern, with fittings, standard size G.I. flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required:

Add for contractor's profit and overheads

Add cess

Say

Cost for 1 No.

18.6.1

Code

Description

₹

₹

₹

₹

653.39

50.09

5,009.31

5,059.40

5,059.40

^{18.6.2} Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern.

Code	Description	Unit	Quantity		Rate	Amo	unt
	Details of cost for one no.						
	MATERIALS						
18074	Squatting plate of white glazed vitreous china each		2.00	₹	950.00	₹	1,900.00
18160	5 litre PVC automatic flushing cistern with	each	1.00	₹	480.00	₹	480.00
	fittings						
18023	G.I. Flush pipe of standard size with spreaders each		1.00	₹	250.00	₹	250.00
	fittings						
	LABOUR						
0215	Fitter (grade-I)	Day	2.50	₹	440.00	₹	1,100.00
0219	Mason 1st class	Day	1.00	₹	440.00	₹	440.00
0203	Beldar	Day	4.00	₹	310.00		1,240.00
	TOTAL					₹	5,410.00
	Add Carriage for materials, white lead, read lead, gaskin,	@	1%			₹	54.10
	cement ,sand, grit for fixing and repairs,painting of brackets, fiitings etc.[L.S.]	w	I 70			•	34.10
	TOTAL					₹	5,464.10
	Add for Sundries and contingencies	@	3%			₹	163.92
	TOTAL					₹	5,628.02
	Add 1% for water charges	@	1%			₹	56.28
	TOTAL					₹	5,684.30
	Add GST (multiplying factor)		0.1405			₹	, 798.64
	,					₹	6,482.94
	Add for contractor's profit and overheads	@	15%			₹	972.44
	·					₹	7,455.38
	Add cess	@	1%				74.55
		w	1 70			₹	
	Cost for 1 No.					₹	7,529.93
	Say					₹	7,529.90

Fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. Automatic flushing cistern, with fittings, standard size G.I. flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required:

18.6.3 Range of t	hree squatting plates with 10 litre P.V.C. automatic flushing cistern.
-------------------	--

Code	Description	Unit	Quantity	F	Rate	Amour	nt
	Details of cost for one no.						
	MATERIALS						
18074	Squatting plate of white glazed vitreous china each		3.00	₹	950.00	₹	2,850.00
18161	10 litre PVC automatic flushing cistern with	each	1.00	₹	510.00	₹	510.00
	fitting						
18024	G.I. Flush pipe of standard size with spreaders	each	1.00	₹	300.00	₹	300.00
	fittings						
	LABOUR						
0215	Fitter (grade-I)	Day	3.00	₹	440.00	₹	1,320.00
0219	Mason 1st class	Day	1.50	₹	440.00	₹	660.00
0203	Beldar	Day	5.00	₹	310.00	₹	1,550.00
	TOTAL					₹	7,190.00
	Add Carriage for materials , white lead,read lead,gaskin,	_				_	
	cement ,sand, grit for fixing and repairs,painting of	@	1%			₹	71.90
	brackets, fiitings etc.[L.S.] TOTAL					₹	7,261.90
	Add for Sundries and contingencies	@	3%			₹	217.86
	TOTAL	w	370			₹	7,479.76
	Add 1% for water charges	@	1%			₹	74.80
	TOTAL	w	1 70			₹	7,554.55
			0.1405				•
	Add GST (multiplying factor)		0.1405			₹	1,061.41
	Add for each and a section of the advantage of		450/			₹	8,615.96
	Add for contractor's profit and overheads	@	15%			₹	1,292.39
						₹	9,908.35
	Add cess	@	1%			₹	99.08

Cost for 1 No. ₹ 10,007.43
Say **10,007.40**

18.6 Fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. Automatic flushing cistern, with fittings, standard size G.I. flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required:

18.6.4 Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern.

Code	Description	Unit	Quantity		Rate	Amou	ınt
	Details of cost for one no.						
	MATERIALS						
18074	Squatting plate of white glazed vitreous china	each	4.00	₹	950.00	₹	3,800.00
18161	10 litre PVC automatic flushing cistern with	each	1.00	₹	510.00	₹	510.00
	fitting						
18025	G.I. Flush pipe of standard size with spreaders each fittings		1.00	₹	380.00	₹	380.00
	LABOUR						
0215	Fitter (grade-I)	Day	3.50	₹	440.00	₹	1,540.00
0219	Mason 1st class	Day	1.75	₹	440.00	₹	770.00
0203	Beldar	Day	5.50	₹	310.00		1,705.00
	TOTAL					₹	8,705.00
	Add Carriage for materials, white lead,read lead,gaskin, cement, sand, grit for fixing and repairs,painting of brackets, fiitings etc.[L.S.]	@	1%			₹	87.05
	TOTAL					₹	8,792.05
	Add for Sundries and contingencies	@	3%			₹	263.76
	TOTAL					₹	9,055.81
	Add 1% for water charges	@	1%			₹	90.56
	TOTAL					₹	9,146.37
	Add GST (multiplying factor)		0.1405			₹	1,285.06
						₹	10,431.43
	Add for contractor's profit and overheads	@	15%			₹	1,564.71
						₹	11,996.14
	Add cess	@	1%			₹	119.96
	Cost for 1 No.					₹	12,116.10
	Say					₹	12,116.10

18.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:

18.7.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps

Code	Description	Unit	Quantity		Rate	Amoun	t
	Details of cost for one no.						
	MATERIALS						
18075	630x450 mm flat back wash basin of white	each	1.00	₹	700.00	₹	700.00
	vitreous china						
18065	15 mm C.P. brass pillar taps	each	2.00	₹	210.00	₹	420.00
18078	32 mm diameter C.P. brass waste of standard pattern	each	1.00	₹	80.00	₹	80.00
18001	C.I./M.S. brackets	pair	1.00	₹	88.00	₹	88.00
18008	Brass stop-cock 15 mm dia	each	2.00	₹	210.00	₹	420.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.33	₹	440.00	₹	145.20
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.67	₹	310.00	₹	207.70
	TOTAL					₹	2,206.10
	Add Carriage for materials and cost of white lead, read						
	lead,gaskin, cement ,sand, grit for fixing and	@	1%			₹	22.06
	repairs, painting of brackets, filtings and PVC connection	w	1 70			•	22.00
	etc. [L.S.]						
	TOTAL					₹	2,228.16
	Add for Sundries and contingencies	@	3%			₹	66.84

TOTAL			₹	2,295.01
Add 1% for water charges	@	1%	₹	22.95
TOTAL			₹	2,317.96
Add GST (multiplying factor)		0.1405	₹	325.67
			₹	2,643.63
Add for contractor's profit and overheads	@	15%	₹	396.54
			₹	3,040.17
Add cess	@	1%	₹	30.40
Cost for 1 No.			₹	3,070.57
Say			₹	3,070.60

18.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:

18.7.2 White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar taps. pillar tap.

pillar tap.							
Code	Description	Unit	Quantity		Rate	Amou	nt
	Details of cost for one no.						
	MATERIALS						
18075	630x450 mm flat back wash basin of white	each	1.00	₹	700.00	₹	700.00
	vitreous china						
18065	15 mm C.P. brass pillar taps	each	1.00	₹	210.00	₹	210.00
18078	32 mm diameter C.P. brass waste of standard pattern	each	1.00	₹	80.00	₹	80.00
18001	C.I./M.S. brackets	pair	1.00	₹	88.00	₹	88.00
18008	Brass stop-cock 15 mm dia	each	1.00	₹	210.00	₹	210.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.30	₹	440.00	₹	132.00
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.63	₹	310.00	₹	195.30
	TOTAL					₹	1,760.50
	Add Carriage for materials and cost of white lead,read						
	lead,gaskin, cement ,sand, grit for fixing and	@	1%			₹	17.61
	repairs, painting of brackets, filtings and PVC connection						
	etc. [L.S.] TOTAL					₹	1,778.11
	Add for Sundries and contingencies	@	3%			₹	53.34
	TOTAL	w	370			₹	1,831.45
	Add 1% for water charges	@	1%			₹	18.31
	TOTAL	w	I 70			₹	1,849.76
	Add GST (multiplying factor)		0.1405			₹	259.89
	Add GS1 (maliplying factor)		0.1405			₹	2,109.65
	Add for contractor's profit and arranhoods	@	450/				316.45
	Add for contractor's profit and overheads	@	15%			₹	2,426.10
	Add cess	@	1%			₹	24.26
	Cost for 1 No.	e	1 70			₹	2,450.36
	Say					₹	2,450.40
						-	-,

18.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:

18.7.3 White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18087	550x400 mm flat back wash basin of white	each	1.00	₹	550.00	₹	550.00
	vitreous china						
18065	15 mm C.P. brass piller taps	each	2.00	₹	210.00	₹	420.00
18078	32 mm diameter C.P. brass waste of standard each	each	1.00	₹	80.00	₹	80.00
	pattern						
18001	C.I./M.S. brackets	pair	1.00	₹	88.00	₹	88.00

18008	Brass stop-cock 15 mm dia	each	2.00	₹	210.00	₹	420.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.33	₹	440.00	₹	145.20
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.67	₹	310.00	₹	207.70
	TOTAL					₹	2,056.10
	Add Carriage for materials and cost of white lead,read						
	lead,gaskin, cement ,sand, grit for fixing and	@	1%			₹	20.56
	repairs, painting of brackets, fiitings and PVC connection etc. [L.S.]						
	TOTAL					₹	2,076.66
	Add for Sundries and contingencies	@	3%			₹	62.30
	TOTAL	e	370			₹	2,138.96
	Add 1% for water charges	@	1%			₹	21.39
	TOTAL	C	170			₹	2,160.35
	Add GST (multiplying factor)		0.1405			₹	303.53
	, , , , , , , , , , , , , , , , , , , ,					₹	2,463.88
	Add for contractor's profit and overheads	@	15%			₹	369.58
						₹	2,833.46
	Add cess	@	1%			₹	28.33
	Cost for 1 No.					₹	2,861.79
	Say					₹	2,861.80

18.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:

18.7.4 White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.

Code	Description	Unit	Quantity	Rate	Amou	nt
	Details of cost for one no.					
	MATERIALS					
18087	550x400 mm flat back wash basin of white	each	1.00	₹ 550.00	₹	550.00
	vitreous china					
18065	15 mm C.P. brass piller taps	each	1.00	₹ 210.00	₹	210.00
18078	32 mm diameter C.P. brass waste of standard each		1.00	₹ 80.00	₹	80.00
	pattern					
18001	C.I./M.S. brackets	pair	1.00	₹ 88.00	₹	88.00
18008	Brass stop-cock 15 mm dia	each	1.00	₹ 210.00	₹	210.00
	LABOUR					
0215	Fitter (grade-I)	Day	0.30	₹ 440.00	₹	132.00
0219	Mason 1st class	Day	0.33	₹ 440.00	₹	145.20
0203	Beldar	Day	0.63	₹ 310.00	₹	195.30
	TOTAL				₹	1,610.50
	Add Carriage for materials and cost of white lead,read					
	lead,gaskin, cement ,sand, grit for fixing and	@	1%		₹	16.11
	repairs, painting of brackets, fiitings and PVC connection					
	etc. [L.S.]				=	4 000 04
	TOTAL	@	3%		₹ ₹	1,626.61 48.80
	Add for Sundries and contingencies TOTAL	w	3%		₹	1,675.40
	Add 1% for water charges	@	1%		₹	16.75
	TOTAL	•	170		₹	1,692.16
	Add GST (multiplying factor)		0.1405		₹	237.75
	, as so (manp, jung ractor)		011100		₹	1,929.91
	Add for contractor's profit and overheads	@	15%		₹	289.49
	Add for contractor a profit and evernedus	G	1370		₹	2,219.40
	Add cess	@	1%		₹	22.19
	Cost for 1 No.				₹	2,241.59
	Say				₹	2,241.60

18.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:

18.7.5 White Vitreous China Angle back wash basin size 600x480 mm with single 15 mm C.P. brass pillar tap.

Code	Description	Unit	Quantity		Rate	Amou	ınt
	Details of cost for one no.						
18076	600x480 mm angle back wash basin of white	each	1.00	₹	750.00	₹	750.00
	vitreous china						
18065	15 mm C.P. brass piller taps	each	1.00	₹	210.00	₹	210.00
18078	32 mm diameter C.P. brass waste of standard	each	1.00	₹	80.00	₹	80.00
	pattern						
18001	C.I./M.S. brackets	pair	1.00	₹	88.00	₹	88.00
18008	Brass stop-cock 15 mm dia	each	1.00	₹	210.00	₹	210.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.30	₹	440.00		132.00
0219	Mason 1st class	Day	0.33	₹	440.00		145.20
0203	Beldar	Day	0.63	₹	310.00	₹	195.30
	TOTAL					₹	1,810.50
	Add Carriage for materials and cost of white lead,read						
	lead,gaskin, cement ,sand, grit for fixing and	@	1%			₹	18.11
	repairs, painting of brackets, fiitings and PVC connection etc. [L.S.]						
	TOTAL					₹	1,828.61
	Add for Sundries and contingencies	@	3%			₹	54.86
	TOTAL	0	070			₹	1,883.46
	Add 1% for water charges	@	1%			₹	18.83
	TOTAL	C				₹	1,902.30
	Add GST (multiplying factor)		0.1405			₹	267.27
	· ····································					₹	2,169.57
	Add for contractor's profit and overheads	@	15%			₹	325.44
	rida for contractor o profit and eventicade	C	1070			₹	2,495.01
	Add cess	@	1%			₹	24.95
	Cost for 1 No.					₹	2,519.96
	Say					₹	2,520.00

18.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:

18.7.6 White Vitreous China Angle back wash basin size 400x400 mm with single 15 mm C.P. brass pillar tap.

Code	Description	Unit	Quantity		Rate	Amou	nt
	Details of cost for one no.						
	MATERIALS						
18077	400x400 mm angle back wash basin of white each	each	1.00	₹	550.00	₹	550.00
	vitreous china						
18065	15 mm C.P. brass piller taps	each	1.00	₹	210.00	₹	210.00
18078	32 mm diameter C.P. brass waste of standard each		1.00	₹	48.00	₹	48.00
	pattern						
18001	C.I./M.S. brackets	pair	1.00	₹	48.00	₹	48.00
18008	Brass stop-cock 15 mm dia	each	1.00	₹	210.00	₹	210.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.30	₹	440.00	₹	132.00
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.63	₹	310.00	₹	195.30
	TOTAL					₹	1,538.50
	Add Carriage for materials and cost of white lead,read						
	lead,gaskin, cement ,sand, grit for fixing and	@	1%			₹	15.39
	repairs, painting of brackets, fiitings and PVC connection	_					
	etc. [L.S.] TOTAL					₹	1,553.89
	Add for Sundries and contingencies	@	3%			₹	46.62
	TOTAL	w	3/0			₹	1,600.50
	Add 1% for water charges	<i>@</i>	1%				•
	G	@	1 %			₹	16.01
	TOTAL					₹	1,616.51

Add GST (multiplying factor)		0.1405	₹	227.12
			₹	1,843.63
Add for contractor's profit and overheads	@	15%	₹	276.54
			₹	2,120.17
Add cess	@	1%	₹	21.20
Cost for 1 No.			₹	2,141.37
Say			₹	2,141.40

18.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:

17.7.7	White Vitreous China Flat back wash basin size 450x300 mm with single	15 mm C.F	P. brass pillar ta	ар			
Code	Description	Unit	Quantity		Rate	Amour	nt
	Details of cost for one no.						
	MATERIALS						
18132	450x300 mm angle back wash basin of white each	each	1.00	₹	500.00	₹	500.00
	vitreous china						
18065	15 mm C.P. brass piller taps	each	1.00	₹	210.00	₹	210.00
18078	32 mm diameter C.P. brass waste of standard each pattern		1.00	₹	80.00	₹	80.00
18001	C.I./M.S. brackets	pair	1.00	₹	88.00	₹	88.00
18008	Brass stop-cock 15 mm dia	each	1.00	₹	210.00		210.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.30	₹	440.00	₹	132.00
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.63	₹	310.00	₹	195.30
	TOTAL					₹	1,560.50
	Add Carriage for materials and cost of white lead,read						
	lead,gaskin, cement ,sand, grit for fixing and	@	1%			₹	15.61
	repairs, painting of brackets, fiitings and PVC connection etc. [L.S.]						
	TOTAL					₹	1,576.11
	Add for Sundries and contingencies	@	3%			₹	47.28
	TOTAL	Ü				₹	1,623.39
	Add 1% for water charges	@	1%			₹	16.23
	TOTAL					₹	1,639.62
	Add GST (multiplying factor)		0.1405			₹	230.37
						₹	1,869.99
	Add for contractor's profit and overheads	@	15%			₹	280.50
						₹	2,150.49
	Add cess	@	1%			₹	21.50
	Cost for 1 No.					₹	2,171.99
	Say					₹	2,172.00

18.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:

17.7.8 White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of L5 mm C.P. brass pillar taps with elbow operated levers.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18085	660x460 mm Surgeon type wash basin of	each	1.00	₹	880.00	₹	880.00
	white vitreous china						
18162	15 mm C.P. brass pillar taps (elbow operated each		2.00	₹	495.00	₹	990.00
	lever)						
18078	32 mm diameter C.P. brass waste of standard each		1.00	₹	80.00	₹	80.00
	pattern						
18001	C.I./M.S. brackets	pair	1.00	₹	88.00	₹	88.00
18008	Brass stop-cock 15 mm dia	each	2.00	₹	210.00	₹	420.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.33	₹	440.00	₹	145.20

0219 0203	Mason 1st class Beldar	Day Day	0.33 0.67	₹ 440.00 ₹ 310.00		145.20 207.70
	TOTAL				₹	2,956.10
	Add Carriage for materials and cost of white lead,read lead,gaskin, cement ,sand, grit for fixing and repairs,painting of brackets, fiitings and PVC connection etc. [L.S.]	@	1%		₹	29.56
	TOTAL				₹	2,985.66
	Add for Sundries and contingencies	@	3%		₹	89.57
	TOTAL				₹	3,075.23
	Add 1% for water charges	@	1%		₹	30.75
	TOTAL				₹	3,105.98
	Add GST (multiplying factor)		0.1405		₹	436.39
					₹	3,542.37
	Add for contractor's profit and overheads	@	15%		₹	531.36
					₹	4,073.73
	Add cess	@	1%		₹	40.74
	Cost for 1 No.				₹	4,114.47
	Say				₹	4,114.50

- Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:
- 17.7.9 White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI marked.

Code	Description	Unit	Quantity	Rate	Amo	ount
	Details of cost for one no.					
	MATERIALS					
18085	660x460 mm Surgeon type wash basin of	each	1.00	₹ 880.0	0 ₹	880.00
	white vitreous china					
18162	15 mm C.P. brass piller taps (elbow operated each		1.00	₹ 495.0	0 ₹	495.00
	lever)					
18078	32 mm diameter C.P. brass waste of standard each		1.00	₹ 80.0	0 ₹	80.00
	pattern					
18001	C.I./M.S. brackets	pair	1.00	₹ 88.0	0 ₹	88.00
18008	Brass stop-cock 15 mm dia	each	1.00	₹ 210.0	0 ₹	210.00
	LABOUR					
0215	Fitter (grade-I)	Day	0.30	₹ 440.0	0 ₹	132.00
0219	Mason 1st class	Day	0.33	₹ 440.0	0 ₹	145.20
0203	Beldar	Day	0.63	₹ 310.0	0 ₹	195.30
	TOTAL				₹	2,225.50
	Add Carriage for materials and cost of white lead,read lead,gaskin, cement ,sand, grit for fixing and repairs,painting of brackets, filtings and PVC connection etc. [L.S.]	@	1%		₹	22.26
	TOTAL				₹	2,247.76
	Add for Sundries and contingencies	@	3%		₹	67.43
	TOTAL				₹	2,315.19
	Add 1% for water charges	@	1%		₹	23.15
	TOTAL				₹	2,338.34
	Add GST (multiplying factor)		0.1405		₹	328.54
					₹	2,666.88
	Add for contractor's profit and overheads	@	15%		₹	400.03
					₹	3,066.91
	Add cess	@	1%		₹	30.67
	Cost for 1 No.				₹	3,097.58
	Say				₹	3,097.60

18.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:

Details of cost for one no Details of cost for one no MATERIALS	17.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 m	m C.P. bra	ss pillar tap				
MATERIALS 18181 Salem Stainless steel AISI - 304 (18/8) Round each basin 405mm x 355mm each 1.00 ₹ 1,500.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 210.00 ₹ 80.00	Code	Description	Unit	Quantity		Rate	Amount	
18181 Salem Stainless steel AISI - 304 (18/8) Round each each 1.00 ₹ 1,500.00 ₹		Details of cost for one no						
basin 405mm X 355mm 18065 15 mm C.P. brass piller taps each 1.00 ₹ 210.00 ₹ 210.00 18078 32 mm diameter C.P. brass waste of standard each each 1.00 ₹ 88.00 ₹ 88.00 18008 pattern		MATERIALS						
18065 15 mm C.P. brass piller taps each 1.00 ₹ 210.00 ₹ 210.00 18078 32 mm diameter C.P. brass waste of standard each pattern 18001 C.I.M.S. brackets pass stop-cock 15 mm dia each 1.00 ₹ 88.00 ₹ 88.00 ₹ 88.00 18008 Brass stop-cock 15 mm dia each 1.00 ₹ 210.00 ₹	18181	Salem Stainless steel AISI - 304 (18/8) Round each	each	1.00	₹	1,500.00	₹	1,500.00
18078 32 mm diameter C.P. brass waste of standard each pattern 1.00 ₹ 80.00 ₹ 80.00 pattern 1.00 ₹ 80.00 ₹ 80.00 pattern 1.00 ₹ 80.00 ₹ 88.00 ₹ 88.00 18008 1.00 ₹ 210.00		basin 405mm X 355mm						
Pattern	18065	15 mm C.P. brass piller taps	each	1.00	₹	210.00	₹	210.00
18001 C.I./M.S. brackets pair 1.00 ₹ 88.00 ₹ 88.00 18008 Brass stop-cock 15 mm dia each 1.00 ₹ 210.00 ₹	18078	32 mm diameter C.P. brass waste of standard each	each	1.00	₹	80.00	₹	80.00
18008 Brass stop-cock 15 mm dia each 1.00 ₹ 210.00 ₹		pattern						
LABOUR 0215 Fitter (grade-I) Day 0.30 ₹ 440.00 ₹ 132.00 0219 Mason 1st class Day 0.63 ₹ 440.00 ₹ 145.20 0203 Beldar Day 0.63 ₹ 310.00 ₹ 195.30 TOTAL TOTAL ₹ 2,560.50 Add Carriage for materials and cost of white lead,read lead,gaskin, cement, sand, grit for fixing and repairs,painting of brackets, fiitings and PVC connection etc. [L.S.] ₹ 25.61 TOTAL ₹ 2,586.11 ₹ 2,586.11 Add for Sundries and contingencies ② 3% ₹ 2,663.69 TOTAL ₹ 2,663.69 ₹ 2,663.69 Add 1% for water charges ② 1% ₹ 2,690.33 Add GST (multiplying factor) ₹ 0.1405 ₹ 3,068.32 Add for contractor's profit and overheads ② 15% ₹ 460.25	18001	C.I./M.S. brackets	pair	1.00	₹	88.00	₹	88.00
0215 Fitter (grade-I) Day 0.30 ₹ 440.00 ₹ 132.00 0219 Mason 1st class Day 0.33 ₹ 440.00 ₹ 145.20 0203 Beldar Day 0.63 ₹ 310.00 ₹ 195.30 TOTAL Add Carriage for materials and cost of white lead,read lead,gaskin, cement ,sand, grit for fixing and repairs,painting of brackets, fiitings and PVC connection etc. [L.S.] 1% ₹ 2,586.11 TOTAL 3% ₹ 77.58 TOTAL 3% ₹ 2,663.69 Add 1% for water charges @ 1% ₹ 2,690.33 TOTAL \$ 2,690.33 ₹ 377.99 Add GST (multiplying factor) 0.1405 ₹ 3,068.32 Add for contractor's profit and overheads @ 15% ₹ 460.25	18008	Brass stop-cock 15 mm dia	each	1.00	₹	210.00	₹	210.00
0219 Mason 1st class Day 0.33 ₹ 440.00 ₹ 145.20 0203 Beldar Day 0.63 ₹ 310.00 ₹ 195.30 TOTAL Add Carriage for materials and cost of white lead,read lead,gaskin, cement ,sand, grit for fixing and repairs,painting of brackets, filtings and PVC connection etc. [L.S.] 1% ₹ 2,560.50 TOTAL ₹ 2,586.11 Add for Sundries and contingencies @ 3% ₹ 77.58 TOTAL ₹ 2,663.69 Add 1% for water charges @ 1% ₹ 2,690.33 Add GST (multiplying factor) 0.1405 ₹ 3,068.32 Add for contractor's profit and overheads @ 15% ₹ 460.25		LABOUR						
Day 0.63 ₹ 310.00 ₹ 195.30 TOTAL Add Carriage for materials and cost of white lead,read lead,gaskin, cement ,sand, grit for fixing and repairs,painting of brackets, fiitings and PVC connection etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add 1% for water charges Add 1% for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	0215	Fitter (grade-I)	Day	0.30	₹	440.00	₹	132.00
TOTAL Add Carriage for materials and cost of white lead,read lead,gaskin, cement ,sand, grit for fixing and repairs,painting of brackets, filtings and PVC connection etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add 1% for water charges Add 1% for water charges Add GST (multiplying factor) Add for contractor's profit and overheads ₹ 2,560.50 1% ₹ 25.61 ₹ 2,586.11 ₹ 2,686.19 ₹ 2,663.69 ₹ 2,663.69 ₹ 377.99 ₹ 3,068.32		Mason 1st class	Day	0.33	₹	440.00	₹	145.20
Add Carriage for materials and cost of white lead,read lead,gaskin, cement ,sand, grit for fixing and repairs,painting of brackets, fiitings and PVC connection etc. [L.S.] TOTAL Add for Sundries and contingencies Carriage Add 1% for water charges Add 1% for water charges Add GST (multiplying factor) Add for contractor's profit and overheads Add for contractor's profit and overheads Add Carriage for materials and cost of white lead,read 1% ₹ 25.61 ₹ 2,586.11 ₹ 2,586.11 ₹ 2,683.69 1% ₹ 26.64 ₹ 2,690.33 ₹ 3,77.99 ₹ 3,068.32	0203	Beldar	Day	0.63	₹	310.00	₹	195.30
lead,gaskin, cement ,sand, grit for fixing and repairs,painting of brackets, fiitings and PVC connection etc. [L.S.]@1%₹25.61TOTAL Add for Sundries and contingencies TOTAL Add 1% for water charges TOTAL@3%₹77.58Add 1% for water charges TOTAL Add GST (multiplying factor)@1%₹26.64Add GST (multiplying factor)0.1405₹377.99Add for contractor's profit and overheads@15%₹460.25		TOTAL					₹	2,560.50
repairs, painting of brackets, filtings and PVC connection etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add 1% for water charges Add 1% for water charges Add GST (multiplying factor) Add for contractor's profit and overheads Add for contractor's profit and overheads # 2,586.11 # 2,586.11 # 2,683.69 # 2,663.69 # 2,663.69 # 2,690.33 # 377.99 # 3,068.32		Add Carriage for materials and cost of white lead,read						
repairs, painting of brackets, filtings and PVC connection etc. [L.S.] TOTAL Add for Sundries and contingencies # 2,586.11 Add for Sundries and contingencies # 77.58 TOTAL # 2,663.69 Add 1% for water charges # 26.64 TOTAL # 2,690.33 Add GST (multiplying factor) # 3,7068.32 Add for contractor's profit and overheads # 460.25			@	1%			₹	25 61
TOTAL Add for Sundries and contingencies @ 3% ₹ 77.58 TOTAL F 2,663.69 Add 1% for water charges Add 1% for water charges @ 1% ₹ 26.64 TOTAL Add GST (multiplying factor) ₹ 3,77.99 Add for contractor's profit and overheads @ 15% ₹ 460.25			C				•	20.01
Add for Sundries and contingencies @ 3% ₹ 77.58 TOTAL ₹ 2,663.69 Add 1% for water charges @ 1% ₹ 26.64 TOTAL ₹ 2,690.33 Add GST (multiplying factor) ₹ 377.99 ₹ 3,068.32 Add for contractor's profit and overheads @ 15% ₹ 460.25								
TOTAL ₹ 2,663.69 Add 1% for water charges @ 1% ₹ 26.64 TOTAL ₹ 2,690.33 Add GST (multiplying factor) ₹ 377.99 ₹ 3,068.32 Add for contractor's profit and overheads @ 15% ₹ 460.25			_					•
Add 1% for water charges @ 1% ₹ 26.64 TOTAL ₹ 2,690.33 Add GST (multiplying factor) 0.1405 ₹ 377.99 ₹ 3,068.32 Add for contractor's profit and overheads @ 15% ₹ 460.25		-	@	3%				
TOTAL ₹ 2,690.33 Add GST (multiplying factor) 0.1405 ₹ 377.99 ₹ 3,068.32 Add for contractor's profit and overheads @ 15% ₹ 460.25				4.07				•
Add GST (multiplying factor) 0.1405 ₹ 377.99 ₹ 3,068.32 Add for contractor's profit and overheads @ 15% ₹ 460.25		_	<u>w</u>	1%				
₹ 3,068.32 Add for contractor's profit and overheads @ 15% ₹ 460.25				0.1405				
Add for contractor's profit and overheads @ 15% ₹ 460.25		Add GST (multiplying factor)		0.1405				
		Add for contract of a reflect of contract		450/				•
? 17/87/		Add for contractor's profit and overneads	w.	15%				
Add cess @ 1% ₹ 35.29		Add cess	@	1%				
Cost for 1 No. ₹ 3,563.86			C	1 /0				
Say ₹ 3,563.90								

18.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:

17.7.11 Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap.

Code	Description	Unit	Quantity	F	Rate	Amount	
	Details of cost for one no						
	MATERIALS						
18182	Salem Stainless steel AISI - 304 (18/8) Wash each	each	1.00	₹	2,000.00	₹	2,000.00
	basin 530mm X 345mm						
18065	15 mm C.P. brass pillar taps	each	1.00	₹	210.00	₹	210.00
18078	32 mm diameter C.P. brass waste of standard each	each	1.00	₹	80.00	₹	80.00
	pattern						
18001	C.I./M.S. brackets	pair	1.00	₹	88.00	₹	88.00
18008	Brass stop-cock 15 mm dia	each	1.00	₹	210.00	₹	210.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.30	₹	440.00	₹	132.00
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.63	₹	310.00	₹	195.30
	TOTAL					₹	3,060.50
	Add Carriage for materials and cost of white lead,read lead,gaskin, cement ,sand, grit for fixing and						
	repairs, painting of brackets, filtings and PVC connection	@	1%			₹	30.61
	etc. [L.S.]						
	TOTAL					₹	3,091.11
	Add for Sundries and contingencies	@	3%			₹	92.73
	TOTAL					₹	3,183.84
	Add 1% for water charges	@	1%			₹	31.84

TOTAL			₹	3,215.68
Add GST (multiplying factor)		0.1405	₹	451.80
			₹	3,667.48
Add for contractor's profit and overheads	@	15%	₹	550.12
			₹	4,217.60
Add cess	@	1%	₹	42.18
Cost for 1 No.			₹	4,259.78
Say			₹	4,259.80

18.8

Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one pedestal						
	MATERIALS						
18016	White vitreous china pededstal	each	1.00	₹	750.00	₹	750.00
	LABOUR						
0219	Mason 1st class	Day	0.20	₹	440.00	₹	88.00
0203	Beldar	Day	0.20	₹	310.00	₹	62.00
	TOTAL					₹	900.00
	Add Carriage for all materials and cost of white cement ,mortar for fixing and repairs etc. [L.S.]	@	1%			₹	9.00
	TOTAL					₹	909.00
	Add for Sundries and contingencies	@	3%			₹	27.27
	TOTAL					₹	936.27
	Add 1% for water charges	@	1%			₹	9.36
	TOTAL					₹	945.63
	Add GST (multiplying factor)		0.1405			₹	132.86
						₹	1,078.49
	Add for contractor's profit and overheads	@	15%			₹	161.77
						₹	1,240.26
	Add cess	@	1%			₹	12.40
	Cost for 1 No.					₹	1,252.66
	Say					₹	1,252.70

Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required:

18.9.1	White glazed fire clay kitchen sink of size 600x450x250 mm.
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Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18059	White glazed fire clay kitchen sink of size	each	1.00	₹	1,280.00	₹	1,280.00
	600x450x250 mm						
18001	C.I. Bracket	pair	1.00	₹	88.00	₹	88.00
18002	C.P. brass chain with 40 mm rubber plug	each	1.00	₹	42.00	₹	42.00
18079	40 mm C.P. brass waste	each	1.00	₹	90.00	₹	90.00
18008	Brass stop-cock 15 mm dia	each	1.00	₹	210.00	₹	210.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.22	₹	440.00	₹	96.80
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.56	₹	310.00	₹	173.60
	TOTAL					₹	2,125.60
	Add for paintings of brackets, Carriage of all materials						
	including cost of Red lead, White lead, Gaskin,plugs,					_	
	screws and the materials required to make good walls	@	1%			₹	21.26
	like cement, sand,grit etc. [L.S.]						
	TOTAL					₹	2,146.86
	Add for Sundries and contingencies	@	3%			₹	64.41
	TOTAL	w	3 /0			₹	2,211.26
	Add 1% for water charges	@	1%			₹	22.11
	7 tau 170 to 114to on 41900		. 70			•	

TOTAL			₹	2,233.37
Add GST (multiplying factor)		0.1405	₹	313.79
			₹	2,547.16
Add for contractor's profit and overheads	@	15%	₹	382.07
			₹	2,929.23
Add cess	@	1%	₹	29.29
Cost for 1 No.			₹	2,958.52
Say			₹	2,958.50

18.10

Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:

18.10.1 Kitchen sink with drain board

18.10.1.1 510x1040 mm bowl depth 250mm.

10.10.1.1	510X1040 mm bowl depth 250mm.					
Code	Description	Unit	Quantity	Rate	Amour	nt
	Details of cost for one no.					
	MATERIALS					
18136	Stainless steel kitchen sink - with drain board each	each	1.00	₹ 2,900.00	₹	2,900.00
	bowl depth 250 mm.					
18001	C.I. Brackets	pair	1.00	₹ 88.00	₹	88.00
18002	C.P. brass chain with 40 mm rubber plug	each	1.00	₹ 42.00	₹	42.00
	LABOUR					
0215	Fitter (grade-I)	Day	0.22	₹ 440.00	₹	96.80
0219	Mason 1st class	Day	0.60	₹ 440.00	₹	264.00
0203	Beldar	Day	0.82	₹ 310.00	₹	254.20
	TOTAL				₹	3,645.00
	Add for Carriage of all materials and cost of cement, sand, grit, Red lead, White lead, Gaskin, screws and painting of fittings and brackets etc. [L.S.]	@	1%		₹	36.45
	TOTAL				₹	3,681.45
	Add for Sundries and contingencies	@	3%		₹	110.44
	TOTAL				₹	3,791.89
	Add 1% for water charges	@	1%		₹	37.92
	TOTAL				₹	3,829.81
	Add GST (multiplying factor)		0.1405		₹	538.09
					₹	4,367.90
	Add for contractor's profit and overheads	@	15%		₹	655.19
					₹	5,023.09
	Add cess	@	1%		₹	50.23
	Cost for 1 No.				₹	5,073.32
	Say				₹	5,073.30

18.10

Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:

18.10.1 Kitchen sink with drain board

18.10.1.2 510x1040 mm bowl depth 225mm.

Code	Description		Unit	Quantity		Rate	Amount	
	Details of cost for one no.							
	MATERIALS							
18137	Stainlees steel kitchen sink - with drain board	each		1.00	₹	2,600.00	₹	2,600.00
	510 x 1040mm bowl depth 225 mm.							
18001	C.I. Brackets		pair	1.00	₹	88.00	₹	88.00
18002	C.P. brass chain with 40 mm rubber plug		each	1.00	₹	42.00	₹	42.00
	LABOUR							
0215	Fitter (grade-I)		Day	0.22	₹	440.00	₹	96.80
0219	Mason 1st class		Day	0.60	₹	440.00	₹	264.00
0203	Beldar		Day	0.82	₹	310.00	₹	254.20
	TOTAL						₹	3,345.00

Add for Carriage of all materials and cost of cement, sand, grit, Red lead, White lead, Gaskin, screws and painting of fittings and brackets etc. [L.S.]	@	1%	₹	33.45
TOTAL			₹	3,378.45
Add for Sundries and contingencies	@	3%	₹	101.35
TOTAL			₹	3,479.80
Add 1% for water charges	@	1%	₹	34.80
TOTAL			₹	3,514.60
Add GST (multiplying factor)		0.1405	₹	493.80
			₹	4,008.40
Add for contractor's profit and overheads	@	15%	₹	601.26
			₹	4,609.66
Add cess	@	1%	₹	46.10
Cost for 1 No.			₹	4,655.76
Say			₹	4,655.80

18.10 Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:

18.10.1 Kitchen sink with drain board

18.10.1.3 510x1040 mm bowl depth 200mm.

10.10.1.5	310x1040 mm bowl depth 200mm.					
Code	Description	Unit	Quantity	Rate	Amou	ınt
	Details of cost for one no					
	MATERIALS					
18138	Stainlees steel kitchen sink - with drain board each	each	1.00	₹ 2,400.00) ₹	2,400.00
	510 x 1040mm bowl depth 200 mm.					
18001	C.I. Brackets	pair	1.00	₹ 88.00) ₹	88.00
18002	C.P. brass chain with 40 mm rubber plug	each	1.00	₹ 42.00) ₹	42.00
	LABOUR					
0215	Fitter (grade-I)	Day	0.22	₹ 440.00) ₹	96.80
0219	Mason 1st class	Day	0.60	₹ 440.00) ₹	264.00
0203	Beldar	Day	0.82	₹ 310.00) ₹	254.20
	TOTAL				₹	3,145.00
	Add for Carriage of all materials and cost of cement, sand, grit, Red lead, White lead, Gaskin, screws and painting of fittings and brackets etc. [L.S.]	@	1%		₹	31.45
	TOTAL				₹	3,176.45
	Add for Sundries and contingencies	@	3%		₹	95.29
	TOTAL				₹	3,271.74
	Add 1% for water charges	@	1%		₹	32.72
	TOTAL				₹	3,304.46
	Add GST (multiplying factor)		0.1405		₹	464.28
					₹	3,768.74
	Add for contractor's profit and overheads	@	15%		₹	565.31
					₹	4,334.05
	Add cess	@	1%		₹	43.34
	Cost for 1 No.				₹	4,377.39
	Say				₹	4,377.40

18.10 Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:

18.10.1 Kitchen sink with drain board

18.10.1.4 460x915 mm bowl depth 178mm.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no						
	MATERIALS						
18,139	Stainless steel kitchen sink - with drain board each	each	1.00	₹	2,200.00	₹	2,200.00
	510xl040mm bowl depth 178 mm						
18,001	C.I. Brackets	pair	1.00	₹	88.00	₹	88.00
18002	C.P. brass chain with 40 mm rubber plug	each	1.00	₹	42.00	₹	42.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.22	₹	440.00	₹	96.80

0219 0203	Mason 1st class Beldar	Day Day	0.60 0.82	₹ 440.00 ₹ 310.00		264.00 254.20
	TOTAL				₹	2,945.00
	Add for Carriage of all materials and cost of cement, sand, grit, Red lead, White lead, Gaskin, screws and painting of fittings and brackets etc. [L.S.]	@	1%		₹	29.45
	TOTAL				₹	2,974.45
	Add for Sundries and contingencies	@	3%		₹	89.23
	TOTAL				₹	3,063.68
	Add 1% for water charges	@	1%		₹	30.64
	TOTAL				₹	3,094.32
	Add GST (multiplying factor)		0.1405		₹	434.75
					₹	3,529.07
	Add for contractor's profit and overheads	@	15%		₹	529.36
					₹	4,058.43
	Add cess	@	1%		₹	40.58
	Cost for 1 No.				₹	4,099.01
	Say				₹	4,099.00

18.10 Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:

18.10.2 Kitchen sink without drain board

18.10.2.1 610x510 mm bowl depth 200 mm.

10.10.2.1	610x510 mm bowl depth 200 mm.						
Code	Description	Unit	Quantity		Rate	Amoun	t
	Details of cost for one no						
	MATERIALS						
18140	Stainless steel kitchen sink - without drain	each	1.00	₹	1,800.00	₹	1,800.00
	board 610x510mm bowl depth 200 mm						
18001	C.I. Brackets	pair	1.00	₹	88.00	₹	88.00
18002	C.P. brass chain with 40 mm rubber plug	each	1.00	₹	42.00	₹	42.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.22	₹	440.00	₹	96.80
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.56	₹	310.00	₹	173.60
	TOTAL					₹	2,345.60
	Add for Carriage of all materials and cost of cement, sand, grit, Red lead, White lead, Gaskin, screws and painting of fittings and brackets etc. [L.S.]	@	1%			₹	23.46
	TOTAL					₹	2,369.06
	Add for Sundries and contingencies	@	3%			₹	71.07
	TOTAL					₹	2,440.13
	Add 1% for water charges	@	1%			₹	24.40
	TOTAL					₹	2,464.53
	Add GST (multiplying factor)		0.1405			₹	346.27
						₹	2,810.80
	Add for contractor's profit and overheads	@	15%			₹	421.62
						₹	3,232.42
	Add cess	@	1%			₹	32.32
	Cost for 1 No.					₹	3,264.74
	Say					₹	3,264.70

18.10 Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:

18.10.2 Kitchen sink without drain board

18.10.2.2 610x460 mm bowl depth 200 mm.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no						
	MATERIALS						
18141	Stainless steel kitchen sink - without drain	each	1.00	₹	1,500.00	₹	1,500.00
	board 610x460mm bowl depth 178 mm						

18001	C.I. Brackets	pair	1.00	₹	88.00	₹	88.00
18002	C.P. brass chain with 40 mm rubber plug	each	1.00	₹	42.00	₹	42.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.22	₹	440.00	₹	96.80
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.56	₹	310.00	₹	173.60
	TOTAL					₹	2,045.60
	Add for Carriage of all materials and cost of cement,						
	sand, grit, Red lead, White lead, Gaskin, screws and	@	1%			₹	20.46
	painting of fittings and brackets etc. [L.S.]						
	TOTAL					₹	2,066.06
	Add for Sundries and contingencies	@	3%			₹	61.98
	TOTAL					₹	2,128.04
	Add 1% for water charges	@	1%			₹	21.28
	TOTAL					₹	2,149.32
	Add GST (multiplying factor)		0.1405			₹	301.98
						₹	2,451.30
	Add for contractor's profit and overheads	@	15%			₹	367.69
						₹	2,818.99
	Add cess	@	1%			₹	28.19
	Cost for 1 No.					₹	2,847.18
	Say					₹	2,847.20

18.10 Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:

18.10.2 Kitchen sink without drain board

18.10.2.3 470x420 mm bowl depth 178 mm.

18.10.2.3	470x420 mm bowl depth 178 mm.						
Code	Description	Unit	Quantity		Rate	Amoun	t
	Details of cost for one no						
	MATERIALS						
18142	Stainless steel kitchen sink - without drain	each	1.00	₹	1,150.00	₹	1,150.00
	board 470x420mm bowl depth 178 mm						
18001	C.I. Brackets	pair	1.00	₹	88.00	₹	88.00
18002	C.P. brass chain with 40 mm rubber plug	each	1.00	₹	42.00	₹	42.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.22	₹	440.00	₹	96.80
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.56	₹	310.00	₹	173.60
	TOTAL					₹	1,695.60
	Add for Carriage of all materials and cost of cement, sand, grit, Red lead, White lead, Gaskin, screws and painting of fittings and brackets etc. [L.S.]	@	1%			₹	16.96
	TOTAL					₹	1,712.56
	Add for Sundries and contingencies	@	3%			₹	51.38
	TOTAL					₹	1,763.93
	Add 1% for water charges	@	1%			₹	17.64
	TOTAL					₹	1,781.57
	Add GST (multiplying factor)		0.1405			₹	250.31
						₹	2,031.88
	Add for contractor's profit and overheads	@	15%			₹	304.78
						₹	2,336.66
	Add cess	@	1%			₹	23.37
	Cost for 1 No.					₹	2,360.03
	Say					₹	2,360.00

Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug 40mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete including painting of fittings and brackets, cutting and making good the wall wherever required:

18.11.1	Size 450x300x150mm
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18.11.1	Size 450x300x150mm						
Code	Description	Unit	Quantity		Rate	Amou	nt
	Details of cost for one no.						
	MATERIALS						
18060	White vitreous china laboratory sink of size	each	1.00	₹	950.00	₹	950.00
	450x300x150 mm						
18001	C.I. bracket for wash basin and sinks	pair	1.00	₹	88.00	₹	88.00
18002	C.P. brass chain with 40 mm rubber plug	each	1.00	₹	42.00	₹	42.00
18079	C.P. brass waste 40 mm	each	1.00	₹	90.00	₹	90.00
18069	40 mm C.P. brass trap	each	1.00	₹	300.00	₹	300.00
18088	40 mm C.P. brass union	each	1.00	₹	200.00	₹	200.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.22	₹	440.00	₹	96.80
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.56	₹	310.00	₹	173.60
	TOTAL					₹	2,085.60
	Add for Carriage of all materials and cost of cement, sand, grit, Red lead, White lead, Gaskin, screws and painting of fittings and brackets etc. [L.S.]	@	1%			₹	20.86
	TOTAL					₹	2,106.46
	Add for Sundries and contingencies	@	3%			₹	63.19
	TOTAL					₹	2,169.65
	Add 1% for water charges	@	1%			₹	21.70
	TOTAL					₹	2,191.35
	Add GST (multiplying factor)		0.1405			₹	307.88
						₹	2,499.23
	Add for contractor's profit and overheads	@	15%			₹	374.88
						₹	2,874.11
	Add cess	@	1%			₹	28.74
	Cost for 1 No.					₹	2,902.85
	Say					₹	2,902.80

Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug 40mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete including painting of fittings and brackets, cutting and making good the wall wherever required:

18.11.2 Size 600x450x200m

	OLEO GOOK-FOREGOIIIII						
Code	Description	Unit	Quantity		Rate	Amount	t
	Details of cost for one no						
	MATERIALS						
18061	White vitreous china laboratory sink of size	each	1.00	₹	1,850.00	₹	1,850.00
	600x450x200 mm						
18001	C.I. bracket for wash basin and sinks	pair	1.00	₹	88.00	₹	88.00
18002		each	1.00	₹	42.00	₹	42.00
18079	C.P. brass waste 40 mm	each	1.00	₹	90.00	₹	90.00
18069	40mm C.P. brass trap	each	1.00	₹	300.00	₹	300.00
18088	C.P. brass union, 40mm dia	each	1.00	₹	200.00	₹	200.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.22	₹	440.00	₹	96.80
0219	Mason 1st class	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.56	₹	310.00	₹	173.60
	TOTAL					₹	2,985.60
	Add for Carriage of all materials and cost of cement,						
	sand, grit, Red lead, White lead, Gaskin, screws and painting of fittings and brackets etc. [L.S.]	@	1%			₹	29.86
	TOTAL					₹	3,015.46
	Add for Sundries and contingencies	@	3%			₹	90.46
	TOTAL					₹	3,105.92
	Add 1% for water charges	@	1%			₹	31.06
	TOTAL					₹	3,136.98
	Add GST (multiplying factor)		0.1405			₹	440.75

Say			•	4,133.30
Cov			3	4,155.50
Cost for 1 No.			₹	4,155.53
Add cess	@	1%	₹	41.14
			₹	4,114.39
Add for contractor's profit and overheads	@	15%	₹	536.66
			₹	3,577.73

18.12

Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required:

	required :						
18.12.1	White glazed fire clay draining board of size 600x450x25mm						
Code	Description	Unit	Quantity		Rate	Amour	nt
	Details of cost for one no.						
	MATERIALS						
18163	White glazed fire clay draining board of size	each	1.00	₹	540.00	₹	540.00
	600x450x25 mm						
18001	C.I./M.S. Brackets	pair	1.00	₹	88.00	₹	88.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.06	₹	440.00	₹	26.40
0219	Mason 1st class	Day	0.17	₹	440.00	₹	74.80
0203	Beldar	Day	0.22	₹	310.00	₹	68.20
	TOTAL					₹	797.40
	Add for painting of fittings and brackets , carriage of all materials, including cost of materials to make good walls like cement, sand, grit etc. [L.S.]	@	1%			₹	7.97
	TOTAL					₹	805.37
	Add for Sundries and contingencies	@	3%			₹	24.16
	TOTAL					₹	829.54
	Add 1% for water charges	@	1%			₹	8.30
	TOTAL					₹	837.83
	Add GST (multiplying factor)		0.1405			₹	117.72
						₹	955.55
	Add for contractor's profit and overheads	@	15%			₹	143.33
		_				₹	1,098.88
	Add cess	@	1%			₹	10.99
	Cost for 1 No.					₹	1,109.87
	Say					₹	1,109.90

18.13	Providing and fixing white vitreous china water closet squatting pan (Indian	type)					
18.13.1	Long pattern W.C. pan of size 580 mm						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18080	White glazed vitreous china long pan pattern each	each	1.00	₹	430.00	₹	430.00
	squatting pan size 580 mm						
	LABOUR						
0219	Mason 1st class	Day	0.50	₹	440.00	₹	220.00
0203	Beldar	Day	0.50	₹	310.00	₹	155.00
	TOTAL					₹	805.00
	Add for Carriage of all material and cost of material like						
	Read lead, white lead and Gaskin, cement, sand and grit	@	1%			₹	8.05
	for repairs and painting of fitting etc. [L.S.]						
	TOTAL					₹	813.05
	Add for Sundries and contingencies	@	3%			₹	24.39
	TOTAL					₹	837.44
	Add 1% for water charges	@	1%			₹	8.37
	TOTAL					₹	845.82
	Add GST (multiplying factor)		0.1405			₹	118.84

Say			₹	1,120.40
Cost for 1 No.			₹	1,120.45
Add cess	@	1%	₹	11.09
			₹	1,109.36
Add for contractor's profit and overheads	@	15%	₹	144.70
			₹	964.66

18.13	Providing and fining white views are able to water allows a sweeting way (land	lian tunal					
18.13.2	Providing and fixing white vitreous china water closet squatting pan (Ind Orissa pattern W.C. pan of size 580x440 mm	nan type)					
Code		Unit	Quantity		Data	A	
Coue	Description Description	Unit	Quantity		Rate	Amou	nτ
	Details of cost for one no.						
40004	MATERIALS		4.00	_		_	
18081	White glazed vitreous china Orissa pattern	each	1.00	₹	1,100.00	₹	1,100.00
	squatting pan size 580 mm						
	LABOUR						
0219	Mason 1st class	Day	0.50	₹	440.00	₹	220.00
0203	Beldar	Day	0.50	₹	310.00	₹	155.00
	TOTAL					₹	1,475.00
	Add for Carriage of all material and cost of material like						
	Read lead, white lead and Gaskin, cement, sand and grit	@	1%			₹	14.75
	for repairs and painting of fitting etc. [L.S.]						
	TOTAL					₹	1,489.75
	Add for Sundries and contingencies	@	3%			₹	44.69
	TOTAL					₹	1,534.44
	Add 1% for water charges	@	1%			₹	15.34
	TOTAL					₹	1,549.79
	Add GST (multiplying factor)		0.1405			₹	217.75
						₹	1,767.54
	Add for contractor's profit and overheads	@	15%			₹	265.13
						₹	2,032.67
	Add cess	@	1%			₹	20.33
	Cost for 1 No.					₹	2,053.00
	Say					₹	2,053.00
18.14	Extra for using coloured W.C. pan instead of white W.C. pan						
18.14.1	Orissa pattern W.C. pan 580x440 mm						
Code	Description	Unit	Quantity		Rate	Amou	nt
	Details of cost for one no.						
	MATERIALS						
18143	Coloured Orissa patern W.C. pan	each	1.00	₹	1,280.00	₹	1,280.00
18081	White Orissa patern W.C. pan 580x440 mm	each	1.00	₹	1,100.00		-1,100.00
	Difference of cost				,	₹	180.00
	TOTAL					₹	180.00
	Add for Sundries and contingencies	@	3%			₹	5.40
	TOTAL					₹	185.40
	Add 1% for water charges	@	1%			₹	1.85
	TOTAL					₹	187.25
	Add GST (multiplying factor)		0.1405			₹	26.31
						₹	213.56
	Add for contractor's profit and overheads	@	15%			₹	32.03
						₹	245.59
	Add cess	@	1%			₹	2.46
	Cost for 1 No.					₹	248.05
	Say					₹	248.10

18.15 Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.

 Code
 Description
 Unit
 Quantity
 Rate
 Amount

 Details of cost for one no.

LABOUR 0219 Mason 1st class Day 0.50 ₹ 440.00 ₹ 220.	2.75
0219 Mason 1st class Day 0.50 ₹ 440.00 ₹ 220. 0203 Beldar Day 0.50 ₹ 310.00 ₹ 155. TOTAL ₹ 1,275. Add for Carriage of all material and cost of material like Read lead, white lead and Gaskin, cement, sand and grit @ 1% ₹ 12.7	55.00 75.00 2.75
Day 0.50 ₹ 310.00 ₹ 155. TOTAL Add for Carriage of all material and cost of material like Read lead,white lead and Gaskin,cement,sand and grit @ 1% ₹ 12.7	55.00 75.00 2.75
TOTAL Add for Carriage of all material and cost of material like Read lead,white lead and Gaskin,cement,sand and grit @ 1% ₹ 1,275.	75.00 2.75
Add for Carriage of all material and cost of material like Read lead,white lead and Gaskin,cement,sand and grit @ 1% ₹ 12.7	2.75
Read lead,white lead and Gaskin,cement,sand and grit @ 1% ₹ 12.7	
and the control of th	
TOTAL ₹ 1,287.	7.75
Add for Sundries and contingencies @ 3% ₹ 38.6	3.63
TOTAL ₹ 1,326.	6.38
-	3.26
TOTAL ₹ 1,339.	
Add GST (multiplying factor) O.1405 ₹ 188.2	3.22
₹ 1,527.8	7.87
Add for contractor's profit and overheads @ 15% ₹ 229.7	⊋.18
₹ 1,757.0	7.05
	7.57
Cost for 1 No. ₹ 1,774.6	1.62
Say ₹ 1,774.	4.60

18.16 Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no						
	MATERIALS						
18144	Coloured (European type) W.C. pan	each	1.00	₹	880.00	₹	880.00
18082	White (European type) W.C. pan	each	1.00	₹	900.00	₹	-900.00
18145	Coloured low level cistern	each	1.00	₹	1,150.00	₹	1,150.00
18133	White vitreous china low level flushing cistern each	each	1.00	₹	800.00	₹	-800.00
	10 litre capacity						
	Difference of cost					₹	330.00
	TOTAL					₹	330.00
	Add for Sundries and contingencies	@	3%			₹	9.90
	TOTAL					₹	339.90
	Add 1% for water charges	@	1%			₹	3.40
	TOTAL					₹	343.30
	Add GST (multiplying factor)		0.1405			₹	48.23
						₹	391.53
	Add for contractor's profit and overheads	@	15%			₹	58.73
						₹	450.26
	Add cess	@	1%			₹	4.50
	Cost for 1 No.					₹	454.76
	Say					₹	454.80

18.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet:

18.17.1 Code	250x130x30 mm Description Details of cost for one pair	Unit	Quantity		Rate	Amount	
18010	MATERIALS White vitreous china foot rest of standard pattern for squatting pan W.C.	pair	1.00	₹	100.00	₹	100.00
0219	LABOUR Mason 1st class TOTAL	Day	0.06	₹	440.00	₹ ₹	26.40 126.40
	Add for Carriage of all material and cost of material like cement, sand and grit for repairs/fixing etc. [L.S.]	@	1%			₹	1.26

		₹	127.66
@	3%	₹	3.83
		₹	131.49
@	1%	₹	1.31
		₹	132.81
	0.1405	₹	18.66
		₹	151.47
@	15%	₹	22.72
		₹	174.19
@	1%	₹	1.74
		₹	175.93
		₹	175.90
	@	@ 1%0.1405@ 15%	@ 3% ₹ ₹ @ 1% ₹ ₹ 0.1405 ₹ ₹ @ 15% ₹ @ 1% ₹

18.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet:

18.17.2 Code	250x125x25 mm Description	Unit	Quantity		Rate	Amount	
	Details of cost for one pair						
	MATERIALS						
18084	White glazed vitreous china foot rest of	pair	1.00	₹	90.00	₹	90.00
	standard pattern for squatting pan W.C.						
	LABOUR						
0219	Mason lst class	Day	0.06	₹	440.00	₹	26.40
	TOTAL					₹	116.40
	Add for Carriage of all material and cost of material like cement, sand and grit for repairs/fixing etc. [L.S.]	@	1%			₹	1.16
	TOTAL					₹	117.56
	Add for Sundries and contingencies	@	3%			₹	3.53
	TOTAL					₹	121.09
	Add 1% for water charges	@	1%			₹	1.21
	TOTAL					₹	122.30
	Add GST (multiplying factor)		0.1405			₹	17.18
						₹	139.48
	Add for contractor's profit and overheads	@	15%			₹	20.92
						₹	160.40
	Add cess	@	1%			₹	1.60
	Cost for 1 No.					₹	162.00
	Say					₹	162.00

18.18 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.

18.18.1	10 litre capacity-White						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no						
	MATERIALS						
18159	Flushing Cistern P.V.C. 10 Its capacity (low	each	1.00	₹	800.00	₹	800.00
	level) (White) (with fittings, accessories and						
	flush pipe)						
	LABOUR						
	(Considering 1 fitter and 1 beldar can fix 8						
	cistern in one day)						
0215	Fitter grade-I	Day	0.125	₹	440.00	₹	55.00
0203	Beldar	Day	0.125	₹	310.00	₹	38.75
	TOTAL					₹	893.75
	Add Carriage for all materials and cost of Read lead, white lead and Gaskin, cement, sand and grit for repairs etc. [L.S.]	@	1%			₹	8.94

TOTAL			₹	902.69
Add for Sundries and contingencies	@	3%	₹	27.08
TOTAL			₹	929.77
Add 1% for water charges	@	1%	₹	9.30
TOTAL			₹	939.07
Add GST (multiplying factor)		0.1405	₹	131.94
			₹	1,071.01
Add for contractor's profit and overheads	@	15%	₹	160.65
			₹	1,231.66
Add cess	@	1%	₹	12.32
Cost for 1 No.			₹	1,243.98
Say			₹	1,244.00

18.18 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.

18.18.2 Code	10 litre capacity-coloured Description Details of cost for one no MATERIALS	Unit	Quantity		Rate	Amou	nt
18156	Coloured High density polyethylene/ poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	1.00	₹	690.00	₹	690.00
	LABOUR (Considering 1 fitter and 1 holder can fix 8						
	(Considering 1 fitter and 1 beldar can fix 8 cistern in one day)						
0215	Fitter grade-I	Day	0.125	₹	440.00	₹	55.00
0203	Beldar	Day	0.125	₹	310.00		38.75
	TOTAL					₹	783.75
	Add Carriage for all materials and cost of Read lead, white lead and Gaskin, cement, sand and grit for repairs etc. [L.S.]	@	1%			₹	7.84
	TOTAL					₹	791.59
	Add for Sundries and contingencies TOTAL	@	3%			₹ ₹	23.75 815.34
	Add 1% for water charges	@	1%			₹	8.15
	TOTAL					₹	823.49
	Add GST (multiplying factor)		0.1405			₹	115.70
						₹	939.19
	Add for contractor's profit and overheads	@	15%			₹	140.88
	Add acco		4.0/			₹	1,080.07
	Add cess Cost for 1 No.	@	1%			₹	10.80 1,090.87
						₹	1,090.07
	Say					•	1,030.30

18.19 Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.

18.19.1	10 litre (full flush) capacity-white						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
7126	Controlled flush cistern with accessories	each	1.00	₹	920.00	₹	920.00
	LABOUR						
0215	Fitter grade-I	Day	0.50	₹	440.00	₹	220.00
0203	Beldar	Day	0.50	₹	310.00	₹	155.00
	TOTAL					₹	1,295.00
	Add Carriage for all materials and cost of Read						
	lead,white lead and Gaskin,cement,sand and grit for repairs etc. [L.S.]	@	1%			₹	12.95

TOTAL			₹	1,307.95
Add for Sundries and contingencies	@	3%	₹	39.24
TOTAL			₹	1,347.19
Add 1% for water charges	@	1%	₹	13.47
TOTAL			₹	1,360.66
Add GST (multiplying factor)		0.1405	₹	191.17
			₹	1,551.83
Add for contractor's profit and overheads	@	15%	₹	232.77
			₹	1,784.60
Add cess	@	1%	₹	17.85
Cost for 1 No.			₹	1,802.45
Say			₹	1,802.50

18.19 Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.

18.19.2	10 litre (full flush) capacity-coloured						
Code	Description	Unit	Quantity		Rate	Amount	t
	Details of cost for one no.						
	MATERIALS						
18158	Controlled flush cistern with accessories	each	1.00	₹	1,260.00	₹	1,260.00
	LABOUR						
0215	Fitter grade-I	Day	0.50	₹	440.00	₹	220.00
0203	Beldar	Day	0.50	₹	310.00	₹	155.00
	TOTAL					₹	1,635.00
	Add Carriage for all materials and cost of Read						
	lead, white lead and Gaskin, cement, sand and grit for	@	1%			₹	16.35
	repairs etc. [L.S.]						
	TOTAL					₹	1,651.35
	Add for Sundries and contingencies	@	3%			₹	49.54
	TOTAL					₹	1,700.89
	Add 1% for water charges	@	1%			₹	17.01
	TOTAL					₹	1,717.90
	Add GST (multiplying factor)		0.1405			₹	241.36
						₹	1,959.26
	Add for contractor's profit and overheads	@	15%			₹	293.89
						₹	2,253.15
	Add cess	@	1%			₹	22.53
	Cost for 1 No.					₹	2,275.68
	Say					₹	2,275.70

18.20	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :						
18.20.1	White solid plastic seat with lid						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for one no.						
	MATERIALS						
18062	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	1.00	₹ 350.00	₹	350.00	
	TOTAL				₹	350.00	
	Add Carriage for all materials & fixing charges etc. [L.S.]	@	1%		₹	3.50	
	TOTAL				₹	353.50	
	Add for Sundries and contingencies	@	3%		₹	10.61	
	TOTAL				₹	364.11	
	Add 1% for water charges	@	1%		₹	3.64	
	TOTAL				₹	367.75	
	Add GST (multiplying factor)		0.1405		₹	51.67	
					₹	419.42	
	Add for contractor's profit and overheads	@	15%		₹	62.91	
					₹	482.33	
	Add cess	@	1%		₹	4.82	

 Cost for 1 No.
 ₹
 487.15

 Say
 ₹
 487.10

18.20 Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :

18.20.2	Black solid plastic seat with lid
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Black solid plastic seat with lid						
Description	Unit	Quantity		Rate	Amount	
Details of cost for one no.						
MATERIALS						
Black solid plastic seat and lid with C.P. brass each		1.00	₹	300.00	₹	300.00
hinges and rubber buffers complete						
TOTAL					₹	300.00
Add Carriage for all materials & fixing charges etc. [L.S.]	@	1%			₹	3.00
TOTAL					₹	303.00
Add for Sundries and contingencies	@	3%			₹	9.09
TOTAL					₹	312.09
Add 1% for water charges	@	1%			₹	3.12
TOTAL					₹	315.21
Add GST (multiplying factor)		0.1405			₹	44.29
					₹	359.50
Add for contractor's profit and overheads	@	15%			₹	53.93
					₹	413.43
Add cess	@	1%				4.13
Cost for 1 No.					₹	417.56
Say					₹	417.60
	Details of cost for one no. MATERIALS Black solid plastic seat and lid with C.P. brass each hinges and rubber buffers complete TOTAL Add Carriage for all materials & fixing charges etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add 1% for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 1 No.	Description Details of cost for one no. MATERIALS Black solid plastic seat and lid with C.P. brass each hinges and rubber buffers complete TOTAL Add Carriage for all materials & fixing charges etc. [L.S.] @ TOTAL Add for Sundries and contingencies @ TOTAL Add 1% for water charges @ TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 1 No.	Details of cost for one no. MATERIALS Black solid plastic seat and lid with C.P. brass each inges and rubber buffers complete TOTAL Add Carriage for all materials & fixing charges etc. [L.S.] @ 1% TOTAL Add for Sundries and contingencies @ 3% TOTAL Add 1% for water charges 1% TOTAL Add GST (multiplying factor)	Description Unit Quantity Details of cost for one no. MATERIALS Black solid plastic seat and lid with C.P. brass each hinges and rubber buffers complete TOTAL 1.00 ₹ Add Carriage for all materials & fixing charges etc. [L.S.] @ 1% TOTAL Add for Sundries and contingencies @ 3% TOTAL 4dd 1% for water charges @ 1% TOTAL Add 1% for water charges @ 1% TOTAL Add GST (multiplying factor) 0.1405 Add for contractor's profit and overheads @ 15% Add cess @ 1% Cost for 1 No. 1%	Description Unit Quantity Rate Details of cost for one no. MATERIALS Black solid plastic seat and lid with C.P. brass each hinges and rubber buffers complete TOTAL 1.00 ₹ 300.00 Add Carriage for all materials & fixing charges etc. [L.S.] @ 1% 1% TOTAL Add for Sundries and contingencies @ 3% 1% TOTAL Add 1% for water charges @ 1% 1% TOTAL Add GST (multiplying factor) 0.1405 15% Add for contractor's profit and overheads @ 15% 15% Add cess @ 1% 15% Cost for 1 No. 1% 1%	Description Unit Quantity Rate Amount Details of cost for one no. HATERIALS 1.00 ₹ 300.00 ₹ Black solid plastic seat and lid with C.P. brass each hinges and rubber buffers complete 1.00 ₹ 300.00 ₹ TOTAL *** 1% ₹ Add Carriage for all materials & fixing charges etc. [L.S.] @ 1% ₹ TOTAL *** *** ₹ Add for Sundries and contingencies @ 3% ₹ TOTAL *** *** ₹ Add 1% for water charges @ 1% ₹ TOTAL *** ₹ Add GST (multiplying factor) 0.1405 ₹ Add for contractor's profit and overheads @ 15% ₹ Add cess @ 1% ₹ Cost for 1 No. ₹ ₹

18.21 Extra for providing coloured other than black solid P.V.C. plastic seat and cover in European type W.C. pan, instead of white plastic seat and cover.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18146	Coloured P.V.C. plastic seat and lid	each	1.00	₹	390.00	₹	390.00
18062	White P.V.C. plastic seat and lid	each	1.00	₹	350.00	₹	-350.00
	Difference of cost					₹	40.00
	Add for Sundries and contingencies	@	3%			₹	1.20
	TOTAL					₹	41.20
	Add 1% for water charges	@	1%			₹	0.41
	TOTAL					₹	41.61
	Add GST (multiplying factor)		0.1405			₹	5.85
						₹	47.46
	Add for contractor's profit and overheads	@	15%			₹	7.12
						₹	54.58
	Add cess	@	1%			₹	0.55
	Cost for 1 No.					₹	55.13
	Say					₹	55.10

18.22 Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.

10.2	2 Troviding and fixing on finet confection for hash pipe con	meeting with W.O. pan.									
Cod	e Description	Unit	Quantity	Rate	Amount						
	Details of cost for one no.										
	MATERIALS										
180	26 G.I. Inlet connection	each	1.00	₹ 78.00	₹	78.00					
	TOTAL				₹	78.00					
	Add Carriage for all materials & fixing charges	etc.[L.S.] @	1%		₹	0.78					
	TOTAL				₹	78.78					
	Add for Sundries and contingencies	@	3%		₹	2.36					

TOTAL			₹	81.14
Add 1% for water charges	@	1%	₹	0.81
TOTAL			₹	81.95
Add GST (multiplying factor)		0.1405	₹	11.51
			₹	93.46
Add for contractor's profit and overheads	@	15%	₹	14.02
			₹	107.48
Add cess	@	1%	₹	1.07
Cost for 1 No.			₹	108.55
Say			₹	108.60

18.23 Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively.

Code	Description	Unit	Quantity	Rate	Amoun	t
	Details of cost for one no.					
	MATERIALS					
18073	Flat back or wall corner type lipped front	each	1.00	₹ 460.00	₹	460.00
	urinal basin 430x260x350 mm and					
	340x410x260 mm respectively of white					
	vitreous china					
	LABOUR					
0215	Fitter grade-I	Day	0.38	₹ 440.00	₹	167.20
0203	Beldar	Day	0.38	₹ 310.00	₹	117.80
	TOTAL				₹	745.00
	Add Carriage for all materials etc.[L.S.]	@	1%		₹	7.45
	TOTAL				₹	752.45
	Add for Sundries and contingencies	@	3%		₹	22.57
	TOTAL				₹	775.02
	Add 1% for water charges	@	1%		₹	7.75
	TOTAL				₹	782.77
	Add GST (multiplying factor)		0.1405		₹	109.98
					₹	892.75
	Add for contractor's profit and overheads	@	15%		₹	133.91
	Address		40/		₹	1,026.66
	Add cess	@	1%		₹	10.27
	Cost for 1 No.				₹ ₹	1,036.93
	Say				<	1,036.90

18.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.							
Code	Description	Unit	Quantity		Rate	Amoun	t	
	Details of cost for one no.							
	MATERIALS							
18074	Squatting plate urinal of white vitreous china each	each	1.00	₹	950.00	₹	950.00	
	with integral longitudinal flush pipe							
	LABOUR							
0215	Fitter grade-I	Day	0.50	₹	440.00	₹	220.00	
0219	Mason 1st class	Day	0.50	₹	440.00	₹	220.00	
0203	Beldar	Day	1.00	₹	310.00	₹	310.00	
	TOTAL					₹	1,700.00	
	Add Carriage for all materials and cost of cement, sand and grit for fixing/repairs etc.[L.S.]	@	1%			₹	17.00	
	TOTAL					₹	1,717.00	
	Add for Sundries and contingencies	@	3%			₹	51.51	
	TOTAL					₹	1,768.51	
	Add 1% for water charges	@	1%			₹	17.69	
	TOTAL					₹	1,786.20	

Add GST (multiplying factor)		0.1405	₹	250.96
			₹	2,037.16
Add for contractor's profit and overheads	@	15%	₹	305.57
			₹	2,342.73
Add cess	@	1%	₹	23.43
Cost for 1 No.			₹	2,366.16
Say			₹	2,366.20

18.25 Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings:

18.25.1 Code	Flat back wash basin of size 630x450mm. Description	Unit	Quantity		Rate	Amour	ıt
	Details of cost for one no						
40075	MATERIALS		4.00			_	
18075	White vitreous china flat back wash basin	each	1.00	₹	700.00	₹	700.00
	630x450 mm						
	LABOUR						
0215	Fitter grade-I	Day	0.30	₹	440.00	₹	132.00
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0203	Beldar	Day	0.30	₹	310.00	₹	93.00
	TOTAL					₹	969.00
	Add Carriage for all materials etc. [L.S.]	@	1%			₹	9.69
	TOTAL					₹	978.69
	Add for Sundries and contingencies	@	3%			₹	29.36
	TOTAL					₹	1,008.05
	Add 1% for water charges	@	1%			₹	10.08
	TOTAL					₹	1,018.13
	Add GST (multiplying factor)		0.1405			₹	143.05
						₹	1,161.18
	Add for contractor's profit and overheads	@	15%			₹	174.18
						₹	1,335.36
	Add cess	@	1%			₹	13.35
	Cost for 1 No.					₹	1,348.71
	Say					₹	1,348.70

18.25 Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :

18.25.2 Code	Flat back wash basin of size 550x400mm.	Unit	Quantity		Rate	Amoun	
Code	Description Details of cost for one no.	Unit	Quantity		Rate	Amoun	1
40007	MATERIALS		4.00			_	
18087	White vitreous china flat back wash basin	each	1.00	₹	550.00	₹	550.00
	550x400 mm						
	LABOUR						
0215	Fitter grade-I	Day	0.30	₹	440.00	₹	132.00
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0203	Beldar	Day	0.30	₹	310.00	₹	93.00
	TOTAL					₹	819.00
	Add Carriage for all materials etc. [L.S.]	@	1%			₹	8.19
	TOTAL					₹	827.19
	Add for Sundries and contingencies	@	3%			₹	24.82
	TOTAL					₹	852.01
	Add 1% for water charges	@	1%			₹	8.52
	TOTAL					₹	860.53
	Add GST (multiplying factor)		0.1405			₹	120.90
						₹	981.43
	Add for contractor's profit and overheads	@	15%			₹	147.21
						₹	1,128.64
	Add cess	@	1%			₹	11.29
	Cost for 1 No.					₹	1,139.93

₹

₹

1%

13.63

1,376.55 **1,376.50**

Say ₹ 1,139.90

18.25 Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings: -

18.25.3	Angle back wash basin of size 600x480mm.						
Code	Description	Unit	Quantity		Rate	Amour	nt
	Details of cost for one no.						
	MATERIALS						
18076	White vitreous china angle flat back wash	each	1.00	₹	720.00	₹	720.00
	basin 600x480 mm						
	LABOUR						
0215	Fitter grade-I	Day	0.30	₹	440.00	₹	132.00
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0203	Beldar	Day	0.30	₹	310.00	₹	93.00
	TOTAL					₹	989.00
	Add Carriage for all materials etc. [L.S.]	@	1%			₹	9.89
	TOTAL					₹	998.89
	Add for Sundries and contingencies	@	3%			₹	29.97
	TOTAL					₹	1,028.86
	Add 1% for water charges	@	1%			₹	10.29
	TOTAL					₹	1,039.15
	Add GST (multiplying factor)		0.1405			₹	146.00
						₹	1,185.15
	Add for contractor's profit and overheads	@	15%			₹	177.77
						₹	1,362.92

18.25 Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings:

18.25.4 Code	Angle back wash basin of size 400x400mm. Description Details of cost for one no.	Unit	Quantity		Rate	Amount	
18077	MATERIALS White vitreous china angle flat back wash basin 400x400 mm	each	1.00	₹	420.00	₹	420.00
0215 0219	LABOUR Fitter grade-I Mason 1st class	Day Day	0.30 0.10	₹	440.00 440.00		132.00 44.00
0203	Beldar TOTAL Add Carriage for all materials etc. [L.S.]	Day @	0.30 1%	₹	310.00	₹ ₹	93.00 689.00 6.89
	TOTAL Add for Sundries and contingencies TOTAL	@	3%			₹ ₹	695.89 20.88 716.77
	Add 1% for water charges TOTAL	@	1%			₹ ₹	7.17 723.93
	Add GST (multiplying factor) Add for contractor's profit and overheads	@	0.1405 15%			₹ ₹	101.71 825.64 123.85
	Add cess Cost for 1 No.	@	1%			₹ ₹	949.49 9.49 958.98
	Say					₹	959.00

17.25	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings:
17.25.5	Flat back wash basin of size 450x300mm.

Code Description Unit Quantity Rate Amount

Details of cost for one no,

Add cess

Say

Cost for 1 No.

	MATERIALS						
18132	White vitreous china flat back wash basin	each	1.00	₹	360.00	₹	360.00
	450x300 mm						
	LABOUR						
0215	Fitter grade-I	Day	0.30	₹	440.00	₹	132.00
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0203	Beldar	Day	0.30	₹	310.00	₹	93.00
	TOTAL					₹	629.00
	Add Carriage for all materials etc. [L.S.]	@	1%			₹	6.29
	TOTAL					₹	635.29
	Add for Sundries and contingencies	@	3%			₹	19.06
	TOTAL					₹	654.35
	Add 1% for water charges	@	1%			₹	6.54
	TOTAL					₹	660.89
	Add GST (multiplying factor)		0.1405			₹	92.86
						₹	753.75
	Add for contractor's profit and overheads	@	15%			₹	113.06
						₹	866.81
	Add cess	@	1%			₹	8.67
	Cost for 1 No.					₹	875.48
	Say					₹	875.50

18.25 Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings:

18.25.6	Surgeon type wash basin of size 660x460mm.						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18085	White vitreous china surgeon type back wash each	each	1.00	₹	880.00	₹	880.00
	basin 660x460 mm						
	LABOUR						
0215	Fitter grade-I	Day	0.30	₹	440.00	₹	132.00
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0203	Beldar	Day	0.30	₹	310.00	₹	93.00
	TOTAL					₹	1,149.00
	Add Carriage for all materials etc. [L.S.]	@	1%			₹	11.49
	TOTAL					₹	1,160.49
	Add for Sundries and contingencies	@	3%			₹	34.81
	TOTAL					₹	1,195.30
	Add 1% for water charges	@	1%			₹	11.95
	TOTAL					₹	1,207.26
	Add GST (multiplying factor)		0.1405			₹	169.62
						₹	1,376.88
	Add for contractor's profit and overheads	@	15%			₹	206.53
						₹	1,583.41
	Add cess	@	1%			₹	15.83
	Cost for 1 No.					₹	1,599.24
	Say					₹	1,599.20

18.26 Providing and fixing kitchen sink including making all connections excluding cost of fittings.

18.26.1 Code	White glazed fire clay sink of size 600x450x250mm. Description Details of cost for one no.	Unit	Quantity		Rate	Amount	
18059	MATERIALS White glazed fire clay sink of size 600x450x250 mm	each	1.00	₹	1,280.00	₹	1,280.00
0215	LABOUR Fitter grade-I	Day	0.25	₹	440.00	₹	110.00

0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0203	Beldar	Day	0.25	₹	310.00	₹	77.50
	TOTAL					₹	1,511.50
	Add Carriage for all materials etc. [L.S.]	@	1%			₹	15.12
	TOTAL					₹	1,526.62
	Add for Sundries and contingencies	@	3%			₹	45.80
	TOTAL					₹	1,572.41
	Add 1% for water charges	@	1%			₹	15.72
	TOTAL					₹	1,588.14
	Add GST (multiplying factor)		0.1405			₹	223.13
						₹	1,811.27
	Add for contractor's profit and overheads	@	15%			₹	271.69
						₹	2,082.96
	Add cess	@	1%			₹	20.83
	Cost for 1 No.					₹	2,103.79
	Say					₹	2,103.80

17.27 Providing and fixing white vitreous china laboratory sink including making all connections excluding cost of fittings:

17.27.1 Size 450x300x	150 mm.
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17.27.1	Size 450x300x150 mm.						
Code	Description	Unit	Quantity		Rate	Amoun	
	Details of cost for one no.						
	MATERIALS						
18060	Laboratory sink of size 450x300x150 mm	each	1.00	₹	950.00	₹	950.00
	LABOUR						
0215	Fitter grade-I	Day	0.30	₹	440.00	₹	132.00
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0203	Beldar	Day	0.30	₹	310.00	₹	93.00
	TOTAL					₹	1,219.00
	Add Carriage for all materials etc.[L.S.]	@	1%			₹	12.19
	TOTAL					₹	1,231.19
	Add for Sundries and contingencies	@	3%			₹	36.94
	TOTAL					₹	1,268.13
	Add 1% for water charges	@	1%			₹	12.68
	TOTAL					₹	1,280.81
	Add GST (multiplying factor)		0.1405			₹	179.95
						₹	1,460.76
	Add for contractor's profit and overheads	@	15%			₹	219.11
			40/			₹	1,679.87
	Add cess	@	1%			₹	16.80
	Cost for 1 No.					₹	1,696.67
	Say					₹	1,696.70

18.27 Providing and fixing white vitreous china laboratory sink including making all connections excluding cost of fittings:

18.27.2 Size 600x450x200 m	m.
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Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18061	Laboratory sink of size 600x450x200 mm	each	1.00	₹	1,850.00	₹	1,850.00
	LABOUR						
0215	Fitter grade-I	Day	0.20	₹	440.00	₹	88.00
0219	Mason 1st class	Day	0.10	₹	440.00	₹	44.00
0203	Beldar	Day	0.20	₹	310.00	₹	62.00
	TOTAL					₹	2,044.00
	Add Carriage for all materials etc.[L.S.]	@	1%			₹	20.44
	TOTAL					₹	2,064.44
	Add for Sundries and contingencies	@	3%			₹	61.93
	TOTAL					₹	2,126.37
	Add 1% for water charges	@	1%			₹	21.26

TOTAL			₹	2,147.64
Add GST (multiplying factor)		0.1405	₹	301.74
			₹	2,449.38
Add for contractor's profit and overheads	@	15%	₹	367.41
			₹	2,816.79
Add cess	@	1%	₹	28.17
Cost for 1 No.			₹	2,844.96
Say			₹	2,845.00

18.28 Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.

18.28.1	Semi rigid pipe						
17 20 1 1	32 mm dia						

7.28.1.1	32 mm dia						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18152	Semi rigid P.V.C. waste pipe with waste	each	1.00	₹	25.00	₹	25.00
	fittings						
	LABOUR						
0215	Fitter grade-I	Day	0.05	₹	440.00	₹	22.00
0203	Beldar	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	62.50
	Add Carriage of materials [L.S.]	@	1%			₹	0.63
	TOTAL					₹	63.13
	Add for Sundries and contingencies	@	3%			₹	1.89
	TOTAL					₹	65.02
	Add 1% for water charges	@	1%			₹	0.65
	TOTAL					₹	65.67
	Add GST (multiplying factor)		0.1405			₹	9.23
						₹	74.90
	Add for contractor's profit and overheads	@	15%			₹	11.23
			40/			₹	86.13
	Add cess	@	1%			₹	0.86
	Cost for 1 No.					₹	86.99
	Say					₹	87.00

17.28 Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.

17.28.1 Semi rigid pipe

17.28.1.2	40 mm dia
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Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18153	Semi rigid P.V.C. waste pipe with waste	each	1.00	₹	30.00	₹	30.00
	fittings						
	LABOUR						
0215	Fitter grade-I	Day	0.05	₹	440.00	₹	22.00
0203	Beldar	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	67.50
	Add Carriage of materials [L.S.]	@	1%			₹	0.68
	TOTAL					₹	68.18
	Add for Sundries and contingencies	@	3%			₹	2.05
	TOTAL					₹	70.22
	Add 1% for water charges	@	1%			₹	0.70
	TOTAL					₹	70.92
	Add GST (multiplying factor)		0.1405			₹	9.96
						₹	80.88
	Add for contractor's profit and overheads	@	15%			₹	12.13
	Add cess	@	1%			₹	93.01 0.93
	Cost for 1 No.	w	I 70			₹	93.94
	Say					₹	93.94
	Oay					•	00.00

17.28 Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.

17.28.2	Flexible pipe						
17.28.2.1	32 mm dia						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18154	Flexible pipe (coil type) with waste fittings	each	1.00	₹	30.00	₹	30.00
	LABOUR						
0215	Fitter grade-I	Day	0.05	₹	440.00	₹	22.00
0203	Beldar	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	67.50
	Add Carriage of materials [L.S.]	@	1%			₹	0.68
	TOTAL					₹	68.18
	Add for Sundries and contingencies	@	3%			₹	2.05
	TOTAL					₹	70.22
	Add 1% for water charges	@	1%			₹	0.70
	TOTAL					₹	70.92
	Add GST (multiplying factor)		0.1405			₹	9.96
						₹	80.88
	Add for contractor's profit and overheads	@	15%			₹	12.13
	Add		4.0/			₹	93.01
	Add cess	@	1%			₹	0.93
	Cost for 1 No.					₹	93.94
	Say					₹	93.90

17.28 Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.

17.28.2	Flexible pipe 40 mm dia						
17.28.2.2							
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no MATERIALS						
18155	Flexible pipe (coil type) with waste fittings LABOUR	each	1.00	₹	35.00	₹	35.00
0215	Fitter grade-I	Day	0.05	₹	440.00	₹	22.00
0203	Beldar	Day	0.05	`.	310.00		15.50
0200	TOTAL	Day		`	010.00	` ₹	72.50
	Add Carriage of materials [L.S.]	@	1%			₹	0.73
	TOTAL	C	170			₹	73.23
	Add for Sundries and contingencies	@	3%			₹	2.20
	TOTAL	C	0.0			₹	75.42
	Add 1% for water charges	@	1%			₹	0.75
	TOTAL					₹	76.18
	Add GST (multiplying factor)		0.1405			₹	10.70
						₹	86.88
	Add for contractor's profit and overheads	@	15%			₹	13.03
						₹	99.91
	Add cess	@	1%			₹	1.00
	Cost for 1 No.					₹	100.91
	Say					₹	100.90
18.29	Providing and fixing 100 mm sand cast Iron grating for gully trap.						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no MATERIALS						
18011	100 mm S.C.I. Grating for gully or Nahani trap	each	1.00	₹	25.00	₹	25.00
	LABOUR						
0215	Fitter grade-I	Day	0.03	₹	440.00	₹	13.20
0203	Beldar	Day	0.03	₹	310.00	₹	9.30
	TOTAL					₹	47.50

@	1%	₹	0.48
		₹	47.98
@	3%	₹	1.44
		₹	49.41
@	1%	₹	0.49
		₹	49.91
	0.1405	₹	7.01
		₹	56.92
@	15%	₹	8.54
		₹	65.46
@	1%	₹	0.65
		₹	66.11
		₹	66.10
	@ @ @	@ 3%@ 1%0.1405@ 15%	② 3% ₹ ₹ ₹ ② 1% ₹ ₹ ₹ ₹ ② 15% ₹ ② 1% ₹ ₹ ₹ ₹

18.30 Providing and fixing in position 25mm diameter mosquito proof coupling of approved municipal design.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no MATERIALS						
18009	Mosquito proof coupling of the approved	each	1.00	₹	30.00	₹	30.00
	municipal design						
	LABOUR						
0215	Fitter grade-I	Day	0.02	₹	440.00	₹	8.80
0203	Beldar	Day	0.02	₹	310.00	₹	6.20
	TOTAL					₹	45.00
	Add Carriage of materials [L.S.]	@	1%			₹	0.45
	TOTAL					₹	45.45
	Add for Sundries and contingencies	@	3%			₹	1.36
	TOTAL					₹	46.81
	Add 1% for water charges	@	1%			₹	0.47
	TOTAL					₹	47.28
	Add GST (multiplying factor)		0.1405			₹	6.64
						₹	53.92
	Add for contractor's profit and overheads	@	15%			₹	8.09
		_				₹	62.01
	Add cess	@	1%			₹	0.62
	Cost for 1 No.					₹	62.63
	Say					₹	62.60

18.31 Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost of one no.						
	MATERIALS						
18015	Mirror of superior make glass	each	1.00	₹	400.00	₹	400.00
18151	600x450 mm 6 mm thick hard board	sqm	0.27	₹	180.00	₹	48.60
	(A) Wooden cleats						
	A Rate same as item no. 8.30 of SH: Wood work	each	4.00	₹	12.94	₹	51.76
08055	25 mm C.P.brass screw, and washers	100 Nos	4.00	₹	189.00	₹	7.56
	LABOUR						
0208	Carpenter 2nd Class	Day	0.33	₹	395.00	₹	46.73
0203	Beldar	Day	0.33	₹	310.00	₹	44.63
	TOTAL					₹	599.28
	Add Carriage of materials etc.(except A) [L.S.]	@	1%			₹	5.99
	TOTAL					₹	605.27
	Add for Sundries and contingencies	@	3%			₹	18.16
	TOTAL					₹	623.43

Add for water charges	@	1%	₹	6.23
TOTAL			₹	629.66
Add GST (multiplying factor)		0.1405	₹	88.47
			₹	718.13
Add for contractor's profit and overheads	@	15%	₹	107.72
			₹	825.85
Add cess	@	1%	₹	8.26
Cost for 1 No.			₹	834.11
Say			₹	834.10

18.32 Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing:

	make and shade with 6 mm thick hard board backing:						
17.32.1	Circular shape 450 mm dia						
Code	Description	Unit	Quantity		Rate	Amour	ıt
	Details of cost for one no.						
	MATERIALS						
18147	Mirror 450 mm dia with plastic moulded	each	1.00	₹	410.00	₹	410.00
	frame						
	Hard board 0.45x0.45 = 0.2025 sqm						
	Add wastage @ 10% = 0.0203 sqm						
18151	= 0.2228 sqm say 0.22sqm	sqm	0.22	₹	180.00	₹	39.60
18135	Raw plug 40 to 50 mm	each	4.00	₹	10.00	₹	40.00
08055	C.P. bras screws and washers	100 Nos	4.00	₹	189.00	₹	7.56
	LABOUR						
0208	Carpenter 2nd Class	Day	0.33	₹	395.00	₹	130.35
0203	Beldar	Day	0.33	₹	310.00	₹	102.30
	TOTAL					₹	729.81
	Add Carriage of materials [L.S.]	@	1%			₹	7.30
	TOTAL					₹	737.11
	Add for Sundries and contingencies	@	3%			₹	22.11
	TOTAL					₹	759.22
	Add for water charges	@	1%			₹	7.59
	TOTAL					₹	766.81
	Add GST (multiplying factor)		0.1405			₹	107.74
						₹	874.55
	Add for contractor's profit and overheads	@	15%			₹	131.18
	Add cess		1%			₹	1,005.73
	Cost for 1 No.	@	1 70			₹	10.06 1,015.79
						₹	1,015.79
	Say					<	1,015.00

18.32 Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing:

		<i>*</i>					
18.32.2	Rectangular shape 453x357mm						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18148	Mirror 453x357 mm dia with plastic moulded frame	each	1.00	₹	310.00	₹	310.00
	Hard board 0.453x0.357 = 0.1617 sqm						
	Add wastage @ 10% = 0.0162 sqm						
18151	= 0.1779 sqm say 0.18 sqm	sqm	0.18	₹	180.00	₹	32.40
18135	Raw plug 40 to 50 mm	each	4.00	₹	10.00	₹	40.00
08055	C.P. bras screws 25 mm and washers	100 Nos	4.00	₹	189.00	₹	7.56
	LABOUR						
0208	Carpenter 2nd Class	Day	0.33	₹	395.00	₹	130.35
0203	Beldar	Day	0.33	₹	310.00	₹	102.30
	TOTAL					₹	622.61
	Add Carriage of materials [L.S.]	@	1%			₹	6.23
	TOTAL					₹	628.84
	Add for Sundries and contingencies	@	3%			₹	18.87

TOTAL			₹	647.70
Add for water charges	@	1%	₹	6.48
TOTAL			₹	654.18
Add GST (multiplying factor)		0.1405	₹	91.91
			₹	746.09
Add for contractor's profit and overheads	@	15%	₹	111.91
			₹	858.00
Add cess	@	1%	₹	8.58
Cost for 1 No.			₹	866.58
Say			₹	866.60

18.32 Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing:

18.32.3	Oval shape 450x350mm (outer dimensions)
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18.32.3	Oval shape 450x350mm (outer dimensions)						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18149	Oval shape mirror 450x350 mm (outer	each	1.00	₹	360.00	₹	360.00
	dimensions)						
	Hard board 0.45x0.35=0.1575 sqm						
	Add wastage @ 10% = 0.0158 sqm						
18151	= 0.1733 sqm say 0.17 sqm	sqm	0.16	₹	180.00	₹	28.80
18135	Raw plug 40 to 50 mm	each	4.00	₹	10.00	₹	40.00
08055	C.P. bras screws 25 mm and washers	100 Nos	4.00	₹	189.00	₹	7.56
	LABOUR						
0208	Carpenter 2nd Class	Day	0.33	₹	395.00	₹	130.35
0203	Beldar	Day	0.33	₹	310.00	₹	102.30
	TOTAL					₹	669.01
	Add Carriage of materials [L.S.]	@	1%			₹	6.69
	TOTAL					₹	675.70
	Add for Sundries and contingencies	@	3%			₹	20.27
	TOTAL					₹	695.97
	Add for water charges	@	1%			₹	6.96
	TOTAL					₹	702.93
	Add GST (multiplying factor)		0.1405			₹	98.76
						₹	801.69
	Add for contractor's profit and overheads	@	15%			₹	120.25
		_				₹	921.94
	Add cess	@	1%			₹	9.22
	Cost for 1 No.					₹	931.16
	Say					₹	931.20

Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :

18.32.4 Rectangular shape 1500x450 mm

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18150	Mirror 1500x450 mm dia with plastic moulded frame Hard board 1.50x0.45 = 0.675 sqm Add wastage @ 10% = 0.0675 sqm	each	1.00	₹	720.00	₹	720.00
18151	= 0.7425 sqm say 0.74sqm	sqm	0.74	₹	180.00	₹	133.20
18135	Raw plug 40 to 50 mm	each	6.00	₹	10.00	₹	60.00
08055	C.P. bras screws and washers	100 Nos	6.00	₹	189.00	₹	11.34
	LABOUR						
0208	Carpenter 2nd Class	Day	0.33	₹	395.00	₹	130.35
0203	Beldar	Day	0.33	₹	310.00	₹	102.30
	TOTAL					₹	1,157.19
	Add Carriage of materials [L.S.]	@	1%			₹	11.57
	TOTAL					₹	1,168.76
	Add for Sundries and contingencies	@	3%			₹	35.06
	TOTAL					₹	1,203.82

Add for water charges	@	1%	₹	12.04
TOTAL			₹	1,215.86
Add GST (multiplying factor)		0.1405	₹	170.83
			₹	1,386.69
Add for contractor's profit and overheads	@	15%	₹	208.00
			₹	1,594.69
Add cess	@	1%	₹	15.95
Cost for 1 No.			₹	1,610.64
Say			₹	1,610.60

Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete. 18.33

Code	Description	Unit	Quantity	Rate	Amount	
	Details of cost for one no.					
	MATERIALS					
18086	600x120x5 mm glass shelf with anodised	each	1.00	₹ 140.00	₹	140.00
	aluminium angle frame C.P. brass brackets &					
	guard rail of standard size					
18135	Raw plugs	each	2.00	₹ 10.00	₹	20.00
08053	40 mm C.P. brass screws	100 Nos	4.00	₹ 305.00	₹	12.20
	LABOUR					
0208	Carpenter 2nd Class	Day	0.25	₹ 395.00	₹	98.75
0203	Beldar	Day	0.25	₹ 310.00	₹	77.50
	TOTAL				₹	348.45
	Add Carriage of materials [L.S.]	@	1%		₹	3.48
	TOTAL				₹	351.93
	Add for Sundries and contingencies	@	3%		₹	10.56
	TOTAL				₹	362.49
	Add for water charges	@	1%		₹	3.62
	TOTAL				₹	366.11
	Add GST (multiplying factor)		0.1405		₹	51.44
					₹	417.55
	Add for contractor's profit and overheads	@	15%		₹	62.63
					₹	480.18
	Add cess	@	1%		₹	4.80
	Cost for 1 No.				₹	484.98
	Say				₹	485.00

18.34 Providing and fixing toilet paper holder :

18

8.34.1	C.P. brass						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost of one no.						
	MATERIALS						
18066	C.P. brass toilet holder of standard size	each	1.00	₹	225.00	₹	225.00
08053	25 mm C.P.brass screw	100 Nos	2.00	₹	189.00	₹	3.78
	LABOUR						
0208	Carpenter 2nd Class	Day	0.12	₹	395.00	₹	47.40
0203	Beldar	Day	0.12	₹	310.00	₹	37.20
	TOTAL					₹	313.38
	Add Carriage of materials and cost of cleats and materials for fixing cleats etc. [L.S.]	@	1%			₹	3.13
	TOTAL					₹	316.51
	Add for Sundries and contingencies	@	3%			₹	9.50
	TOTAL					₹	326.01
	Add for water charges	@	1%			₹	3.26
	TOTAL					₹	329.27
	Add GST (multiplying factor)		0.1405			₹	46.26
						₹	375.53
	Add for contractor's profit and overheads	@	15%			₹	56.33
						₹	431.86
	Add cess	@	1%			₹	4.32
	Cost for 1 No.					₹	436.18

Say ₹ 436.20

18.34 18.34.2	Providing and fixing toilet paper holder: Vitreous china						
Code	Description	Unit	Quantity		Rate	Amour	nt
	Details of cost of one no. MATERIALS		·				
18130	Vitreous china toilet holder of standard size	each	1.00	₹	140.00	₹	140.00
08053	25 mm C.P.brass screw LABOUR	100 Nos	6.00	₹	189.00	₹	11.34
0208	Carpenter 2nd Class	Day	0.12	₹	395.00	₹	47.40
0203	Beldar	Day	0.12	₹	310.00	₹	37.20
	TOTAL					₹	235.94
	Add Carriage of materials and cost of cleats and materials for fixing cleats etc. [L.S.]	@	1%			₹	2.36
	TOTAL					₹	238.30
	Add for Sundries and contingencies	@	3%			₹	7.15
	TOTAL	_				₹	245.45
	Add for water charges TOTAL	@	1%			₹	2.45 247.90
	Add GST (multiplying factor)		0.1405			₹	34.83
						₹	282.73
	Add for contractor's profit and overheads	@	15%			₹	42.41
	Add cess	@	1%			₹	325.14
	Cost for 1 No.	@	1%			₹ ₹	3.25 328.39
	Say					₹	328.40
18.35 18.35.1 18.35.1.1 Code	Providing and fixing soil, waste and vent pipes: 100 mm dia. Sand cast iron S&S pipe as per IS: 1729.	11-2	Quantity		Data	A	
Code	Description	Unit	Quantity		Rate	Amour	1t
	Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe.						
10000	MATERIALS		10.50	-	4 000 00	•	40.500.00
18028	100 mm sand cast iron pipe single socket (1.80 m long)	each	10.50	₹	1,000.00	₹	10,500.00
	including 5% allowance for wastage (10 + 5%)=10.5 LABOUR						
0215	Fitter grade-I	Day	0.42	₹	440.00		184.80
0201	Bandhani	Day	0.21	₹	310.00		65.10
0203	Beldar	Day	0.83	₹	310.00		257.30
	TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.]	@	1%			₹	11,007.20 110.07
	TOTAL					₹	11,117.27
	Add for Sundries and contingencies	@	3%			₹	333.52
	TOTAL					₹	11,450.79
	Add for water charges	@	1%			₹	114.51
	TOTAL					₹	11,565.30
	Add GST (multiplying factor)		0.1405			₹	1,624.92
						₹	13,190.22
	Add for contractor's profit and overheads	@	15%			₹	1,978.53
		_				₹	15,168.75
	Add cess	@	1%			₹	151.69
	Cost for 17.37 mtr Cost for 1.0 mtr.					₹	15,320.44 882.01
	Cost for 1.0 mtr. Say					₹ ₹	882.01
	July					•	302.00

18.35 18.35.1 18.35.1.2 Code	Providing and fixing soil, waste and vent pipes: 100 mm dia. Centrifugally cast (spun) iron socketed pipe as per IS: 3989. Description	Unit	Quantity		Rate	Amo	wint
oodo	Details of cost for 17.37 m	Oilit			Nate	AIIIC	, unit
	(1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe.						
	MATERIALS						
18089	100 mm centrifugally cast (spun) iron S&S	each	10.50	₹	1,200.00	₹	12,600.00
	pipes (1.80 m long)						
	including 5% allowance for wastage (10 + 5%)=10.5						
	LABOUR						
0215	Fitter grade-I	Day	0.42	₹	440.00		184.80
0201 0203	Bandhani	Day	0.21 0.83	₹	310.00		65.10
0203	Beldar TOTAL	Day	0.03	₹	310.00	र ₹	257.30 13,107.20
	Add for Carriage of all materials and ladder, scaffolding		4.07				
	etc. [L.S.]	@	1%			₹	131.07
	TOTAL					₹	13,238.27
	Add for Sundries and contingencies	@	3%			₹	397.15
	TOTAL					₹	13,635.42
	Add for water charges	@	1%			₹	136.35
	TOTAL					₹	13,771.77
	Add GST (multiplying factor)		0.1405			₹	1,934.93
						₹	15,706.70
	Add for contractor's profit and overheads	@	15%			₹	2,356.01
	Add cess	@	1%			₹	18,062.71 180.63
	Cost for 17.37 mtr	C	170			₹	18,243.34
	Cost for 1.0 mtr.					₹	1,050.28
	Say					₹	1,050.30
10 25	Paral III and Calculate and Ca						
18.35 18.35 2	Providing and fixing soil, waste and vent pipes :						
18.35.2	75 mm diameter :						
18.35.2 18.35.2.1	75 mm diameter : Sand cast iron S&S pipe as per IS: 1729.	Unit	Quantity		Rate	Amo	punt
18.35.2	75 mm diameter :	Unit	Quantity		Rate	Amo	punt
18.35.2 18.35.2.1	75 mm diameter : Sand cast iron S&S pipe as per IS: 1729. Description	Unit	Quantity		Rate	Amo	ount
18.35.2 18.35.2.1	75 mm diameter : Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m	Unit	Quantity		Rate	Amo	ount
18.35.2 18.35.2.1	75 mm diameter : Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe.	Unit each	Quantity	₹	Rate 800.00		ount 8,400.00
18.35.2 18.35.2.1 Code	75 mm diameter : Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS		·	₹			
18.35.2 18.35.2.1 Code	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80		·	₹			
18.35.2.1 Code 18027	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR	each	10.50		800.00	₹	8,400.00
18.35.2.1 Code 18027	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I	each Day	10.50	₹	800.00	₹	8,400.00 154.00
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani	each Day Day	10.50 0.35 0.17	₹	800.00 440.00 310.00	₹₹	8,400.00 154.00 52.70
18.35.2.1 Code 18027	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar	each Day	10.50	₹	800.00	₹₹₹	8,400.00 154.00 52.70 217.00
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL	each Day Day Day Day	10.50 0.35 0.17 0.70	₹	800.00 440.00 310.00	₹₹₹₹	8,400.00 154.00 52.70 217.00 8,823.70
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar	each Day Day	10.50 0.35 0.17	₹	800.00 440.00 310.00	₹₹₹	8,400.00 154.00 52.70 217.00
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding	each Day Day Day Day	10.50 0.35 0.17 0.70	₹	800.00 440.00 310.00	₹₹₹₹	8,400.00 154.00 52.70 217.00 8,823.70
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.]	each Day Day Day Day	10.50 0.35 0.17 0.70	₹	800.00 440.00 310.00	₹₹₹₹	8,400.00 154.00 52.70 217.00 8,823.70 88.24
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL	each Day Day Day Day Oay Oay	10.50 0.35 0.17 0.70	₹	800.00 440.00 310.00	₹ ₹ ₹ ₹ ₹	8,400.00 154.00 52.70 217.00 8,823.70 88.24 8,911.94
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies	each Day Day Day Day Oay Oay	10.50 0.35 0.17 0.70	₹	800.00 440.00 310.00	₹ ₹₹₹₹₹	8,400.00 154.00 52.70 217.00 8,823.70 88.24 8,911.94 267.36
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	each Day Day Day O @	10.50 0.35 0.17 0.70 1%	₹	800.00 440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,400.00 154.00 52.70 217.00 8,823.70 88.24 8,911.94 267.36 9,179.30 91.79
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	each Day Day Day O @	10.50 0.35 0.17 0.70 1% 3%	₹	800.00 440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,400.00 154.00 52.70 217.00 8,823.70 88.24 8,911.94 267.36 9,179.30 91.79 9,271.09
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	each Day Day Day O @	10.50 0.35 0.17 0.70 1%	₹	800.00 440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,400.00 154.00 52.70 217.00 8,823.70 88.24 8,911.94 267.36 9,179.30 91.79
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	each Day Day Day O @	10.50 0.35 0.17 0.70 1% 3%	₹	800.00 440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8,400.00 154.00 52.70 217.00 8,823.70 88.24 8,911.94 267.36 9,179.30 91.79 9,271.09 1,302.59
18.35.2 18.35.2.1 Code 18027 0215 0201	75 mm diameter: Sand cast iron S&S pipe as per IS: 1729. Description Details of cost for 17.37 m (1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe. MATERIALS 75 mm sand cast iron pipe single socket (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	each Day Day Day @ @	10.50 0.35 0.17 0.70 1% 3% 1% 0.1405	₹	800.00 440.00 310.00	₹ ₹₹ ₹ ₹₹₹₹₹₹	8,400.00 154.00 52.70 217.00 8,823.70 88.24 8,911.94 267.36 9,179.30 91.79 9,271.09 1,302.59 10,573.68

₹

12,281.33

	Cost for 17.37 mtr					₹	12,281.33
	Cost for 1.0 mtr.					₹	707.04
	Say					₹	707.00
17.35	Providing and fixing soil, waste and vent pipes :						
17.35.2	75 mm diameter:						
17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.						
Code	Description	Unit	Quantity		Rate	Amo	unt
	Details of cost for 17.37 m						
	(1.8mx10)-(9x0.07m) = 17.37 m= 10 Nos 1.80 mtr long pipe.						
40000	MATERIALS		40.50	_		_	
18090	75 mm centrifugally cast (spun) iron S&S	each	10.50	₹	1,100.00	₹	11,550.00
	pipes (1.80 m long)						
	including 5% allowance for wastage (10 + 5%)=10.5						
	LABOUR						
0215	Fitter grade-I	Day	0.35	₹	440.00	₹	154.00
0201	Bandhani	Day	0.17	₹	310.00	₹	52.70
0203	Beldar	Day	0.70	₹	310.00	₹	217.00
	TOTAL					₹	11,973.70
	Add for Carriage of all materials and ladder, scaffolding	_					•
	etc. [L.S.]	@	1%			₹	119.74
	TOTAL					₹	12,093.44
	Add for Sundries and contingencies	@	3%			₹	362.80
	TOTAL	0	370				
		_				₹	12,456.24
	Add for water charges	@	1%			₹	124.56
	TOTAL					₹	12,580.80
	Add GST (multiplying factor)		0.1405			₹	1,767.60
						₹	14,348.40
	Add for contractor's profit and overheads	@	15%			₹	2,152.26
						₹	16,500.66
	Add cess	@	1%			₹	165.01
	Cost for 17.37 mtr					₹	16,665.67
	Cost for 1.0 mtr.					₹	959.45
	Say					₹	959.50
17.35	Providing and fixing soil, waste and vent pipes :						
17.35.2	75 mm diameter:						
17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.						
Code	Description	Unit	Quantity		Rate	Amo	unt
0000	Details of cost for 17.37 m		•				
	(1.8mx10)-(9x0.07m) = 17.37 m = 10 Nos 1.80 mtr long pipe.						
40447	MATERIALS						
18117	MATERIALS 75 mm centrifugally cast (spun) iron S&S	each	10.50	₹	400.00	₹	4,200.00
18117		each	10.50	₹	400.00	₹	4,200.00
18117	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long)	each	10.50	₹	400.00	₹	4,200.00
18117	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5	each	10.50	₹	400.00	₹	4,200.00
	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR						
0215	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I	Day	0.35	₹	440.00	₹	154.00
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani	Day Day	0.35 0.17	₹	440.00 310.00	₹	154.00 52.70
0215	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar	Day	0.35	₹	440.00	₹₹	154.00 52.70 217.00
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL	Day Day	0.35 0.17	₹	440.00 310.00	₹	154.00 52.70
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding	Day Day	0.35 0.17	₹	440.00 310.00	₹₹	154.00 52.70 217.00
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.]	Day Day Day	0.35 0.17 0.70	₹	440.00 310.00	₹₹₹	154.00 52.70 217.00 4,623.70 46.24
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL	Day Day Day	0.35 0.17 0.70	₹	440.00 310.00	₹₹₹₹	154.00 52.70 217.00 4,623.70 46.24 4,669.94
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.]	Day Day Day	0.35 0.17 0.70	₹	440.00 310.00	₹₹₹₹₹	154.00 52.70 217.00 4,623.70 46.24 4,669.94 140.10
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL	Day Day Day	0.35 0.17 0.70	₹	440.00 310.00	₹₹₹₹	154.00 52.70 217.00 4,623.70 46.24 4,669.94
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies	Day Day Day	0.35 0.17 0.70	₹	440.00 310.00	₹₹₹₹₹	154.00 52.70 217.00 4,623.70 46.24 4,669.94 140.10
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL	Day Day Day @	0.35 0.17 0.70 1%	₹	440.00 310.00	₹₹₹₹₹₹₹	154.00 52.70 217.00 4,623.70 46.24 4,669.94 140.10 4,810.04
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	Day Day Day @	0.35 0.17 0.70 1% 3%	₹	440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	154.00 52.70 217.00 4,623.70 46.24 4,669.94 140.10 4,810.04 48.10 4,858.14
0215 0201	pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	Day Day Day @	0.35 0.17 0.70 1%	₹	440.00 310.00	₹₹₹ ₹ ₹₹₹₹₹	154.00 52.70 217.00 4,623.70 46.24 4,669.94 140.10 4,810.04 48.10 4,858.14 682.57
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	Day Day Day @ @	0.35 0.17 0.70 1% 3% 1% 0.1405	₹	440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	154.00 52.70 217.00 4,623.70 46.24 4,669.94 140.10 4,810.04 48.10 4,858.14 682.57 5,540.71
0215 0201	pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	Day Day Day @	0.35 0.17 0.70 1% 3%	₹	440.00 310.00	* * * * * * * * * * * * * * * * * * *	154.00 52.70 217.00 4,623.70 46.24 4,669.94 140.10 4,810.04 48.10 4,858.14 682.57 5,540.71 831.11
0215 0201	pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	Day Day Day @ @ @	0.35 0.17 0.70 1% 3% 1% 0.1405	₹	440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	154.00 52.70 217.00 4,623.70 46.24 4,669.94 140.10 4,810.04 48.10 4,858.14 682.57 5,540.71 831.11 6,371.82
0215 0201	75 mm centrifugally cast (spun) iron S&S pipes (1.80 m long) including 5% allowance for wastage (10 + 5%)=10.5 LABOUR Fitter grade-I Bandhani Beldar TOTAL Add for Carriage of all materials and ladder, scaffolding etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	Day Day Day @ @	0.35 0.17 0.70 1% 3% 1% 0.1405	₹	440.00 310.00	* * * * * * * * * * * * * * * * * * *	154.00 52.70 217.00 4,623.70 46.24 4,669.94 140.10 4,810.04 48.10 4,858.14 682.57 5,540.71 831.11

Cost for 17.37 mtr..

Cost for 17.37 mtr	₹	6,435.54
Cost for 1.0 mtr.	₹	370.50
Sav	₹	370.50

Providing and filling the joints with spun yarn cement slurry and cement mortar 1:2 (1 cement: 2 fine sand) in S.C.I./C.I. Pipes:

18.36.1	75mm dia pipe						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for 5 joints						
	LABOUR						
0215	Fitter grade-I	Day	0.28	₹	440.00	₹	123.20
0203	Beldar	Day	0.28	₹	310.00	₹	86.80
	TOTAL					₹	210.00
	Add for Carriage of all materials and cost of Cement Slurry, Spun Yarn & Cement Mortar 1:2 etc.[L.S.]	@	12.00%			₹	25.20
	TOTAL					₹	235.20
	Add for Sundries and contingencies	@	3%			₹	7.06
	TOTAL					₹	242.26
	Add for water charges	@	1%			₹	2.42
	TOTAL					₹	244.68
	Add GST (multiplying factor)		0.1405			₹	34.38
						₹	279.06
	Add for contractor's profit and overheads	@	15%			₹	41.86
						₹	320.92
	Add cess	@	1%			₹	3.21
	Cost for 5 joints					₹	324.13
	Cost for per joint					₹	64.83
	Say					₹	64.80

18.36 Providing and filling the joints with spun yarn cement slurry and cement mortar 1:2 (1 cement: 2 fine sand) in S.C.I./C.I. Pipes:

18.36.2 Code	100 mm dia pipe Description Details of cost for 5 joints LABOUR	Unit	Quantity		Rate	Amount	
0215	Fitter grade-I	Day	0.33	₹	440.00	₹	145.20
0203	Beldar	Day	0.33	₹	310.00	₹	102.30
	TOTAL					₹	247.50
	Add for Carriage of all materials and cost of Cement Slurry, Spun Yarn & Cement Mortar 1:2 etc.[L.S.]	@	12.00%			₹	29.70
	TOTAL					₹	277.20
	Add for Sundries and contingencies	@	3%			₹	8.32
	TOTAL					₹	285.52
	Add for water charges	@	1%			₹	2.86
	TOTAL					₹	288.38
	Add GST (multiplying factor)		0.1405			₹	40.52
						₹	328.90
	Add for contractor's profit and overheads	@	15%			₹	49.33
						₹	378.23
	Add cess	@	1%			₹	3.78
	Cost for 5 joints					₹	382.01
	Cost for per joint					₹	76.40
	Say					₹	76.40

18.37 Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :

18.37.1	For 100 mm dia. Pipe						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for 5 nos.						
	MATERIALS						
18004	M.S. holder bat clamps = 5 nos.	each	5.00	₹	30.00	₹	150.00
	LABOUR						
0215	Fitter grade-I	Day	0.125	₹	440.00	₹	55.00
0218	Mason (average)	Day	0.75	₹	420.00	₹	315.00
0203	Beldar	Day	0.50	₹	310.00	₹	155.00
	For Material C.C. Block 5x0.10x0x0.10= 0.005 cum						
04006	20 mm nominal size stone aggregate	cum	0.0033	₹	4,875.00	₹	16.09
04008	10 mm nominal size stone aggregate	cum	0.0011	₹	700.00	₹	0.77
405	Carriage of stone aggregate below 40 mm	cum	0.0044	₹	147.57	₹	0.65
	nominal size						
02003	Fine sand	cum	0.0022	₹	560.00	₹	1.23
425	Carriage of fine sand	cum	0.0022	₹	131.75	₹	0.29
03001	Cement	tonne	0.0016	₹	5,800.00	₹	9.28
421	Carriage of cement	tonne	0.0016	₹	102.47	₹	0.16
	Labour:						
0203	Beldar	Day	0.0045	₹	310.00	₹	1.40
0212	Coolies	Day	0.0032	₹	310.00	₹	0.99
0205	Bhishti	Day	0.0014	₹	310.00	₹	0.43
0219	Mason 1 st class	Day	0.0003	₹	440.00	₹	0.13
0220	Mason 2nd class	Day	0.0003	₹	395.00	₹	0.12
0224	Mate	Day	0.0002	₹	310.00	₹	0.06
	TOTAL					₹	706.61
	Add for Carriage of bat clamps & Hire charges of machine, drill bits etc.[L.S.]	@	1.00%			₹	7.07
	TOTAL					₹	713.67
	Add for Sundries and contingencies	@	3%			₹	21.41
	TOTAL					₹	735.08
	Add for water charges	@	1%			₹	7.35
	TOTAL					₹	742.43
	Add GST (multiplying factor)		0.1405			₹	104.31
						₹	846.74
	Add for contractor's profit and overheads	@	15%			₹	127.01
	Add		10/			₹	973.75
	Add cess	@	1%			₹	9.74
	Cost for 5 no bat clamps					₹	983.49 196.70
	Cost for per bat clamp					₹	196.70 196.70
	Say					•	155.76

18.37 Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :

18.37.2 For 75 mm dia. Pipe

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for 5 nos.						
	MATERIALS						
18005	M.S. holder bat clamps = 5 nos.	each	5.00	₹	27.00	₹	135.00
	LABOUR						
0215	Fitter grade-I	Day	0.125	₹	440.00	₹	55.00
0218	Mason (average)	Day	0.750	₹	420.00	₹	315.00
0203	Beldar	Day	0.50	₹	310.00	₹	155.00
	C.C. Block 5x0.10x0.10x0.10= 0.005 cum						
04006	20 mm nominal size stone aggregate	cum	0.0033	₹	4,875.00	₹	16.09
04008	10 mm nominal size stone aggregate	cum	0.0011	₹	4,730.00	₹	5.20

405	Carriage of stone aggregate below 40 mm	cum	0.0044	₹	147.57	₹	0.65
	nominal size						
02003	Fine sand	cum	0.0022	₹	560.00	₹	1.23
425	Carriage of fine sand	cum	0.0022	₹	131.75	₹	0.29
03001	Cement	tonne	0.0016	₹	5,800.00	₹	9.28
421	Carriage of cement	tonne	0.0016	₹	102.47	₹	0.16
	Labour:						
0203	Beldar	Day	0.0045	₹	310.00	₹	1.40
0212	Coolies	Day	0.0032	₹	310.00	₹	0.99
0205	Bhishti	Day	0.0014	₹	310.00	₹	0.43
0219	Mason 1 st class	Day	0.0003	₹	440.00	₹	0.13
0220	Mason 2nd class	Day	0.0003	₹	395.00	₹	0.12
0224	Mate	Day	0.0002	₹	310.00	₹	0.06
	TOTAL					₹	696.04
	Add for Carriage of bat clamps & Hire charges of machine, drill bits etc.[L.S.]	@	1.00%			₹	6.96
	TOTAL					₹	703.00
	Add for Sundries and contingencies	@	3%			₹	21.09
	TOTAL					₹	724.09
	Add for water charges	@	1%			₹	7.24
	TOTAL					₹	731.33
	Add GST (multiplying factor)		0.1405			₹	102.75
						₹	834.08
	Add for contractor's profit and overheads	@	15%			₹	125.11
						₹	959.19
	Add cess	@	1%			₹	9.59
	Cost for 5 no bat clamps					₹	968.78
	Cost for per bat clamp					₹	193.76
	Say					₹	193.80

18.38 Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.

18.38.1	100 mm
18.38.1.1	Sand cast iron S&S as per IS - 1729
0 - 1 -	

18.38.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18032	100 mm dia sand cast iron bend with access	each	1.00	₹	240.00	₹	240.00
	door including cost of bolts and nuts						
18013	Insertion rubber washer 3 mm thick	each	1.00	₹	18.00	₹	18.00
	LABOUR						
0216	Foreman	Day	0.02	₹	440.00	₹	8.80
0215	Fitter grade-I	Day	0.05	₹	440.00	₹	22.00
0212	Helper	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	304.30
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	3.04
	TOTAL					₹	307.34
	Add for Sundries and contingencies	@	3%			₹	9.22
	TOTAL					₹	316.56
	Add for water charges	@	1%			₹	3.17
	TOTAL					₹	319.73
	Add GST (multiplying factor)		0.1405			₹	44.92
						₹	364.65
	Add for contractor's profit and overheads	@	15%			₹	54.70
						₹	419.35
	Add cess	@	1%			₹	4.19
	Cost for per bend					₹	423.54
	Say					₹	423.50

18.38.1	100 mm						
18.38.1.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18091	100 mm dia sand cast iron S &	each	1.00	₹	300.00	₹	300.00
	S bend with access door including cost of						
	bolts and nuts						
18013	Insertion rubber washer 3 mm thick	each	1.00	₹	18.00	₹	18.00
	LABOUR						
0216	Foreman	Day	0.02	₹	440.00	₹	8.80
0215	Fitter grade-I	Day	0.05	₹	440.00	₹	22.00
0212	Helper	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	364.30
	Add for Carriage of all materials & Ladder etc. [L.S.]	@	1.00%			₹	3.64
	TOTAL					₹	367.94
	Add for Sundries and contingencies	@	3%			₹	11.04
	TOTAL					₹	378.98
	Add for water charges	@	1%			₹	3.79
	TOTAL					₹	382.77
	Add GST (multiplying factor)		0.1405			₹	53.78
			4.50/			₹	436.55
	Add for contractor's profit and overheads	@	15%			₹	65.48
	A.1.		4.07			₹	502.03
	Add cess	@	1%			₹	5.02
	Cost for per bend					₹ ₹	507.05 507.10
	Say					<	507.10

18.38 Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.

18.38.2 18.38.2.1	75 mm dia Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18031	75 mm sand cast iron bend with access door	each	1.00	₹	170.00	₹	170.00
	including cost of bolts and nuts						
18012	Insertion rubber washer 3 mm thick	each	1.00	₹	14.00	₹	14.00
	LABOUR						
0216	Foreman	Day	0.02	₹	440.00	₹	8.80
0215	Fitter grade-I	Day	0.05	₹	440.00	₹	22.00
0212	Helper	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	230.30
	Add for Carriage of all materials & Ladder etc. [L.S.]	@	1.00%			₹	2.30
	TOTAL					₹	232.60
	Add for Sundries and contingencies	@	3%			₹	6.98
	TOTAL					₹	239.58
	Add for water charges	@	1%			₹	2.40
	TOTAL					₹	241.98
	Add GST (multiplying factor)		0.1405			₹	34.00
						₹	275.98
	Add for contractor's profit and overheads	@	15%			₹	41.40
						₹	317.38
	Add cess	@	1%			₹	3.17
	Cost for per bend					₹	320.55
	Say					₹	320.60

18.38 Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.

18.38.2	75 mm dia						
18.38.2.2	Sand cast iron S&S as per IS- 3989	11	Ouantity		D-4-	A	
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no. MATERIALS						
18092	75 mm dia send cast iron S&S	each	1.00	₹	250.00	₹	250.00
10002	bend with access door including cost of bolts and nuts	eacii	1.00	`	230.00	`	230.00
18012	Insertion rubber washer 3 mm thick	each	1.00	₹	14.00	₹	14.00
	LABOUR	odon		`	11.00	•	11.00
0216	Foreman	Day	0.02	₹	440.00	₹	8.80
0215	Fitter grade-I	Day	0.05	₹	440.00		22.00
0212	Helper	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	310.30
	Add for Carriage of all materials & Ladder etc. [L.S.]	@	1.00%			₹	3.10
	TOTAL					₹	313.40
	Add for Sundries and contingencies	@	3%			₹	9.40
	TOTAL					₹	322.81
	Add for water charges	@	1%			₹	3.23
	TOTAL		0.4.405			₹	326.04
	Add GST (multiplying factor)		0.1405			₹	45.81
	Add for contractor's profit and overheads	@	15%			₹	371.85 55.78
	Add for contractor's profit and overneads	w	13/0			₹	427.63
	Add cess	@	1%			₹	4.28
	Cost for per bend	C	170			₹	431.91
	Say					₹	431.90
18.39	Providing and fixing plain bend of required degree.						
18.39.1	100 mm						
18.39.1.1	Sand cast iron S&S as per IS - 1729						
Code							
Code	Description	Unit	Quantity		Rate	Amount	
Code	Description Details of cost for one no.	Unit	Quantity		Rate	Amount	
	Details of cost for one no. MATERIALS	Unit			Rate	Amount	
18030	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend	Unit each	Quantity 1.00	₹	Rate 250.00		250.00
18030	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR	each	1.00		250.00	₹	
18030 0216	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman	each Day	1.00	₹	250.00 440.00	₹	8.80
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I	each Day Day	1.00 0.02 0.05	₹	250.00 440.00 440.00	₹₹	8.80 22.00
18030 0216	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper	each Day	1.00	₹	250.00 440.00	₹₹₹	8.80 22.00 15.50
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I	each Day Day	1.00 0.02 0.05	₹	250.00 440.00 440.00	₹₹	8.80 22.00
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper	each Day Day	1.00 0.02 0.05	₹	250.00 440.00 440.00	₹₹₹	8.80 22.00 15.50
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.]	each Day Day Day	1.00 0.02 0.05 0.05	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.]	each Day Day Day Oay Oay	1.00 0.02 0.05 0.05	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies	each Day Day Day	1.00 0.02 0.05 0.05	₹	250.00 440.00 440.00	₹₹₹₹₹₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL	each Day Day Day ©	1.00 0.02 0.05 0.05 1.00%	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	each Day Day Day Oay Oay	1.00 0.02 0.05 0.05	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL	each Day Day Day ©	1.00 0.02 0.05 0.05 1.00% 3%	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	each Day Day Day ©	1.00 0.02 0.05 0.05 1.00%	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	each Day Day Day @ @	1.00 0.02 0.05 0.05 1.00% 3% 1%	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74 355.06
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	each Day Day Day ©	1.00 0.02 0.05 0.05 1.00% 3%	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74 355.06 53.26
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	each Day Day Oay @ @ @ @	1.00 0.02 0.05 0.05 1.00% 3% 1% 0.1405	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74 355.06 53.26 408.32
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	each Day Day Day @ @	1.00 0.02 0.05 0.05 1.00% 3% 1%	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74 355.06 53.26 408.32 4.08
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for per bend	each Day Day Oay @ @ @ @	1.00 0.02 0.05 0.05 1.00% 3% 1% 0.1405	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74 355.06 53.26 408.32 4.08 412.40
18030 0216 0215	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	each Day Day Oay @ @ @ @	1.00 0.02 0.05 0.05 1.00% 3% 1% 0.1405	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74 355.06 53.26 408.32 4.08
18030 0216 0215 0212	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for per bend Say	each Day Day Oay @ @ @ @	1.00 0.02 0.05 0.05 1.00% 3% 1% 0.1405	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74 355.06 53.26 408.32 4.08 412.40
18030 0216 0215 0212	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for per bend	each Day Day Oay @ @ @ @	1.00 0.02 0.05 0.05 1.00% 3% 1% 0.1405	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74 355.06 53.26 408.32 4.08 412.40
18030 0216 0215 0212	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for per bend Say Providing and fixing plain bend of required degree.	each Day Day Oay @ @ @ @	1.00 0.02 0.05 0.05 1.00% 3% 1% 0.1405	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74 355.06 53.26 408.32 4.08 412.40
18030 0216 0215 0212 18.39 18.39.1	Details of cost for one no. MATERIALS 100 mm sand cast iron plain bend LABOUR Foreman Fitter grade-I Helper TOTAL Add for Carriage of all materials and & Ladder etc. [L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for per bend Say Providing and fixing plain bend of required degree. 100 mm	each Day Day Oay @ @ @ @	1.00 0.02 0.05 0.05 1.00% 3% 1% 0.1405	₹	250.00 440.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	8.80 22.00 15.50 296.30 2.96 299.26 8.98 308.24 3.08 311.32 43.74 355.06 53.26 408.32 4.08 412.40

	Details of cost for one no.						
	MATERIALS						
18093	100 mm dia sand cast iron S & S Plain bend	each	1.00	₹	265.00	₹	265.00
0040	LABOUR		0.00	_			
0216 0215	Foreman Fitter grade I	Day	0.02 0.05	₹	440.00 440.00		8.80 22.00
0213	Fitter grade-I Helper	Day Day	0.05	₹	310.00		15.50
V	TOTAL	Day		`	010.00	₹	311.30
	Add for Carriage of all materials and & Ladder etc. [L.S.]	@	1.00%			₹	3.11
	•						
	TOTAL Add for Sundries and contingencies	@	3%			₹	314.41 9.43
	TOTAL	C	070			₹	323.85
	Add for water charges	@	1%			₹	3.24
	TOTAL		0.1405			₹	327.09
	Add GST (multiplying factor)		0.1405			₹	45.96 373.05
	Add for contractor's profit and overheads	@	15%			₹	55.96
						₹	429.01
	Add cess	@	1%			₹	4.29
	Cost for per bend					₹ ₹	433.30 433.30
	Say						433.30
18.39	Providing and fixing plain bend of required degree.						
18.39.2 18.39.2.1	75 mm Sand cast iron S&S as per IS -1729						
Code	Description	Unit	Quantity		Rate	Amount	
000.0	Details of cost for one no.	0			riaio	, anoun	
	MATERIALS						
18029	75 mm sand cast iron plain bend	each	1.00	₹	190.00	₹	190.00
0040	LABOUR	_	0.00	_		_	
0216 0215	Foreman Fitter grade-I	Day Day	0.02 0.05	₹	440.00 440.00		8.80 22.00
0212	Helper	Day	0.05	₹	310.00		15.50
	TOTAL	•				₹	236.30
	Add for Carriage of all materials and & Ladder etc. [L.S.]	@	1.00%			₹	2.36
	TOTAL					₹	238.66
	Add for Sundries and contingencies	@	3%			₹	7.16
	TOTAL					₹	245.82
	Add for water charges	@	1%			₹	2.46
	TOTAL Add GST (multiplying factor)		0.1405			₹	248.28 34.88
	Add Cor (manpying ractor)		0.1403			₹	283.16
	Add for contractor's profit and overheads	@	15%			₹	42.47
						₹	325.63
	Add cess Cost for per bend	@	1%			₹	3.26 328.89
	Say					₹	328.90
40.00							
18.39 18.39.2	Providing and fixing plain bend of required degree. 75 mm						
18.39.2.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
4055	MATERIALS						
18094	75 mm dia sand cast iron S&S Plain bend	each	1.00	₹	200.00	₹	200.00
0216	LABOUR Foreman	Day	0.02	₹	440.00	₹	8.80
0215	Fitter grade-I	Day	0.05	₹	440.00		22.00
		-					

0212	Helper	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	246.30
	Add for Carriage of all materials and & Ladder etc. [L.S.]	@	1.00%			₹	2.46
	TOTAL		201			₹	248.76
	Add for Sundries and contingencies TOTAL	@	3%			₹	7.46 256.23
	Add for water charges	@	1%			₹	2.56
	TOTAL		0.4.405			₹	258.79
	Add GST (multiplying factor)		0.1405			₹	36.36 295.15
	Add for contractor's profit and overheads	@	15%			₹	44.27
						₹	339.42
	Add cess Cost for per bend	@	1%			₹	3.39 342.81
	Say					₹	342.80
18.40	Providing and fixing heel rest sanitary bend						
18.40.1	100 mm dia						
18.40.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
18048	MATERIALS 100 mm sand cast iron heel rest bend	each	1.00	₹	340.00	₹	340.00
10010	LABOUR	Cuon		`	040.00	`	040.00
0216	Foreman	Day	0.03	₹	440.00	₹	13.20
0215	Fitter grade-I	Day	0.05	₹	440.00	₹	22.00
0212	Helper	Day	0.05	₹	310.00		15.50
	TOTAL					₹	390.70
	Add for Carriage of all materials and rubber washer, bolts, nuts & Ladder etc. [L.S.]	@	1.00%			₹	3.91
	TOTAL Add for Sundries and contingencies	@	3%			₹	394.61 11.84
	TOTAL	Ü				₹	406.45
	Add for water charges	@	1%			₹	4.06
	TOTAL		0.4405			₹	410.51
	Add GST (multiplying factor)		0.1405			₹	57.68 468.19
	Add for contractor's profit and overheads	@	15%			₹	70.23
						₹	538.42
	Add cess	@	1%			₹	5.38
	Cost for per bend					₹ ₹	543.80 543.80
	Say					•	343.60
18.40	Providing and fixing heel rest sanitary bend						
18.40.1	100 mm dia						
18.40.1.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
18095	MATERIALS	!	1.00	-	200.00	-	000.00
10095	100 mm dia sand cast iron S & S heel rest sanitary bend	each	1.00	₹	300.00	<	300.00
	LABOUR						
0216	Foreman	Day	0.03	₹	440.00	₹	13.20
0215	Fitter grade-I	Day	0.05	₹	440.00		22.00
0212	Helper	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	350.70
	Add for Carriage of all materials and rubber washer, bolts, nuts & Ladder etc. [L.S.]	@	1.00%			₹	3.51
	TOTAL					₹	354.21
	Add for Sundries and contingencies	@	3%			₹	10.63

	TOTAL					-	004.00
	TOTAL		10/			₹	364.83
	Add for water charges TOTAL	@	1%			₹	3.65 368.48
	Add GST (multiplying factor)		0.1405			₹	308.48 51.77
	Add GGT (Inditiplying factor)		0.1405			₹	420.25
	Add for contractor's profit and overheads	@	15%			₹	63.04
	Add for contractor a profit and eventedas	•	1370			₹	483.29
	Add cess	@	1%			₹	4.83
	Cost for per bend	•	1 70			₹	488.12
	Say					₹	488.10
	Ody					•	100110
18.40	Providing and fixing heel rest sanitary bend						
18.40.2	75 mm						
18.40.2.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
0000	Details of cost for one no.	O			ridio	, uno une	
	MATERIALS						
18047	75 mm sand cast iron heel rest bend	each	1.00	₹	270.00	₹	270.00
10017	LABOUR	Cacii		`	270.00	`	270.00
0216	Foreman	Day	0.03	₹	440.00	₹	13.20
0215	Fitter grade-I	Day	0.05	₹	440.00		22.00
0213	Helper	-	0.05	₹	310.00		15.50
0212	TOTAL	Day	0.00	`	310.00	₹	320.70
	Add for Carriage of all materials and rubber washer, bolts, nuts &						
	Ladder etc. [L.S.]	@	1.00%			₹	3.21
	TOTAL					₹	323.91
	Add for Sundries and contingencies	@	3%			₹	9.72
	TOTAL					₹	333.62
	Add for water charges	@	1%			₹	3.34
	TOTAL					₹	336.96
	Add GST (multiplying factor)		0.1405			₹	47.34
						₹	384.30
	Add for contractor's profit and overheads	@	15%			₹	57.65
		_				₹	441.95
	Add cess	@	1%			₹	4.42
	Cost for per bend					₹	446.37 446.40
	Say					•	440.40
18.40	Providing and fixing heel rest sanitary bend						
18.40.2	75 mm						
18.40.2.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
Code	Details of cost for one no.	Oilit	quantity		Nate	Amount	
18096	MATERIALS		1.00	₹	200.00	x	200.00
10090	75 mm dia send cast iron S&S	each	1.00	<	260.00	<	260.00
	heel rest sanitary bend						
0216	LABOUR Foreman	Davi	0.03	₹	440.00	3	13.20
0215		Day	0.05	₹	440.00		
0213	Fitter grade-I	Day	0.05	₹	440.00		22.00
0212	Helper	Day	0.00	•	310.00		15.50
	TOTAL Add for Carriage of all materials and rubber washer, bolts, nuts &					₹	310.70
	Ladder etc. [L.S.]	@	1.00%			₹	3.11
	TOTAL					₹	313.81
	Add for Sundries and contingencies	@	3%			₹	9.41
	TOTAL					₹	323.22
	Add for water charges	@	1%			₹	3.23
	TOTAL					₹	326.45
	Add GST (multiplying factor)		0.1405			₹	45.87
						₹	372.32
	Add for contractor's profit and overheads	@	15%			₹	55.85
						₹	428.17
	Add cess	@	1%			₹	4.28

Cost for one no. 432.45 432.50 Say

18.41 Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts comple

18.41.1 100x100x100x100mm

18.41.1.1 Sand cast iron S&S as per IS - 1729

18.41.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amoun	t
	Details of cost for one no.						
	MATERIALS						
18040	100x100x100x100 mm sand cast iron double	each	1.00	₹	700.00	₹	700.00
	equal junction with access door including cost						
	of bolts and nuts						
18013	Insertion rubber washer 3 mm thick	each	1.00	₹	18.00	₹	18.00
	LABOUR						
0215	Fitter grade-I	Day	0.0600	₹	440.00	₹	26.40
0212	Helper	Day	0.0600	₹	310.00	₹	18.60
	TOTAL					₹	763.00
	Add for Carriage of all materials & Ladder etc. [L.S.]	@	1.00%			₹	7.63
	TOTAL					₹	770.63
	Add for Sundries and contingencies	@	3%			₹	23.12
	TOTAL					₹	793.75
	Add for water charges	@	1%			₹	7.94
	TOTAL					₹	801.69
	Add GST (multiplying factor)		0.1405			₹	112.64
			4.50/			₹	914.33
	Add for contractor's profit and overheads	@	15%			₹	137.15
		_				₹	1,051.48
	Add cess	@	1%			₹	10.51
	Cost for one no.					₹	1,061.99
	Say					₹	1,062.00

18.41 Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts comple 18.41.1 100x100x100x100mm

18.41.1.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18103	100x 100x 100x 100 mm sand	each	1.00	₹	620.00	₹	620.00
	cast iron S&S double equal junction						
	with access door including cost of bolts and nuts						
18013	Insertion rubber washer 3 mm thick	each	1.00	₹	18.00	₹	18.00
	LABOUR						
0215	Fitter grade-I	Day	0.0600	₹	440.00	₹	26.40
0212	Helper	Day	0.0600	₹	310.00	₹	18.60
	TOTAL					₹	683.00
	Add for Carriage of all materials & Ladder etc. [L.S.]	@	1.00%			₹	6.83
	TOTAL					₹	689.83
	Add for Sundries and contingencies	@	3%			₹	20.69
	TOTAL					₹	710.52
	Add for water charges	@	1%			₹	7.11
	TOTAL					₹	717.63
	Add GST (multiplying factor)		0.1405			₹	100.83
						₹	818.46
	Add for contractor's profit and overheads	@	15%			₹	122.77
						₹	941.23
	Add cess	@	1%			₹	9.41
	Cost for one no.					₹	950.64
	Say					₹	950.60

18.41 Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts comple 18.41.2 75x75x75x75 mm

18.41.2.1	Sand cast iron S&S as per IS - 1729		0				
Code	Description Details of cost for one no.	Unit	Quantity		Rate	Amount	
	MATERIALS						
18039	75x75x75 mm sand cast iron double equal	each	1.00	₹	500.00	₹	500.00
	junction with access door including cost of						
18012	bolts and nuts	aaab	1.00	∓	14.00	=	14.00
10012	Insertion rubber washer 3 mm thick LABOUR	each	1.00	₹	14.00	₹	14.00
0215	Fitter grade-I	Day	0.0600	₹	440.00	₹	26.40
0212	Helper	Day	0.0600	₹	310.00		18.60
0	TOTAL	Day		•	010.00	` ₹	559.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	5.59
	TOTAL					₹	564.59
	Add for Sundries and contingencies	@	3%			₹	16.94
	TOTAL					₹	581.53
	Add for water charges	@	1%			₹	5.82
	TOTAL		0.1405			₹	587.35
	Add GST (multiplying factor)		0.1405			₹	82.52 669.87
	Add for contractor's profit and overheads	@	15%			₹	100.48
	Add for contractor a profit and eventedas	6	1370			₹	770.35
	Add cess	@	1%			₹	7.70
	Cost for one no.	C	170			₹	778.05
	Say					₹	778.00
18.41	Providing and fixing double equal junction of required degree with acces	s door,ins	ertion rubber v	wash	er 3 mm thick	, bolts and ı	nuts comple
18.41.2	75x75x75 mm						
18.41.2.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18104	75x75x75x75 mm sand cast	each	1.00	₹	490.00	₹	490.00
	iron S&S double equal junction with access						
	door including cost of bolts and nuts						
18012	Insertion rubber washer 3 mm thick	each	1.00	₹	14.00	₹	14.00
0045	LABOUR						
0215	Fitter grade-I	Day	0.0600	₹	440.00		26.40
0212	Helper	Day	0.0600	₹	310.00		18.60
	TOTAL Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹ ₹	549.00 5.49
	TOTAL	<u> </u>	1.00%			₹	554.49
	Add for Sundries and contingencies	@	3%			₹	16.63
	TOTAL					₹	571.12
	Add for water charges	@	1%			₹	5.71
	TOTAL					₹	576.83
	Add GST (multiplying factor)		0.1405			₹	81.05
						₹	657.88
	Add for contractor's profit and overheads	@	15%			₹	98.68
	Address		40/			₹	756.56
	Add cess	@	1%			₹	7.57 764.13
	Cost for one no. Say					₹	764.13
	Say					`	704.10
18.42 18.42.1 18.42.1.1	Providing and fixing double equal plain junction of required degree. 100x100x100x100 mm Sand cost iron SSS as par IS - 1770						
Code	Sand cast iron S&S as per IS - 1729 Description	Unit	Quantity		Rate	Amount	
3000	Details of cost for one no.	Jiin	y		Nute	Amount	
	MATERIALS						
18038	100x100x100 mm sand cast iron double	each	1.00	₹	580.00	₹	580.00
. 5555	. SSA. SSA TOSA TOS TITILI SAITA SAITA SAITA SAITA GODIE	Juon		`	555.00	`	500.00

	equal plain junction						
	LABOUR						
0215	Fitter grade-I	Day	0.0400	₹	440.00		17.60
0212	Helper	Day	0.0400	₹	310.00		12.40
	TOTAL Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹ ₹	610.00 6.10
	TOTAL	œ.	1.00%			₹	616.10
	Add for Sundries and contingencies	@	3%			₹	18.48
	TOTAL					₹	634.58
	Add for water charges	@	1%			₹	6.35
	TOTAL		0.4.405			₹	640.93
	Add GST (multiplying factor)		0.1405			₹	90.05 730.98
	Add for contractor's profit and overheads	@	15%			₹	109.65
	, and is continuous of profit and crombado	Ü	1070			₹	840.63
	Add cess	@	1%			₹	8.41
	Cost for one no.					₹	849.04
	Say					₹	849.00
18.42	Providing and fixing double equal plain junction of required degree.						
17.42.1	100x100x100x100 mm						
18.42.1.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
MATERIAL	Details of cost for one no.						
MATERIALS 18101			1.00	₹	000.00	3	000.00
10101	100x100x100x100 mm. sand cast iron S&S double equal plain junction	each	1.00	<	630.00	<	630.00
	LABOUR						
0215	Fitter grade-I	Day	0.0400	₹	440.00	₹	17.60
0212	Helper	Day	0.0400	₹	310.00		12.40
	TOTAL	•				₹	660.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	6.60
	TOTAL		201			₹	666.60
	Add for Sundries and contingencies TOTAL	@	3%			₹	20.00 686.60
	Add for water charges	@	1%			₹	6.87
	TOTAL	C	170			₹	693.47
	Add GST (multiplying factor)		0.1405			₹	97.43
						₹	790.90
	Add for contractor's profit and overheads	@	15%			₹	118.63
			-01			₹	909.53
	Add cess Cost for one no.	@	1%			₹	9.10 918.63
	Say					₹ ₹	918.60
	Say					`	010.00
18.42	Providing and fixing double equal plain junction of required degree.						
18.42.2	75x75x75x75 mm						
18.42.2.1	Sand cast iron S&S as per IS - 1729					_	
Code	Description	Unit	Quantity		Rate	Amount	
MATERIAL	Details of cost for one no.						
MATERIALS 18037	5 75x75x75x75 mm sand cast iron double equal	each	1.00	₹	380.00	₹	380.00
10037	plain junction	Cacii	1.00	`	300.00	`	550.00
	LABOUR						
0215	Fitter grade-I	Day	0.0400	₹	440.00	₹	17.60
0212	Helper	Day	0.0400	₹	310.00		12.40
	TOTAL	,				₹	410.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	4.10
	TOTAL					₹	414.10

Add for Sundries and contingencies	@	3%	₹	12.42
TOTAL			₹	426.52
Add for water charges	@	1%	₹	4.27
TOTAL			₹	430.79
Add GST (multiplying factor)		0.1405	₹	60.53
			₹	491.32
Add for contractor's profit and overheads	@	15%	₹	73.70
			₹	565.02
Add cess	@	1%	₹	5.65
Cost for one no.			₹	570.67
Say			₹	570.70

18.42	$\label{providing} \mbox{ and fixing double equal plain junction of required degree.}$						
18.42.2	75x75x75 mm						
18.42.2.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIALS	3						
18102	75x75x75x75 mm sand cast	each	1.00	₹	462.00	₹	462.00
	iron S&S double equal plain junction						
	LABOUR						
0215	Fitter grade-I	Day	0.0400	₹	440.00	₹	17.60
0212	Helper	Day	0.0400	₹	310.00	₹	12.40
	TOTAL					₹	492.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	4.92
	TOTAL					₹	496.92
	Add for Sundries and contingencies	@	3%			₹	14.91
	TOTAL					₹	511.83
	Add for water charges	@	1%			₹	5.12
	TOTAL					₹	516.95
	Add GST (multiplying factor)		0.1405			₹	72.63
						₹	589.58
	Add for contractor's profit and overheads	@	15%			₹	88.44
						₹	678.02
	Add cess	@	1%			₹	6.78

18.43 Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.

Cost for one no.

100x100x100 mm

Say

18.43.1

18.43.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIAL	3						
18036	100x100x100 mm single equal plain junction	each	1.00	₹	400.00	₹	400.00
	with access door including cost of bolts and Nuts						
18013	Insertion rubber washer 3 mm thick	each	1.00	₹	18.00	₹	18.00
	LABOUR						
0215	Fitter grade-I	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
	TOTAL					₹	455.50
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	4.56
	TOTAL					₹	460.06
	Add for Sundries and contingencies	@	3%			₹	13.80
	TOTAL					₹	473.86
	Add for water charges	@	1%			₹	4.74
	TOTAL					₹	478.60
	Add GST (multiplying factor)		0.1405			₹	67.24
						₹	545.84

₹

684.80

684.80

Add for contractor's profit and overheads	@	15%	₹	81.88
			₹	627.72
Add cess	@	1%	₹	6.28
Cost for one no.			₹	634.00
Say			₹	634.00

18.43 Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.

18.43.1 100x100x100 mm

18.43.1.2 Sand cast iron S&S as per IS - 3989

10.43.1.2	Sand Cast non Sas as per is - 3909						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIAL	S						
18099	100x100x100 mm sand cast	each	1.00	₹	500.00	₹	500.00
	iron S&S single equal plain junction with						
	access door including cost of bolts and nuts						
18013	Insertion rubber washer 3 mm thick	each	1.00	₹	18.00	₹	18.00
	LABOUR						
0215	Fitter grade-I	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
	TOTAL					₹	555.50
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	5.56
	TOTAL					₹	561.06
	Add for Sundries and contingencies	@	3%			₹	16.83
	TOTAL					₹	577.89
	Add for water charges	@	1%			₹	5.78
	TOTAL					₹	583.67
	Add GST (multiplying factor)		0.1405			₹	82.01
						₹	665.68
	Add for contractor's profit and overheads	@	15%			₹	99.85
						₹	765.53
	Add cess	@	1%			₹	7.66
	Cost for one no.					₹	773.19
	Say					₹	773.20

18.43 Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.

18.43.2 75x75x75 mm

18.43.2.1 Sand cast iron S&S as per IS - 1729

18.43.2.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIALS							
18035	75x75x75 mm single equal plain junction with	each	1.00	₹	300.00	₹	300.00
	access door including cost of bolts and nuts						
18012	Insertion rubber washer 3 mm thick	each	1.00	₹	14.00	₹	14.00
	LABOUR						
0215	Fitter grade-I	Day	0.0600	₹	440.00	₹	26.40
0212	Helper	Day	0.0600	₹	310.00	₹	18.60
	TOTAL					₹	359.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	3.59
	TOTAL					₹	362.59
	Add for Sundries and contingencies	@	3%			₹	10.88
	TOTAL					₹	373.47
	Add for water charges	@	1%			₹	3.73
	TOTAL					₹	377.20
	Add GST (multiplying factor)		0.1405			₹	53.00
						₹	430.20
	Add for contractor's profit and overheads	@	15%			₹	64.53
						₹	494.73
	Add cess	@	1%			₹	4.95
	Cost for one no.					₹	499.68
	Say					₹	499.70

18.43.2 18.43.2.2 Code	and nuts complete.	0 111111 4000	ss uooi, iiisei	tion	rubber wash	ier 3 mm t	hick, bolt
	75x75x75 mm						
Codo	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
//ATERIALS	S						
18100	75x75x75 mm sand cast iron S	each	1.00	₹	380.00	₹	380.00
	& S single equal plain junction with access						
	door including cost of bolts and nuts						
18012	Insertion rubber washer 3 mm thick	each	1.00	₹	14.00	₹	14.00
	LABOUR						
0215	Fitter grade-I	Day	0.0600	₹	440.00	₹	26.40
0212	Helper	Day	0.0600	₹	310.00	₹	18.60
	TOTAL					₹	439.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	4.39
	TOTAL					₹	443.39
	Add for Sundries and contingencies	@	3%			₹	13.30
	TOTAL					₹	456.69
	Add for water charges	@	1%			₹	4.57
	TOTAL					₹	461.26
	Add GST (multiplying factor)		0.1405			₹	64.81
	Add for contractor's mostit and consultation		1 = 0/			₹	526.07
	Add for contractor's profit and overheads	@	15%			₹	78.9° 604.98
	Add cess	@	1%			₹	6.05
	Cost for one no.	w	1 /0			₹	611.0
	Say					₹	611.0
18.44.1.1 Code	Sand cast iron S&S as per IS - 1729 Description	Unit	Quantity		Rate	Amount	
Oouc	Details of cost for one no.	Onic			Nate	Amount	
ATERIALS							
18034	100x100x100 mm sand cast iron single equal plain junction	each	1.00	₹	360.00	₹	360.0
	LABOUR	odon		`	000.00	`	000.0
0215	Fitter grade-I	Day	0.0600	₹	440.00	₹	26.4
0212	Helper	Day	0.0600	₹	310.00		18.6
02.2	TOTAL	Day		`	010.00	` ₹	405.0
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	4.05
	TOTAL					₹	409.0
	Add for Sundries and contingencies	@	3%			₹	12.27
	TOTAL					₹	421.3
						₹	
	Add for water charges	@	1%			`	
	TOTAL	@				₹	425.53
		@	1% 0.1405			₹	425.53 59.79
	TOTAL Add GST (multiplying factor)		0.1405			₹ ₹	425.53 59.79 485.32
	TOTAL	@				₹ ₹ ₹	425.53 59.79 485.32 72.80
	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	@	0.1405 15%			₹ ₹ ₹	425.53 59.79 485.32 72.80 558.12
	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess		0.1405			₹ ₹ ₹ ₹	425.53 59.79 485.32 72.80 558.12 5.58
	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no.	@	0.1405 15%			₹ ₹ ₹ ₹ ₹	425.55 59.79 485.32 72.80 558.12 5.58 563.7
	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	@	0.1405 15%			₹ ₹ ₹ ₹	425.55 59.79 485.32 72.80 558.12 5.58 563.7
18.44	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing single equal plain junction of required degree	@	0.1405 15%			₹ ₹ ₹ ₹ ₹	425.5 59.7 485.3 72.8 558.1 5.5 563.7
18.44.1	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing single equal plain junction of required degree 100x100x100 mm	@	0.1405 15%			₹ ₹ ₹ ₹ ₹	425.50 59.79 485.32 72.80 558.12 5.58 563.70
18.44.1 18.44.1.2	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing single equal plain junction of required degree 100x100x100 mm Sand cast iron S&S as per IS - 3989	@	0.1405 15% 1%			₹ ₹ ₹ ₹ ₹ ₹ ₹	425.50 59.79 485.32 72.80 558.12 5.58 563.70
18.44.1	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing single equal plain junction of required degree 100x100x100 mm Sand cast iron S&S as per IS - 3989 Description	@	0.1405 15%		Rate	₹ ₹ ₹ ₹ ₹	425.50 59.79 485.32 72.80 558.12 5.58 563.70
18.44.1 18.44.1.2	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing single equal plain junction of required degree 100x100x100 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no.	@	0.1405 15% 1%		Rate	₹ ₹ ₹ ₹ ₹ ₹ ₹	4.21 425.53 59.79 485.32 72.80 558.12 5.58 563.70

	iron S&S single equal plain junction						
	LABOUR						
0215	Fitter grade-I	Day	0.0600	₹	440.00	₹	26.40
0212	Helper	Day	0.0600	₹	310.00		18.60
V	TOTAL	Day		•	010.00	₹	525.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	5.25
	TOTAL					₹	530.25
	Add for Sundries and contingencies	@	3%			₹	15.91
	TOTAL					₹	546.16
	Add for water charges	@	1%			₹	5.46
	TOTAL					₹	551.62
	Add GST (multiplying factor)		0.1405			₹	77.50
						₹	629.12
	Add for contractor's profit and overheads	@	15%			₹	94.37
			401			₹	723.49
	Add cess	@	1%			₹	7.23
	Cost for one no.					₹ ₹	730.72 730.70
18.44	Say					•	730.70
18.44.2	Providing and fixing single equal plain junction of required degree 75x75x75 mm						
18.44.2.1							
Code	Sand cast iron S&S as per IS - 1729	Unit	Quantity		Data	Amount	
Code	Description Description	Unit	Quantity		Rate	Amount	
MATERIALS	Details of cost for one no.						
18033		each	1.00	₹	280.00	3	280.00
10033	75x75x75 mm sand cast iron single equal plain junction LABOUR	eacii	1.00	`	200.00	`	200.00
0215		Dov	0.0600	₹	440.00	=	26.40
0213	Fitter grade-I Helper	Day Day	0.0600	₹	440.00 310.00		26.40 18.60
0212	·	Day	0.0000	•	310.00		
	TOTAL Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	325.00 3.25
	TOTAL	۵	1.00%			₹	328.25
	Add for Sundries and contingencies	@	3%			₹	9.85
	TOTAL	C	070			₹	338.10
	Add for water charges	@	1%			₹	3.38
	TOTAL					₹	341.48
	Add GST (multiplying factor)		0.1405			₹	47.98
						₹	389.46
	Add for contractor's profit and overheads	@	15%			₹	58.42
						₹	447.88
	Add cess	@	1%			₹	4.48
	Cost for one no.					₹	452.36
40.44	Say					₹	452.40
18.44	Providing and fixing single equal plain junction of required degree:						
18.44.2	75x75x75 mm						
18.44.2.2	Sand cast iron S&S as per IS - 3989		0		5 /		
Code	Description Details of cost for one no.	Unit	Quantity		Rate	Amount	
MATERIALS							
18098	75x75x75 mm sand cast iron	each	1.00	₹	276.00	₹	276.00
	S&S single equal plain junction						
	LABOUR						
0215	Fitter grade-I	Day	0.0600	₹	440.00	₹	26.40
0212	Helper	Day	0.0600	₹	310.00	₹	18.60
	TOTAL					₹	321.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	3.21
	TOTAL	_				₹	324.21
	Add for Sundries and contingencies	@	3%			₹	9.73
	TOTAL		4.07			₹	333.94
	Add for water charges	@	1%			₹	3.34 337.28
	TOTAL Add GST (multiplying factor)		0.1405			₹	337.28 47.39
	Add SST (Indiaplying factor)		0.1403			₹	47.39 384.67
	Add for contractor's profit and overheads	@	15%			₹	57.70
		Ü				₹	442.37
							-

	Add cess	@	1%			₹	4.42
	Cost for one no.					₹	446.79
	Say					₹	446.80
18.45	Providing and fixing double unequal junction of required degree complete :	with access doc	or, insertion ru	bber	washer 3 mm	n thick,	bolts and nuts
18.45.1	100x100x75x75 mm						
18.45.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amou	nt
	Details of cost for one no.						
MATERIALS 18046	400:400:75:75 mass conditions because		1.00	₹	000.00	=	000.00
10040	100x100x75x75 mm sand cast iron branch	each	1.00	<	680.00	<	680.00
18013	with access door including cost of bolts and nuts	b	1.00	=	40.00	-	10.00
10013	Insertion rubber washer 3 mm thick LABOUR	each	1.00	₹	18.00	<	18.00
0215		Dov	0.0600	₹	440.00	=	26.40
0213	Fitter grade-I	Day	0.0600	₹	310.00		18.60
0212	Helper TOTAL	Day	0.0000	•	310.00	₹	743.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	7.43
	TOTAL	C	1.00%			₹	750.43
	Add for Sundries and contingencies	@	3%			₹	22.51
	TOTAL					₹	772.94
	Add for water charges	@	1%			₹	7.73
	TOTAL					₹	780.67
	Add GST (multiplying factor)		0.1405			₹	109.68
						₹	890.35
	Add for contractor's profit and overheads	@	15%			₹	133.55
						₹	1,023.90
	Add cess	@	1%			₹	10.24
	Aud Cess	w	1 /0				
	Cost for one no.	<i>w</i>	1 70			₹	1,034.14
		•	1 70				
18.45	Cost for one no.			bber	washer 3 mm	₹	1,034.14 1,034.10
18.45 18.45.1	Cost for one no. Say Providing and fixing double unequal junction of required degree			bber	washer 3 mm	₹	1,034.14 1,034.10
	Cost for one no. Say Providing and fixing double unequal junction of required degree complete:			bber	washer 3 mm	₹	1,034.14 1,034.10
18.45.1	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm			bber	washer 3 mm Rate	₹	1,034.14 1,034.10 bolts and nuts
18.45.1 18.45.1.2	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989	with access doo	or, insertion ru	bber		₹ ₹ n thick,	1,034.14 1,034.10 bolts and nuts
18.45.1 18.45.1.2	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no.	with access doo	or, insertion ru	bber		₹ ₹ n thick,	1,034.14 1,034.10 bolts and nuts
18.45.1 18.45.1.2 Code	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no.	with access doo	or, insertion ru	bber		₹ n thick,	1,034.14 1,034.10 bolts and nuts
18.45.1 18.45.1.2 Code	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no.	with access doo Unit	or, insertion ru Quantity		Rate	₹ n thick,	1,034.14 1,034.10 bolts and nuts
18.45.1 18.45.1.2 Code	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast	with access doo Unit	or, insertion ru Quantity		Rate	₹ n thick,	1,034.14 1,034.10 bolts and nuts
18.45.1 18.45.1.2 Code	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with	with access doo Unit	or, insertion ru Quantity		Rate	₹ n thick, Amou	1,034.14 1,034.10 bolts and nuts
18.45.1 18.45.1.2 Code MATERIALS 18108	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts	with access doo Unit each	Quantity	₹	Rate 860.00	₹ n thick, Amou	1,034.14 1,034.10 bolts and nuts nt
18.45.1 18.45.1.2 Code MATERIALS 18108	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick	with access doo Unit each	Quantity	₹	Rate 860.00	₹ n thick, Amou	1,034.14 1,034.10 bolts and nuts nt
18.45.1 18.45.1.2 Code MATERIALS 18108	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR	with access doo Unit each	Quantity 1.00	₹	Rate 860.00 18.00	₹ n thick, Amou	1,034.14 1,034.10 bolts and nuts nt
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I	with access doo Unit each each Day	Quantity 1.00 1.00 0.0600	₹₹	Rate 860.00 18.00 440.00	₹ n thick, Amou	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper	with access doo Unit each each Day	Quantity 1.00 1.00 0.0600	₹₹	Rate 860.00 18.00 440.00	₹ n thick, Amou	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL	with access doo Unit each each Day Day	Quantity 1.00 1.00 0.0600 0.0600	₹₹	Rate 860.00 18.00 440.00	₹ n thick, Amou	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.]	with access doo Unit each each Day Day	Quantity 1.00 1.00 0.0600 0.0600	₹₹	Rate 860.00 18.00 440.00	₹ n thick, Amou	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00 9.23
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL	with access doo Unit each Day Day Day	Quantity 1.00 1.00 0.0600 0.0600 1.00%	₹₹	Rate 860.00 18.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00 9.23 932.23 27.97 960.20
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	with access doo Unit each Day Day Day	Quantity 1.00 1.00 0.0600 0.0600 1.00%	₹₹	Rate 860.00 18.00 440.00	₹ To thick, Amou	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00 9.23 932.23 27.97 960.20 9.60
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	with access doo Unit each each Day Day @	1.00 1.00 0.0600 0.0600 1.00% 3% 1%	₹₹	Rate 860.00 18.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00 9.23 932.23 27.97 960.20 9.60 969.80
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	with access doo Unit each each Day Day @	1.00 1.00 0.0600 0.0600 1.00% 3%	₹₹	Rate 860.00 18.00 440.00	₹ thick, Amou	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00 9.23 932.23 27.97 960.20 9.60 969.80 136.26
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	with access door Unit each Day Day @ @ @	1.00 1.00 0.0600 0.0600 1.00% 3% 1% 0.1405	₹₹	Rate 860.00 18.00 440.00	₹ ₹ thick, Amou	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00 9.23 932.23 27.97 960.20 9.60 969.80 136.26 1,106.06
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	with access doo Unit each each Day Day @	1.00 1.00 0.0600 0.0600 1.00% 3% 1%	₹₹	Rate 860.00 18.00 440.00	₹ ₹ thick, Amou	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00 9.23 932.23 27.97 960.20 9.60 969.80 136.26 1,106.06 165.91
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	with access door Unit each Day Day @ @ @	1.00 1.00 0.0600 0.0600 1.00% 3% 1% 0.1405	₹₹	Rate 860.00 18.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00 9.23 932.23 27.97 960.20 9.60 969.80 136.26 1,106.06 165.91 1,271.97
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	with access door Unit each Day Day @ @ @	1.00 1.00 0.0600 0.0600 1.00% 3% 1% 0.1405	₹₹	Rate 860.00 18.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00 9.23 932.23 27.97 960.20 9.60 969.80 136.26 1,106.06 165.91 1,271.97 12.72
18.45.1 18.45.1.2 Code MATERIALS 18108 18013 0215	Cost for one no. Say Providing and fixing double unequal junction of required degree complete: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. 100x100x75x75 mm sand cast iron S&S double unequal junction with access door including cost of bolts and nuts Insertion rubber washer 3 mm thick LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	with access door Unit each Day Day @ @ @	1.00 1.00 0.0600 0.0600 1.00% 3% 1% 0.1405	₹₹	Rate 860.00 18.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	1,034.14 1,034.10 bolts and nuts nt 860.00 18.00 26.40 18.60 923.00 9.23 932.23 27.97 960.20 9.60 969.80 136.26 1,106.06 165.91 1,271.97

18.46	Providing and fixing double unequal plain junction of required degree:						
18.46.1	100x100x75x75 mm						
18.46.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amoun	t
	Details of cost for one no.						
MATERIALS	S						
18045	100X100X75X75 mm junction	each	1.00	₹	600.00	₹	600.00
	LABOUR						
0215	Fitter grade-I	Day	0.0600	₹	440.00	₹	26.40
0212	Helper	Day	0.0600	₹	310.00		18.60
	TOTAL	24,		•	0.0.00	₹	645.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	6.45
	TOTAL					₹	651.45
	Add for Sundries and contingencies	@	3%			₹	19.54
	TOTAL					₹	670.99
	Add for water charges	@	1%			₹	6.71
	TOTAL					₹	677.70
	Add GST (multiplying factor)		0.1405			₹	95.22
	, , , , , , , , , , , , , , , , , , , ,					₹	772.92
	Add for contractor's profit and overheads	@	15%			₹	115.94
	·					₹	888.86
	Add cess	@	1%			₹	8.89
	Cost for one no.					₹	897.75
	Cov					₹	897.80
18.46	Say Providing and fixing double unequal plain junction of required degree:					`	
18.46.1						•	
18.46.1 18.46.1.2	Providing and fixing double unequal plain junction of required degree:					•	
18.46.1	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm	Unit	Quantity		Rate	Amoun	t
18.46.1 18.46.1.2 Code	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no.		Quantity		Rate		t
18.46.1 18.46.1.2 Code	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no.		Quantity		Rate		t
18.46.1 18.46.1.2 Code	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no.		Quantity 1.00	₹	Rate 810.00	Amoun	t 810.00
18.46.1 18.46.1.2 Code	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no.	Unit	-	₹		Amoun	
18.46.1 18.46.1.2 Code	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast	Unit	-	₹		Amoun	
18.46.1 18.46.1.2 Code	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction	Unit	-	₹		Amoun	
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I	Unit each Day	1.00		810.00 440.00	Amoun ₹	810.00 26.40
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper	Unit each	1.00	₹	810.00	Amoun ₹ ₹	810.00 26.40 18.60
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I	Unit each Day	1.00	₹	810.00 440.00	Amoun ₹	810.00 26.40
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL	Unit each Day Day	1.00 0.0600 0.0600	₹	810.00 440.00	Amoun ₹ ₹ ₹	810.00 26.40 18.60 855.00
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.]	Unit each Day Day	1.00 0.0600 0.0600	₹	810.00 440.00	Amoun ₹ ₹₹₹	810.00 26.40 18.60 855.00 8.55
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL	Unit each Day Day	1.00 0.0600 0.0600 1.00%	₹	810.00 440.00	Amoun ₹ ₹₹₹₹	810.00 26.40 18.60 855.00 8.55 863.55
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies	Unit each Day Day	1.00 0.0600 0.0600 1.00%	₹	810.00 440.00	Amoun ₹ ₹₹₹₹₹	810.00 26.40 18.60 855.00 8.55 863.55 25.91
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL	Unit each Day Day @	1.00 0.0600 0.0600 1.00% 3%	₹	810.00 440.00	Amoun ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	810.00 26.40 18.60 855.00 8.55 863.55 25.91 889.46
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	Unit each Day Day @	1.00 0.0600 0.0600 1.00% 3%	₹	810.00 440.00	Amoun ₹ ₹₹₹₹₹₹	810.00 26.40 18.60 855.00 8.55 863.55 25.91 889.46 8.89
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	Unit each Day Day @	1.00 0.0600 0.0600 1.00% 3% 1%	₹	810.00 440.00	Amoun ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	26.40 18.60 855.00 8.55 863.55 25.91 889.46 8.89 898.35
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	Unit each Day Day @	1.00 0.0600 0.0600 1.00% 3% 1%	₹	810.00 440.00	Amoun ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	26.40 18.60 855.00 8.55 863.55 25.91 889.46 8.89 898.35 126.22
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	Unit each Day Day @ @ @ @	1.00 0.0600 0.0600 1.00% 3% 1% 0.1405 15%	₹	810.00 440.00	Amoun ₹ ₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹	810.00 26.40 18.60 855.00 8.55 863.55 25.91 889.46 8.89 898.35 126.22 1,024.57
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	Unit each Day Day @ @ @ @	1.00 0.0600 0.0600 1.00% 3% 1% 0.1405	₹	810.00 440.00	A moun ₹ ₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹	810.00 26.40 18.60 855.00 8.55 863.55 25.91 889.46 8.89 898.35 126.22 1,024.57 153.68
18.46.1.2 Code MATERIALS 18107	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm Sand cast iron S&S as per IS - 3989 Description Details of cost for one no. S 100x100x75x75 mm sand cast iron S&S double unequal plain junction LABOUR Fitter grade-I Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	Unit each Day Day @ @ @ @	1.00 0.0600 0.0600 1.00% 3% 1% 0.1405 15%	₹	810.00 440.00	A moun ₹ ₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹₹	810.00 26.40 18.60 855.00 8.55 863.55 25.91 889.46 8.89 898.35 126.22 1,024.57 153.68 1,178.25

18.47 Providing and fixing single unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete:

18.47.1 100x100x75 mm

18.47.1.1 Sand cast iron S&S as per IS - 1729

Code Description Unit Quantity Rate Amount

Details of cost for one no.

MATERIALS

18044	100x100x75 mm S.C.I, single unequal junction with access door including cost of bolts and nuts	each	1.00	₹	500.00	₹	500.00
18013	Insertion rubber washer 3 mm thick LABOUR	each	1.00	₹	18.00	₹	18.00
0215	Fitter grade-I	Day	0.0600	₹	440.00	₹	26.40
0212	Helper	Day	0.0600	₹	310.00		18.60
	TOTAL	24,		•	0.0.00	` ₹	563.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	5.63
	TOTAL	C	1.00%			₹	568.63
	Add for Sundries and contingencies	@	3%			₹	17.06
	TOTAL	C	070			₹	585.69
	Add for water charges	@	1%			₹	5.86
	TOTAL	C	. 70			₹	591.55
	Add GST (multiplying factor)		0.1405			₹	83.11
	/ laa oo i (manapiying laasia)		0.1100			₹	674.66
	Add for contractor's profit and overheads	@	15%			₹	101.20
	, ad is solinated o promain oromodus	C				₹	775.86
	Add cess	@	1%			₹	7.76
	Cost for one no.	e	1 70			₹	783.62
	Say					₹	783.60
18.47 18.47.1	Providing and fixing single unequal junction of required degree vicomplete: 100x100x75 mm	with access doo	r, insertion rul	bber	washer 3 mm	thick, b	olts and nuts
18.47.1.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amoun	t
0000	Details of cost for one no.	•	•				•
MATERIALS							
18106		aaab	1.00	₹	650.00	=	650.00
10100	100x100x75 mm sand cast iron	each	1.00	•	650.00	•	650.00
	S&S single unequal junction with access						
	door including cost of bolts and nuts						
18013	Insertion rubber washer 3 mm thick	each	1.00	₹	18.00	₹	18.00
	LABOUR						
0215	Fitter grade-I	Day	0.080	₹	440.00	₹	35.20
0212	Helper	Day	0.080	₹	310.00	₹	24.80
	TOTAL	@				₹	728.00
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	7.50%			₹	54.60
	TOTAL					₹	782.60
	Add for Sundries and contingencies	@	3%			₹	23.48
	TOTAL					₹	806.08
	Add for water charges	@	1%			₹	8.06
	TOTAL					₹	814.14
	Add GST (multiplying factor)		0.1405			₹	114.39
						₹	928.53
	Add for contractor's profit and overheads	@	15%			₹	139.28
						₹	1,067.81
	Add cess	@	1%			₹	10.68
	Cost for one no.					₹	1,078.49
	Say					₹	1,078.50
18.48	Providing and fixing single unequal plain junction of required degr	ee :					
18.48.1	100x100x75 mm						
18.48.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amoun	t
	Details of cost for one no.	<u></u>	•				
MATERIALS							
18043	100X100X75 mm junction	each	1.00	₹	490.00	₹	490.00
.0010	LABOUR	Caon		`	₹50.00	`	-50.00
0215		D	0.0875	=	440.00	=	20.50
0213	Fitter grade-I	Day		₹	440.00		38.50
UZ 1Z	Helper	Day	0.0875	₹	310.00		27.13
	TOTAL					₹	555.63

₹

5.56

561.18

1.00%

	TOTAL					₹ -	561.18
	Add for Sundries and contingencies	@	3%			₹	16.84
	TOTAL					₹	578.02
	Add for water charges	@	1%			₹	5.78
	TOTAL					₹	583.80
	Add GST (multiplying factor)		0.1405			₹	82.02
						₹	665.82
	Add for contractor's profit and overheads	@	15%			₹	99.87
						₹	765.69
	Add cess	@	1%			₹	7.66
		<u> </u>	1 70				
	Cost for one no.					₹	773.35
	Say					₹	773.30
18.48	Providing and fixing single unequal plain junction of required degree						
18.48.1	100x100x75 mm						
18.48.1.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
0000	·	0			rtuto	, unount	
MATERIAL	Details of cost for one no.						
MATERIALS							
18105	100x100x75 mm sand cast iron	each	1.00	₹	580.00	₹	580.00
	S&S single unequal plain junction						
	LABOUR						
0215	Fitter grade-I	Day	0.0875	₹	440.00	₹	38.50
0212	Helper	Day	0.0875	₹	310.00		27.13
0212	·	Day	0.0070	`	310.00		
	TOTAL		1.00%			₹	645.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	6.46
	TOTAL					₹	652.08
	Add for Sundries and contingencies	@	3%			₹	19.56
	TOTAL					₹	671.64
	Add for water charges	@	1%			₹	6.72
	TOTAL					₹	678.36
	Add GST (multiplying factor)		0.1405			₹	95.31
						₹	773.67
	Add for contractor's profit and overheads	@	15%			₹	116.05
	·					₹	889.72
	Add cess	@	1%			₹	8.90
	Cost for one no.	C	170			₹	898.62
						₹	898.60
	Say					•	090.00
40.40							
18.49	Providing and fixing double equal plain invert branch of required degree:						
18.49.1	100x100x100x100mm						
18.49.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIALS							
18052	100X100X100x100 mm sand cast iron invert branch	each	1.00	₹	540.00	3	540.00
10032		еасп	1.00	`	540.00	`	340.00
0045	LABOUR						
0215	Fitter grade-I	Day	0.0875	₹	440.00	₹	38.50
0212	Helper	Day	0.0875	₹	310.00	₹	27.13
	TOTAL					₹	605.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	6.06
	TOTAL					₹	611.68
	Add for Sundries and contingencies	@	3%			₹	18.35
	TOTAL	_				₹	630.03
	Add for water charges	@	1%			₹	6.30
	TOTAL	w	1 70			₹	636.33
			0.1405				
	Add GST (multiplying factor)		0.1405			₹	89.40
		_				₹	725.73
	Add for contractor's profit and overheads	@	15%			₹	108.86
						₹	834.59
	Add cess	@	1%			₹	8.35
	Cost for one no.					₹	842.94
					CLI	10 Dozo	70
					2H:	19 - Page -	13

Add for Carriage of all materials & Ladder etc.[L.S.]

TOTAL

Say ₹ 842.90

18.49	Providing and fixing double equal plain invert branch of required degree:						
18.49.1	100x100x100x100mm						
18.49.1.2	Sand cast iron S&S as per IS 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIALS							
18111	100x 100x 100 x 100 mm send	each	1.00	₹	540.00	₹	540.00
	cast iron S&S double equal plain invert branch						
2015	LABOUR						
0215	Fitter grade-I	Day	0.0875	₹	440.00		38.50
0212	Helper	Day	0.0875	₹	310.00		27.13
	TOTAL Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹ ₹	605.63 6.06
	TOTAL	G	1.00%			₹	611.68
	Add for Sundries and contingencies	@	3%			₹	18.35
	TOTAL					₹	630.03
	Add for water charges	@	1%			₹	6.30
	TOTAL					₹	636.33
	Add GST (multiplying factor)		0.1405			₹	89.40
			4=0/			₹	725.73
	Add for contractor's profit and overheads	@	15%			₹	108.86 834.59
	Add cess	@	1%			₹	8.35
	Cost for one no.	w	1 /0			₹	842.94
	Say					₹	842.90
	Cuy					•	0.2.00
18.49	Providing and fixing double equal plain invert branch of required degree:						
18.49.2	75x75x75 mm						
18.49.2.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIALS							
18051	75X75X75x75 mm sand cast iron invert branch	each	1.00	₹	400.00	₹	400.00
	LABOUR						
0215	Fitter grade-I	Day	0.0875	₹	440.00	₹	38.50
0212	Helper	Day	0.0875	₹	310.00	₹	27.13
	TOTAL					₹	465.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	4.66
	TOTAL Add for Sundries and contingencies	@	3%			₹	470.28 14.11
	TOTAL	w	370			₹	484.39
	Add for water charges	@	1%			₹	4.84
	TOTAL					₹	489.23
	Add GST (multiplying factor)		0.1405			₹	68.74
						₹	557.97
	Add for contractor's profit and overheads	@	15%			₹	83.70
		_				₹	641.67
	Add cess	@	1%			₹	6.42
	Cost for one no.					₹ ₹	648.09 648.10
	Say					•	040.10
18.49	Providing and fixing double equal plain invert branch of required degree:						
18.49.2	75x75x75 mm						
18.49.2.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIALS	3						
18112	75x75x75 mm centrifugally cast(spun)	each	1.00	₹	460.00	₹	460.00
	iron S&S double equal plain invert branch						

440.00 ₹

38.50

0.0875 ₹

Day

0215	Fitter (grade-I)	Day	0.0875	₹	440.00	₹	38.50
0212	Helper	Day	0.0875	₹	310.00	₹	27.13
	TOTAL	- 7				₹	525.63
		@	1.00%			₹	5.26
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%				
	TOTAL					₹	530.88
	Add for Sundries and contingencies	@	3%			₹	15.93
	TOTAL					₹	546.81
	Add for water charges	@	1%			₹	5.47
	TOTAL					₹	552.28
	Add GST (multiplying factor)		0.1405			₹	77.60
	That Got (maniplying ractor)		0.1100			₹	629.88
	And for contractor's week and consults and		4.50/				
	Add for contractor's profit and overheads	@	15%			₹	94.48
						₹	724.36
	Add cess	@	1%			₹	7.24
	Cost for one no.					₹	731.60
	Say					₹	731.60
18.50	Describing and fixing simple and plain in our broads of a socied decrees.						
18.50.1	Providing and fixing single equal plain invert branch of required degree: 100x100x100 mm						
18.50.1.1	Sand cast iron S&S as per iron 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.		-				
MATERIALO							
MATERIALS							
18050	100X100X100 mm sand cast iron invert branch	each	1.00	₹	400.00	₹	400.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.0875	₹	440.00	₹	38.50
0212	Helper	Day	0.0875	₹	310.00		27.13
0212	·	Day	0.00.0	`	310.00		
	TOTAL	_	4.000/			₹	465.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	4.66
	TOTAL					₹	470.28
	Add for Sundries and contingencies	@	3%			₹	14.11
	TOTAL					₹	484.39
	Add for water charges	@	1%			₹	4.84
	TOTAL					₹	489.23
	Add GST (multiplying factor)		0.1405			₹	68.74
	Add 931 (multiplying factor)		0.1405				
		_				₹	557.97
	Add for contractor's profit and overheads	@	15%			₹	83.70
						₹	641.67
	Add cess	@	1%			₹	6.42
	Cost for one no.					₹	648.09
	Say					₹	648.10
	Say					`	040.10
18.50 18.50.1	Providing and fixing single equal plain invert branch of required degree: 100x100x100 mm						
18.50.1.2	Sand cast iron S&S as per IS - 3989						
Code	•	1124	Quantity		D-1-	A	
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIALS							
18109	100x100x100 mm sand cast	each	1.00	₹	430.00	₹	430.00
	iron S&S single equal plain invert branch						
0045	LABOUR		0.00==			_	
0215	Fitter (grade-I)	Day	0.0875	₹	440.00	₹	38.50
0212	Helper	Day	0.0875	₹	310.00	₹	27.13
	TOTAL					₹	495.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	4.96
	TOTAL	_				₹	500.58
	Add for Sundries and contingencies	@	20/			₹	15.02
	-	@	3%				
	TOTAL	_				₹	515.60
	Add for water charges	@	1%			₹	5.16

LABOUR

Fitter (grade-I)

0215

TOTAL			₹	520.76
Add GST (multiplying factor)		0.1405	₹	73.17
			₹	593.93
Add for contractor's profit and overheads	@	15%	₹	89.09
			₹	683.02
Add cess	@	1%	₹	6.83
Cost for one no.			₹	689.85
Say			₹	689.80

18.50	Providing and fixing single equal plain invert branch of required degree:						
18.50.2	75x75x75 mm						
18.50.2.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIALS	S						
18049	75X75X75 mm sand cast-iron invert branch	each	1.00	₹	310.00	₹	310.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.0875	₹	440.00	₹	38.50
0212	Helper	Day	0.0875	₹	310.00	₹	27.13
	TOTAL	,				₹	375.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	3.76
	TOTAL					₹	379.38
	Add for Sundries and contingencies	@	3%			₹	11.38
	TOTAL					₹	390.76
	Add for water charges	@	1%			₹	3.91
	TOTAL					₹	394.67
	Add GST (multiplying factor)		0.1405			₹	55.45
						₹	450.12
	Add for contractor's profit and overheads	@	15%			₹	67.52
						₹	517.64
	Add cess	@	1%			₹	5.18
	Cost for one no.					₹	522.82
	Say					₹	522.80
40.50							
18.50	Providing and fixing single equal plain invert branch of required degree:						
18.50.2	75x75x75 mm						
18.50.2.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIALS							
18110	75x75x75 mm sand cast iron S	each	1.00	₹	330.00	₹	330.00
	& S single equal plain invert branch						
	LABOUR						
0215	Fitter (grade-I)	Day	0.0875	₹	440.00	₹	38.50
0212	Helper	Day	0.0875	₹	310.00	₹	27.13
	TOTAL	-				₹	395.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1.00%			₹	3.96
	TOTAL					₹	399.58
	Add for Sundries and contingencies	@	3%			₹	11.99
	TOTAL					₹	411.57
	Add for water charges	@	1%			₹	4.12

TOTAL

Add cess

Cost for one no.

Add GST (multiplying factor)

Add for contractor's profit and overheads

₹

₹

₹

₹

₹

₹

₹

0.1405

15%

1%

415.69

58.40

474.09

71.11

545.20

5.45

550.65

Say ₹ 550.60

18.51	Providing and fixing double unequal invert branch of required degree						
18.51.1	100x100x75x75 mm						
18.51.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
MATERIALS	3						
18054	100X100X75x75 mm sand cast iron invert branch	each	1.00	₹	580.00	₹	580.00
	LABOUR						
0215	Fitter (grade-I)	Day	0.0875	₹	440.00	₹	38.50
0212	Helper	Day	0.0875	₹	310.00	₹	27.13
	TOTAL	•				₹	645.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1%			₹	6.46
	TOTAL					₹	652.09
	Add for Sundries and contingencies	@	3%			₹	19.56
	TOTAL					₹	671.65
	Add for water charges	@	1%			₹	6.72
	TOTAL					₹	678.37
	Add GST (multiplying factor)		0.1405			₹	95.31
						₹	773.68
	Add for contractor's profit and overheads	@	15%			₹	116.05
						₹	889.73
	Add cess	@	1%			₹	8.90
	Cost for one no.					₹	898.63
	Say					₹	898.60

17.51 Prov	viding and fixing double unequal invert branch of required degree						
17.51.1	100x100x75x75 mm						
17.51.1.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amour	nt
	Details of cost for one no.						
	MATERIALS						
18114	100x100x75x75 mm sand cast	each	1.00	₹	750.00	₹	750.00
	iron S&S double unequal plain invert branch						
	LABOUR						
0215	Fitter (grade-I)	Day	0.0875	₹	440.00	₹	38.50
0212	Helper	Day	0.0875	₹	310.00	₹	27.13
	TOTAL					₹	815.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1%			₹	8.16
	TOTAL					₹	823.79
	Add for Sundries and contingencies	@	3%			₹	24.71
	TOTAL					₹	848.50
	Add for water charges	@	1%			₹	8.48
	TOTAL					₹	856.98
	Add GST (multiplying factor)		0.1405			₹	120.41
						₹	977.39
	Add for contractor's profit and overheads	@	15%			₹	146.61
						₹	1,124.00
	Add cess	@	1%			₹	11.24
	Cost for one no.					₹	1,135.24
	Say					₹	1,135.20

18.52	Providing and fixing single unequal plain invert branch of required de	egree :			
18.52.1	100x100x75 mm				
18.52.1.1	Sand cast iron S&S as per IS - 1729				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one no.				

	MATERIALO						
18053	MATERIALS 100V100V75 mm cond cost iron invert branch, cosh		1.00	₹	500.00	∓	500.00
10055	100X100X75 mm sand cast iron invert branch each LABOUR		1.00	<	500.00	<	500.00
0215	Fitter (grade-I)	Day	0.0875	₹	440.00	3	38.50
0213	Helper	Day	0.0875	₹	310.00		27.13
0212	TOTAL	Day	0.0070	`	310.00	₹	565.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1%			₹	5.66
	TOTAL					₹	571.29
	Add for Sundries and contingencies	@	3%			₹	17.14
	TOTAL					₹	588.42
	Add for water charges	@	1%			₹	5.88
	TOTAL					₹	594.30
	Add GST (multiplying factor)		0.1405			₹	83.50
	Add for contractor's profit and system and		1 = 0/			₹	677.80
	Add for contractor's profit and overheads	@	15%			₹	101.67 779.47
	Add cess	@	1%			₹	7.79
	Cost for one no.	•	1 70			₹	787.26
	Say					₹	787.30
	ou,					•	
18.52	Providing and fixing single unequal plain invert branch of re	quired degree :					
18.52.1	100x100x75 mm						
18.52.1.1	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18113	100x100x75 mm sand cast iron	each	1.00	₹	560.00	₹	560.00
	S&S single unequal plain invert branch						
	LABOUR						
0215	Fitter (grade-I)	Day	0.0875	₹	440.00		38.50
0212	Helper	Day	0.0875	₹	310.00	₹	27.13
	TOTAL	_				₹	625.63
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1%			₹	6.26
	TOTAL Add for Sundries and contingencies	@	3%			₹	631.89 18.96
	TOTAL	w.	370			₹	650.84
	Add for water charges	@	1%			₹	6.51
	TOTAL	_				₹	657.35
	Add GST (multiplying factor)		0.1405			₹	92.36
						₹	749.71
	Add for contractor's profit and overheads	@	15%			₹	112.46
						₹	862.17
	Add cess	@	1%			₹	8.62
	Cost for one no.					₹	870.79
	Say					₹	870.80
18.53	Providing and fixing sand cast iron S&S offsets as per IS: 17	29					
18.53.1	76 mm offsets						
18.53.1.1	With 75 mm dia. pipe						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18128	76 mm sand cast iron S&S offset with 75 mm each		1.00	₹	220.00	₹	220.00
	dia pipe						
	LABOUR						
0215	Fitter (grade-I)	Day	0.050	₹	440.00		22.00
0212	Holper	Day	0.050	₹	310.00	₹	15.50

0212

Helper

TOTAL

Add for Carriage of all materials & Ladder etc.[L.S.]

₹

₹

15.50

257.50

2.58

310.00 ₹

0.050

1%

Day

@

₹

TOTAL			₹	260.08
Add for Sundries and contingencies	@	3%	₹	7.80
TOTAL			₹	267.88
Add for water charges	@	1%	₹	2.68
TOTAL			₹	270.56
Add GST (multiplying factor)		0.1405	₹	38.01
			₹	308.57
Add for contractor's profit and overheads	@	15%	₹	46.29
			₹	354.86
Add cess	@	1%	₹	3.55
Cost for one no.			₹	358.41
Say			₹	358.40

18.53	Providing and fixing sand cast iron S&S offsets as per IS: 1729						
18.53.1	76 mm offsets						
18.53.1.2	With 100 mm dia. pipe						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18129	76 mm sand cast iron S&S offset with 100 mm each		1.00	₹	380.00	₹	380.00
	dia pipe						
	LABOUR						
0215	Fitter (grade-I)	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
	TOTAL					₹	417.50
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1%			₹	4.18
	TOTAL					₹	421.68
	Add for Sundries and contingencies	@	3%			₹	12.65
	TOTAL					₹	434.33
	Add for water charges	@	1%			₹	4.34
	TOTAL					₹	438.67
	Add GST (multiplying factor)		0.1405			₹	61.63
		_				₹	500.30
	Add for contractor's profit and overheads	@	15%			₹	75.05
	A.1.1		40/			₹	575.35
	Add cess	@	1%			₹	5.75
	Cost for one no.					₹	581.10
	Say					<	581.10

18.53:	Providing and fixing sand cast iron S&S offsets as per IS: 1729						
18.53.2:	114 mm offsets						
18.53.2.1:	With 75 mm dia. pipe						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18118	114 mm sand cast iron S&S offset with 75 mm each		1.00	₹	310.00	₹	310.00
	dia pipe						
	LABOUR						
0215	Fitter (grade-I)	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
	TOTAL					₹	347.50
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1%			₹	3.48
	TOTAL					₹	350.98
	Add for Sundries and contingencies	@	3%			₹	10.53
	TOTAL					₹	361.51
	Add for water charges	@	1%			₹	3.62
	TOTAL					₹	365.13
	Add GST (multiplying factor)		0.1405			₹	51.30
						₹	416.43

	Add for contractor's profit and overheads	@	15%			₹	62.46
						₹	478.89
	Add cess	@	1%			₹	4.79
	Cost for one no.					₹	483.68
	Say					₹	483.70
18.53:	Providing and fiving cond cost iron CSC offects so per IC: 1720						
18.53.2:	Providing and fixing sand cast iron S&S offsets as per IS: 1729 114 mm offsets						
18.53.2.2	With 100 mm dia. Pipe						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.		•				
	MATERIALS						
18119	114 mm sand cast iron S&S offset with 100	each	1.00	₹	390.00	₹	390.00
	mm dia pipe						
	LABOUR						
0215	Fitter (grade-I)	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
	TOTAL					₹	427.50
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1%			₹	4.28
	TOTAL		20/			₹	431.78
	Add for Sundries and contingencies TOTAL	@	3%			₹	12.95 444.73
	Add for water charges	@	1%			₹	4.45
	TOTAL	C	. 70			₹	449.18
	Add GST (multiplying factor)		0.1405			₹	63.11
						₹	512.29
	Add for contractor's profit and overheads	@	15%			₹	76.84
		_				₹	589.13
	Add cess	@	1%			₹	5.89
	Cost for one no.					₹	595.02 595.00
	Say					`	000.00
18.53:	Providing and fixing sand cast iron S&S offsets as per IS: 1729						
18.53: 18.53.3	Providing and fixing sand cast iron S&S offsets as per IS: 1729 152 mm offsets						
18.53.3	152 mm offsets	Unit	Quantity		Rate	Amount	
18.53.3 18.53.3.1	152 mm offsets With 75 mm dia. Pipe	Unit	Quantity		Rate	Amount	
18.53.3 18.53.3.1 Code	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS	Unit			Rate	Amount	
18.53.3 18.53.3.1	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each	Unit	Quantity	₹	Rate 370.00		370.00
18.53.3 18.53.3.1 Code	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe	Unit		₹			370.00
18.53.3 18.53.3.1 Code	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR		1.00		370.00	₹	
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I)	Day	1.00	₹	370.00 440.00	₹	22.00
18.53.3 18.53.3.1 Code	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper		1.00		370.00	₹₹	22.00 15.50
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL	Day Day	1.00 0.050 0.050	₹	370.00 440.00	₹ ₹ ₹ ₹	22.00 15.50 407.50
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper	Day	1.00	₹	370.00 440.00	₹₹	22.00 15.50
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.]	Day Day	1.00 0.050 0.050	₹	370.00 440.00	₹₹₹₹₹	22.00 15.50 407.50 4.08
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL	Day Day @ @	1.00 0.050 0.050 1% 3%	₹	370.00 440.00	₹₹₹₹₹	22.00 15.50 407.50 4.08 411.58 12.35 423.93
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	Day Day @	1.00 0.050 0.050 1%	₹	370.00 440.00	₹₹₹₹₹₹	22.00 15.50 407.50 4.08 411.58 12.35 423.93 4.24
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	Day Day @ @	1.00 0.050 0.050 1% 3% 1%	₹	370.00 440.00	₹₹₹₹₹₹₹	22.00 15.50 407.50 4.08 411.58 12.35 423.93 4.24 428.17
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	Day Day @ @	1.00 0.050 0.050 1% 3%	₹	370.00 440.00	₹ ₹ ₹₹₹₹₹ ₹₹₹	22.00 15.50 407.50 4.08 411.58 12.35 423.93 4.24 428.17 60.16
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	Day Day @ @	1.00 0.050 0.050 1% 3% 1%	₹	370.00 440.00	₹ ₹ ₹₹₹₹₹ ₹₹₹₹	22.00 15.50 407.50 4.08 411.58 12.35 423.93 4.24 428.17
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	Day Day @ @ @	1.00 0.050 0.050 1% 3% 1% 0.1405	₹	370.00 440.00	₹ ₹ ₹₹₹₹₹ ₹₹₹	22.00 15.50 407.50 4.08 411.58 12.35 423.93 4.24 428.17 60.16 488.33
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	Day Day @ @ @	1.00 0.050 0.050 1% 3% 1% 0.1405	₹	370.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 407.50 4.08 411.58 12.35 423.93 4.24 428.17 60.16 488.33 73.25
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	Day Day @ @ @	1.00 0.050 0.050 1% 3% 1% 0.1405 15%	₹	370.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 407.50 4.08 411.58 12.35 423.93 4.24 428.17 60.16 488.33 73.25 561.58 5.62 567.20
18.53.3 18.53.3.1 Code 18120	152 mm offsets With 75 mm dia. Pipe Description Details of cost for one no. MATERIALS 152 mm sand cast iron S&S offset with 75 mm each dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	Day Day @ @ @	1.00 0.050 0.050 1% 3% 1% 0.1405 15%	₹	370.00 440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 407.50 4.08 411.58 12.35 423.93 4.24 428.17 60.16 488.33 73.25 561.58 5.62

18.53: 18.53.3	Providing and fixing sand cast iron S&S offsets as per IS: 1729 152 mm offsets						
18.53.3.2	With 100 mm dia. pipe		•			_	
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
10101	MATERIALS						
18121	152 mm sand cast iron S&S offset with 100	each	1.00	₹	470.00	₹	470.00
	mm dia pipe						
	LABOUR						
0215	Fitter (grade-I)	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
	TOTAL					₹	507.50
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1%			₹	5.08
	TOTAL		20/			₹	512.58
	Add for Sundries and contingencies	@	3%			₹	15.38
	TOTAL	@	10/			₹	527.96 5.28
	Add for water charges TOTAL	@	1%			₹	533.24
	Add GST (multiplying factor)		0.1405			₹	74.92
	Add GOT (Maniplying radiol)		0.1400			₹	608.16
	Add for contractor's profit and overheads	@	15%			₹	91.22
	•					₹	699.38
	Add cess	@	1%			₹	6.99
	Cost for one no.					₹	706.37
	Say					₹	706.40
18.54 :	Providing and fixing sand cast iron S&S offsets as per IS: 3989.						
18.54.1:	75 mm offsets						
18.54.1.1:	With 75 mm dia. pipe						
Code	Description	Unit	Quantity		Rate	Amount	
	Datalla of anot for one or						
	Details of cost for one no.						
	MATERIALS						
18115		each	1.00	₹	230.00	₹	230.00
18115	MATERIALS	each	1.00	₹	230.00	₹	230.00
	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR	each		₹	230.00	₹	230.00
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe	each Day	1.00 0.050	₹	230.00	₹	230.00
	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper					₹	
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL	Day Day	0.050 0.050	₹	440.00	₹ ₹	22.00 15.50 267.50
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.]	Day	0.050	₹	440.00	₹ ₹ ₹	22.00 15.50 267.50 2.68
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL	Day Day @	0.050 0.050 1%	₹	440.00	₹₹₹₹	22.00 15.50 267.50 2.68 270.18
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies	Day Day	0.050 0.050	₹	440.00	₹₹₹₹₹	22.00 15.50 267.50 2.68 270.18 8.11
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL	Day Day @ @	0.050 0.050 1% 3%	₹	440.00	₹₹₹₹₹₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	Day Day @	0.050 0.050 1%	₹	440.00	₹₹₹₹₹₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	Day Day @ @	0.050 0.050 1% 3% 1%	₹	440.00	₹₹₹₹₹₹₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	Day Day @ @	0.050 0.050 1% 3%	₹	440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	Day Day @ @	0.050 0.050 1% 3% 1%	₹	440.00	₹₹₹₹₹₹₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	Day Day @ @ @	0.050 0.050 1% 3% 1% 0.1405	₹	440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	Day Day @ @ @	0.050 0.050 1% 3% 1% 0.1405	₹	440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	Day Day @ @ @	0.050 0.050 1% 3% 1% 0.1405	₹	440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08 368.64
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	Day Day @ @ @	0.050 0.050 1% 3% 1% 0.1405	₹	440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08 368.64 3.69
0215	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no.	Day Day @ @ @	0.050 0.050 1% 3% 1% 0.1405	₹	440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08 368.64 3.69 372.33
0215 0212 18.54	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing sand cast iron S&S offsets as per IS: 3989.	Day Day @ @ @	0.050 0.050 1% 3% 1% 0.1405	₹	440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08 368.64 3.69 372.33
0215 0212 18.54 18.54.2	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing sand cast iron S&S offsets as per IS: 3989. 150 mm offsets	Day Day @ @ @	0.050 0.050 1% 3% 1% 0.1405	₹	440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08 368.64 3.69 372.33
0215 0212 18.54 18.54.2 18.54.2.1	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing sand cast iron S&S offsets as per IS: 3989. 150 mm offsets With 75 mm dia. pipe	Day Day @ @ @ @ @	0.050 0.050 1% 3% 1% 0.1405 15% 1%	₹	440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08 368.64 3.69 372.33
0215 0212 18.54 18.54.2	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing sand cast iron S&S offsets as per IS: 3989. 150 mm offsets	Day Day @ @ @	0.050 0.050 1% 3% 1% 0.1405	₹	440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08 368.64 3.69 372.33
0215 0212 18.54 18.54.2 18.54.2.1	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing sand cast iron S&S offsets as per IS: 3989. 150 mm offsets With 75 mm dia. pipe Description Details of cost for one no.	Day Day @ @ @ @ @	0.050 0.050 1% 3% 1% 0.1405 15% 1%	₹	440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08 368.64 3.69 372.33
0215 0212 18.54 18.54.2 18.54.2.1 Code	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing sand cast iron S&S offsets as per IS: 3989. 150 mm offsets With 75 mm dia. pipe Description Details of cost for one no. MATERIALS	Day Day @ @ @ @ @	0.050 0.050 1% 3% 1% 0.1405 15% 1%	₹₹	440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08 368.64 3.69 372.33 372.30
0215 0212 18.54 18.54.2 18.54.2.1	MATERIALS 75 mm sand cast iron S&S offset with 75 mm dia pipe LABOUR Fitter (grade-I) Helper TOTAL Add for Carriage of all materials & Ladder etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one no. Say Providing and fixing sand cast iron S&S offsets as per IS: 3989. 150 mm offsets With 75 mm dia. pipe Description Details of cost for one no.	Day Day @ @ @ @ @	0.050 0.050 1% 3% 1% 0.1405 15% 1%	₹	440.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	22.00 15.50 267.50 2.68 270.18 8.11 278.29 2.78 281.07 39.49 320.56 48.08 368.64 3.69 372.33

	LABOUR						
0215	Fitter (grade-I)	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
	TOTAL					₹	327.50
	Add for Carriage of all materials & Ladder etc.[L.S.]	@	1%			₹	3.28
	TOTAL					₹	330.78
	Add for Sundries and contingencies	@	3%			₹	9.92
	TOTAL					₹	340.70
	Add for water charges	@	1%			₹	3.41
	TOTAL					₹	344.11
	Add GST (multiplying factor)		0.1405			₹	48.35
						₹	392.46
	Add for contractor's profit and overheads	@	15%			₹	58.87
						₹	451.33
	Add cess	@	1%			₹	4.51
	Cost for one no.					₹	455.84
	Say					₹	455.80

17.54 17.54.2	Providing and fixing sand cast iron S&S offsets as per IS: 3989. 150 mm offsets						
17.54.2.2	With 100 mm dia. pipe						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18,117	150 mm sand cast iron S&S	each	1.00	₹	400.00	₹	400.00
	offset with 100 mm dia pipe						
	LABOUR						
0215	Fitter (grade-I)	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
	TOTAL					₹	437.50
	Add for Carriage of all materials & Ladder etc. [L.S.]	@	1%			₹	4.38
	TOTAL					₹	441.88
	Add for Sundries and contingencies	@	3%			₹	13.26
	TOTAL					₹	455.14
	Add for water charges	@	1%			₹	4.55
	TOTAL					₹	459.69
	Add GST (multiplying factor)		0.1405			₹	64.59
						₹	524.28
	Add for contractor's profit and overheads	@	15%			₹	78.64
						₹	602.92
	Add cess	@	1%			₹	6.03
	Cost for one no.					₹	608.95
	Say					₹	608.90

18.55.1	100mm						
1.55.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18056	100 mm sand cast iron door piece including cost of bolts and nuts	each	1.00	₹	380.00	₹	380.00
18013	Insertion rubber washer	each	1.00	₹	18.00	₹	18.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.060	₹	440.00	₹	26.40
0212	Helper	Day	0.060	₹	310.00	₹	18.60
	TOTAL					₹	443.00
	Add for Carriage of all materials & Ladder ,binding materials etc. [L.S.]	@	1%			₹	4.43
	TOTAL					₹	447.43

Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete

18.55

Add for Sundries and contingencies	@	3%	₹	13.42
TOTAL			₹	460.85
Add for water charges	@	1%	₹	4.61
TOTAL			₹	465.46
Add GST (multiplying factor)		0.1405	₹	65.40
			₹	530.86
Add for contractor's profit and overheads	@	15%	₹	79.63
			₹	610.49
Add cess	@	1%	₹	6.10
Cost for one no.			₹	616.59
Say			₹	616.60

Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete

18.55

18.55.1

100 mm

1.55.1.2 Sand cast iron S&S as per IS - 3989

Add for water charges

TOTAL

1.55.1.2	Sand cast iron sas as per is - 3303						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18122	100 mm sand cast iron S&S	each	1.00	₹	355.00	₹	355.00
	door piece including cost of bolts and nuts						
18013	Insertion rubber washer	each	1.00	₹	18.00	₹	12.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.060	₹	440.00	₹	26.40
0212	Helper	Day	0.060	₹	310.00	₹	18.60
	TOTAL					₹	412.00
	Add for Carriage of all materials & Ladder ,binding materials etc. [L.S.]	@	1%			₹	4.12
	TOTAL					₹	416.12
	Add for Sundries and contingencies	@	3%			₹	12.48
	TOTAL					₹	428.60
	Add for water charges	@	1%			₹	4.29
	TOTAL					₹	432.89
	Add GST (multiplying factor)		0.1405			₹	60.82
						₹	493.71
	Add for contractor's profit and overheads	@	15%			₹	74.06
						₹	567.77
	Add cess	@	1%			₹	5.68
	Cost for one no.					₹	573.45
	Say					₹	573.50
18.55		•					
18.55.2	Providing and fixing door piece, insertion rubber washer 3mm thick, bolt- 75 mm	s & nuts c	ompiete				
18.55.2.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
Code	Details of cost for one no.	Onit	Quality		Nate	Amount	
18055	MATERIALS 75 mm cond cost iron door piece including	oooh	1.00	₹	280.00	3	280.00
10033	75 mm sand cast iron door piece including	each	1.00	`	200.00	•	260.00
18012	cost of bolts and nuts	aaab	1.00	₹	14.00	=	14.00
10012	Insertion rubber washer LABOUR	each	1.00	•	14.00	•	14.00
0215		Day	0.060	₹	440.00	3	26.40
0213	Fitter (grade-1)	Day	0.060	₹	310.00		18.60
0212	Helper TOTAL	Бау	0.000	`	310.00	₹	
						•	339.00
	Add for Carriage of all materials & Ladder ,binding materials etc. [L.S.]	@	1%			₹	3.39
	TOTAL					₹	342.39
	Add for Sundries and contingencies	@	3%			₹	10.27
	TOTAL		40/			₹	352.66

@

1%

3.53

356.19

₹

₹

₹

₹

₹

50.04

406.23

60.93

0.1405

15%

@

	Add for contractor's profit and overneads	@	15%			₹	60.93
						₹	467.16
	Add cess	@	1%			₹	4.67
	Cost for one no.					₹	471.83
	Say					₹	471.80
18.55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolt	s & nuts c	omplete				
18.55.2	75 mm						
18.55.2.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18123	75 mm sand cast iron S&S	each	1.00	₹	275.00	₹	275.00
	door piece including cost of bolts and nuts						
18012	Insertion rubber washer	each	1.00	₹	14.00	₹	14.00
	LABOUR	odon		•	11.00	`	11.00
0215	Fitter (grade-1)	Day	0.060	₹	440.00	₹	26.40
0212	Helper	Day	0.060	₹	310.00		18.60
0212	TOTAL	Day	0.000	`	310.00	₹	334.00
	Add for Carriage of all materials & Ladder ,binding materials etc.					•	334.00
	[L.S.]	@	1%			₹	3.34
	TOTAL					₹	337.34
	Add for Sundries and contingencies	@	3%			₹	10.12
	TOTAL	w	370			₹	347.46
	Add for water charges	@	1%			₹	347.46
	TOTAL	•	170			₹	350.93
	Add GST (multiplying factor)		0.1405			₹	49.31
	, and GOT (maniprying racion)		0.1100			₹	400.24
	Add for contractor's profit and overheads	@	15%			₹	60.04
						₹	460.28
	Add cess	@	1%			₹	4.60
	Cost for one no.					₹	464.88
	Say					₹	464.90
18.56	Providing and fixing terminal guard:						
18.56.1	100 mm						
18.56.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
0000	Details of cost for one no.	• • • • • • • • • • • • • • • • • • • •	•				
	MATERIALS						
18042	100 mm sand cast iron terminal guard	each	1.00	₹	180.00	3	180.00
10042	G	eacii	1.00	`	100.00	`	160.00
0215	LABOUR	D	0.080	-	440.00	=	05.00
0213	Fitter (grade-1)	Day		₹	440.00		35.20
0212	Helper	Day	0.080	₹	310.00		24.80
	TOTAL	@	10/			₹ ₹	240.00 2.40
	Add for Carriage of all materials etc. [L.S.]	@	1%			₹	
	TOTAL Add for Sundries and contingencies	@	3%				242.40
	TOTAL	w	J /0			₹	7.27 249.67
	Add for water charges	@	1%			₹	249.67
	TOTAL	w	1 /0			₹	2.50 252.17
	Add GST (multiplying factor)		0.1405			₹	35.43
	23. (manpying ractor)		5.1705			₹	287.60
	Add for contractor's profit and overheads	@	15%			₹	43.14
	• • • • • • • • • • • • • • • • • • • •	_	. = /•			`	330.74
	Add cess	@	1%			₹	3.31
	Cost for one no					· 3	224.05

Cost for one no.

Say

Add GST (multiplying factor)

Add for contractor's profit and overheads

₹

₹

334.05

334.10

18.56.1	100 mm						
18.56.1.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
40404	MATERIALS						
18124	100 sand cast iron S&S terminal guard	each	1.00	₹	235.00	₹	235.00
0215	LABOUR	Dov	0.080	₹	440.00	=	25.20
0213	Fitter (grade-1) Helper	Day Day	0.080	₹	440.00 310.00		35.20 24.80
02.12	TOTAL	Day		`	010.00	` ₹	295.00
	Add for Carriage of all materials etc. [L.S.]	@	1%			₹	2.95
	TOTAL	_	-4.			₹	297.95
	Add for Sundries and contingencies TOTAL	@	3%			₹	8.94
	Add for water charges	@	1%			₹	306.89 3.07
	TOTAL	C				₹	309.96
	Add GST (multiplying factor)		0.1405			₹	43.55
						₹	353.51
	Add for contractor's profit and overheads	@	15%			₹	53.03
	Add cess	@	1%			₹	406.54 4.07
	Cost for one no.	C	170			₹	410.61
	Say					₹	410.60
18.56	Providing and fixing terminal guard:						
18.56.2	75 mm						
18.56.2.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
40044	MATERIALS						
18041	75 mm sand cast iron terminal guard LABOUR	each	1.00	₹	125.00	₹	125.00
0215	Fitter (grade-1)	Day	0.080	₹	440.00	₹	35.20
0212	Helper	Day	0.080	₹	310.00	₹	24.80
	TOTAL					₹	185.00
	Add for Carriage of all materials etc. [L.S.]	@	1%			₹	1.85
	TOTAL Add for Sundries and contingencies	@	3%			₹	186.85 5.61
	TOTAL	C	0.0			₹	192.46
	Add for water charges	@	1%			₹	1.92
	TOTAL					₹	194.38
	Add GST (multiplying factor)		0.1405			₹	27.31
	Add for contractor's profit and overheads	@	15%			₹	221.69 33.25
	·					₹	254.94
	Add cess	@	1%			₹	2.55
	Cost for one no.					₹	257.49
	Say					₹	257.50
18.56	Providing and fixing terminal guard:						
18.56.2	75 mm						
18.56.2.2 Code	Sand cast iron S&S as per IS - 3989	Unit	Quantity		Data	Amount	
Code	Description Details of cost for one no.	Unit	- Guaritity		Rate	Amount	
	MATERIALS						
18125	75 mm sand cast iron S&S terminal guard	each	1.00	₹	220.00	₹	220.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.080	₹	440.00		35.20
0212	Helper	Day	0.080	₹	310.00		24.80
	TOTAL Add for Carriage of all materials etc. [L.S.]	@	1%			₹ ₹	280.00 2.80
	ournage or an materials etc. [L.o.]	w.	1 /0			`	2.00

@

@

3%

1%

₹

₹

₹

₹

282.80

291.28

8.48

2.91

	TOTAL	<u>@</u>	1 70			~	2.91
	TOTAL					₹	294.19
	Add GST (multiplying factor)		0.1405			₹	41.33
						₹	335.52
	Add for contractor's profit and overheads	@	15%			₹	50.33
						₹	385.85
	Add cess	@	1%			₹	3.86
	Cost for one no.					₹	389.71
						₹	389.70
	Say					•	309.70
18.57	Providing and fixing collar:						
18.57.1	100 mm						
18.57.1.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
0000	•	•	•			,	
	Details of cost for one no.						
	MATERIALS						
18058	100 mm sand cast iron collar	each	1.00	₹	180.00	₹	180.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00		15.50
0212		Day	0.000	`	310.00		
	TOTAL		4.0/			₹	217.50
	Add for Carriage of all materials & Ladder etc. [L.S.]	@	1%			₹	2.18
	TOTAL					₹	219.68
	Add for Sundries and contingencies	@	3%			₹	6.59
	TOTAL					₹	226.27
	Add for water charges	@	1%			₹	2.26
	TOTAL					₹	228.53
	Add GST (multiplying factor)		0.1405			₹	32.11
	Add Cor (manplying factor)		0.1403				
	Add for a standard month and according to		4.50/			₹	260.64
	Add for contractor's profit and overheads	@	15%			₹	39.10
						₹	299.74
	Add cess	@	1%			₹	3.00
	Cost for one no.					₹	302.74
	Say					₹	302.70
18.57	Providing and fixing collar:						
18.57.1	100 mm						
18.57.1.2	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS.						
18126	100 sand cast iron S&S collar	each	1.00	₹	225.00	₹	225.00
13120	LABOUR	EdUI		`	223.00	`	220.00
0245		-	0.050	~		~	
0215	Fitter (grade-1)	Day	0.050	₹	440.00		22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
	TOTAL					₹	262.50
	Add for Carriage of all materials & Ladder etc. [L.S.]	@	1%			₹	2.63
	TOTAL					₹	265.13
	Add for Sundries and contingencies	@	3%			₹	7.95
	TOTAL	e	370				
			4.0/			₹	273.08
	Add for water charges	@	1%			₹	2.73
	TOTAL					₹	275.81
	Add GST (multiplying factor)		0.1405			₹	38.75
						₹	314.56
	Add for contractor's profit and overheads	@	15%			₹	47.18
						₹	361.74
	Add cess	@	1%			₹	3.62
	Cost for one no.	<u>e</u>	1 /0			₹	365.36
						₹	
	Say					₹	365.40
					SH:	19 - Page -8	36

TOTAL

TOTAL

Add for Sundries and contingencies

Add for water charges

18.57	Providing and fixing collar:						
18.57.2	75 mm						
18.57.2.1	Sand cast iron S&S as per IS - 1729						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
40057	MATERIALS						
18057	75 mm sand cast iron collar	each	1.00	₹	140.00	₹	140.00
0215	LABOUR Fitter (grade-1)	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00		15.50
	TOTAL	,				₹	177.50
	Add for Carriage of all materials & Ladder etc. [L.S.]	@	1%			₹	1.78
	TOTAL		00/			₹	179.28
	Add for Sundries and contingencies TOTAL	@	3%			₹	5.38
	Add for water charges	@	1%			₹	184.66 1.85
	TOTAL	C				₹	186.51
	Add GST (multiplying factor)		0.1405			₹	26.20
		_				₹	212.71
	Add for contractor's profit and overheads	@	15%			₹	31.91
	Add cess	@	1%			₹	244.62 2.45
	Cost for one no.	e	1 70			₹	247.07
	Say					₹	247.10
18.57	Providing and fixing collar:						
18.57.2	75 mm						
18.57.2.2	Sand cast iron S&S as per IS- 3989		0				
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no. MATERIALS						
18127	75 mm sand cast iron S&S collar	each	1.00	₹	180.00	₹	180.00
10121	LABOUR	eacii		`	100.00	`	100.00
0215	Fitter (grade-1)	Day	0.050	₹	440.00	₹	22.00
0212	Helper	Day	0.050	₹	310.00	₹	15.50
	TOTAL					₹	217.50
	Add for Carriage of all materials & Ladder etc. [L.S.]	@	1%			₹	2.18
	TOTAL	_				₹	219.68
	Add for Sundries and contingencies TOTAL	@	3%			₹	6.59
	Add for water charges	@	1%			₹	226.27 2.26
	TOTAL	C	. 70			₹	228.53
	Add GST (multiplying factor)		0.1405			₹	32.11
						₹	260.64
	Add for contractor's profit and overheads	@	15%			₹	39.10
	Add cess	@	1%			₹	299.74 3.00
	Cost for one no.		1 70			₹	302.74
	Say					₹	302.70
	·						
18.58	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes a	nd fittings of	diam	eter:		
40.50 4							
18.58.1	100mm		Ougntitu		5 .		
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one joint MATERIALS						
18017	Pig lead	kilogram	0.98	₹	176.00	₹	172.48
18064	Spun yarn	kilogram	0.11	₹	45.00		4.95
	LABOUR	9		-	. 5.00		
0215	Fitter (grade-1)	Day	0.06	₹	440.00	₹	26.40
0214	Assistant Fitter or 2nd class Fitter	Day	0.06	₹	355.00	₹	21.30
0203	Beldar	Day	0.12	₹	310.00	₹	37.20

TOTAL			₹	262.33
Add for Carriage of all materials & cost of kerosene oil, fuel, ladder etc. [L.S.]	@	1%	₹	2.62
TOTAL			₹	264.95
Add for Sundries and contingencies	@	3%	₹	7.95
TOTAL			₹	272.90
Add for water charges	@	1%	₹	2.73
TOTAL			₹	275.63
Add GST (multiplying factor)		0.1405	₹	38.73
			₹	314.36
Add for contractor's profit and overheads	@	15%	₹	47.15
			₹	361.51
Add cess	@	1%	₹	3.62
Cost for one no. joint			₹	365.13
Say			₹	365.10

18.58 Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:

18.58.2	75 mm
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Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one joint						
	MATERIALS						
18017	Pig lead	kilogram	0.88	₹	176.00	₹	154.88
1881	Spun yarn	kilogram	0.09	₹	45.00	₹	4.05
	LABOUR						
0215	Fitter (grade-1)	Day	0.05	₹	440.00	₹	22.00
0214	Assistant Fitter or 2nd class Fitter	Day	0.05	₹	355.00	₹	17.75
0203	Beldar	Day	0.09	₹	310.00	₹	27.90
	TOTAL					₹	226.58
	Add for Carriage of all materials & cost of kerosene oil, fuel, ladder etc. [L.S.]	@	1%			₹	2.27
	TOTAL					₹	228.85
	Add for Sundries and contingencies	@	3%			₹	6.87
	TOTAL					₹	235.72
	Add for water charges	@	1%			₹	2.36
	TOTAL					₹	238.08
	Add GST (multiplying factor)		0.1405			₹	33.45
						₹	271.53
	Add for contractor's profit and overheads	@	15%			₹	40.73
						₹	312.26
	Add cess	@	1%			₹	3.12
	Cost for one no. joint					₹	315.38
	Say					₹	315.40

18.58 Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:

18.58.3	50 mm
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Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one joint						
	MATERIALS						
18017	Pig lead	kilogram	0.77	₹	176.00	₹	135.52
1881	Spun yarn	kilogram	0.06	₹	45.00	₹	2.70
	LABOUR						
0215	Fitter (grade-1)	Day	0.04	₹	440.00	₹	17.60
0214	Assistant Fitter or 2nd class Fitter	Day	0.05	₹	355.00	₹	17.75
0203	Beldar	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	189.07
	Add for Carriage of all materials & cost of kerosene oil, fuel, ladder etc. [L.S.]	@	1%			₹	1.89
	TOTAL					₹	190.96
	Add for Sundries and contingencies	@	3%			₹	5.73
	TOTAL					₹	196.69
	Add for water charges	@	1%			₹	1.97
	TOTAL					₹	198.66
	Add GST (multiplying factor)		0.1405			₹	27.91
						₹	226.57

Add for contractor's profit and overheads	@	15%	₹	33.99
			₹	260.56
Add cess	@	1%	₹	2.61
Cost for one no. joint			₹	263.17
Say			₹	263.20

18.59	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :						
18.59.1	100 mm						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18003	M.S. stayes & clamps including bolts and	each	1.00	₹	55.00	₹	55.00
	nuts for 100 mm pipe						
	LABOUR						
0215	Fitter (grade-1)	Day	0.04	₹	440.00	₹	17.60
0212	Helper	Day	0.04	₹	310.00	₹	12.40
	TOTAL					₹	85.00
	Add for Carriage of all materials & fixing stay in concrete at bottom, tripod & ladder etc. [L.S.]	@	1%			₹	0.85
	TOTAL					₹	85.85
	Add for Sundries and contingencies	@	3%			₹	2.58
	TOTAL					₹	88.43
	Add for water charges	@	1%			₹	0.88
	TOTAL					₹	89.31
	Add GST (multiplying factor)		0.1405			₹	12.55
						₹	101.86
	Add for contractor's profit and overheads	@	15%			₹	15.28
						₹	117.14
	Add cess	@	1%			₹	1.17
	Cost for one no.					₹	118.31
	Say					₹	118.30

18.59 Providing and fixing M.S. stays and clamps for sand castiron/centrifugally cast (spun) iron pipes of diameter :

18.59.2	75 mm						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18007	M.S. stayes & clamps including bolts and	each	1.00	₹	37.00	₹	37.00
	nuts for 75 mm pipe						
	LABOUR						
0215	Fitter (grade-1)	Day	0.03	₹	440.00	₹	13.20
0212	Helper	Day	0.03	₹	310.00	₹	9.30
	TOTAL					₹	59.50
	Add for Carriage of all materials & fixing stay in concrete at bottom, tripod & ladder etc. [L.S.]	@	1%			₹	0.60
	TOTAL					₹	60.10
	Add for Sundries and contingencies	@	3%			₹	1.80
	TOTAL					₹	61.90
	Add for water charges	@	1%			₹	0.62
	TOTAL					₹	62.52
	Add GST (multiplying factor)		0.1405			₹	8.78
						₹	71.30
	Add for contractor's profit and overheads	@	15%			₹	10.70
						₹	82.00
	Add cess	@	1%			₹	0.82
	Cost for one no.					₹	82.82
	Say					₹	82.80

18.59 Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :

18.59.3 50 mm

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18006	M.S. stayes & clamps including bolts and	each	1.00	₹	35.00	₹	35.00
	nuts for 50 mm pipe						
	LABOUR						
0215	Fitter (grade-1)	Day	0.025	₹	440.00	₹	11.00
0212	Helper	Day	0.025	₹	310.00	₹	7.75
	TOTAL					₹	53.75
	Add for Carriage of all materials & fixing stay in concrete at bottom, tripod & ladder etc. [L.S.]	@	1%			₹	0.54
	TOTAL					₹	54.29
	Add for Sundries and contingencies	@	3%			₹	1.63
	TOTAL					₹	55.92
	Add for water charges	@	1%			₹	0.56
	TOTAL					₹	56.48
	Add GST (multiplying factor)		0.1405			₹	7.94
						₹	64.42
	Add for contractor's profit and overheads	@	15%			₹	9.66
						₹	74.08
	Add cess	@	1%			₹	0.74
	Cost for one no.					₹	74.82
	Say					₹	74.80

18.60 Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors:

18.60.1	100 mm inlet and 100 mm outlet					
18.60.1.1	Sand cast iron S&S as per IS: 3989.					
• •						

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18183	Sand cast iron S&S trap 100 mm inlet and 100 mm outlet	each	1.00	₹	450.00	₹	450.00
	LABOUR						
0219	Mason (brick layer) 1st class	Day	0.50	₹	440.00	₹	220.00
0203	Beldar	Day	0.50	₹	310.00	₹	155.00
	TOTAL					₹	825.00
	Add for Carriage of all materials and cost of cement ,sand & grit etc. [L.S.]	@	1%			₹	8.25
	TOTAL					₹	833.25
	Add for Sundries and contingencies	@	3%			₹	25.00
	TOTAL					₹	858.25
	Add for water charges	@	1%			₹	8.58
	TOTAL					₹	866.83
	Add GST (multiplying factor)		0.1405			₹	121.79
						₹	988.62
	Add for contractor's profit and overheads	@	15%			₹	148.29
						₹	1,136.91
	Add cess	@	1%			₹	11.37
	Cost for one no.					₹	1,148.28
	Say					₹	1,148.30

18.60 Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 18.60.1 100 mm inlet and 100 mm outlet 18.60.1.1 Sand Cast Iron S&S as per IS: 1729. Code Quantity Description Unit Rate Amount Details of cost for one no.

MATERIALS

18071 1.00 Sand cast iron trap with 100 mm inlet and 100 each ₹ 280.00 ₹ 280.00 mm outlet

			31	10/	57((1))	J., (LL, (1))	JJ
0219	Mason (brick layer) 1st class	Day	0.50	₹	440.00	₹	220.00
0203	Beldar	Day	0.50	₹	310.00		155.00
-	TOTAL	,		•	0.0.00	` ₹	655.00
	Add for Carriage of all materials and cost of cement ,sand & grit		40'				
	etc. [L.S.]	@	1%			₹	6.55
	TOTAL					₹	661.55
	Add for Sundries and contingencies	@	3%			₹	19.85
	TOTAL					₹	681.40
	Add for water charges	@	1%			₹	6.81
	TOTAL					₹	688.21
	Add GST (multiplying factor)		0.1405			₹	96.69
						₹	784.90
	Add for contractor's profit and overheads	@	15%			₹	117.73
						₹	902.63
	Add cess	@	1%			₹	9.03
	Cost for one no.					₹	911.66
	Say					₹	911.70
18.60 18.60.2	Providing and fixing trap of self cleansing design with screwed down or of cutting and making good the walls and floors: 100 mm inlet and 75 mm outlet	hinged gra	ating with or v	/ithou	it vent arm co	mplete, in	cluding cost
18.60.2.1	Sand cast iron S&S as per IS - 3989						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	MATERIALS						
18184	Sand cast iron S&S trap 100 mm inlet and 75 mm outlet LABOUR	each	1.00	₹	480.00	₹	480.00
0219	Mason (brick layer) 1st class	Day	0.50	₹	440.00	3	220.00
0203	Beldar	Day	0.50	₹	310.00		155.00
0203	TOTAL	Day	0.00	•	310.00	₹	855.00
	Add for Carriage of all materials and cost of cement ,sand & grit						
	etc. [L.S.]	@	1%			₹	8.55 863.55
	Add for Sundries and contingencies	@	3%			₹	25.91
	TOTAL	œ.	370			₹	889.46
	Add for water charges	@	1%			₹	8.89
	TOTAL	C	170			₹	898.35
	Add GST (multiplying factor)		0.1405			₹	126.22
	/ tad oo : (a.i.p.)g table!)		0.1100			₹	1,024.57
	Add for contractor's profit and overheads	@	15%			₹	153.68
	'					₹	1,178.25
	Add cess	@	1%			₹	11.78
	Cost for one no.					₹	1,190.03
	Say					₹	1,190.00
	,						,
18.60	Providing and fixing trap of self cleansing design with screwed down or of cutting and making good the walls and floors:	hinged gra	ating with or v	/ithou	it vent arm co	mplete, in	cluding cost
18.60.2	100 mm inlet and 75 mm outlet						
18.60.2.2	Sand Cast Iron S&S as per IS- 1729.						
Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.		•				
	MATERIALS						
18072	Sand cast iron trap with 100 mm inlet and 75	each	1.00	₹	190.00	₹	190.00
10072	mm outlet	eacii	1.00	`	190.00	`	190.00
0240	LABOUR	_	0.50	-	440.0-	=	202.25
0219	Mason (brick layer) 1st class	Day	0.50	₹	440.00		220.00
0203	Beldar	Day	0.50	₹	310.00		155.00
	TOTAL Add for Carriage of all materials, and cost of coment, sand 8 grit					₹	565.00
	Add for Carriage of all materials and cost of cement ,sand & grit etc. [L.S.]	@	1%			₹	5.65
	TOTAL					₹	570 65

TOTAL

TOTAL

Add for Sundries and contingencies

Add for water charges

₹

3%

1%

570.65

17.12

587.77

5.88

Rate

Amount

		₹	593.65
	0.1405	₹	83.41
		₹	677.06
@	15%	₹	101.56
		₹	778.62
@	1%	₹	7.79
		₹	786.41
		₹	786.40
		@ 15%	0.1405 ₹ ② 15% ₹ ② 1% ₹

Unit

Quantity

Cutting chases in brick masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4(1cement: 4 coarse sand):

1	Ω	61	1	100mmdia

Description

Code

Jour	2003. p. 101.	•	,			7	
Details of cost	for one metre (Chase for 100 mm dia 10.00 mtr length pipe) 10.00 x 0.15 X 0.15=0.225 Cum (less pipe)						
	MATERIALS						
04007	12.50 mm stone aggregate	cum	0.126	₹	4,785.00	₹	602.91
02003	Fine Sand	cum	0.063	₹	560.00	₹	35.28
03001	Cement	t	0.0286	₹	5,800.00	₹	165.88
02003	Sand for plaster	cum	0.023	₹	560.00	₹	12.88
03001	Cement for plaster 1:4 CARRIAGE	t	0.00082	₹	5,800.00	₹	4.76
405	Stone Aggregate	cum	0.126	₹	147.57	₹	18.59
425	Fine Sand	cum	0.086	₹	131.75	₹	11.33
421	Cement	tonne	0.0368	₹	102.47	₹	3.77
	LABOUR						
	For cutting chases						
0203	Beldar (M)	Day	1.2	₹	310.00	₹	372.00
	For Concreting & plastering						
0216	Foreman	Day	0.15	₹	440.00	₹	66.00
0117	Mason 1st class	Day	1.00	₹	440.00	₹	440.00
0210	Carpenter 2nd class	Day	0.10	₹	395.00	₹	39.50
0212	Helper	Day	0.30	₹	310.00	₹	93.00
0203	Belder	Day	1.50	₹	310.00	₹	465.00
0212	Coolie	Day	0.75	₹	310.00	₹	232.50
0205	Waterman	Day	0.15	₹	310.00	₹	46.50
	TOTAL					₹	2,609.90
	Add for planks for closing the side, Ballies, Nails, pumps for water & carriage of all materials etc. [L.S.]	@	1%			₹	26.10
	TOTAL					₹	2,636.00
	Add for Chisel for cutting chases and pointing wherever required	@	3.50%			₹	92.26
	TOTAL					₹	2,728.26
	Add for Scaffolding/Ladders for concreting & plastering	@	3.0%			₹	81.85
	TOTAL					₹	2,810.11
	Add for Sundries and contingencies	@	3.0%			₹	84.30
	TOTAL	_	. =0/			₹	2,894.41
	Add for Water charges & Electricity	@	1.5%			₹	43.42
						₹	2,937.83
	Add 15% for contractor's profit and overheads	@	15%			₹	440.67
	Cost for cutting chases in brick wall and closing for 10.00 mtr length					₹	3,378.50
	Rate per mtr.					₹ ₹	337.85 337.90
	Say					₹	331.30

18.61 Cutting chases in brick masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4(1cement: 4 coarse sand):

18.61.2 75 mmdia.

Code Description Unit Quantity Rate Amount

Details of cost for one metre (Chase for 75 mm dia 10.00 mtr length pipe) 10.00 x 0.125 X 0.125=0.156 Cum (less pipe)

	10.00 X 0.120 X 0.120=0.100 Outil (1000 pipo)						
	MATERIALS						
04007	12.50 mm stone aggregate	cum	0.096	₹	4,785.00	₹	459.36
02003	Fine Sand	cum	0.048	₹	560.00	₹	26.88
03001	Cement	t	0.0218	₹	5,800.00	₹	126.44
02003	Sand for plaster	cum	0.020	₹	560.00	₹	11.20
03001	Cement for plaster 1:4 CARRIAGE	t	0.00068	₹	5,800.00	₹	3.94
405	Stone Aggregate	cum	0.096	₹	147.57	₹	14.17
425	Fine Sand	cum	0.068	₹	131.75	₹	8.96
421	Cement	tonne	0.0286	₹	102.47	₹	2.93
	LABOUR						
	For cutting chases						
0203	Beldar (M)	Day	1.00	₹	310.00	₹	310.00
	For Concreting & plastering						
0216	Foreman	Day	0.10	₹	440.00	₹	44.00
0117	Mason 1st class	Day	0.60	₹	440.00	₹	264.00
0210	Carpenter 2nd class	Day	0.10	₹	395.00	₹	39.50
0212	Helper	Day	0.10	₹	310.00	₹	31.00
0203	Belder	Day	1.25	₹	310.00	₹	387.50
0212	Coolie	Day	0.65	₹	310.00	₹	201.50
0205	Waterman	Day	0.15	₹	310.00	₹	46.50
	TOTAL					₹	1,977.88
	Add for planks for closing the side, Ballies, Nails, pumps for water & carriage of all materials etc. [L.S.]	@	1%			₹	19.78
	TOTAL					₹	1,997.66
	Add for Chisel for cutting chases and pointing wherever required	@	5.00%			₹	99.88
	TOTAL					₹	2,097.54
	Add for Scaffolding/Ladders for concreting & plastering	@	3.0%			₹	62.93
	TOTAL		0.00/			₹	2,160.47
	Add for Sundries and contingencies	@	3.0%			₹ ₹	64.81 2,225.28
	TOTAL	@	1.5%			₹	33.38
	Add for Water charges & Electricity	w	1.5%				
	A 11450/ /		150/			₹	2,258.66
	Add 15% for contractor's profit and overheads	@	15%			₹	338.80
	Cost for cutting chases in brick wall and closing for 10.00 mtr length					₹	2,597.46 259.75
	Rate per mtr. Say					₹	259.75 259.70
	Jay					`	200.10

18.61 Cutting chases in brick masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4(1cement: 4 coarse sand):

18.61.3	50mmdia.						
Code	Description	Unit	Quantity		Rate	Amount	
Details of cost for	or one metre (Chase for 50 mm dia 10.00 mtr length pipe) 10.00 x 0.09 X 0.09=0.081 Cum (less pipe)						
	MATERIALS						
04007	12.50 mm stone aggregate	cum	0.051	₹	4,785.00	₹	244.04
02003	Fine Sand	cum	0.026	₹	560.00	₹	14.28
03001	Cement	t	0.0116	₹	5,800.00	₹	67.28
02003	Sand for plaster	cum	0.014	₹	560.00	₹	7.84
03001	Cement for plaster 1:4 CARRIAGE	t	0.00050	₹	5,800.00	₹	2.90
405	Stone Aggregate	cum	0.0510	₹	147.57	₹	7.53
425	Fine Sand	cum	0.0395	₹	131.75	₹	5.20
421	Cement	tonne	0.0166	₹	102.47	₹	1.70
	LABOUR						
	For cutting chases						
0203	Beldar (M)	Day	0.50	₹	310.00	₹	155.00
	For Concreting & plastering						

0216	Foreman	Day	0.08	₹	440.00	₹	33.00
0117	Mason 1st class	Day	0.50	₹	440.00	₹	220.00
0210	Carpenter 2nd class	Day	0.10	₹	395.00	₹	39.50
0212	Helper	Day	0.10	₹	310.00	₹	31.00
0203	Belder	Day	0.80	₹	310.00	₹	248.00
0212	Coolie	Day	0.50	₹	310.00	₹	155.00
0205	Waterman	Day	0.15	₹	310.00	₹	46.50
	TOTAL					₹	1,278.77
	Add for planks for closing the side, Ballies, Nails, pumps for water & carriage of all materials etc. [L.S.]	@	1%			₹	12.79
	TOTAL					₹	1,291.56
	Add for Chisel for cutting chases and pointing wherever required	@	5.00%			₹	64.58
	TOTAL					₹	1,356.13
	Add for Scaffolding/Ladders for concreting & plastering	@	3.0%			₹	40.68
	TOTAL					₹	1,396.82
	Add for Sundries and contingencies	@	3.0%			₹	41.90
	TOTAL					₹	1,438.72
	Add for Water charges & Electricity	@	1.5%			₹	21.58
						₹	1,460.30
	Add 15% for contractor's profit and overheads	@	15%			₹	219.05
	Cost for cutting chases in brick wall and closing for 10.00 mtr length					₹	1,679.35
	Rate per mtr.					₹	167.93
	Say					₹	167.90

Painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint over a coat of zinc chromate yellow primer (of approved quality) on the outside surface of the cistern flush pipe, other fittings, etc. complete for new work.

Code	Description	Unit	Quantity	F	Rate	Amount	
	Details of cost for one cistern with fittings						
	MATERIALS						
12008	Anticorrosive bitumastic paint (of approved	litre	0.23	₹	110.00	₹	25.30
	quality)						
18131	Red oxide Zinc chromate yellow primer	litre	0.20	₹	115.00	₹	23.00
12040	Synthetic enamel paint	litre	0.40	₹	170.00	₹	68.00
	LABOUR						
0227	Painter	Day	0.25	₹	395.00	₹	98.75
0203	Belder	Day	0.50	₹	310.00	₹	155.00
	TOTAL					₹	370.05
	Add for Carriage of all materials and cost sand paper & cloth etc. [L.S.]	@	1%			₹	3.70
	TOTAL					₹	373.75
	Add for Sundries and contingencies	@	3%			₹	11.21
	TOTAL					₹	384.96
	Add for water charges	@	1%			₹	3.85
	TOTAL					₹	388.81
	Add GST (multiplying factor)		0.1405			₹	54.63
						₹	443.44
	Add for contractor's profit and overheads	@	15%			₹	66.52
						₹	509.96
	Add cess	@	1%			₹	5.10
	Cost for one no.					₹	515.06
	Say					₹	515.10

18.63

Re-painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint on the outside surface of the cistern, flush pipe, other fittings, etc. complete including polishing of wooden seat and lid and cleaning of W.C. pan with acid wherever necessary.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one cistern with fittings						
	MATERIALS						
12008	Anticorrosive bitumastic paint (of approved	litre	0.23	₹	110.00	₹	25.30
	quality)						
12040	Synthetic enamel paint	litre	0.20	₹	170.00	₹	34.00
	LABOUR						

0227	Painter	Day	0.20	₹	395.00	₹	79.00
0203	Belder	Day	0.25	₹	310.00	₹	77.50
	TOTAL					₹	215.80
	Add for cost of sand paper & cloth etc.	@	4.00%			₹	8.63
	TOTAL					₹	224.43
	Add for polishing wooden seat etc.	@	10.00%			₹	22.44
	TOTAL					₹	246.88
	Add for cleaning pan with acid & Carriage of all materials etc. [L.S.]	@	1%			₹	2.47
	TOTAL					₹	249.35
	Add for Sundries and contingencies	@	3%			₹	7.48
	TOTAL					₹	256.83
	Add for water charges	@	1%			₹	2.57
	TOTAL					₹	259.40
	Add GST (multiplying factor)		0.1405			₹	36.45
						₹	295.85
	Add for contractor's profit and overheads	@	15%			₹	44.38
						₹	340.23
	Add cess	@	1%			₹	3.40
	Cost for repainting per cistren					₹	343.63
	Say					₹	343.60

18.64 Repainting C.I. cistern with synthetic enamel paint of approved colour brand and manufacture on the outside surface of cistern flush pipe, other fittings etc. complete.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one cistern with fittings						
	MATERIALS						
12040	Synthetic enamel paint	litre	0.20	₹	170.00	₹	34.00
	LABOUR						
0227	Painter	Day	0.09	₹	395.00	₹	35.55
0203	Belder	Day	0.12	₹	310.00	₹	37.20
	TOTAL					₹	106.75
	Add for Carriage of all materials and cost sand paper & cloth etc. [L.S.]	@	5%			₹	5.34
	TOTAL					₹	112.09
	Add for Sundries and contingencies	@	3%			₹	3.36
	TOTAL					₹	115.45
	Add for water charges	@	1%			₹	1.15
	TOTAL					₹	116.60
	Add GST (multiplying factor)		0.1405			₹	16.38
						₹	132.98
	Add for contractor's profit and overheads	@	15%			₹	19.95
						₹	152.93
	Add cess	@	1%			₹	1.53
	Cost for one no.					₹	154.46
	Say					₹	154.50

Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :

18.65.1	100 mm diameter pipe						
Code	Description	Unit	Quantity		Rate	Amount	
	Exterior area of pipe for 30.00 mtr. Length						
	(i) 100 mm dia= 10.03 Sqm						
	MATERIALS						
18131	Zinc chromite yellow primer	Ltr	0.54	₹	115.00	₹	62.10
12041	Two coats of painting with specified colour	Ltr	0.95	₹	180.00	₹	171.00
	LABOUR						
0216	Foreman	Day	0.15	₹	440.00	₹	66.00
0227	Painter	Day	0.65	₹	395.00	₹	256.75

0203	Helper	Day	0.65	₹	310.00	₹	201.50
	TOTAL					₹	757.35
	Add for extra painting on fitting	@	12.00%			₹	90.88
	TOTAL					₹	848.23
	Add for scaffolding & Ladder etc.	@	7.50%			₹	63.62
	TOTAL					₹	911.85
	Add for carriage of all materials and cost of wire brushes for cleaning, putty, sand paper, brushes, old cloth etc. [L.S.]	@	1%			₹	9.12
	TOTAL					₹	920.97
	Add for Sundries and contingencies	@	3%			₹	27.63
	TOTAL					₹	948.60
	Add 15% for contractor's profit and overheads	@	15%			₹	142.29
	Cost for painting100 mm dia pipe for 30.00 mtr length					₹	1,090.89
	Rate per mtr.					₹	36.36
	Say					₹	36.40

Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :

18.65.2 75 mm dia	meter pipe
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Code	Description	Unit	Quantity		Rate	Amount	
	Exterior area of pipe for 30.00 mtr. Length						
	(i) 75 mm dia= 7.67 Sqm						
	MATERIALS						
18131	Zinc chromite yellow primer	Ltr	0.41	₹	115.00	₹	47.15
12041	Two coats of painting with specified colour	Ltr	0.73	₹	180.00	₹	131.40
	LABOUR						
0216	Foreman	Day	0.12	₹	440.00	₹	52.80
0227	Painter	Day	0.48	₹	395.00	₹	189.60
0203	Helper	Day	0.48	₹	310.00	₹	148.80
	TOTAL					₹	569.75
	Add for extra painting on fittings etc.	@	10.00%			₹	56.98
	TOTAL					₹	626.73
	Add for scaffolding & Ladder etc.	@	6.00%			₹	37.60
	TOTAL					₹	664.33
	Add for carriage of all materials and cost of wire brushes for cleaning, putty, sand paper, brushes, old cloth etc. [L.S.]	@	1%			₹	6.64
	TOTAL					₹	670.97
	Add for Sundries and contingencies	@	3%			₹	20.13
	TOTAL					₹	691.10
	Add 15% for contractor's profit and overheads	@	15%			₹	103.66
	Cost for painting 75 mm dia pipe for 30.00 mtr length					₹	794.76
	Rate per mtr.					₹	26.49
	Say					₹	26.50

18.66 Repainting sand cast iron/ centrifugally cast iron (spun) iron, soil, waste, vent pipes and fittings with paint of any colour such as chocolate, grey or buff etc:

18.00.1 100 mm diameter pipe	18.66.1	100 mm diameter pipe
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Code	Description	Unit	Quantity		Rate	Amount	
	Exterior area of pipe for 30.00 mtr. Length						
	100 mm dia= 10.03 Sqm						
	MATERIALS						
12041	One or more coats of painting with specified colour	Ltr	0.46	₹	180.00	₹	82.80
	LABOUR						
0216	Foreman	Day	0.10	₹	440.00	₹	44.00
0227	Painter	Day	0.30	₹	395.00	₹	118.50
0203	Helper	Day	0.30	₹	310.00	₹	93.00
	TOTAL					₹	338.30
	Add for extra painting on fittings etc.	@	15.00%			₹	50.75
	TOTAL					₹	389.05
	Add for scaffolding & Ladder etc.	@	10.00%			₹	38.90
	TOTAL					₹	427.95

Add for carriage of all materials and cost of wire brushes for cleaning, putty, sand paper, brushes, old cloth etc. [L.S.]	@	1%	₹	4.28
TOTAL			₹	432.23
Add for Sundries and contingencies	@	3%	₹	12.97
TOTAL			₹	445.20
Add 15% for contractor's profit and overheads	@	15%	₹	66.78
Cost for painting100 mm dia old pipe for 30.00 mtr length			₹	511.98
Rate per mtr.			₹	17.07
Say			₹	17.10

18.66 Repainting sand cast iron/ centrifugally cast iron (spun) iron, soil, waste, vent pipes and fittings with paint of any colour such as chocolate, grey or buff etc:

18.66.2	75 mm diameter pipe
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Code	Description	Unit	Quantity		Rate	Amount	
	Exterior area of pipe for 30.00 mtr. Length						
	75 mm dia= 7.67 Sqm						
	MATERIALS						
12041	One or more coats of painting with specified colour	Ltr	0.35	₹	180.00	₹	63.00
	LABOUR						
0216	Foreman	Day	0.08	₹	440.00	₹	35.20
0227	Painter	Day	0.22	₹	395.00	₹	86.90
0203	Helper	Day	0.22	₹	310.00	₹	68.20
	TOTAL					₹	253.30
	Add for extra painting on fittings etc.	@	12.00%			₹	30.40
	TOTAL					₹	283.70
	Add for scaffolding & Ladder etc.	@	10.00%			₹	28.37
	TOTAL					₹	312.07
	Add for carriage of all materials and cost of wire brushes for cleaning, putty, sand paper, brushes, old cloth etc. [L.S.]	@	1%			₹	3.12
	TOTAL					₹	315.19
	Add for Sundries and contingencies	@	3%			₹	9.46
	TOTAL					₹	324.64
	Add 15% for contractor's profit and overheads	@	15%			₹	48.70
	Cost for painting 75 mm dia old pipe for 30.00 mtr length					₹	373.34
	Rate per mtr.					₹	12.44
	Say					₹	12.40

18.67 Repainting bath tub of size 1700x730x430mm with enamel pai
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Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one tub for 3.33 sqm. [Bottom: $1x1.70x 0.73=1.241$ Sides: $2x1.70x0.43=1.462$ sqm + Ends: $2x0.73x0.43=0.627$ sqm]= To	•	lm				
	MATERIALS						
12041	Paint of approved quality	litre	0.25	₹	180.00	₹	45.00
	LABOUR						
0227	Painter	Day	0.25	₹	395.00	₹	98.75
0212	Coolies	Day	0.25	₹	310.00	₹	77.50
	TOTAL					₹	221.25
	Add for carriage of all materials and cost of wire brushes, sand paper, brushes, putty etc. [L.S.]	@	18%			₹	39.83
	TOTAL					₹	261.08
	Add for Sundries and contingencies	@	3%			₹	7.83
	TOTAL					₹	268.91
	Add for water charges	@	1%			₹	2.69
	TOTAL					₹	271.60
	Add GST (multiplying factor)		0.1405			₹	38.16
						₹	309.76
	Add for contractor's profit and overheads	@	15%			₹	46.46
						₹	356.22
	Add cess	@	1%			₹	3.56
	Cost for one no.					₹	359.78
	Say					₹	359.80

Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C pan) with seat lid with C.P. brass hinges and rubber buffers, 10 litre low level flushing cistern with fitting and brackets, 40mm flush bend 20mm over flow pipe with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:

18.68.1 White vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and C.P. flush ber

Code	Description	Unit	Quantity		Rate	Amoun	t
	Details of cost for one no.						
	MATERIALS						
18062	White plastic seat and lid with C.P. brass	each	1.00	₹	350.00	₹	350.00
	hinges and rubber bufers etc.						
18083	White vitreous china dual prupose closet	each	1.00	₹	2,400.00	₹	2,400.00
40404	(anglo India W.C. pan)						
18134	10 litre white vitreous china low level flushing	each	1.00	₹	1,280.00	₹	1,280.00
	cistern with fittings and brackets and 40 mm						
18009	porcelain enamelled flush bend		1.00	-	00.00	=	20.00
10009	Mosquito proof coupling of approved	each	1.00	₹	30.00	₹	30.00
	municipal design LABOUR						
0215	Fitter (grade-1)	Day	1.10	₹	440.00	₹	484.00
0219	Mason (brick layer) 1st class	Day	1.00	₹	440.00		440.00
0203	Belder	Day	1.20	₹	310.00		372.00
	TOTAL	,				₹	5,356.00
	Add Carriage for all materials & cost of Plugs and screws,Read lead,white lead and Gaskin,cement,sand and grit for repairs including cutting and making good the walls and floors where required and fixing , overflow arrangements & specials, painting of fitting/brackets etc. [L.S.]	@	1%			₹	53.56
	TOTAL					₹	5,409.56
	Add for Sundries and contingencies	@	3%			₹	162.29
	TOTAL					₹	5,571.85
	Add for water charges	@	1%			₹	55.72
	TOTAL					₹	5,627.57
	Add GST (multiplying factor)		0.1405			₹	790.67
						₹	6,418.24
	Add for contractor's profit and overheads	@	15%			₹	962.74
						₹	7,380.98
	Add cess	@	1%			₹	73.81
	Cost for 1 No.					₹	7,454.79
	Say					₹	7,454.80

18.69 Providing and fixing PTMT Waste Coupling for washbasin and sink, of approved quality and colour.

18.69.1	Waste coupling 31 mm of 79mm length and 62mm breadth weighing not less than 45 gms.
10.03.1	waste coupling 31 mm of 75mm length and 62mm preadin weldning not less than 45 dms.

Code	Description	Unit	Quantity	F	Rate	Amount	
	Details of cost for one no.						
	Materials :						
18170	P.T.M.T. waste coupling 31/32 mm	Each	1.00	₹	55.00	₹	55.00
	LABOUR						
0216	Foreman	Day	0.03	₹	440.00	₹	13.20
0215	Fitter grade-1	Day	0.03	₹	440.00	₹	13.20
0212	Helper	Day	0.03	₹	310.00	₹	9.30
	TOTAL					₹	90.70
	Add for Sundries and contingencies	@	3%			₹	2.72
	TOTAL					₹	93.42
	Add for water charges	@	1%			₹	0.93
	TOTAL					₹	94.35
	Add GST (multiplying factor)		0.1405			₹	13.26

			₹	107.61
Add for contractor's profit and overheads	@	15%	₹	16.14
			₹	123.75
Add cess	@	1%	₹	1.24
Cost for one no.			₹	124.99
Say			₹	125.00

18.69 Providing and fixing PTMT Waste Coupling for washbasin and sink, of approved quality and colour.

18.69.2 Waste coupling 38mm of 83mm length and 77mm breadth, weighing not less than 60gms.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	Materials :						
18171	P.T.M.T. waste coupling 38/40 mm	Each	1.00	₹	75.00	₹	75.00
	LABOUR						
0216	Foreman	Day	0.03	₹	440.00	₹	13.20
0215	Fitter grade-1	Day	0.03	₹	440.00	₹	13.20
0212	Helper	Day	0.03	₹	310.00	₹	9.30
	TOTAL					₹	110.70
	Add for Sundries and contingencies	@	3%			₹	3.32
	TOTAL					₹	114.02
	Add for water charges	@	1%			₹	1.14
	TOTAL					₹	115.16
	Add GST (multiplying factor)		0.1405			₹	16.18
						₹	131.34
	Add for contractor's profit and overheads	@	15%			₹	19.70
						₹	151.04
	Add cess	@	1%			₹	1.51
	Cost for one no.					₹	152.55
	Say					₹	152.60

18.70 Providing and fixing PTMT Bottle Trap for Wash basin and sink.

Bottle trap 31mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 260gms.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	Materials:						
18172	P.T.M.T. bottle trap 31/32 mm	Each	1.00	₹	300.00	₹	300.00
	LABOUR						
0216	Foreman	Day	0.03	₹	440.00	₹	13.20
0215	Fitter grade-1	Day	0.030	₹	440.00	₹	13.20
0212	Helper	Day	0.030	₹	310.00	₹	9.30
	TOTAL					₹	335.70
	Add for Sundries and contingencies including carriage etc.[L.S.]	@	3%			₹	10.07
	TOTAL					₹	345.77
	Add for water charges	@	1%			₹	3.46
	TOTAL					₹	349.23
	Add GST (multiplying factor)		0.1405			₹	49.07
						₹	398.30
	Add for contractor's profit and overheads	@	15%			₹	59.75
						₹	458.05
	Add cess	@	1%			₹	4.58
	Cost for one no.					₹	462.63
	Say					₹	462.60

18.70 Providing and fixing PTMT Bottle Trap for Wash basin and sink.

Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	Materials :						
18173	P.T.M.T. bottle trap 38/40 mm	Each	1.00	₹	310.00	₹	310.00
	LABOUR						
0216	Foreman	Day	0.03	₹	440.00	₹	13.20
0215	Fitter grade-1	Day	0.030	₹	440.00	₹	13.20
0212	Helper	Day	0.030	₹	310.00	₹	9.30
	TOTAL					₹	345.70
	Add for Sundries and contingencies including carriage etc.[L.S.]	@	3%			₹	10.37
	TOTAL					₹	356.07
	Add for water charges	@	1%			₹	3.56
	TOTAL					₹	359.63
	Add GST (multiplying factor)		0.1405			₹	50.53
						₹	410.16
	Add for contractor's profit and overheads	@	15%			₹	61.52
						₹	471.68
	Add cess	@	1%			₹	4.72
	Cost for one no.					₹	476.40
	Say					₹	476.40

18.71 Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colours weighing not less than 105 gms

Code	Description	Unit	Quantity	_	Rate	Amount	
	Details of cost for one no.						
	Materials:						
18174	P.T.M.T. liquid shop container	Each	1.00	₹	135.00	₹	135.00
	LABOUR						
0216	Foreman	Day	0.03	₹	440.00	₹	13.20
0215	Fitter grade-1	Day	0.030	₹	440.00	₹	13.20
	TOTAL					₹	161.40
	Add for Sundries and contingencies including carriage etc.[L.S.]	@	3%			₹	4.84
	TOTAL					₹	166.24
	Add for water charges	@	1%			₹	1.66
	TOTAL					₹	167.90
	Add GST (multiplying factor)		0.1405			₹	23.59
						₹	191.49
	Add for contractor's profit and overheads	@	15%			₹	28.72
						₹	220.21
	Add cess	@	1%			₹	2.20
	Cost for one no.					₹	222.41
	Say					₹	222.40

Providing and fixing PTMT towel ring trapezoidal shape 215mm long, 200mm wide with a minimum distances of 37mm from wall face with concealed fittings arrangement of approved quality and colours weighing not less than 80 gms

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no						
	Materials:						
18175	P.T.M.T. towel ring	Each	1.00	₹	108.00	₹	108.00
	LABOUR						
0216	Foreman	Day	0.05	₹	440.00	₹	22.00
0215	Fitter grade-1	Day	0.080	₹	440.00	₹	35.20
0212	Helper	Day	0.080	₹	310.00	₹	24.80
	TOTAL					₹	190.00
	Add for Sundries and contingencies including carriage etc.[L.S.]	@	3%			₹	5.70
	TOTAL					₹	195.70

Add for water charges	@	1%	₹	1.96
TOTAL			₹	197.66
Add GST (multiplying factor)		0.1405	₹	27.77
			₹	225.43
Add for contractor's profit and overheads	@	15%	₹	33.81
			₹	259.24
Add cess	@	1%	₹	2.59
Cost for one no.			₹	261.83
Say			₹	261.80

18.73 Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour.

18.73.1 450mm long towel rail with total length of 495mm, 78mm wide and effective height of 88mm, weighing not less than 170gms.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no.						
	Materials :						
18176	P.T.M.T. towel rail 18" (450mm) with brackets	Each	1.00	₹	140.00	₹	140.00
Α	Wooden plugs						
	Rate as per item no 8.30 of SH: Wood work (A)	each	2.00	₹	12.94	₹	25.88
08055	25 mm CP. brass screws	100 Nos	6.00	₹	189.00	₹	11.34
	LABOUR						
0210	Carpenter 2nd class	Day	0.17	₹	395.00	₹	67.15
0203	Beldar	Day	0.17	₹	310.00	₹	52.70
	TOTAL					₹	297.07
	Add for Carriage of materials (except A) [L.S.]	@	1%			₹	2.71
	TOTAL					₹	299.78
	Add for Sundries and contingencies	@	3%			₹	8.99
	TOTAL					₹	308.77
	Add for water charges	@	1%			₹	3.09
	TOTAL					₹	311.86
	Add GST (multiplying factor)		0.1405			₹	43.82
						₹	355.68
	Add for contractor's profit and overheads	@	15%			₹	53.35
						₹	409.03
	Add cess	@	1%			₹	4.09
	Cost for one no.					₹	413.12
	Say					₹	413.10

18.73

Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour.

18.73.2 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.

220.00
220.00
220.00
25.88
11.34
67.15
52.70
377.07
3.51
380.58
11.42
392.00
3.92
395.92

Add GST (multiplying factor)	0.1405			55.63
			₹	451.55
Add for contractor's profit and overheads	@	15%	₹	67.73
			₹	519.28
Add cess	@	1%	₹	5.19
Cost for one no.			₹	524.47
Say			₹	524.50

18.74 Providing and fixing PTMT shelf 440 mm long, 124 mm widthand 36 mm height of approved quality and colour, weighing not less than 300ç

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no						
	Materials :						
18178	P.T.M.T. shelf	Each	1.00	₹	250.00	₹	250.00
08055	25 mm CP. brass screws	100 Nos	6.00	₹	189.00	₹	11.34
	LABOUR						
0210	Carpenter 2nd class	Day	0.17	₹	395.00	₹	67.15
0203	Beldar	Day	0.17	₹	310.00	₹	52.70
	TOTAL					₹	381.19
	Add for Carriage of materials & cost of cleats etc. [L.S.]	@	1%			₹	3.81
	TOTAL					₹	385.00
	Add for Sundries and contingencies	@	3%			₹	11.55
	TOTAL					₹	396.55
	Add for water charges	@	1%			₹	3.97
	TOTAL					₹	400.52
	Add GST (multiplying factor)		0.1405			₹	56.27
						₹	456.79
	Add for contractor's profit and overheads	@	15%			₹	68.52
						₹	525.31
	Add cess	@	1%			₹	5.25
	Cost for one no.					₹	530.56
	Say					₹	530.60

18.75 Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60gms.

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for one no						
	Materials:						
18179	P.T.M.T. Urinal spreader 15 mm	Each	1.00	₹	120.00	₹	120.00
	LABOUR						
0216	Foreman	Day	0.05	₹	440.00	₹	22.00
0215	Fitter grade-1	Day	0.100	₹	440.00	₹	44.00
0212	Helper	Day	0.100	₹	310.00	₹	31.00
	TOTAL					₹	217.00
	Add for Sundries and contingencies including carriage etc.[L.S.]	@	3%			₹	6.51
	TOTAL					₹	223.51
	Add for water charges	@	1%			₹	2.24
	TOTAL					₹	225.75
	Add GST (multiplying factor)		0.1405			₹	31.72
						₹	257.47
	Add for contractor's profit and overheads	@	15%			₹	38.62
						₹	296.09
	Add cess	@	1%			₹	2.96
	Cost for one no.					₹	299.05
	Say					₹	299.10

^{18.76} Providing and fixing PTMT urinal cock of approved quality and colour.

^{18.76.1 15} mm nominal bore, 80mm long. 42 mm high and 30mm wide with BSP female threads weighing not less than 48gms

Code	Description	Unit	Quantity		Rate	Amount	
	Details of cost for 1 No.						
	Materials:						
18185	P.T.M.T. Urinal cock 15mm dia	each	1.00	₹	90.00	₹	90.00
	LABOUR						
0216	Foreman	Day	0.05	₹	440.00	₹	22.00
0215	Fitter grade-1	Day	0.050	₹	440.00	₹	22.00
	TOTAL					₹	134.00
	Add for Sundries and contingencies including carriage etc.[L.S.]	@	3%			₹	4.02
	TOTAL					₹	138.02
	Add for water charges	@	1%			₹	1.38
	TOTAL					₹	139.40
	Add GST (multiplying factor)		0.1405			₹	19.59
						₹	158.99
	Add for contractor's profit and overheads	@	15%			₹	23.85
						₹	182.84
	Add cess	@	1%			₹	1.83
	Cost for one no.					₹	184.67
	Say					₹	184.70

Providing and fixing M.S. holder bat clamp of approved design to sand cast iron/ cast iron (spun) pipes comprising of M.S. flat brackets made of 50x5mm flat of specified shape, projecting 75mm outside the wall surface and fixed on wall with 4nos, 6mm dia expansion hold fasteners including drilling necessary holes in brick wall/ CC/ RCC surface and the cost of bolts etc. The pipes shall be fixed to the already fixed brackets with the help of 30mm x1.6mm galvanised M.S. flats of specified shape and of total length 420mm and shall be fixed with M.S. nuts, bolts, & washers of size 25x6mm, one bolts on each side of the pipe.

	fixed with M.S. nuts, bolts, & washers of size 25x6mm, one bolts on each	ch side of th	e pipe.		·				
18.77.1	Total bracket length 580mm of approved shape and design (for single 100mm dia pipes)								
Code	Description Details of cost for 10 nos.M.S holder bat clamp	Unit	Quantity		Rate	Amount			
	MATERIALS:								
	(a) Quantity of M.S. Flats and galvanised M.s flats for single pipe								
	(i) 50x5 mm M.S. flats								
	10x0.58 = 5.80 m								
	Add wastage = 0.60 m								
	Total = 6.40 m								
	i.e. 6.40 x 1.97 kg/m = 12.61 kg or 0.126 q								
	(ii) 30x1.6 mm Galvanised M.S. flats								
	10x0.42 = 4.20 m								
	Add wastage = 0.20 m								
	Total = 4.40 m								
	i.e. $4.40 \times 0.38 \text{ kg/m} = 1.67 \text{ kg or } 0.017 \text{ q}$								
	MATERIALS:								
05026	50x5 mm M.S. flats	q	0.126	₹	4,725.00	₹	595.35		
05026	30x1.6 mm Galvanised M.S. flats	q	0.017	₹	4,725.00	₹	80.33		
18169	Expansion hold fastners 6 mm dia with bolts 10x4=40 Nos	Nos	40.00	₹	13.50	₹	540.00		
05017	05 0 1 1/ // 1 1 1 40 0 00 11)		0.045						

		7		-	.,	-	
05026	30x1.6 mm Galvanised M.S. flats	q	0.017	₹	4,725.00	₹	80.33
18169	Expansion hold fastners 6 mm dia with bolts	Nos	40.00	₹	13.50	₹	540.00
	10x4=40 Nos						
05017	25x6 mm bolts (for single pipe 10x2=20 Nos.)	q	0.015	₹	5,040.00	₹	75.60
	Fabrication including applying priming coat to bat clamps in a reputed workshop (Rate is confirmed from local workshop)		10	_		_	
		Nos		₹	17.00	₹	170.00
	CARRIAGE:						
0468	M.S. Flats	t	0.0143	₹	102.47	₹	1.47
	LABOUR:						
0216	Foreman	Day	.033	₹	440.00	₹	14.52
0215	Fitter grade-1	Day	.049	₹	440.00	₹	21.56
0212	Helper	Day	.065	₹	310.00	₹	20.15
	TOTAL					₹	1,518.97
	Add for hire charges of Drill machine, dril bits etc. [L.S.]	@	1%			₹	15.19
	TOTAL					₹	1,534.16
	Add for Sundries and contingencies	@	3%			₹	46.02

TOTAL			₹	1,580.19
Add for water charges	@	1%	₹	15.80
TOTAL			₹	1,595.99
Add GST (multiplying factor)		0.1405	₹	224.24
			₹	1,820.23
Add for contractor's profit and overheads	@	15%	₹	273.03
			₹	2,093.26
Add cess	@	1%	₹	20.93
Cost for 10 (ten) nos bat clamps			₹	2,114.19
Cost for one no.			₹	211.42
Say			₹	211.40

TOTAL

Providing and fixing M.S. holder bat clamp of approved design to sand cast iron (spun) pipes comprising of M.S. flat brackets made of 50x5mm flat of specified shape, projecting 75mm outside the wall surface and fixed on wall with 4nos, 6mm dia expansion hold fasteners including drilling necessary holes in brick wall/ CC/ RCC surface and the cost of bolts etc. The pipes shall be fixed to the already fixed brackets with the help of 30mm x1.6mm galvanised M.S. flats of specified shape and of total length 420mm and shall be fixed with M.S. nuts, bolts, & washers of size 25x6mm, one bolts on each side of the pipe.

18.77.2	Total bracket length 810 mm of approved shape and design (for two 100	mm dia pip	es)				
Code	Description Details of cost for 10 nos.M.S holder bat clamp	Unit	Quantity		Rate	Amount	
	MATERIALS:						
	(a) Quantity of M.S. Flats and galvanised M.s flats for two pipe						
	(i) 50x5 mm M.S. flats						
	10x0.810 = 8.10 m						
	Add wastage = 0.40 m						
	Total = 8.50 m						
	i.e. 8.50 x 1.97 kg/m = 16.75 kg or 0.167 q						
	(ii) 30x1.6 mm Galvanised M.S. flats						
	10x 2x 0.42 = 8.40 m						
	Add wastage = 0.40 m						
	Total = 8.80 m						
	i.e. 8.80 x 0.38 kg/m = 3.344 kg or 0.033 q						
	MATERIALS:						
05026	50x5 mm M.S. flats	q	0.167	₹	4,725.00	₹	789.08
05026	30x1.6 mm Galvanised M.S. flats	q	0.033	₹	4,725.00	₹	155.93
18169	Expansion hold fastners 6 mm dia with bolts	Nos	40.00	₹	13.50	₹	540.00
	10x4=40 Nos						
05017	25x6 mm bolts (for single pipe 10x2x2= 40 Nos.)	q	0.030	₹	5,040.00	₹	151.20
	Fabrication including applying priming coat to bat clamps in a reputed workshop (Rate is confirmed from local workshop)		10				
	·	Nos		₹	22.00	₹	220.00

Add for water charges	ω	1%	₹	20.19
TOTAL			₹	2,039.22
Add GST (multiplying factor)		0.1405	₹	286.51
			₹	2,325.73
Add for contractor's profit and overheads	@	15%	₹	348.86
			₹	2,674.59
Add cess	@	1%	₹	26.75

₹

2,019.03

Cost for 10 (ten) nos bat clamps	₹	2,701.34
Cost for one no.	₹	270.13
Say	₹	270.10

Providing and fixing M.S. holder bat clamp of approved design to sand cast iron/ cast iron (spun) pipes comprising of M.S. flat brackets made of 50x5mm flat of specified shape, projecting 75mm outside the wall surface and fixed on wall with 4nos, 6mm dia expansion hold fasteners including drilling necessary holes in brick wall/ CC/ RCC surface and the cost of bolts etc. The pipes shall be fixed to the already fixed brackets with the help of 30mm x1.6mm galvanised M.S. flats of specified shape and of total length 420mm and shall be fixed with M.S. nuts, bolts, & washers of size 25x6mm, one bolts on each side of the pipe.

	fixed with M.S. nuts, boits, & washers of size 25x6mm, one boits on each	n side of th	e pipe.						
18.77.3	Total bracket length 1040 mm of approved shape and design (for three 100mm dia pipes)								
Code	Description Details of cost for 10 nos.M.S holder bat clamp	Unit	Quantity		Rate	Amount			
	MATERIALS:								
	(a) Quantity of M.S. Flats and galvanised M.s flats for three pipe								
	(i) 50x5 mm M.S. flats								
	10x 1.04 = 10.40 m								
	Add wastage = 0.50 m								
	Total = 10.90 m								
	i.e. 10.90 x 1.97 kg/m = 21.47 kg or 0.21 q								
	(ii) 30x1.6 mm Galvanised M.S. flats								
	10x 3x 0.42 = 12.60 m								
	Add wastage = 0.60 m								
	Total = 13.20 m								
	i.e. 13.20 x 0.38 kg/m = 5.02 kg or 0.05 q								
	MATERIALS:								
05026	50x5 mm M.S. flats	q	0.21	₹	4,725.00	₹	992.25		
05026	30x1.6 mm Galvanised M.S. flats	q	0.05	₹	4,725.00	₹	236.25		
18169	Expansion hold fastners 6 mm dia with bolts	Nos	40.00	₹	13.50	₹	540.00		
	10x4=40 Nos								
05017	25x6 mm bolts (for single pipe 10x3x2= 60 Nos.)	q	0.045	₹	5,040.00	₹	226.80		
	Fabrication including applying priming coat to bat clamps in a reputed workshop (Rate is confirmed from local workshop)	Nos	10	₹	25.00	₹	250.00		
	CARRIAGE:	1103		`	20.00	`	200.00		
0468	M.S. Flats	t	0.026	₹	102.47	₹	2.66		
	LABOUR:			-		-			
0216	Foreman	Day	.063	₹	440.00	₹	27.72		
0215	Fitter grade-1	Day	.095	₹	440.00		41.80		
0212	Helper	Day	.126	₹	310.00		39.06		
	TOTAL	- ,				₹	2,356.54		
	Add for hire charges of Drill machine, dril bits etc. [L.S.]	@	1%			₹	23.57		
	•	C	. 70			` ₹	2,380.11		
	TOTAL		20/			₹	71.40		
	Add for Sundries and contingencies	@	3%						
	TOTAL		40/			₹	2,451.52		
	Add for water charges	@	1%			₹	24.52		
	TOTAL		0.1405			₹	2,476.04		
	Add GST (multiplying factor)		0.1405			₹	347.88		
	Add for contractor's profit and overhoods	@	15%			₹	2,823.92		
	Add for contractor's profit and overheads	w	15%			₹	423.59		
	Add cess	@	1%			₹	3,247.51 32.48		
	Cost for 10 (ten) nos bat clamps	<u>w</u>	1 /0			₹	3,279.99		
	Cost for no (ten) nos bat damps Cost for one no.					₹	328.00		
	OSSTOLOHO HO.					=	320.00		

18.78 Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.:

Code Description Unit Quantity Rate A	mount
---------------------------------------	-------

Details of cost for one pan

Say

₹

328.00

	MATERIALS						
18186	Wall mounted water closet of size 780x370x690 mm Adjustable Vitreous China Cistern with fittings of flushing	each	1.00	₹	6,000.00	₹	6,000.00
18187	capacity 3litre/6 litre (adjustable to 4 litre/8 litre)	each	1.00	₹	1,980.00	₹	1,980.00
18062	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	1.00	₹	350.00	₹	350.00
	LABOUR						
215	Fitter (grade-I)	Day	1.00	₹	440.00	₹	440.00
219	Mason (brick layer) 1st class	Day	1.00	₹	425.00	₹	425.00
203	Beldar	Day	1.00	₹	300.00		300.00
	TOTAL					₹	9,495.00
	Add Carriage for materials and cost for overflow						
	arrangements and special for overflow pipe, Read lead, white lead ,plug, screws, Gaskin, cement, sand and	@	1%			₹	94.95
	grit for repairs and fixing, painting of fitting etc. [L.S.]						
	TOTAL					₹	9,589.95
	Add for Sundries and contingencies	@	3%			₹	287.70
	TOTAL					₹	9,877.65
	Add for water charges	@	1%			₹	98.78
	TOTAL					₹	9,976.43
	Add GST (multiplying factor)		0.1405			₹	1,401.69
						₹	11,378.12
	Add for contractor's profit and overheads	@	15%			₹	1,706.72
						₹	13,084.84
	Add cess	@	1%			₹	130.85
	Cost for 1 No.					₹	13,215.69
	Say					₹	13,215.70

18.79 Providing & fixing white vitreous china water less urinal of size 600 x 330 x 315 mm having antibacterial /germs free ceramic surface, fixed with cartridge having debris catcher and hygiene seal.

Code	Description Details of cost for one pan MATERIALS	Unit	Quantity		Rate	Am	ount
18188 18189	White Vitreous China Waterless Urinal of size 600 x 330x315 mm Cistern with fittings for Waterless Urinal	each each	1.00 1.00	₹ ₹	9,800.00 2,350.00		9,800.00 2,350.00
215 203	LABOUR Fitter (grade-I) Beldar TOTAL	Day Day	0.50 0.50	₹	440.00 300.00		220.00 150.00 12,520.00
	Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead, white lead ,plug, screws, Gaskin, cement, sand and grit for repairs and fixing, painting of fitting etc. [L.S.]	@	1%			₹	125.20
	TOTAL					₹	12,645.20
	Add for Sundries and contingencies	@	3%			₹	379.36
	TOTAL					₹	13,024.56
	Add for water charges	@	1%			₹	130.25
	TOTAL					₹	13,154.81
	Add GST (multiplying factor)		0.1405			₹	1,848.25
	Add for contractor's profit and arranhoods		4.50/			₹	15,003.06
	Add for contractor's profit and overheads	@	15%			₹	2,250.46
	Add cess		10/			₹	17,253.52
		@	1%			₹ ==	172.54
	Cost for 1 No.					₹	17,426.06
	Say					₹	17,426.10

Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.

Code	Description	Unit	Quantity		Rate	Amo	unt
	Details of cost for one pan						
	MATERIALS						
18190	Battery based infrared sensor operated White Vitreous Urinal of approx size 610 x 390 x 370 mm	each	1.00	₹	4,500.00	₹	4,500.00
	LABOUR						
215	Fitter (grade-I)	Day	0.50	₹	440.00	₹	220.00
203	Beldar	Day	0.50	₹	300.00	₹	150.00
	TOTAL					₹	4,870.00
	Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead, white lead ,plug, screws, Gaskin, cement, sand and grit for repairs and fixing, painting of fitting etc. [L.S.]	@	1%			₹	48.70
	TOTAL					₹	4,918.70
	Add for Sundries and contingencies	@	3%			₹	147.56
	TOTAL					₹	5,066.26
	Add for water charges	@	1%			₹	50.66
	TOTAL					₹	5,116.92
	Add GST (multiplying factor)		0.1405			₹	718.93
						₹	5,835.85
	Add for contractor's profit and overheads	@	15%			₹	875.38
						₹	6,711.23
	Add cess	@	1%			₹	67.11
	Cost for 1 No.					₹	6,778.34
	Say					₹	6,778.30

18.81

Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.

Code	Description	Unit	Quantity		Rate	Am	ount
	Details of cost for one pan						
	MATERIALS						
	Floor mounted white vitrous china double trap						
18191	syphonic WC with		1.00				
	10 litre cistern and all fittings & fixtures, seat			-	0.000.00	x	0.000.00
	cover etc	each		₹	9,600.00	₹	9,600.00
	LABOUR						
215	Fitter (grade-I)	Day	1.00	₹	440.00	₹	440.00
219	Mason 1st class	Day	1.00	₹	440.00	₹	440.00
203	Beldar	Day	1.00	₹	300.00	₹	300.00
	TOTAL					₹	10,780.00

Add Carriage for materials and cost for overflow arrangements and special for overflow pipe, Read lead, white lead ,plug, screws, Gaskin, cement, sand and grit for repairs and fixing, painting of fitting etc. [L.S.]	@	1%	₹	107.80
TOTAL			₹	10,887.80
Add for Sundries and contingencies	@	3%	₹	326.63
TOTAL			₹	11,214.43
Add for water charges	@	1%	₹	112.14
TOTAL			₹	11,326.57
Add GST (multiplying factor)		0.1405	₹	1,591.38
			₹	12,917.95
Add for contractor's profit and overheads	@	15%	₹	1,937.69
			₹	14,855.64
Add cess	@	1%	₹	148.56
Cost for 1 No.			₹	15,004.20
Say			₹	15,004.20

Providing and fixing on wall face unplasticised Rigid PVC rain water, soil, waste & vent pipes (working pressure 4 kg / cm2) conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion:

18.82.1 Code	Single socketed pipe - 75 mm OD Description Considering 6.0m length of PVC rain water pipe MATERIALS:	Unit	Quantity		Rate	Amount
11075	U-PVC pipes (working pressure 4 kg / sqcm.) Single socketed pipe 75 mm dia.	m	6.00	₹	70.00	R420.00
11073	U-PVC pipes (working pressure 4 kg / sqcm.) Rubber (Seal) Ring 75 mm dia. LABOUR:	each	1.00	₹	8.00	R8.00
0215	Fitter (grade 1)	Day	0.19	₹	440.00	R83.60
0213	Beldar	Day	0.17	₹	310.00	R114.70
		,				
0201	Bandhani	Day	0.08	₹	310.00	R24.80 R651.10
	Add for sundries (scaffolding, Adhesive, carriage of materials) and contingencies [LS]	@	9.00%	₹	651.10	R58.60
	Add for water charges	@	1.00%	₹	709.70	R709.70 R7.10 R716.80
	Add GST (multiplying factor)		0.1405	₹	716.80	R100.71 R817.51
	Add for overheads and contractor's profit	@	15.00%	₹	817.51	R122.63 R940.14
	Add cess	@	1.00%	₹	940.14	R9.40
	Cost of providing and fixing on wall face PVC rain water pipe of 6.00m length					R949.54
	Cost per m					R158.26
	Rate per m				Say	R158.30
18.82.2	Single socketed pipe - 110 mm OD					
Code	Description Considering 6.0m length of PVC rain water pipe	Unit	Quantity		Rate	Amount
	MATERIALS:					
11074	U-PVC pipes (working pressure 4 kg / sqcm) Single socketed pipe 110 mm dia.	m	6.00	₹	140.00	R840.00
11072	U-PVC pipes (working pressure 4 kg / sqcm.) Rubber (Seal) Ring 110 mm dia. LABOUR:	each	1.00	₹	13.00	R13.00
0215	Fitter (grade 1)	Day	0.23	₹	440.00	R101.20
0213	Beldar	Day	0.45	₹	310.00	R139.50
0203	Bandhani	Day	0.45	₹	310.00	R34.10
0201	Bananam	Day	0.11	`	310.00	R1127.80

	Add for sundries (scaffolding, Adhesive, carriage of materials) and contingencies [LS]	@	6.75%	₹	1,127.80		R76.13
	Add for water charges	@	1.00%	₹	1,203.93		R1203.93 R12.04 R1215.97
	Add GST (multiplying factor)		0.1405	₹	1,215.97		R170.84
	Add for overheads and contractor's profit	@	15.00%	₹	1,386.81		R1386.81 R208.02
	Add cess	@	1.00%	₹	1,594.83		R1594.83 R15.95
	Cost of providing and fixing on wall face PVC rain water pipe of 6.00m length				·		R1610.78
	Cost per m						R268.46
	Rate per m				Say		R268.50
18.83	Providing and fixing on wall face unplasticised Rigid PVC pipes (working pressure 6 kg / cm2) conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion:						
18.83	Single socketed pipe - 110 mm OD working pressure 6 kg						
Code	/ cm2 Discription	Unit	Quantity		Rate	Am	ount
101000	Considering 6.0m length of PVC pipe		,	-	100.00		1 000 00
181200	Pipe- 110mm OD	m	6 1	₹	180.00 14.00		1,080.00 14.00
11073	Seal ring LABOUR:	m	ı	<	14.00	<	14.00
203	Belder	Day	0.45	₹	300.00	₹	135.00
0215	Fitter	Day	0.23	₹	440.00		101.20
0212	Helper	Day	0.11	₹	310.00		34.10
	·	,				₹	1,364.30
	Add for jointing materials, carriage of pipes etc. [L.S.]	@	1%			₹	13.64
						₹	1,377.94
	Add for scaffolding	@	2%			₹	20.67
			20/			₹	1,398.61
	Add for Sundries and contingencies	@	3%			₹ ₹	41.96 1,440.57
	TOTAL Add for water charges	@	1%				·
	TOTAL	œ	1 70			₹	14.41 1,454.98
	Add GST (multiplying factor)		0.1405			₹	204.42
	, ,					₹	1,659.40
	Add for contractor's profit and overheads	@	15%			₹	248.91
						₹	1,908.31
	Add cess	@	1%			₹	19.08
	Cost of providing and fixing on wall face PVC rain water					₹	1,927.39
	pipe of 4.00m length Cost per m					₹	321.23
	Rate per m	Say				₹	321.20
	'	,					
18.84	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water, soil, waste & vent pipes pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion:						
18.84.1	Coupler						
18.84.1.1	75 mm				_		_
Code	Description Details of cost for 1 coupler	Unit	Quantity		Rate		Amount
	Details of cost for 1 coupler MATERIALS:						
11079	UPVC coupler for UPVC drainage pipes 75 mm	Each	1	₹	20.00		R20.00

11073	U-PVC pipes (working pressure 4 kg / sqcm.) Rubber (Seal) Ring 75 mm dia.	Each	2.00	₹	8.00	R16.00 R36.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	50.00%	₹	36.00	R18.00
	Add for water charges	@	1.00%	₹	54.00	R54.00 R0.54
	Add GST (multiplying factor)		0.1405	₹	54.54	R54.54 R7.66
	Add for overheads and contractor's profit	@	15.00%	₹	62.20	R62.20 R9.33 R71.53
	Add cess Cost of 1 coupler	@	1.00%	₹	71.53	R0.72 R72.25
	Cost per fitting Rate per fitting				Say	R72.25 R72.30
18.84.1.2	110 mm					
Code	Description	Unit	Quantity		Rate	Amount
	Details of cost for 1 coupler MATERIALS:					
11068	UPVC coupler for UPVC drainage pipes 110 mm	Each	1	₹	40.00	R40.00
11072	U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal)	Each	2.00	₹	13.00	R26.00
	Ring 110 mm dia.					R66.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	40.00%	₹	66.00	R26.40
	Add for water charges	@	1.00%	₹	92.40	R92.40 R0.92 R93.32
	Add GST (multiplying factor)		0.1405	₹	93.32	R13.11 R106.43
	Add for overheads and contractor's profit	@	15.00%	₹	106.43	R15.96 R122.39
	Add cess Cost of 1 coupler	@	1.00%	₹	122.39	R1.22 R123.61
						D422 64
	Cost per fitting Rate per fitting				Say	R123.61 R123.60
18.84.2 18.84.2.1	Rate per fitting Single pushfit Coupler				Say	
18.84.2 18.84.2.1 Code	Rate per fitting Single pushfit Coupler 75 mm Description	Unit	Quantity		Say Rate	
18.84.2.1	Rate per fitting Single pushfit Coupler 75 mm Description Details of cost for 1 coupler	Unit	Quantity			R123.60
18.84.2.1	Rate per fitting Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick	Unit Each	Quantity 1	₹		R123.60
18.84.2.1 Code	Rate per fitting Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS:		-	₹	Rate	R123.60 Amount R20.00 R16.00
18.84.2.1 Code 11079	Rate per fitting Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia.	Each	1		Rate 20.00	R123.60 Amount R20.00
18.84.2.1 Code 11079	Rate per fitting Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber	Each	1		Rate 20.00	R123.60 Amount R20.00 R16.00 R36.00 R18.00
18.84.2.1 Code 11079	Rate per fitting Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges)	Each Each	1 2.00	₹	Rate 20.00 8.00	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54
18.84.2.1 Code 11079	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	Each Each @	1 2.00 50.00%	₹	20.00 8.00 36.00	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00
18.84.2.1 Code 11079	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges	Each Each @	1 2.00 50.00% 1.00%	₹	20.00 8.00 36.00 54.00	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54 R54.54 R7.66
18.84.2.1 Code 11079	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 coupler	Each Each @ @	1 2.00 50.00% 1.00% 0.1405	₹₹₹	20.00 8.00 36.00 54.00 54.54	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54 R54.54 R7.66 R62.20 R9.33 R71.53 R0.72 R72.25
18.84.2.1 Code 11079	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add cess Cost of 1 coupler Cost per fitting	Each Each @ @	1 2.00 50.00% 1.00% 0.1405 15.00%	₹₹₹	20.00 8.00 36.00 54.00 54.54 62.20 71.53	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54 R54.54 R7.66 R62.20 R9.33 R71.53 R0.72 R72.25 R72.25
18.84.2.1 Code 11079 11073	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 coupler Cost per fitting Rate per fitting	Each Each @ @	1 2.00 50.00% 1.00% 0.1405 15.00%	₹₹₹	20.00 8.00 36.00 54.00 54.54 62.20	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54 R54.54 R7.66 R62.20 R9.33 R71.53 R0.72 R72.25
18.84.2.1 Code 11079 11073	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add cess Cost of 1 coupler Cost per fitting Rate per fitting	Each Each @ @ @ @	1 2.00 50.00% 1.00% 0.1405 15.00% 1.00%	₹₹₹	20.00 8.00 36.00 54.00 54.54 62.20 71.53	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54 R54.54 R7.66 R62.20 R9.33 R71.53 R0.72 R72.25 R72.25 R72.30
18.84.2.1 Code 11079 11073	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 coupler Cost per fitting Rate per fitting	Each Each @ @	1 2.00 50.00% 1.00% 0.1405 15.00%	₹₹₹	20.00 8.00 36.00 54.00 54.54 62.20 71.53	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54 R54.54 R7.66 R62.20 R9.33 R71.53 R0.72 R72.25 R72.25
18.84.2.1 Code 11079 11073	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add cess Cost of 1 coupler Cost per fitting Rate per fitting 110 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 110 mm thick	Each Each @ @ @ @	1 2.00 50.00% 1.00% 0.1405 15.00% 1.00%	₹₹₹	20.00 8.00 36.00 54.00 54.54 62.20 71.53	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54 R54.54 R7.66 R62.20 R9.33 R71.53 R0.72 R72.25 R72.25 R72.30
18.84.2.1 Code 11079 11073 18.84.2.2 Code	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add ro overheads and contractor's profit Add cess Cost of 1 coupler Cost per fitting Rate per fitting 110 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 110 mm thick U-PVC pipes (working pressure 4 kg /sq.cm) Rubber	Each Each @ @ @ Unit	1 2.00 50.00% 1.00% 0.1405 15.00% 1.00%	₹₹₹₹₹	Rate 20.00 8.00 36.00 54.00 54.54 62.20 71.53 Say Rate	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54 R54.54 R7.66 R62.20 R9.33 R71.53 R0.72 R72.25 R72.25 R72.30 Amount
18.84.2.1 Code 11079 11073 18.84.2.2 Code	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add cess Cost of 1 coupler Cost per fitting Rate per fitting 110 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 110 mm thick U-PVC pipes (working pressure 4 kg /sq.cm) Rubber (Seal) Ring 110 mm dia.	Each Each @ @ @ Unit Each	1 2.00 50.00% 1.00% 0.1405 15.00% 1.00%	₹ ₹ ₹ ₹	Rate 20.00 8.00 36.00 54.00 54.54 62.20 71.53 Say Rate 35.00	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54 R54.54 R7.66 R62.20 R9.33 R71.53 R0.72 R72.25 R72.25 R72.30 Amount R35.00
18.84.2.1 Code 11079 11073 18.84.2.2 Code	Single pushfit Coupler 75 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 75 mm thick U-PVC pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add ro overheads and contractor's profit Add cess Cost of 1 coupler Cost per fitting Rate per fitting 110 mm Description Details of cost for 1 coupler MATERIALS: UPVC pushfit coupler (single) 110 mm thick U-PVC pipes (working pressure 4 kg /sq.cm) Rubber	Each Each @ @ @ Unit Each	1 2.00 50.00% 1.00% 0.1405 15.00% 1.00%	₹ ₹ ₹ ₹	Rate 20.00 8.00 36.00 54.00 54.54 62.20 71.53 Say Rate 35.00	R123.60 Amount R20.00 R16.00 R36.00 R18.00 R54.00 R0.54 R54.54 R7.66 R62.20 R9.33 R71.53 R0.72 R72.25 R72.25 R72.25 R72.30 Amount R35.00 R26.00

						R85.40
	Add for water charges	@	1.00%	₹	85.40	R0.85 R86.25
	Add GST (multiplying factor)		0.1405	₹	86.25	R12.12 R98.37
	Add for overheads and contractor's profit	@	15.00%	₹	98.37	R14.76
	Add cess Cost of 1 coupler Cost per fitting	@	1.00%	₹	113.13	R113.13 R1.13 R114.26 R114.26 R114.30
	Rate per fitting				Say	K114.30
18.84.3 18.84.3.1	Single equal tee without door 75x75x75 mm					
Code	Description	Unit	Quantity		Rate	Amount
	Details of cost for 1 tee MATERIALS :					
11083	UPVC single equal Tee (without door) 75x75x75 mm	Each	1	₹	50.00	R50.00
11073	U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 75 mm dia.	Each	3.00	₹	8.00	R24.00 R74.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	40.00%	₹	74.00	R29.60
	Add for water charges	@	1.00%	₹	103.60	R103.60 R1.04
	Add GST (multiplying factor)		0.1405	₹	104.64	R104.64 R14.70
	Add for overheads and contractor's profit	@	15.00%	₹	119.34	R119.34 R17.90
	Add cess	@	1.00%		137.24	R137.24 R1.37
	Cost of 1 tee	w	1.00%	₹	137.24	R138.61
	Cost per fitting					R138.61
	Rate per fitting				Say	R138.60
400400	110v110v110mm					
18.84.3.2	110x110x110mm				_	_
18.84.3.2 Code	Description Details of cost for 1 tee MATERIALS:	Unit	Quantity		Rate	Amount
	Description Details of cost for 1 tee	Unit Each	Quantity 1	₹	Rate 90.00	Amount
Code 11082	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal)	Each	1		90.00	R90.00
Code	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm		_	₹		R90.00 R39.00
Code 11082	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal)	Each	1		90.00	R90.00 R39.00 R129.00 R38.70
Code 11082	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges)	Each Each	1 3.00	₹	90.00 13.00	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68
Code 11082	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	Each Each @	1 3.00 30.00%	₹	90.00 13.00 129.00	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80
Code 11082	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges	Each Each @	1 3.00 30.00% 1.00%	₹	90.00 13.00 129.00 167.70	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98
Code 11082	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor)	Each Each @	1 3.00 30.00% 1.00% 0.1405	₹₹	90.00 13.00 129.00 167.70 169.38	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22
Code 11082	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add cess Cost of 1 tee Cost per fitting	Each Each @ @	1 3.00 30.00% 1.00% 0.1405 15.00%	₹₹₹₹	90.00 13.00 129.00 167.70 169.38 193.18 222.16	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22 R224.38 R224.38
11082 11072	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 tee Cost per fitting Rate per fitting	Each Each @ @	1 3.00 30.00% 1.00% 0.1405 15.00%	₹₹₹₹	90.00 13.00 129.00 167.70 169.38 193.18	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22
11082 11072 18.84.4 18.84.4.1	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 tee Cost per fitting Rate per fitting Single equal tee with door 75x75x75 mm	Each e e e	1 3.00 30.00% 1.00% 0.1405 15.00% 1.00%	₹₹₹₹	90.00 13.00 129.00 167.70 169.38 193.18 222.16 Say	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22 R224.38 R224.38 R224.40
Code 11082 11072	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 tee Cost per fitting Rate per fitting Single equal tee with door 75x75x75 mm Description	Each Each @ @	1 3.00 30.00% 1.00% 0.1405 15.00%	₹₹₹₹	90.00 13.00 129.00 167.70 169.38 193.18 222.16	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22 R224.38 R224.38
11082 11072 18.84.4 18.84.4.1 Code	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 tee Cost per fitting Rate per fitting Single equal tee with door 75x75x75 mm Description Details of cost for 1 tee MATERIALS:	Each e e e u unit	1 3.00 30.00% 1.00% 0.1405 15.00% 1.00%	₹₹₹₹₹	90.00 13.00 129.00 167.70 169.38 193.18 222.16 Say	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22 R224.38 R224.38 R224.38 R224.40 Amount
11082 11072 18.84.4 18.84.4.1 Code	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 tee Cost per fitting Rate per fitting Single equal tee with door 75x75x75 mm Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (with door) 75x75x75 mm	Each @ @ @ Unit Each	1 3.00 30.00% 1.00% 0.1405 15.00% 1.00%	₹₹₹₹₹₹	90.00 13.00 129.00 167.70 169.38 193.18 222.16 Say Rate 65.00	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22 R224.38 R224.38 R224.38 R224.38 R224.30 RADON
11082 11072 18.84.4 18.84.4.1 Code	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 tee Cost per fitting Rate per fitting Single equal tee with door 75x75x75 mm Description Details of cost for 1 tee MATERIALS:	Each e e e u unit	1 3.00 30.00% 1.00% 0.1405 15.00% 1.00%	₹₹₹₹₹	90.00 13.00 129.00 167.70 169.38 193.18 222.16 Say	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22 R224.38 R224.38 R224.30 Amount R65.00 R24.00
11082 11072 18.84.4 18.84.4.1 Code	Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 tee Cost per fitting Single equal tee with door 75x75x75 mm Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (with door) 75x75x75 mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges)	Each @ @ @ Unit Each Each	1 3.00 30.00% 1.00% 0.1405 15.00% 1.00% Quantity 1 3.00	₹₹₹₹	90.00 13.00 129.00 167.70 169.38 193.18 222.16 Say Rate 65.00 8.00	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22 R224.38 R224.38 R224.40 Amount R65.00 R24.00 R89.00
11082 11072 18.84.4 18.84.4.1 Code	Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 tee Cost per fitting Rate per fitting Single equal tee with door 75x75x75 mm Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (with door) 75x75x75 mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 75 mm dia.	Each @ @ @ Unit Each	1 3.00 30.00% 1.00% 0.1405 15.00% 1.00%	₹₹₹₹₹₹	90.00 13.00 129.00 167.70 169.38 193.18 222.16 Say Rate 65.00	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22 R224.38 R224.38 R224.30 Amount R65.00 R24.00 R89.00 R22.25
11082 11072 18.84.4 18.84.4.1 Code	Details of cost for 1 tee MATERIALS: UPVC single equal Tee (without door) - 110x110x110mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 110 mm dia Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS] Add for water charges Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 tee Cost per fitting Single equal tee with door 75x75x75 mm Description Details of cost for 1 tee MATERIALS: UPVC single equal Tee (with door) 75x75x75 mm U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal) Ring 75 mm dia. Add for sundries (Adhesive, Carriage and fixing charges)	Each @ @ @ Unit Each Each	1 3.00 30.00% 1.00% 0.1405 15.00% 1.00% Quantity 1 3.00	₹₹₹₹	90.00 13.00 129.00 167.70 169.38 193.18 222.16 Say Rate 65.00 8.00	R90.00 R39.00 R129.00 R38.70 R167.70 R1.68 R169.38 R23.80 R193.18 R28.98 R222.16 R2.22 R224.38 R224.38 R224.40 Amount R65.00 R24.00 R89.00

	Add GST (multiplying factor) Add for overheads and contractor's profit Add cess Cost of 1 tee Cost per fitting	@	0.1405 15.00% 1.00%	₹₹	112.36 128.15 147.37	R112.36 R15.79 R128.15 R19.22 R147.37 R1.47 R148.84 R148.84
	Rate per fitting				Say	R148.80
18.84.4.2 Code	110x110x110mm Description	Unit	Quantity		Rate	Amount
Couc	Details of cost for 1 tee MATERIALS:	Omt	Quantity		Rate	Amount
11080	UPVC single equal Tee (with door) - 110x110x110mm	Each	1	₹	105.00	R105.00
11072	U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal)	Each	3.00	₹	13.00	R39.00
	Ring 110 mm dia	240	0.00	•		R144.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	20.00%	₹	144.00	R28.80
	Add for water charges	@	1.00%	₹	172.80	R172.80 R1.73
	Add GST (multiplying factor)		0.1405	₹	174.53	R174.53 R24.52
	Add for overheads and contractor's profit	@	15.00%	₹	199.05	R199.05 R29.86
	Add cess	@	1.00%	₹	228.91	R228.91 R2.29
	Cost of 1 tee Cost per fitting					R231.20 R231.20
	Rate per fitting				Say	R231.20
18.84.5	Bend 87.5°					
18.84.5.1 Code	75mm Description	Unit	Quantity		Rate	Amount
	Details of cost for 1 bend MATERIALS:		,			
11067	UPVC bend 87.5° 75 mm bend	Each	1	₹	32.00	R32.00
11073	U-PVC pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 75 mm dia.	Each	1	₹	8.00	R8.00
	-					R40.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	45.00%	₹	40.00	R18.00
	Add for water charges	@	1.00%	₹	58.00	R58.00 R0.58
	Add GST (multiplying factor)		0.1405	₹	58.58	R58.58 R8.23
						R66.81
	Add for overheads and contractor's profit	@	15.00%	₹	66.81	R10.02 R76.83
	Add cess Cost of 1 bend	@	1.00%	₹	76.83	R0.77 R77.60
	Cost per fitting				_	R77.60
	Rate per fitting				Say	R77.60
18.84.5.2 Code	110mm Description	Unit	Quantity		Rate	Amount
	Details of cost for 1 bend MATERIALS :					
11066	UPVC bend 87.5° 110 mm bend U-PVC pipes (working pressure 4 kg /sqcm) Rubber (Seal)	Each	1	₹	65.00	R65.00
11072	Ring 110 mm dia	Each	1	₹	13.00	R13.00 R78.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	35.00%	₹	78.00	R27.30
	Add for water charges	@	1.00%	₹	105.30	R105.30 R1.05
	ridd for Water on a goo					
	Add GST (multiplying factor)		0.1405	₹	106.35	R106.35 R14.94 R121.29

	Add cess Cost of 1 bend Cost per fitting Rate per fitting	@	1.00%	₹	139.48 Say	R139.48 R1.39 R140.87 R140.87 R140.90
18.84.6 18.84.6.1	Plain shoe 75mm					
Code	Description Details of cost for 1 shoe	Unit	Quantity		Rate	Amount
11077	MATERIALS:	Co ole	1		20.00	R30.00
11077	UPVC plain shoe 75 mm bend U-PVC pipes (working pressure 4 kg / sqcm) Rubber	Each Each	1 1.00	₹	30.00	R8.00
11070	(Seal) Ring 75 mm dia.	Lucii	1.00	•	0.00	R38.00
	Add for sundries (Adhesive, Carriage and fixing charges) and contingencies [LS]	@	50.00%	₹	38.00	R19.00 R57.00
	Add for water charges	@	1.00%	₹	57.00	R0.57
	Add GST (multiplying factor)		0.1405	₹	57.57	R57.57 R8.09 R65.66
	Add for overheads and contractor's profit	@	15.00%	₹	65.66	R9.85 R75.51
	Add cess Cost of 1 shoe	@	1.00%	₹	75.51	R0.76 R76.27
	Cost per fitting Rate per fitting				Say	R76.27 R76.30
18.84.6.2	110mm				-	
Code	Description Details of cost for 1 shoe MATERIALS:	Unit	Quantity		Rate	Amount
11076	UPVC plain shoe 110 mm bend	Each	1	₹	50.00	R50.00
11072	U-PVC pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 110 mm dia.	Each	1.00	₹	13.00	R13.00
	Add for sundries (Adhesive, Carriage and fixing charges)					R63.00
	and contingencies [LS]	@	40.00%	₹	63.00	R25.20 R88.20
	Add for water charges	@	1.00%	₹	88.20	R0.88
	Add GST (multiplying factor)		0.1405	₹	89.08	R89.08 R12.52
	Add for overheads and contractor's profit	@	15.00%	₹	101.60	R101.60 R15.24
	Add cess	@	1.00%	₹	116.84	R116.84 R1.17
	Cost of 1 shoe Cost per fitting					R118.01 R118.01
	Rate per fitting				Say	R118.00
18.84.7	Double equal junction of required degree without door					
18.84.7.1 Code	75x75x75 x75 mm without door Discription	Unit	Quantity		Rate	Amount
	Considering 1 No. PVC moulded fitting MATERIALS					
18192	without door- 75x75x75 x75 mm	Each	1	₹	58.00	
11073	Seal ring LABOUR:	Each	4	₹	8.00	₹ 32.00
0215	Fitter	Day	.005	₹	440.00	
0212	Helper	Day	.02	₹	310.00	₹ 6.20 ₹ 98.40
	Add for jointing materials, carriage of fitting etc. [L.S.]	@	1%			₹ 0.98
	Add for scaffolding	@	1%			₹ 99.38 ₹ 0.99

	Add for Sundries and contingencies	@	3%			₹	100.37
	TOTAL Add for water charges	@	1%			₹	103.39 1.03
	TOTAL	e	1 70			₹	104.42
	Add GST (multiplying factor)		0.1405			₹	14.67 119.09
	Add for contractor's profit and overheads	@	15%			₹	17.86
	Add cess	@	1%			₹	136.95 1.37
	Cost of providing and fixing on wall face one No. PVC moulded fitting					₹	138.32
	Cost per fitting Rate per fitting	Say				₹	138.32 138.30
18.84.7 18.84.7.2	Double equal junction of required degree without door 100x100x100 x100 mm						
Code	Discription Considering 1 No. PVC moulded fitting	Unit	Quantity		Rate	Amount	
18193	MATERIALS 100x100x100 x100 mm	Each	1	₹	85.00	₹	85.00
11072	Seal ring	Each	4	₹	13.00		52.00
0045	LABOUR:	_		_	440.00	_	0.00
0215 0212	Fitter Helper	Day Day	.005 .02	₹	440.00 310.00		2.20 6.20
0212	Пере	Day	.02	`	310.00	₹	145.40
	Add for jointing materials, carriage of fitting etc. [L.S.]	@	1%			₹	1.45 146.85
	Add for scaffolding	@	1%			₹ ₹	1.47 1.48.32
	Add for Sundries and contingencies TOTAL	@	3%			₹	4.45 152.77
	Add for water charges	@	1%			₹	1.53
	TOTAL Add GST (multiplying factor)		0.1405			₹	154.30 21.68
	Add for contractor's profit and overheads	@	15%			₹	175.98
	Add for contractor's profit and overfleads	œ.	1370			₹	26.40 202.38
	Add cess	@	1%			₹	2.02
	Cost of providing and fixing on wall face one No. PVC moulded fitting Cost per fitting					₹	204.40
	Rate per fitting	Say				₹	204.40
18.84.8 18.84.8.1	Double equal junction of required degree with door 75x75x75 x75 mm with door						
Code	Discription	Unit	Quantity		Rate	Amount	
	Considering 1 No. PVC moulded fitting MATERIALS						
18194	without door- 75x75x75 x75 mm	Each	1	₹	80.00	₹	80.00
11073	Seal ring LABOUR:	Each	4	₹	8.00	₹	32.00
0215	Fitter	Day	.005	₹	440.00		2.20
0212	Helper	Day	.02	₹	310.00	₹	6.20 120.40
	Add for jointing materials, carriage of fitting etc. [L.S.]	@	1%			₹	1.20
	Add for jointing materials, carriage or fitting etc. [L.S.]	٣	1 /0			₹	121.60
	Add for scaffolding	@	1%			₹	1.22
	Ç					₹	122.82
	Add for Sundries and contingencies	@	3%			₹	3.68

	TOTAL					₹	126.50
	Add for water charges	@	1%			₹	1.27
	TOTAL					₹	127.77
	Add GST (multiplying factor)		0.1405			₹	17.95
						₹	145.72
	Add for contractor's profit and overheads	@	15%			₹	21.86
						₹	167.58
	Add cess	@	1%			₹	1.68
	Cost of providing and fixing on wall face one No. PVC					₹	169.26
	moulded fitting Cost per fitting					₹	169.26
	Rate per fitting	Say				₹	169.30
	rate per ritting	Juy				`	107.00
18.84.8 18.84.8.2	Double equal junction of required degree with door 100x100x100 x100 mm with door						
Code	Discription Considering 1 No. PVC moulded fitting	Unit	Quantity		Rate	Amount	
10105	MATERIALS 100v100v100 v100 mm	Foob	1	*	115.00	x	115.00
18195	100x100x100 x100 mm	Each Each	1	₹	115.00 13.00		115.00 52.00
11072	Seal ring LABOUR:	Each	4	<	13.00	<	52.00
0215	Fitter	Day	.005	₹	440.00	₹	2.20
0213	Helper	Day	.003	₹	310.00		6.20
OZIZ	Holper	Day	.02	`	010.00	₹	175.40
	Add for jointing materials, carriage of fitting etc. [L.S.]	@	1%			₹	1.75
						₹	177.15
	Add for scaffolding	@	1%			₹	1.77
						₹	178.92
	Add for Sundries and contingencies	@	3%			₹	5.37
	TOTAL					₹	184.29
	Add for water charges	@	1%			₹	1.84
	TOTAL		0.1405			₹	186.13
	Add GST (multiplying factor)		0.1405			₹	26.15
	Add for contractor's profit and overheads	@	15%			₹	212.28 31.84
	Add for contractor 3 profit and overneads	•	1370			₹	244.12
	Add cess	@	1%			₹	2.44
	Cost of providing and fixing on wall face one No. PVC						
	moulded fitting					₹	246.56
	Cost per fitting					₹	246.56
	Rate per fitting	Say				₹	246.60
18.84.9 18.84.9.1 Code	Double unequal junction of required degree without 110x110x75 x 75 mm Discription	Unit	Quantity		Rate	Amount	
	Considering 1 No. PVC moulded fitting MATERIALS						
18196	110x110x75 x 75 mm	Each	1	₹	145.00	₹	145.00
11072	Seal ring	Each	4	₹	13.00	₹	52.00
	LABOUR:						
0215	Fitter	Day	.005	₹	440.00		2.20
0212	Helper	Day	.02	₹	310.00	₹	6.20 205.40
	Add for jointing materials, carriage of fitting etc. [L.S.]	@	1%			₹	2.05
						₹	207.45
	Add for scaffolding	@	1%			₹	2.07
						₹	209.52
	Add for Sundries and contingencies	@	3%			₹	6.29
	TOTAL		40/			₹	215.81
	Add for water charges	@	1%			₹	2.16

			311	. 10/ 0	ANTIAKI IIV.	JIALLATIOI	10
	TOTAL					₹	217.97
	Add GST (multiplying factor)		0.1405			₹	30.62
						₹	248.59
	Add for contractor's profit and overheads	@	15%			₹	37.29
						₹	285.88
	Add cess	@	1%			₹	2.86
	Cost of providing and fixing on wall face one No. PVC					₹	288.74
	moulded fitting						
	Cost per fitting					₹	288.74
	Rate per fitting	Say				₹	288.70
10 04 10	Double unequal junction of required degree with door						
18.84.10 18.84.10.1							
Code	Discription	Unit	Quantity		Rate	Amount	
Oode	Considering 1 No. PVC moulded fitting	Omit	Quartity		Nato	rinoant	
	MATERIALS						
18197	110x110x75 x 75 mm	Each	1	₹	175.00	₹	175.00
11072	Seal ring	Each	4	₹	13.00		52.00
11072	LABOUR:	20011		•	. 0.00	•	02.00
0215	Fitter	Day	.005	₹	440.00	₹	2.20
0212	Helper	Day	.02	₹	310.00		6.20
02.2		- 3				₹	235.40
	Add for injution marterials corriges of fitting at [I C]	@	10/			=	2.35
	Add for jointing materials, carriage of fitting etc. [L.S.]	@	1%			₹	2.33
						₹	237.75
	Add for scaffolding	@	1%			₹	2.38
						₹	240.13
	Add for Sundries and contingencies	@	3%			₹	7.20
	TOTAL					₹	247.33
	Add for water charges	@	1%			₹	2.47
	TOTAL					₹	249.80
	Add GST (multiplying factor)		0.1405			₹	35.10
	A116		450/			₹	284.90
	Add for contractor's profit and overheads	@	15%			₹	42.74
	Add cess	@	10/			₹	327.64
	Cost of providing and fixing on wall face one No. PVC	@	1%			₹	3.28
	moulded fitting					₹	330.92
	Cost per fitting					₹	330.92
	Rate per fitting	Say				₹	330.90
		,					
18.84.11	Single unequal junction of required degree without						
	door						
18.84.11.1	110x110x75 mm						
Code	Discription	Unit	Quantity		Rate	Amount	
	Considering 1 No. PVC moulded fitting						
10100	MATERIALS			_		_	
18198	110x110x75 mm	Each	1	₹	120.00		120.00
11072	Seal ring	Each	4	₹	13.00	₹	52.00
0215	LABOUR:	Day	005	x	440.00		2.20
0215	Fitter	Day	.005	₹	440.00		2.20
0212	Helper	Day	.02	₹	310.00		6.20
						₹	180.40
	Add for jointing materials, carriage of fitting etc. [L.S.]	@	1%			₹	1.80
						₹	182.20
	Add for scaffolding	@	1%			₹	1.82
	-					₹	184.02
	Add for Sundries and contingencies	@	3%			₹	5.52
	TOTAL					₹	189.54
	Add for water charges	@	1%			₹	1.90
	TOTAL					₹	191.44

	Add GST (multiplying factor)		0.1405			₹	26.90 218.34
	Add for contractor's profit and overheads	@	15%			₹	32.75
						₹	251.09
	Add cess	@	1%			₹	2.51
	Cost of providing and fixing on wall face one No. PVC moulded fitting					₹	253.60
	Cost per fitting					₹	253.60
	Rate per fitting	Say				₹	253.60
18.84.12	Single unequal junction of required degree with door						
18.84.12.1	110x110x75 mm						
Code	Discription	Unit	Quantity		Rate	Amo	ount
	Considering 1 No. PVC moulded fitting MATERIALS		,				
10100	100x100x100 x100 mm	Each	1	₹	145.00	*	145.00
18199			1	₹	13.00		52.00
11072	Seal ring LABOUR:	Each	4	<	13.00	<	52.00
0215	Fitter	Day	.005	₹	440.00	₹	2.20
0212	Helper	Day	.02	₹	310.00	₹	6.20
						₹	205.40
	Add for jointing materials, carriage of fitting etc. [L.S.]	@	1%			₹	2.05
	That for jointing materials, sarriage or mitting of the [2.0.]	C	.,,				
		_				₹	207.45
	Add for scaffolding	@	1%			₹	2.07
						₹	209.52
	Add for Sundries and contingencies	@	3%			₹	6.29
	TOTAL					₹	215.81
	Add for water charges	@	1%			₹	2.16
	TOTAL					₹	217.97
	Add GST (multiplying factor)		0.1405			₹	30.62
		_				₹	248.59
	Add for contractor's profit and overheads	@	15%			₹	37.29
	Address		4.07			₹	285.88
	Add cess	@	1%			₹	2.86
	Cost of providing and fixing on wall face one No. PVC moulded fitting					₹	288.74
	Cost per fitting					₹	288.74
	Rate per fitting	Say				₹	288.70
18.85	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water, soil, waste & vent pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing with cement mortar 1:4 (1cement: 4 fine sand) making good the wall etc. complete.						
18.85.1 Code	75mm Description	Unit	Quantity		Rate		Amount
Code	Details of cost for 5 nos. MATERIALS:	Jiiit	Quantity		Nate		, anount
11071	Unplasticised PVC pipe clips-75mm bend	Each	5	₹	15.00		R75.00
11035	Hard wood plugs	Each	10	₹	10.00		R100.00
1 1035	7x2 = 14 Nos.of size 50x50x50mm LABOUR :	Latii	10	•	10.00		13100.00
	LADOUR.	_					

0215

0220

0203

Fitter (grade 1)

contingencies [LS]

Beldar

Mason (brick layer) 2nd class

Add for sundries [cement mortar 1:4 (1Cement : 4 fine

sand), Carriage of U-PVC pipe clips etc] and

R55.00

R296.25

R155.00

R681.25

R20.44

0.125

0.75

0.50

3.00%

Day

Day

Day

₹

₹

₹

440.00

395.00

310.00

681.25

						R701.69
	Add for water charges	@	1.00%	₹	701.69	R7.02
	Add GST (multiplying factor)		0.1405	₹	708.71	R708.71 R99.57
	Add for overheads and contractor's profit	@	15.00%	₹	808.28	R808.28 R121.24
	Add cess	@	1.00%	₹	929.52	R929.52 R9.30
	Cost of providing and fixing 5 Nos. PVC clip					R938.82
	Cost per one No. clip Rate per clip				Say	R187.76 R187.80
					,	
18.85.2 Code	110mm Description	Unit	Quantity		Rate	Amount
0000	Details of cost for 5 nos. MATERIALS:	0	Quantity		rtato	7 iiii Gaint
11070	Unplasticised PVC pipe clips-110mm	Each	5	₹	17.00	R85.00
11035	Hard wood plugs 5x2 = 10 Nos.of size 50x50x50mm	Each	10	₹	10.00	R100.00
	LABOUR:					
0215	Fitter (grade 1)	Day	0.125	₹	440.00	R55.00
0220 0203	Mason (brick layer) 2nd class Beldar	Day Day	0.75 0.50	₹	395.00 310.00	R296.25 R155.00
0203	Deldai	Day	0.50	`	310.00	R691.25
	Add for sundries [cement mortar 1:4 (1Cement : 4 fine					
	sand), Carriage of U-PVC pipe clips etc] and contingencies [LS]	@	3.00%	₹	691.25	R20.74
	Add for water charges	@	1.00%	₹	711.99	R711.99 R7.12
	-					R719.11
	Add GST (multiplying factor)		0.1405	₹	719.11	R101.03 R820.14
	Add for overheads and contractor's profit	@	15.00%	₹	820.14	R123.02 R943.16
	Add cess Cost of providing and fixing 5 Nos. PVC clip	@	1.00%	₹	943.16	R9.43 R952.59
	Cost per one No. clip				Sav	R190.52
					Say	R190.52 R190.50
18.86	Cost per one No. clip Rate per clip Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than				Say	
	Cost per one No. clip Rate per clip Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete.				Say	
18.86 18.86.1 Code	Cost per one No. clip Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating	Unit	Quantity		Say	
18.86.1	Cost per one No. clip Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm	Unit Each	Quantity 1	₹		R190.50
18.86.1 Code 19114	Cost per one No. clip Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR:	Each	1		Rate 24.00	R190.50 Amount
18.86.1 Code	Cost per one No. clip Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm		_	₹₹	Rate	R190.50 Amount R24.00
18.86.1 Code 19114 0215	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper Add for sundries and contingencies in/c Carriage of	Each Day	1 0.05	₹	Rate 24.00 440.00	R190.50 Amount R24.00 R22.00 R15.50
18.86.1 Code 19114 0215	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper	Each Day Day	1 0.05 0.05	₹	Rate 24.00 440.00 310.00	R190.50 Amount R24.00 R22.00 R15.50 R61.50
18.86.1 Code 19114 0215	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper Add for sundries and contingencies in/c Carriage of	Each Day Day	1 0.05 0.05	₹	Rate 24.00 440.00 310.00	R190.50 Amount R24.00 R22.00 R15.50 R61.50 R1.85 R63.35 R0.63
18.86.1 Code 19114 0215	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper Add for sundries and contingencies in/c Carriage of material and fixing charges	Each Day Day	1 0.05 0.05 3.00%	₹	Rate 24.00 440.00 310.00 61.50	R190.50 Amount R24.00 R22.00 R15.50 R61.50 R1.85 R63.35 R0.63 R63.98 R8.99
18.86.1 Code 19114 0215	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper Add for sundries and contingencies in/c Carriage of material and fixing charges Add for water charges	Each Day Day	1 0.05 0.05 3.00% 1.00%	₹₹	Rate 24.00 440.00 310.00 61.50 63.35	R190.50 Amount R24.00 R22.00 R15.50 R61.50 R1.85 R63.35 R0.63 R63.98 R8.99 R72.97 R10.95
18.86.1 Code 19114 0215	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper Add for sundries and contingencies in/c Carriage of material and fixing charges Add for water charges Add GST (multiplying factor) Add cess Cost of providing and fixing 1 Nos. PTMT grating	Each Day Day @	1 0.05 0.05 3.00% 1.00% 0.1405	₹₹₹₹	Rate 24.00 440.00 310.00 61.50 63.35 63.98	R190.50 Amount R24.00 R22.00 R15.50 R61.50 R1.85 R63.35 R0.63 R63.98 R8.99 R72.97
18.86.1 Code 19114 0215	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper Add for sundries and contingencies in/c Carriage of material and fixing charges Add for water charges Add GST (multiplying factor) Add cess Cost of providing and fixing 1 Nos. PTMT grating Cost per one No. PTMT grating	Each Day Day @ @	1 0.05 0.05 3.00% 1.00% 0.1405 15.00%	₹₹₹₹	Rate 24.00 440.00 310.00 61.50 63.35 63.98 72.97 83.92	R190.50 Amount R24.00 R22.00 R15.50 R61.50 R1.85 R63.35 R0.63 R63.98 R8.99 R72.97 R10.95 R83.92 R0.84 R84.76 R84.76
18.86.1 Code 19114 0215	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper Add for sundries and contingencies in/c Carriage of material and fixing charges Add for water charges Add GST (multiplying factor) Add cess Cost of providing and fixing 1 Nos. PTMT grating	Each Day Day @ @	1 0.05 0.05 3.00% 1.00% 0.1405 15.00%	₹₹₹₹	Rate 24.00 440.00 310.00 61.50 63.35 63.98 72.97	R190.50 Amount R24.00 R22.00 R15.50 R61.50 R1.85 R63.35 R0.63 R63.98 R8.99 R72.97 R10.95 R83.92 R0.84 R84.76
18.86.1 Code 19114 0215	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper Add for sundries and contingencies in/c Carriage of material and fixing charges Add for water charges Add GST (multiplying factor) Add cess Cost of providing and fixing 1 Nos. PTMT grating Cost per one No. PTMT grating Rate per grating 100mm Description	Each Day Day @ @	1 0.05 0.05 3.00% 1.00% 0.1405 15.00%	₹₹₹₹	Rate 24.00 440.00 310.00 61.50 63.35 63.98 72.97 83.92	R190.50 Amount R24.00 R22.00 R15.50 R61.50 R1.85 R63.35 R0.63 R63.98 R8.99 R72.97 R10.95 R83.92 R0.84 R84.76 R84.76
18.86.1 Code 19114 0215 0212	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper Add for sundries and contingencies in/c Carriage of material and fixing charges Add for water charges Add GST (multiplying factor) Add cess Cost of providing and fixing 1 Nos. PTMT grating Cost per one No. PTMT grating Rate per grating 100mm Description Considering 1 No. PTMT grating	Each Day Day @ @ @ @	1 0.05 0.05 3.00% 1.00% 0.1405 15.00%	₹₹₹₹	Rate 24.00 440.00 310.00 61.50 63.35 63.98 72.97 83.92 Say	R190.50 Amount R24.00 R22.00 R15.50 R61.50 R1.85 R63.35 R0.63 R63.98 R8.99 R72.97 R10.95 R83.92 R0.84 R84.76 R84.76 R84.80
18.86.1 Code 19114 0215 0212	Providing and fixing to the inlet mouth of rain water, soil, waste & vent pipes pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete. 75mm Description Considering 1 No. PTMT grating MATERIALS: PTMT grating-75mm LABOUR: Fitter (grade 1) Helper Add for sundries and contingencies in/c Carriage of material and fixing charges Add for water charges Add GST (multiplying factor) Add cess Cost of providing and fixing 1 Nos. PTMT grating Cost per one No. PTMT grating Rate per grating 100mm Description	Each Day Day @ @ @ @	1 0.05 0.05 3.00% 1.00% 0.1405 15.00%	₹₹₹₹	Rate 24.00 440.00 310.00 61.50 63.35 63.98 72.97 83.92 Say	R190.50 Amount R24.00 R22.00 R15.50 R61.50 R1.85 R63.35 R0.63 R63.98 R8.99 R72.97 R10.95 R83.92 R0.84 R84.76 R84.76 R84.80

0215 0212	LABOUR : Fitter (grade 1) Helper	Day Day	0.05 0.05	₹	440.00 310.00	R22.00 R15.50 R70.50
	Add for sundries and contingencies in/c Carriage o material and fixing charges	f	3.00%	₹	70.50	R2.12
	3 · · · 3 · ·					R72.62
	Add for water charges	@	1.00%	₹	72.62	R0.73
						R73.35
	Add GST (multiplying factor)		0.1405	₹	73.35	R10.31
						R83.66
	Add for overheads and contractor's profit	@	15.00%	₹	83.66	R12.55
						R96.21
	Add cess	@	1.00%	₹	96.21	R0.96
	Cost of providing and fixing 1 Nos. PTMT grating					R97.17
	Cost per one No. PTMT grating					R97.17
	Rate per g	rating			Say	R97.20

SUB HEAD: 19.0 WATER SUPPLY

PE-AL-PE COMPOSITE PRESSURE PIPES

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80° C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes testing of joints complete as per direction of the Engineer in charge.

Internal work - Exposed on wall

19.1.1: 1216 (16 mm OD) pipe

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metre (A) MATERIALS						
19227	PE-AL-PE Composite pressure pipe 1216						
10221	(16 mm OD) pipe						
	Add 30% for fitting and wastage etc. on (A)	Metre	13.00	₹	85.00	₹	1,105.00
	(10.00 +3.00)=13.000 mtr.						•
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	1,689.10
	Add for clamps,wooden plugs, screws, cement,sand,	@	2%			₹	33.78
	grit etc. TOTAL					₹	4 722 00
	IOTAL					•	1,722.88
	Add for carriage of all materials, ladders & scaffolding etc.[L.S]	@	1%			₹	17.23
	TOTAL					₹	1,740.11
	Add for testing of joints etc.	@	2.5%			₹	43.50
	TOTAL					₹	1,783.61
	Add for Sundries and contingencies	@	3%			₹	53.51
	TOTAL					₹	1,837.12
	Add for water charges	@	1%			₹	18.37
	TOTAL					₹	1,855.49
	Add GST (multiplying factor)		0.1405			₹	260.70
						₹	2,116.19
	Add for contractor's profit and overheads	@	15%			₹	317.43
	Address		40/			₹	2,433.62
	Add cess	@	1%			₹	24.34
	Cost for 10.00 mtr pipe length					₹	2,457.96
	Rate per mtr.					₹	245.80
	Say					₹	245.80

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes testing of joints complete as per direction of the Engineer in charge.

19.1.2: Code	1620 (20 mm OD) pipe Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19228	PE-AL-PE Composit pipe 1620						
	(20 mm OD) pipe						
	Add 30% for fitting and wastage etc. on (A)	Metre	13.00	₹	105.00	₹	1,365.00
	(10.00 +3.00)=13.000 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.82	₹	355.00	₹	291.10

0203	Belder TOTAL	Day	0.66	₹	310.00	₹ ₹	204.60 2,005.90
	Add for clamps,wooden plugs, screws, cement,sand, grit etc.	@	1.5 %			₹	30.09
	TOTAL					₹	2,035.99
	Add for carriage of all materials, ladders & scaffolding etc.[L.S]	@	1%			₹	20.36
	TOTAL					₹	2,056.35
	Add for testing of joints etc.	@	2.25%			₹	46.27
	TOTAL					₹	2,102.62
	Add for Sundries and contingencies	@	3%			₹	63.08
	TOTAL					₹	2,165.69
	Add for water charges	@	1%			₹	21.66
	TOTAL					₹	2,187.35
	Add GST (multiplying factor)		0.1405			₹	307.32
						₹	2,494.67
	Add for contractor's profit and overheads	@	15%			₹	374.20
						₹	2,868.87
	Add cess	@	1%			₹	28.69
	Cost for 10.00 mtr pipe length					₹	2,897.56
	Rate per mtr.					₹	289.76
	Say					₹	289.80

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes testing of joints complete as per direction of the Engineer in charge.

	complete as per direction of the Engineer in charge.	•		,			. .
19.1.3	2025 (25 mm OD) pipe						
Code	Description (A)	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metre (A)						
40000	MATERIALS						
19229	PE-AL-PE Composit pressure pipe 2025 (25 mm OD) pipe						
	Add 30% for fitting and wastage etc. on (A)	Metre	13.00	₹	135.00	₹	1,755.00
	(10.00 +3.00)=13.000 mtr.	Mene	13.00	`	133.00	`	1,733.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.98	₹	355.00	₹	347.90
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL	•				₹	2,452.70
	Add for clamps, wooden plugs, screws, cement, sand,	@	1.2 %			₹	29.43
	grit etc.	w	1.2 /0			`	29.43
	TOTAL					₹	2,482.13
	Add for carriage of all materials, ladders & scaffolding etc.[L.S]	@	1%			₹	24.82
	TOTAL					₹	2,506.95
	Add for testing of joints etc.	@	2.10%			₹	52.65
	TOTAL					₹	2,559.60
	Add for Sundries and contingencies	@	3%			₹	76.79
	TOTAL					₹	2,636.39
	Add for water charges	@	1%			₹	26.36
	TOTAL					₹	2,662.75
	Add GST (multiplying factor)		0.1405			₹	374.12
						₹	3,036.87
	Add for contractor's profit and overheads	@	15%			₹	455.53
	Add cess	@	1%			₹	3,492.40
		@	Ι%			₹ ₹	34.92
	Cost for 10.00 mtr pipe length						3,527.32 352.73
	Rate per mtr.					₹	
	Say					₹	352.70

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes testing of joints complete as per direction of the Engineer in charge.

19.1.4	2532 (32 mm OD) pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metre (A)						
	MATERIALS						
19230	PE-AL-PE Composite pressure pipe 2532						
	(32 mm OD) pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	170.00	₹	2,210.00
	(10.00 + 3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00		145.20
0214	Fitter (2nd Class)	Day	0.98	₹	355.00	₹	347.90
0203	Belder	Day	0.98	₹	310.00	₹	303.80
	TOTAL					₹	3,006.90
	Add for clamps, wooden plugs, screws, cement, sand,	@	1.5 %			₹	45.10
	grit etc.	O	1.0 70				
	TOTAL					₹	3,052.00
	Add for carriage of all materials, ladders & scaffolding etc.[L.S]	@	1%			₹	30.52
	TOTAL					₹	3,082.52
	Add for testing of joints etc.	@	2.00%			₹	61.65
	TOTAL					₹	3,144.17
	Add for Sundries and contingencies	@	3%			₹	94.33
	TOTAL					₹	3,238.50
	Add for water charges	@	1%			₹	32.38
	TOTAL					₹	3,270.88
	Add GST (multiplying factor)		0.1405			₹	459.56
						₹	3,730.44
	Add for contractor's profit and overheads	@	15%			₹	559.57
						₹	4,290.01
	Add cess	@	1%			₹	42.90
	Cost for 10.00 mtr pipe length					₹	4,332.91
	Rate per mtr.					₹	433.29
	Say					₹	433.30

19.1 Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes testing of joints complete as per direction of the Engineer in charge.

19.1.5	3240 (40 mm OD) pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metre (A)						
	MATERIALS						
19231	PE-AL-PE Composite pressure pipe 3240						
	(40 mm OD) pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	255.00	₹	3,315.00
	(10.00 + 3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	1.31	₹	355.00	₹	465.05
0203	Belder	Day	1.31	₹	310.00	₹	406.10
	TOTAL					₹	4,331.35
	Add for clamps, wooden plugs, screws, cement, sand,	@	1.2 %			₹	F4 00
	grit etc.	w	1.2 %			<	51.98
	TOTAL					₹	4,383.33
	Add for carriage of all materials, ladders & scaffolding etc.[L.S]	@	1%			₹	43.83
	TOTAL					₹	4,427.16
	Add for testing of joints etc.	@	1.50 %			₹	66.41

TOTAL			₹	4,493.57
Add for Sundries and contingencies	@	3%	₹	134.81
TOTAL			₹	4,628.37
Add for water charges	@	1%	₹	46.28
TOTAL			₹	4,674.65
Add GST (multiplying factor)		0.1405	₹	656.79
			₹	5,331.44
Add for contractor's profit and overheads	@	15%	₹	799.72
			₹	6,131.16
Add cess	@	1%	₹	61.31
Cost for 10.00 mtr pipe length			₹	6,192.47
Rate per mtr.			₹	619.25
Say			₹	619.20

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes testing of joints complete as per direction of the Engineer in charge.

	complete as per un ection of the Engineer in charge.						
19.1.6	4050 (50 mm OD) pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metre (A)						
	MATERIALS						
19232	PE-AL-PE Composite pressure pipe 4050						
	(50 mm OD) pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	345.00	₹	4,485.00
	(10.00 + 3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	1.31	₹	355.00	₹	465.05
0203	Belder	Day	1.31	₹	310.00	₹	406.10
	TOTAL					₹	5,501.35
	Add for clamps, wooden plugs, screws, cement, sand,		0.05.0/			x	40.70
	grit etc.	@	0.85 %			₹	46.76
	TOTAL					₹	5,548.11
	Add for carriage of all materials, ladders & scaffolding etc.[L.S]	@	1%			₹	55.48
	TOTAL					₹	5,603.59
	Add for testing of joints etc.	@	1.20 %			₹	67.24
	TOTAL					₹	5,670.84
	Add for Sundries and contingencies	@	3%			₹	170.13
	TOTAL					₹	5,840.96
	Add for water charges	@	1%			₹	58.41
	TOTAL					₹	5,899.37
	Add GST (multiplying factor)		0.1405			₹	828.86
						₹	6,728.23
	Add for contractor's profit and overheads	@	15%			₹	1,009.23
						₹	7,737.46
	Add cess	@	1%			₹	77.37
	Cost for 10.00 mtr pipe length					₹	7,814.83
	Rate per mtr.					₹	781.48
	Say					₹	781.50
	•						

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work including cutting chases and making good the wall etc.

Concealed work including cutting chases and making good the wall etc.

19.2.1: 1216 (16 mm OD) pipe

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metre (A)						
19227	MATERIALS PE-AL-PE Composite pressure pipe						
13221	1216 (16 mm OD)						
	Add 75 % for fitting, clamps and wastage etc on (A)	metre	17.50	₹	85.00	₹	1,487.50
	(10.00 + 7.50)=17.50 mtr.						
	Making chases upto 7.5 x 7.5 cm. in walls and						
(D)	making good the same						
(B)	Rate as per item no. 19.78 (cutting Chasing & making good)	metre	10.00	₹	149.10	₹	1,491.00
	LABOUR	mene	10.00	•	143.10	`	1,491.00
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	3,562.60
	Add for ladders, scaffolding and carriage of all materials	@	1%			₹	35.63
	, brass inserts and engineering plastic bends etc.[L.S]					-	0.500.00
	TOTAL	_				₹	3,598.23
	Add for testing of joints etc.	@	2.50 %			₹	89.96
	TOTAL					₹	3,688.18
	Add for Sundries and contingencies (except on B)	@	3%			₹	65.92
	TOTAL Add for water charges (except on B)	@	1%			₹ ₹	3,754.10 22.63
	TOTAL	•	1 70			₹	3,776.73
	Add GST (multiplying factor)(except on B)		0.1405			₹	321.14
						₹	4,097.87
	Add 15% for contractor's profit and overheads (except on B)	@	15%			₹	391.03
	(except on b)					₹	4,488.90
	Add cess	@	1%			₹	44.89
	Cost for 10.00 mtr pipe length					₹	4,533.79
	Rate per mtr.					₹	453.38
	Say					₹	453.40

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work including cutting chases and making good the wall etc.

19.2

19.2.2: Code	1620 (20 mm OD) pipe Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19228	PE-AL-PE Composite pressure pipe 1620 (20 mm OD)						
	Add 75 % for fitting,clamps and wastage etc on (A)	metre	17.50	₹	105.00	₹	1,837.50
	(10.00 + 7.50)=17.50 mtr.						
	Making chases upto 7.5 x 7.5 cm. in walls and						
(D)	making good the same Rate as per item no. 19.78 (cutting Chasing &						
(B)	making good)	metre	10.00	₹	149.10	₹	1,491.00
	LABOUR						1, 12 1122
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	3,912.60
	Add for ladders, scaffolding and carriage of all materials , brass inserts and engineering plastic bends etc.[L.S]	@	1%			₹	39.13
	TOTAL					₹	3,951.73
	Add for testing of joints etc.	@	2.25 %			₹	88.91
	TOTAL	0	2 22/			₹	4,040.64
	Add for Sundries and contingencies (except on B)	@	3.0%			₹	76.49

TOTAL			₹	4,117.13
Add for water charges (except on B)	@	1.0%	₹	26.26
TOTAL			₹	4,143.39
Add GST (multiplying factor)(except on B)		0.1405	₹	372.66
			₹	4,516.05
Add 15% for contractor's profit and overheads (except on B)	@	15%	₹	453.76
			₹	4,969.81
Add cess	@	1%	₹	49.70
Cost for 10.00 mtr pipe length			₹	5,019.51
Rate per mtr.			₹	501.95
Say			₹	502.00

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work including cutting chases and making good the wall etc.

19.2.3: Code	2025 (25 mm OD) pipe Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19229	PE-AL-PE Composite pressure pipe 2025 (25 mm OD)						
	Add 75 % for fitting,clamps and wastage etc on (A) (10.00 + 7.50)=17.50 mtr. Making chases upto 7.5 x 7.5 cm. in walls and making good the same	metre	17.50	₹	135.00	₹	2,362.50
(B)	Rate as per item no. 19.78 (cutting Chasing &		40.00	_	440.40	_	4 404 00
	making good) LABOUR	metre	10.00	₹	149.10	₹	1,491.00
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	4,437.60
	Add for ladders, scaffolding and carriage of all materials , brass inserts and engineering plastic bends etc.[L.S]	@	1%			₹	44.38
	TOTAL					₹	4,481.98
	Add for testing of joints etc.	@	2.00 %			₹	89.64
	TOTAL Add for Sundries and contingencies (except on B) TOTAL	@	3.0%			₹ ₹	4,571.62 92.42 4,664.03
	Add for water charges (except on B) TOTAL	@	1.0%			₹ ₹	31.73 4,695.76
	Add GST (multiplying factor)(except on B)		0.1405			₹ ₹	450.27 5,146.03
	Add 15% for contractor's profit and overheads (except on B)	@	15%			₹	548.26
						₹	5,694.29
	Add cess	@	1%			₹	56.94
	Cost for 10.00 mtr pipe length					₹	5,751.23
	Rate per mtr.					₹	575.12
	Say					₹	575.10

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work including cutting chases and making good the wall etc.

18.2.4: 2532 (32 mm OD) pipe

19.2

Code Description Unit Quantity Rate Amount
Details of cost for 10.00 metre (A)

MATERIALS

	WATERIALS						
19230	PE-AL-PE Composite pressure pipe 2532 (32 mm OD)						
	Add 75 % for fitting, clamps and wastage etc on (A)	metre	17.50	₹	170.00	₹	2,975.00
	(10.00 + 7.50)=17.50 mtr.						
	Making chases upto 7.5 x 7.5 cm. in walls and						
	making good the same						
(B)	Rate as per item no. 19.78 (cutting Chasing &						
	making good the same)	metre	10.00	₹	149.10	₹	1,491.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹		₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	5,050.10
	Add for ladders, scaffolding and carriage of all materials , brass inserts and engineering plastic bends etc.[L.S]	@	1%			₹	50.50
	TOTAL					₹	5,100.60
	Add for testing of joints etc.	@	1.75 %			₹	89.26
	TOTAL					₹	5,189.86
	Add for Sundries and contingencies (except on B)	@	3.0%			₹	110.97
	TOTAL					₹	5,300.83
	Add for water charges (except on B)	@	1.0%			₹	38.10
	TOTAL					₹	5,338.93
	Add GST (multiplying factor)(except on B)		0.1405			₹	540.63
						₹	5,879.56
	Add 15% for contractor's profit and overheads	@	15%			₹	658.28
	(except on B)					₹	6,537.84
	Add cess	@	1%			₹	65.38
	Cost for 10.00 mtr pipe length					₹	6,603.22
	Rate per mtr.					₹	660.32
	rate per min					-	550.02

19.3 Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 - 2004 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80° C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows ,tees ,reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the engineer in charge.

External work

Say

19.3.1: Code	1216 (16 mm OD) pipe Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19227	PE-AL-PE Composite pressure pipe 1216 (16 mm OD) pipe						
	Add 30% for fitting and wastage etc. on (A) (10.00 + 3.00)=13.00 mtr.	Metre	13.00	₹	85.00	₹	1,105.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.08	₹	440.00	₹	35.20
0203	Belder	Day	0.16	₹	310.00	₹	49.60
	Trenching and refilling etc.						
0203	Belder	Day	0.66	₹	310.00	₹	204.60
0212	Coolie TOTAL	Day	0.66	₹	310.00	₹	204.60 1,599.00
	Add for carriage of all materials, cost of plastic bends, pipe inserts etc.[L.S]	@	1%			₹	15.99
	TOTAL					₹	1,614.99
	Add for testing of joints etc.	@	2.5%			₹	40.37
	TOTAL					₹	1,655.36
	Add for Sundries and contingencies	@	3.0%			₹	49.66
	TOTAL					₹	1,705.03
	Add for water charges	@	1.0%			₹	17.05
	TOTAL					₹	1,722.08
	Add GST (multiplying factor)		0.1405			₹	241.95
						₹	1,964.03

660.30

Add 15% for contractor's profit and overheads	@	15%	₹	294.60
			₹	2,258.63
Add cess	@	1%	₹	22.59
Cost for 10.00 mtr pipe length			₹	2,281.22
Rate per mtr.			₹	228.12
Say			₹	228.10

19.3 Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 - 2004 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows ,tees ,reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the engineer in charge.

19.3.2 Code	1620 (20 mm OD) pipe Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19228	PE-AL-PE Composite pressure pipe 1620						
	(20 mm OD) pipe		40.00	-	40= 00	-	4 00= 00
	Add 30% for fitting and wastage etc. on (A)	Metre	13.00	₹	105.00	₹	1,365.00
	(10.00 + 3.00)=13.00 mtr. LABOUR						
0215		Dov	0.08	₹	440.00	=	35.20
0215 0203	Fitter (grade-1) Belder	Day	0.08	₹		₹	49.60
0203	Trenching and refilling etc.	Day	0.16	•	310.00	•	49.60
0203	Belder	Day	0.66	₹	310.00	₹	204.60
0203	Coolie	Day	0.66	₹	310.00	₹	204.60
0212	TOTAL	Day	0.00	`	310.00	₹	1,859.00
	Add for carriage of all materials, cost of plastic bends, pipe	_					
	inserts etc.[L.S]	@	1%			₹	18.59
	TOTAL					₹	1,877.59
	Add for testing of joints etc.	@	2.0%			₹	37.55
	TOTAL					₹	1,915.14
	Add for Sundries and contingencies	@	3.0%			₹	57.45
	TOTAL					₹	1,972.60
	Add for water charges	@	1.0%			₹	19.73
	TOTAL					₹	1,992.32
	Add GST (multiplying factor)		0.1405			₹	279.92
						₹	2,272.24
	Add 15% for contractor's profit and overheads	@	15%			₹	340.84
						₹	2,613.08
	Add cess	@	1%			₹	26.13
	Cost for 10.00 mtr pipe length					₹	2,639.21
	Rate per mtr.					₹	263.92
	Say					₹	263.90

19.3 Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 - 2004 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows ,tees ,reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the engineer in charge.

19.3.3.	2025 (25 mm OD) pipe.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metre (A)						
	MATERIALS						
19229	PE-AL-PE Composite pressure pipe 2025						
	(25 mm OD) pipe						
	Add 30% for fitting and wastage etc. on (A)	Metre	13.00	₹	135.00	₹	1,755.00
	(10.00 + 3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.08	₹	440.00	₹	35.20
0203	Belder	Day	0.16	₹	310.00	₹	49.60
	Trenching and refilling etc.						
0203	Belder	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60

TOTAL			₹	2,249.00
Add for carriage of all materials, cost of plastic bends, pipe inserts etc.[L.S]	@	1%	₹	22.49
TOTAL			₹	2,271.49
Add for testing of joints etc.	@	1.75%	₹	39.75
TOTAL			₹	2,311.24
Add for Sundries and contingencies	@	3%	₹	69.34
TOTAL			₹	2,380.58
Add for water charges	@	1%	₹	23.81
TOTAL			₹	2,404.38
Add GST (multiplying factor)		0.1405	₹	337.82
			₹	2,742.20
Add 15% for contractor's profit and overheads	@	15%	₹	411.33
			₹	3,153.53
Add cess	@	1%	₹	31.54
Cost for 10.00 mtr pipe length			₹	3,185.07
Rate per mtr.			₹	318.51
Say			₹	318.50

19.3 Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 - 2004 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows ,tees ,reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the engineer in charge.

19.3.4: Code	2532 (32 mm OD) pipe. Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19230	PE-AL-PE Composite pressure pipe 2532						
	(32 mm OD) pipe						
	Add 30% for fitting and wastage etc. on (A)	Metre	13.00	₹	170.00	₹	2,210.00
	(10.00 + 3.00) = 13.00 mtr.						
	LABOUR	_		_		_	
0215	Fitter (grade-1)	Day	0.08	₹	440.00		35.20
0203	Belder	Day	0.16	₹	310.00	₹	49.60
0000	Trenching and refilling etc.	5	0.00	-	040.00	-	004.00
0203	Belder	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹ ₹	204.60
	TOTAL					₹	2,704.00
	Add for carriage of all materials, cost of plastic bends, pipe inserts etc.[L.S]	@	1%			₹	27.04
	TOTAL					₹	2,731.04
			0.004				
	Add for testing of joints etc.	@	2.0%			₹	54.62
	TOTAL					₹	2,785.66
	Add for Sundries and contingencies	@	3.0%			₹	83.57
	TOTAL					₹	2,869.23
	Add for water charges	@	1.0%			₹	28.69
	TOTAL					₹	2,897.92
	Add GST (multiplying factor)		0.1405			₹	407.16
	A 11450/ f		450/			₹	3,305.08
	Add 15% for contractor's profit and overheads	@	15%			₹	495.76
	A.1.		4.07			₹	3,800.85
	Add cess	@	1%			₹	38.01
	Cost for 10.00 mtr pipe length					₹	3,838.86
	Rate per mtr.					₹	383.89
	Say					₹	383.90

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 - 2004 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows ,tees ,reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the engineer in charge.

19.3.5: 3240 (40 mm OD) pipe.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metre (A)						
	MATERIALS						
19231	PE-AL-PE Composite pressure pipe 3240						
	(40 mm OD) pipe			_		_	
	Add 30% for fitting and wastage etc. on (A)	Metre	13.00	₹	255.00	₹	3,315.00
	(10.00 + 3.00)=13.00 mtr.						
0045	LABOUR	_		-	4.40.00	-	0= 00
0215	Fitter (grade-1)	Day	0.08	₹		₹	35.20
0203	Belder	Day	0.16	₹	310.00	₹	49.60
0000	Trenching and refilling etc.	D	0.00	-	040.00	-	004.00
0203	Belder	Day	0.66	₹	310.00	₹	204.60
0212	Coolie TOTAL	Day	0.66	<	310.00	₹ ₹	204.60
						<	3,809.00
	Add for carriage of all materials, cost of plastic bends, pipe	@	1%			₹	38.09
	inserts etc.[L.S] TOTAL					₹	3,847.09
		8	4.500/				•
	Add for testing of joints etc.	@	1.50%			₹	57.71
	TOTAL					₹	3,904.80
	Add for Sundries and contingencies	@	3.0%			₹	117.14
	TOTAL					₹	4,021.94
	Add for water charges	@	1.0%			₹	40.22
	TOTAL					₹	4,062.16
	Add GST (multiplying factor)		0.1405			₹	570.73
			4=0/			₹	4,632.89
	Add 15% for contractor's profit and overheads	@	15%			₹	694.93
						₹	5,327.82
	Add cess	@	1%			₹	53.28
	Cost for 10.00 mtr pipe length					₹	5,381.10
	Rate per mtr.					₹	538.11
	Say					₹	538.10

Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 - 2004 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 800 C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows ,tees ,reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the engineer in charge.

19.3.6: Code	4050 (50 mm OD) pipe. Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19232	PE-AL-PE Composite pressure pipe 4050 (50 mm OD) pipe Add 30% for fitting and wastage etc. on (A) (10.00 + 3.00)=13.00 mtr.	Metre	13.00	₹	345.00	₹	4,485.00
0215	Fitter (grade-1)	Day	0.08	₹	440.00	₹	35.20
0203	Belder	Day	0.16	₹	310.00	₹	49.60
	Trenching and refilling etc.			-		-	
0203	Belder	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL	,				₹	4,979.00
	Add for carriage of all materials, cost of plastic bends, pipe inserts etc.[L.S]	@	1%			₹	49.79
	TOTAL					₹	5,028.79
	Add for testing of joints etc.	@	1.25%			₹	62.86
	TOTAL Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	5,091.65 152.75 5,244.40
	Add for water charges TOTAL	@	1.0%			₹ ₹	52.44 5,296.84
	Add GST (multiplying factor)		0.1405			₹	744.21
						₹	6,041.05
	Add 15% for contractor's profit and overheads	@	15%			₹	906.16
	•					₹	6,947.21

Add cess	@	1%	₹	69.47
Cost for 10.00 mtr pipe length			₹	7,016.68
Rate per mtr.			₹	701.67
Say			₹	701.70

PP - R PIPES

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer in Charge.

Internal work - Exposed on wall

19.4.1 Code	PN-16 Pipe, 16 mm OD Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19233	3 layer PP-R pipe (PN-16/SDR 7.4) 16 mm outer dia						
	Add 30 % for fitting and wastage etc. on (A) (10.00 +3.00)=13.00 mtr.	Metre	13.00	₹	36.00	₹	468.00
0045	LABOUR	D	0.00	-	440.00	x	4.45.00
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214 0203	Fitter (2nd Class) Belder	Day Day	0.82 0.66	₹	355.00 310.00	₹	291.10 204.60
0203	TOTAL	Day	0.00	•	310.00	₹	1,108.90
	Add for clamps,wooden plugs,screws,cement,sand & grit etc.	@	4.00%			₹	44.36
	TOTAL					₹	1,153.26
	Add for carriage of all materials & scaffolding ladders etc.[L.S]	@	1%			₹	11.53
	TOTAL					₹	1,164.79
	Add for testing of joints etc.	@	4.0%			₹	46.59
	TOTAL					₹	1,211.38
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	36.34 1,247.72
	Add for water charges	@	1.0%			₹	12.48
	TOTAL					₹	1,260.20
	Add GST (multiplying factor)		0.1405			₹	177.06
						₹	1,437.26
	Add 15% for contractor's profit and overheads	@	15%			₹	215.59
		_				₹	1,652.85
	Add cess	@	1%			₹	16.53
	Cost for 10.00 mtr pipe length					₹	1,669.38
	Rate per mtr.					₹	166.94
	Say					₹	166.90

19.4.2 Code	PN-16 Pipe, 20 mm OD Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19234	3 layer PP-R pipe (PN-16/SDR 7.4) 20 mm outer dia						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	56.00	₹	728.00
	(10.00 +3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.82	₹	355.00	₹	291.10
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	1,368.90
	Add for clamps,wooden plugs,screws,cement,sand & grit etc.	@	3.00%			₹	41.07

TOTAL			₹	1,409.97
Add for carriage of all materials & scaffolding ladders etc.[L.S]	@	1%	₹	14.10
TOTAL			₹	1,424.07
Add for testing of joints etc.	@	3.0%	₹	42.72
TOTAL			₹	1,466.79
Add for Sundries and contingencies	@	3.0%	₹	44.00
TOTAL			₹	1,510.79
Add for water charges	@	1.0%	₹	15.11
TOTAL			₹	1,525.90
Add GST (multiplying factor)		0.1405	₹	214.39
			₹	1,740.29
Add 15% for contractor's profit and overheads	@	15%	₹	261.04
			₹	2,001.33
Add cess	@	1%	₹	20.01
Cost for 10.00 mtr pipe length			₹	2,021.34
Rate per mtr.			₹	202.13
Say			₹	202.10

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer in Charge.

19.4.3 Code	PN-16 Pipe, 25 mm OD Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19235	3 layer PP-R pipe (PN-16/SDR 7.4) 25 mm outer dia Add 30 % for fitting and wastage etc. on (A) (10.00 +3.00)=13.00 mtr. LABOUR	Metre	13.00	₹	72.00	₹	936.00
0215 0214 0203	Fitter (grade-1) Fitter (2nd Class) Belder TOTAL	Day Day Day	0.33 0.98 0.66	₹ ₹	440.00 355.00 310.00	₹ ₹ ₹	145.20 347.90 204.60 1,633.70
	Add for clamps,wooden plugs,screws,cement,sand & grit etc. TOTAL	@	2.50%			₹ ₹	40.84 1,674.54
	Add for carriage of all materials & scaffolding ladders etc.[L.S]	@	1%			₹	16.75 1,691.29
	Add for testing of joints etc.	@	2.50%			₹	42.28
	TOTAL Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	1,733.57 52.01 1,785.58
	Add for water charges TOTAL	@	1.0%			₹ ₹	17.86 1,803.43
	Add GST (multiplying factor)		0.1405			₹	253.38 2,056.81
	Add 15% for contractor's profit and overheads	@	15%			₹ ₹	308.52 2,365.33
	Add cess	@	1%			₹	23.65
	Cost for 10.00 mtr pipe length					₹	2,388.98 238.90
	Rate per mtr. Say					₹	238.90

19.4 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer in Charge.

19.4.4 PN-16 Pipe, 32 mm OD

Code Description Unit Quantity Rate Amount Details of cost for 10.00 metre (A)

19236	MATERIALS 3 layer PP-R pipe (PN-16/SDR 7.4) 32 mm outer dia						
10200	Add 20 % for fitting and wastage etc. on (A)	Metre	12.00	₹	110.00	₹	1,320.00
	(10.00 + 2.0) = 12.0 mtr.						,
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.98	₹	355.00	₹	347.90
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	2,017.70
	Add for clamps,wooden plugs,screws,cement,sand & grit etc.	@	2.00%			₹	40.35
	TOTAL					₹	2,058.05
	Add for carriage of all materials & scaffolding ladders etc.[L.S]	@	1%			₹	20.58
	TOTAL					₹	2,078.63
	Add for testing of joints etc.	@	2.50%			₹	51.97
	TOTAL					₹	2,130.60
	Add for Sundries and contingencies	@	3.0%			₹	63.92
	TOTAL					₹	2,194.52
	Add for water charges	@	1.0%			₹	21.95
	TOTAL					₹	2,216.46
	Add GST (multiplying factor)		0.1405			₹	311.41
	A 11.4=0/.6		450/			₹	2,527.87
	Add 15% for contractor's profit and overheads	@	15%			₹	379.18
						₹	2,907.05
	Add cess	@	1%			₹	29.07
	Cost for 10.00 mtr pipe length					₹	2,936.12
	Rate per mtr.					₹	293.61

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer in Charge.

Say

19.4.5	PN-16 Pipe, 40 mm OD						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metre (A)						
19237	MATERIALS 3 layer PP-R pipe (PN-16/SDR 7.4) 40 mm outer dia						
19231	Add 15 % for fitting and wastage etc. on (A)	Metre	11.50	₹	164.00	=	1,886.00
	(10.00 + 1.50)=11.50 mtr.	Metre	11.50	`	104.00	`	1,000.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	1.31	₹	355.00	₹	465.05
0203	Belder	Day	1.31	₹	310.00	₹	406.10
	TOTAL	,		-		₹	2,902.35
	Add for clamps,wooden plugs,screws,cement,sand & grit etc.	@	1.50%			₹	43.54
	TOTAL					₹	2,945.89
	Add for carriage of all materials & scaffolding ladders etc.[L.S]	@	1%			₹	29.46
	TOTAL					₹	2,975.34
	Add for testing of joints etc.	@	2.00%			₹	59.51
	TOTAL					₹	3,034.85
	Add for Sundries and contingencies	@	3.0%			₹	91.05
	TOTAL					₹	3,125.90
	Add for water charges	@	1.0%			₹	31.26
	TOTAL					₹	3,157.16
	Add GST (multiplying factor)		0.1405			₹	443.58
	A 11.450/ 6		450/			₹	3,600.74
	Add 15% for contractor's profit and overheads	@	15%			₹	540.11
			-0.			₹	4,140.85
	Add cess	@	1%			₹	41.41
	Cost for 10.00 mtr pipe length					₹	4,182.26

Rate per mtr. ₹ 418.23 Say ₹ 418.20

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer in Charge.

19.4.6 Code	PN-16 Pipe, 50 mm OD Description Details of cost for 10.00 metre (A)	Unit	Quantity		Rate		Amount
	MATERIALS						
19238	3 layer PP-R pipe (PN-16/SDR 7.4) 50 mm outer dia						
	Add 15 % for fitting and wastage etc. on (A)	Metre	11.50	₹	255.00	₹	2,932.50
	(10.00 + 1.50)=11.50 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	1.31	₹	355.00	₹	465.05
0203	Belder	Day	1.31	₹	310.00	₹	406.10
	TOTAL					₹	3,948.85
	Add for clamps,wooden plugs,screws,cement,sand & grit etc.	@	1.20%			₹	47.39
	TOTAL					₹	3,996.24
	Add for carriage of all materials & scaffolding ladders etc.[L.S]	@	1%			₹	39.96
	TOTAL					₹	4,036.20
	Add for testing of joints etc.	@	1.50%			₹	60.54
	TOTAL					₹	4,096.74
	Add for Sundries and contingencies	@	3.0%			₹	122.90
	TOTAL					₹	4,219.64
	Add for water charges	@	1.0%			₹	42.20
	TOTAL					₹	4,261.84
	Add GST (multiplying factor)		0.1405			₹	598.79
	A 11.4-70/ 6		450/			₹	4,860.63
	Add 15% for contractor's profit and overheads	@	15%			₹	729.09
	A.1.		4.07			₹	5,589.72
	Add cess	@	1%			₹	55.90
	Cost for 10.00 mtr pipe length					₹	5,645.62
	Rate per mtr.					₹	564.56
	Say					₹	564.60

19.5

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 U V stabilized & antimicrobial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.

Concealed work including cutting chases and making good the walls etc.

19.5.1	PN- 16 Pipe, 16 mm OD [SDR 7.4]								
Code	Description		Unit	Q	uantity		Rate		
	Details of cost for 10.00 metre (A)								
	MATERIALS								
19233	3 layer PP-R pipe (PN-16/SDR 7.4) 16 mm								
	Add 75 % for fitting and wastage etc. on (A)	Metre	17.50	₹	36.00	₹	630.00		
	(10.00 + 7.50)=17.50 mtr.								
	Making chase upto 7.5 x 7.5 cm. in walls and making								
	good the same								
(B)	Rate as per item no. 19.78 (cutting Chasing &								
	making good the same)	metre	10.00	₹	149.10	₹	1,491.00		
	LABOUR								
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20		
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30		
0203	Belder	Day	0.66	₹	310.00	₹	204.60		

TOTAL			₹	2,705.10
Add for carriage of all materials & scaffolding ladders etc. [L.S]	@	1%	₹	27.05
TOTAL			₹	2,732.15
Add for testing of joints etc.	@	3.50%	₹	95.63
TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B)	@ @	3.0% 1.0%	₹ ₹ ₹	2,827.78 40.10 2,867.88 13.77
TOTAL Add GST (multiplying factor)(except on B)		0.1405	₹ ₹	2,881.65 195.39 3,077.04
Add 15% for contractor's profit and overheads (except on B)	@	15%	₹ ₹	237.91 3,314.94
Add cess (except on B) Cost for 10.00 mtr pipe length Rate per mtr. Say	@	1%	₹ ₹ ₹	18.24 3,333.18 333.32 333.30

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.

19.5.2 Code	PN- 16 Pipe, 20 mm OD [SDR 7.4] Description Details of cost for 10.00 metre (A) MATERIALS		Unit	Qı	uantity		Rate
19234	3 layer PP-R pipe (PN-16/SDR 7.4) 20 mm Add 75 % for fitting and wastage etc. on (A)	Metre	17.50	₹	56.00	₹	980.00
	(10.00 + 7.50)=17.50 mtr. Making chase upto 7.5 x 7.5 cm. in walls and making good the same						
(B)	Rate as per item no. 19.78 (cutting Chasing &		40.00	a	140.40	a	4 404 00
	making good the same) LABOUR	metre	10.00	₹	149.10	<	1,491.00
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	3,055.10
	Add for carriage of all materials & scaffolding ladders etc. [L.S]	@	1%			₹	30.55
	TOTAL					₹	3,085.65
	Add for testing of joints etc.	@	3.50%			₹	108.00
	TOTAL Add for Sundries and contingencies (except on B)	@	3.0%			₹ ₹	3,193.65 51.08
	TOTAL Add for water charges (except on B) TOTAL	@	1.0%			₹ ₹	3,244.73 17.54 3,262.27
	Add GST (multiplying factor)(except on B)		0.1405			₹	248.86 3,511.13
	Add 15% for contractor's profit and overheads (except on B)	@	15%			₹	303.02
						₹	3,814.14
	Add cess (except on B)	@	1%			₹	23.23
	Cost for 10.00 mtr pipe length					₹	3,837.38
	Rate per mtr.					₹	383.74
	Say					₹	383.70

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.

19.5.3 Code	PN- 16 Pipe, 25 mm OD [SDR 7.4] Description Details of cost for 10.00 metre (A) MATERIALS		Unit	Q	uantity		Rate
19235	3 layer PP-R pipe (PN-16/SDR 7.4) 25 mm						
	Add 75 % for fitting and wastage etc. on (A)	Metre	17.50	₹	72.00	₹	1,260.00
	(10.00 + 7.50) = 17.50 mtr.						
	Making chase upto 7.5 x 7.5 cm. in walls and making						
	good the same						
(B)	Rate as per item no. 19.78 (cutting Chasing &						
	making good the same)	metre	10.00	₹	149.10	₹	1,491.00
0045	LABOUR	ь.	0.00	-	4.40.00	-	4.45.00
0215	Fitter (grade-1)	Day	0.33	₹		₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	<	310.00	₹	204.60
	TOTAL					₹	3,335.10
	Add for carriage of all materials & scaffolding ladders etc. [L.S]	@	1%			₹	33.35
	TOTAL					₹	3,368.45
	Add for testing of joints etc.	@	2.50%			₹	84.21
	TOTAL					₹	3,452.66
	Add for Sundries and contingencies (except on B)	@	3.0%			₹	58.85
	TOTAL					₹	3,511.51
	Add for water charges (except on B)	@	1.0%			₹	20.21
	TOTAL		0.4.05			₹	3,531.72
	Add GST (multiplying factor)(except on B)		0.1405			₹	286.72
	A 11.4-70/ 6					₹	3,818.44
	Add 15% for contractor's profit and overheads (except on B)	@	15%			₹	349.12
						₹	4,167.55
	Add cess (except on B)	@	1%			₹	26.77
	Cost for 10.00 mtr pipe length					₹	4,194.32
	Rate per mtr.					₹	419.43
	Say					₹	419.40

19.5

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.

19.5.4 Code	PN- 16 Pipe, 32 mm OD [SDR 7.4] Description Details of cost for 10.00 metre (A) MATERIALS		Unit	C	Quantity		Rate
19236	3 layer PP-R pipe (PN-16/SDR 7.4) 32 mm Add 50 % for fitting and wastage etc. on (A)	Metre	15.00	₹	110.00	₹	1,650.00
	(10.00 + 5.0)=15.0 mtr.			-		-	1,000100
	Making chase upto 7.5 x 7.5 cm. in walls and making good the same						
(B)	Rate as per item no. 19.78 (cutting Chasing &						
	making good the same)	metre	10.00	₹	149.10	₹	1,491.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	3,725.10
	Add for carriage of all materials & scaffolding ladders etc. [L.S]	@	1%			₹	37.25
	TOTAL					₹	3,762.35

Add for testing of joints etc.	@	2.0%	₹	75.25
TOTAL			₹	3,837.60
Add for Sundries and contingencies (except on B)	@	3.0%	₹	70.40
TOTAL			₹	3,908.00
Add for water charges (except on B)	@	1.0%	₹	24.17
TOTAL			₹	3,932.17
Add GST (multiplying factor)(except on B)		0.1405	₹	342.98
			₹	4,275.15
Add 15% for contractor's profit and overheads (except on B)	@	15%	₹	417.62
,			₹	4,692.77
Add cess (except on B)	@	1%	₹	32.02
Cost for 10.00 mtr pipe length			₹	4,724.79
Rate per mtr.			₹	472.48
Say			₹	472.50

19.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, U V stabilized & antimicrobial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings including trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

External work

19.6.1: PN-16 Pipe, 16 mm OD (SDR 7.4)

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre(A)						
	MATERIALS						
19233	3 layer PP-R pipe (PN-16/SDR 7.4) 16 mm Outer dia						
	Add 20 % for fitting and wastage etc. on (A)	Metre	12.00	₹	36.00	₹	432.00
	(10.00 + 2.0)=12.00 mtr.						
0045	LABOUR	5	0.00	-	440.00	-	05.00
0215	Fitter (grade-1)	Day	0.08	₹	440.00	₹	35.20
0203	Belder	Day	0.16	₹	310.00	₹	49.60
0202	for excavation & refilling etc.	Dov	0.66	₹	310.00	₹	204.60
0203 0212	Belder Coolie	Day Day	0.66 0.66	₹	310.00	₹	204.60
0212	TOTAL	Day	0.00	•	310.00	₹	926.00
	Add for carriage of all materials, cost of plastic bends, pipe					•	920.00
	inserts etc. [L.S]	@	1%			₹	9.26
	TOTAL					₹	935.26
	Add for testing of joints etc.	@	7.0 %			₹	65.47
	TOTAL					₹	1,000.73
	Add for Sundries and contingencies	@	3.0%			₹	30.02
	TOTAL					₹	1,030.75
	Add for water charges	@	1.0%			₹	10.31
	TOTAL					₹	1,041.06
	Add GST (multiplying factor)		0.1405			₹	146.27
						₹	1,187.33
	Add 15% for contractor's profit and overheads	@	15%			₹	178.10
						₹	1,365.43
	Add cess	@	1%			₹	13.65
	Cost for 10.00 mtr pipe length					₹	1,379.08
	Rate per mtr.					₹	137.91
	Say					₹	137.90

19.6

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings including trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.6.2: PN-16 Pipe, 20 mm OD (SDR 7.4)

Code Description Unit Quantity Rate Amount

Details of cost for 10 metre(A)

MATERIALS

19234	3 layer PP-R pipe (PN-16/SDR 7.4) 20 mm Outer dia						
	Add 20 % for fitting and wastage etc. on (A)	Metre	12.00	₹	56.00	₹	672.00
	(10.00 + 2.0) = 12.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.08	₹	440.00	₹	35.20
0203	Belder	Day	0.16	₹	310.00	₹	49.60
	for excavation & refilling etc.						
0203	Belder	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	1,166.00
	Add for carriage of all materials, cost of plastic bends, pipe	@	1%			₹	11.66
	inserts etc. [L.S]	O	170				
	TOTAL					₹	1,177.66
	Add for testing of joints etc.	@	6.0 %			₹	70.66
	TOTAL					₹	1,248.32
	Add for Sundries and contingencies	@	3.0%			₹	37.45
	TOTAL					₹	1,285.77
	Add for water charges	@	1.0%			₹	12.86
	TOTAL					₹	1,298.63
	Add GST (multiplying factor)		0.1405			₹	182.46
						₹	1,481.09
	Add 15% for contractor's profit and overheads	@	15%			₹	222.16
						₹	1,703.25
	Add cess	@	1%			₹	17.03
	Cost for 10.00 mtr pipe length					₹	1,720.28
	Rate per mtr.					₹	172.03
	Say					₹	172.00

	Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
	3 layer PP-R pipe (PN-16/SDR 7.4) 25 mm Outer dia						
	Add 20 % for fitting and wastage etc. on (A)	Metre	12.00	₹	72.00	₹	864.00
	(10.00 + 2.0)=12.00 mtr.						
	LABOUR	_		_		_	
	Fitter (grade-1)	Day	0.12	₹		₹	52.80
0203	Belder	Day	0.25	₹	310.00	₹	77.50
	for excavation & refilling etc.	_		_		_	
	Belder	Day	0.66	₹	310.00	₹	204.60
	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	1,403.50
	Add for carriage of all materials, cost of plastic bends, pipe	@	1%			₹	14.04
	inserts etc. [L.S]	•	.,,				
	TOTAL					₹	1,417.54
	Add for testing of joints etc.	@	5.0 %			₹	70.88
	TOTAL					₹	1,488.41
	Add for Sundries and contingencies	@	3.0%			₹	44.65
	TOTAL					₹	1,533.06
	Add for water charges	@	1.0%			₹	15.33
	TOTAL					₹	1,548.39
	Add GST (multiplying factor)		0.1405			₹	217.55
						₹	1,765.94
	Add 15% for contractor's profit and overheads	@	15%			₹	264.89
						₹	2,030.84
	Add cess	@	1%			₹	20.31
	Cost for 10.00 mtr pipe length					₹	2,051.15
	Rate per mtr.					₹	205.11
	Say					₹	205.10

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings including trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19236 3 layer PP-R pipe (PN-16/SDR 7.4) 32 mm Outer dia Add 20 % for fitting and wastage etc. on (A) Metre 12.00 ₹ 110.00 ₹ 1,320.00 (10.00 + 2.0)=12.00 mtr. LABOUR	19.6.4 : Code	PN-16 Pipe, 32 mm OD (SDR 7.4) Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
Continue	19236	, , , ,						
LABOUR 0215 Fitter (grade-1) Day 0.12 ₹ 440.00 ₹ 52.80 0203 Belder for excavation & refilling etc. Day 0.25 ₹ 310.00 ₹ 77.50 0203 Belder Day 0.66 ₹ 310.00 ₹ 204.60 0212 Coolie Day 0.66 ₹ 310.00 ₹ 204.60 TOTAL ₹ 1,859.50 Add for carriage of all materials, cost of plastic bends, pipe inserts etc. [L.S] ₹ 1,859.50 TOTAL ₹ 1,878.10 Add for testing of joints etc. ② 4.0% ₹ 75.12 TOTAL ₹ 1,953.22 Add for Sundries and contingencies ② 3.0% ₹ 58.60 TOTAL ₹ 2,011.82 Add for water charges ② 1.0% ₹ 2,011.82 TOTAL ₹ 2,011.82 Add GST (multiplying factor) 0.1405 ₹ 2,317.42 Add 15% for contractor's profit and overheads ② 15% <th></th> <th>3 3 17</th> <th>Metre</th> <th>12.00</th> <th>₹</th> <th>110.00</th> <th>₹</th> <th>1,320.00</th>		3 3 17	Metre	12.00	₹	110.00	₹	1,320.00
0215 Fitter (grade-1) Day 0.12 ₹ 440.00 ₹ 52.80 0203 Belder for excavation & refilling etc. Day 0.25 ₹ 310.00 ₹ 77.50 0203 Belder Day 0.66 ₹ 310.00 ₹ 204.60 0212 Coolie Day 0.66 ₹ 310.00 ₹ 204.60 TOTAL Add for carriage of all materials, cost of plastic bends, pipe inserts etc. [L.S] ② 1% ₹ 18.60 TOTAL Add for testing of joints etc. ② 4.0 % ₹ 1,878.10 TOTAL ② 3.0% ₹ 1,953.22 Add for Sundries and contingencies ② 3.0% ₹ 58.60 TOTAL ₹ 2,011.82 Add for water charges ② 1.0% ₹ 2,011.82 TOTAL ₹ 2,031.93 Add GST (multiplying factor) ○ 1.405 ₹ 2,031.93 Add 15% for contractor's profit and overheads ② 15% ₹ 347.61 ₹ 2,665.04		· ·						
Day Day	0215		Dov	0.12	3	440.00	=	E2 90
for excavation & refilling etc. 0203 Belder Day 0.66 ₹ 310.00 ₹ 204.60 0212 Coolie Day 0.66 ₹ 310.00 ₹ 204.60 TOTAL Add for carriage of all materials, cost of plastic bends, pipe inserts etc. [L.S] TOTAL Add for testing of joints etc.		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	•	-				
0203 Belder Day 0.66 ₹ 310.00 ₹ 204.60 0212 Coolie Day 0.66 ₹ 310.00 ₹ 204.60 TOTAL ₹ 1,859.50 Add for carriage of all materials, cost of plastic bends, pipe inserts etc. [L.S] ₹ 1,860 TOTAL ₹ 1,878.10 Add for testing of joints etc. ② 4.0 % ₹ 75.12 TOTAL ₹ 1,953.22 Add for Sundries and contingencies ③ 3.0% ₹ 58.60 TOTAL ₹ 2,011.82 Add for water charges ④ 1.0% ₹ 2,031.93 Add GST (multiplying factor) ○.1405 ₹ 2,317.42 Add 15% for contractor's profit and overheads ④ 15% ₹ 347.61 ₹ 2,665.04	0203		Day	0.25	•	310.00	•	77.50
0212 Coolie Day 0.66 ₹ 310.00 ₹ 204.60 TOTAL # 1,859.50 Add for carriage of all materials, cost of plastic bends, pipe inserts etc. [L.S] @ 1% ₹ 18.60 TOTAL # 1,878.10 Add for testing of joints etc. @ 4.0 % ₹ 75.12 TOTAL # 1,953.22 Add for Sundries and contingencies @ 3.0% ₹ 58.60 TOTAL # 2,011.82 Add for water charges @ 1.0% ₹ 2,011.82 TOTAL # 2,031.93 Add GST (multiplying factor) 0.1405 ₹ 2,317.42 Add 15% for contractor's profit and overheads @ 15% ₹ 347.61 ₹ 2,665.04	0203	· · · · · · · · · · · · · · · · · · ·	Day	0.66	₹	310.00	₹	204 60
TOTAL ₹ 1,859.50 Add for carriage of all materials, cost of plastic bends, pipe inserts etc. [L.S] ② 1% ₹ 18.60 TOTAL ₹ 1,878.10 Add for testing of joints etc. ② 4.0 % ₹ 75.12 TOTAL ₹ 1,953.22 Add for Sundries and contingencies ② 3.0% ₹ 58.60 TOTAL ₹ 2,011.82 Add for water charges ② 1.0% ₹ 20.12 TOTAL ₹ 2,031.93 Add GST (multiplying factor) 0.1405 ₹ 285.49 ₹ 2,317.42 Add 15% for contractor's profit and overheads ② 15% ₹ 347.61 ₹ 2,665.04			•				-	
Add for carriage of all materials, cost of plastic bends, pipe inserts etc. [L.S] TOTAL Add for testing of joints etc. # 1,878.10 Add for testing of joints etc. # 1,953.22 Add for Sundries and contingencies # 2,011.82 Add for water charges # 2,011.82 Add for water charges # 2,031.93 Add GST (multiplying factor) Add 15% for contractor's profit and overheads # 2,665.04	0212		Day	0.00	`	310.00		
inserts etc. [L.S] TOTAL Add for testing of joints etc. # 1,878.10 Add for testing of joints etc. # 1,953.22 Add for Sundries and contingencies # 1,953.22 Add for Sundries and contingencies # 2,011.82 Add for water charges # 2,011.82 TOTAL TOTAL Add GST (multiplying factor) # 2,031.93 Add GST (multiplying factor) # 2,317.42 Add 15% for contractor's profit and overheads # 347.61 # 2,665.04		Add for carriage of all materials, cost of plastic bends, pipe	@	40/			=	•
Add for testing of joints etc. @ 4.0 % ₹ 75.12 TOTAL ₹ 1,953.22 Add for Sundries and contingencies @ 3.0% ₹ 58.60 TOTAL ₹ 2,011.82 Add for water charges @ 1.0% ₹ 20.12 TOTAL ₹ 2,031.93 Add GST (multiplying factor) 0.1405 ₹ 285.49 Add 15% for contractor's profit and overheads @ 15% ₹ 347.61 ₹ 2,665.04			w	1%			<	18.60
TOTAL ₹ 1,953.22 Add for Sundries and contingencies @ 3.0% ₹ 58.60 TOTAL ₹ 2,011.82 Add for water charges @ 1.0% ₹ 20.12 TOTAL ₹ 2,031.93 Add GST (multiplying factor) 0.1405 ₹ 285.49 ₹ 2,317.42 Add 15% for contractor's profit and overheads @ 15% ₹ 347.61 ₹ 2,665.04		TOTAL					₹	1,878.10
Add for Sundries and contingencies TOTAL Add for water charges Add for water charges Add for water charges Output TOTAL Add GST (multiplying factor) Add GST (multiplying factor) Add 15% for contractor's profit and overheads Output Out		Add for testing of joints etc.	@	4.0 %			₹	75.12
TOTAL ₹ 2,011.82 Add for water charges @ 1.0% ₹ 20.12 TOTAL ₹ 2,031.93 Add GST (multiplying factor) 0.1405 ₹ 285.49 ₹ 2,317.42 Add 15% for contractor's profit and overheads @ 15% ₹ 347.61 ₹ 2,665.04		TOTAL					₹	1,953.22
Add for water charges @ 1.0% ₹ 20.12 TOTAL ₹ 2,031.93 Add GST (multiplying factor) 0.1405 ₹ 285.49 ₹ 2,317.42 Add 15% for contractor's profit and overheads @ 15% ₹ 347.61 ₹ 2,665.04		Add for Sundries and contingencies	@	3.0%			₹	58.60
TOTAL ₹ 2,031.93 Add GST (multiplying factor) 0.1405 ₹ 285.49 ₹ 2,317.42 Add 15% for contractor's profit and overheads @ 15% ₹ 347.61 ₹ 2,665.04		TOTAL					₹	2,011.82
Add GST (multiplying factor) 0.1405 ₹ 285.49 ₹ 2,317.42 Add 15% for contractor's profit and overheads @ 15% ₹ 347.61 ₹ 2,665.04		Add for water charges	@	1.0%			₹	-
₹ 2,317.42 Add 15% for contractor's profit and overheads @ 15% ₹ 347.61 ₹ 2,665.04		TOTAL					₹	2,031.93
Add 15% for contractor's profit and overheads @ 15% ₹ 347.61 ₹ 2,665.04		Add GST (multiplying factor)		0.1405			₹	285.49
₹ 2,665.04								,
,		Add 15% for contractor's profit and overheads	@	15%			₹	347.61
A 1.1							₹	2,665.04
Add cess @ 1% ₹ 26.65		Add cess	@	1%			₹	26.65
Cost for 10.00 mtr pipe length ₹ 2,691.69		Cost for 10.00 mtr pipe length					₹	2,691.69
Rate per mtr. ₹ 269.17		Rate per mtr.					₹	269.17
Say 269.20		Say					₹	269.20

19.6

19.6.5 : Code	PN-16 Pipe, 40 mm OD (SDR 7.4) Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19237	3 layer PP-R pipe (PN-16/SDR 7.4) 40 mm Outer dia Add 20 % for fitting and wastage etc. on (A) (10.00 + 2.0)=12.00 mtr. LABOUR	Metre	12.00	₹	164.00	₹	1,968.00
0215 0203	Fitter (grade-1) Belder for excavation & refilling etc.	Day Day	0.16 0.33	₹	440.00 310.00		70.40 102.30
0203 0212	Belder Coolie TOTAL Add for carriage of all materials, cost of plastic bends, pipe	Day Day @	0.66 0.66	₹	310.00 310.00	₹ ₹	204.60 204.60 2,549.90 25.50
	inserts etc. [L.S] TOTAL Add for testing of joints etc.	@	3.0 %			` ₹ ₹	2,575.40 77.26
	TOTAL Add for Sundries and contingencies TOTAL Add for water charges	@	3.0%			₹ ₹ ₹	2,652.66 79.58 2,732.24 27.32
	TOTAL	-				₹	2,759.56

Add GST (multiplying factor)		0.1405	₹	387.72
			₹	3,147.28
Add 15% for contractor's profit and overheads	@	15%	₹	472.09
			₹	3,619.38
Add cess	@	1%	₹	36.19
Cost for 10.00 mtr pipe length			₹	3,655.57
Rate per mtr.			₹	365.56
Say			₹	365.60

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings including trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.6.6: Code	PN-16 Pipe, 50 mm OD (SDR 7.4) Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19238	3 layer PP-R pipe (PN-16/SDR 7.4) 50 mm Outer dia Add 20 % for fitting and wastage etc. on (A) (10.00 + 2.0)=12.00 mtr.	Metre	12.00	₹	255.00	₹	3,060.00
0215 0203	LABOUR Fitter (grade-1) Belder for excavation & refilling etc.	Day Day	0.16 0.33	₹	440.00 310.00		70.40 102.30
0203 0212	Belder Coolie TOTAL	Day Day	0.66 0.66	₹	310.00 310.00	₹ ₹	204.60 204.60 3,641.90
	Add for carriage of all materials, cost of plastic bends, pipe inserts etc. [L.S] TOTAL	@	1%			₹ ₹	36.42 3,678.32
	Add for testing of joints etc.	@	2.50 %			₹	91.96
	TOTAL Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	3,770.28 113.11 3,883.39
	Add for water charges TOTAL	@	1.0%			₹ ₹	38.83 3,922.22
	Add GST (multiplying factor)		0.1405			₹ ₹	551.07 4,473.29
	Add 15% for contractor's profit and overheads	@	15%			₹	670.99 5,144.28
	Add cess Cost for 10.00 mtr pipe length Rate per mtr.	@	1%			₹ ₹	51.44 5,195.72 519.57
	Say					₹	519.60

19.6

19.6.7: Code	PN-16 Pipe, 63 mm OD (SDR 7.4) Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19239	3 layer PP-R pipe (PN-16/SDR 7.4) 63 mm Outer dia						
	Add 20 % for fitting and wastage etc. on (A)	Metre	12.00	₹	560.00	₹	6,720.00
	(10.00 + 2.0)=12.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.25	₹	440.00	₹	110.00
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	for excavation & refilling etc.	-					
0203	Belder	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL	·				₹	7,443.80

Add for carriage of all materials, cost of plastic bends, pipe inserts etc. [L.S]	@	1%	₹	74.44
TOTAL			₹	7,518.24
Add for testing of joints etc.	@	2.00 %	₹	150.36
TOTAL			₹	7,668.60
Add for Sundries and contingencies	@	3.0%	₹	230.06
TOTAL			₹	7,898.66
Add for water charges	@	1.0%	₹	78.99
TOTAL			₹	7,977.65
Add GST (multiplying factor)		0.1405	₹	1,120.86
			₹	9,098.51
Add 15% for contractor's profit and overheads	@	15%	₹	1,364.78
			₹	10,463.28
Add cess	@	1%	₹	104.63
Cost for 10.00 mtr pipe length			₹	10,567.91
Rate per mtr.			₹	1,056.79
Say			₹	1,056.80

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings including trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.6.8	PN-16 Pipe, 75 mm OD (SDR 7.4)						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre(A)						
	MATERIALS						
19240	3 layer PP-R pipe (PN-16/SDR 7.4) 75 mm Outer dia						
	Add 20 % for fitting and wastage etc. on (A)	Metre	12.00	₹	670.00	₹	8,040.00
	(10.00 + 2.0)=12.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.25	₹	440.00	₹	110.00
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	for excavation & refilling etc.						
0203	Belder	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	8,763.80
	Add for carriage of all materials, cost of plastic bends, pipe	@	1%			₹	87.64
	inserts etc. [L.S]	©	1 70				07.04
	TOTAL					₹	8,851.44
	Add for testing of joints etc.	@	1.50 %			₹	132.77
	TOTAL					₹	8,984.21
	Add for Sundries and contingencies	@	3.0%			₹	269.53
	TOTAL					₹	9,253.74
	Add for water charges	@	1.0%			₹	92.54
	TOTAL					₹	9,346.27
	Add GST (multiplying factor)		0.1405			₹	1,313.15
						₹	10,659.42
	Add 15% for contractor's profit and overheads	@	15%			₹	1,598.91
						₹	12,258.34
	Add cess	@	1%			₹	122.58
	Cost for 10.00 mtr pipe length					₹	12,380.92
	Rate per mtr.					₹	1,238.09
	Say					₹	1,238.10

19.6

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings including trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.6.9 PN-16 Pipe, 90 mm OD (SDR 7.4)

Code Description Unit Quantity Rate Amount

Details of cost for 10 metre(A)

MATERIALS

19241 3 layer PP-R pipe (PN-16/SDR 7.4) 90 mm Outer dia

	Add 20 % for fitting and wastage etc. on (A)	Metre	12.00	₹	780.00	₹	9,360.00
	(10.00 + 2.0)=12.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.37	₹	440.00	₹	162.80
0203	Belder	Day	0.97	₹	310.00	₹	300.70
	for excavation & refilling etc.						
0203	Belder	Day	0.80	₹	310.00	₹	248.00
0212	Coolie	Day	0.80	₹	310.00	₹	248.00
	TOTAL					₹	10,319.50
	Add for carriage of all materials, cost of plastic bends, pipe	@	1%			₹	103.20
	inserts etc. [L.S] TOTAL					₹	10,422.70
		-	4.0.07				
	Add for testing of joints etc.	@	1.0 %			₹	104.23
	TOTAL					₹	10,526.92
	Add for Sundries and contingencies	@	3.0%			₹	315.81
	TOTAL					₹	10,842.73
	Add for water charges	@	1.0%			₹	108.43
	TOTAL					₹	10,951.16
	Add GST (multiplying factor)		0.1405			₹	1,538.64
						₹	12,489.80
	Add 15% for contractor's profit and overheads	@	15%			₹	1,873.47
						₹	14,363.27
	Add cess	@	1%			₹	143.63
	Cost for 10.00 mtr pipe length					₹	14,506.90
	Rate per mtr.					₹	1,450.69
	Say					₹	1,450.70

19.6.10 Code	PN-10 Pipe, 110 mm OD (SDR-11) Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19242	3 layer PP-R pipe (PN-10/SDR -11) 110 mm Outer dia Add 20 % for fitting and wastage etc. on (A) (10.00 + 2.0)=12.00 mtr.	Metre	12.00	₹	940.00	₹	11,280.00
0215 0203	LABOUR Fitter (grade-1) Belder for excavation & refilling etc.	Day Day	0.37 0.97	₹	440.00 310.00	₹	162.80 300.70
0203 0212	Belder Coolie TOTAL	Day Day	0.80 0.80	₹	310.00 310.00	₹ ₹	248.00 248.00 12,239.50
	Add for carriage of all materials, cost of plastic bends, pipe inserts etc. [L.S] TOTAL	@	1%			₹ ₹	122.40 12,361.90
	Add for testing of joints etc.	@	1.0 %			₹	123.62
	TOTAL Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	12,485.51 374.57 12,860.08
	Add for water charges TOTAL	@	1.0%			₹ ₹	128.60 12,988.68
	Add GST (multiplying factor)		0.1405			₹	1,824.91 14,813.59
	Add 15% for contractor's profit and overheads	@	15%			` ₹	2,222.04 17,035.63
	Add cess Cost for 10.00 mtr pipe length	@	1%			₹ ₹	170.36 17,205.99
	Rate per mtr. Say					₹ ₹	1,720.60 1,720.60

Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings including trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.6.11	PN-10 Pipe, 160 mm OD(SDR-11)						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre(A)						
	MATERIALS						
19243	3 layer PP-R pipe (PN-10/SDR -11) 160 mm Outer dia						
	Add 20 % for fitting and wastage etc. on (A)	Metre	12.00	₹	2,200.00	₹	26,400.00
	(10.00 + 2.0)=12.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.58	₹	440.00	₹	255.20
0203	Belder	Day	1.54	₹	310.00	₹	477.40
	for excavation & refilling etc.						
0203	Belder	Day	1.2	₹	310.00	₹	372.00
0212	Coolie	Day	1.20	₹	310.00	₹	372.00
	TOTAL					₹	27,876.60
	Add for carriage of all materials, cost of plastic bends, pipe	@	1%			₹	278.77
	inserts etc. [L.S]	©	1 70			`	210.11
	TOTAL					₹	28,155.37
	Add for testing of joints etc.	@	0.50%			₹	140.78
	TOTAL					₹	28,296.14
	Add for Sundries and contingencies	@	3.0%			₹	848.88
	TOTAL					₹	29,145.03
	Add for water charges	@	1.0%			₹	291.45
	TOTAL					₹	29,436.48
	Add GST (multiplying factor)		0.1405			₹	4,135.83
						₹	33,572.31
	Add 15% for contractor's profit and overheads	@	15%			₹	5,035.85
						₹	38,608.15
	Add cess	@	1%			₹	386.08
	Cost for 10.00 mtr pipe length					₹	38,994.23
	Rate per mtr.					₹	3,899.42
	Say					₹	3,899.40

19.7

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.

19.7.1: Code	15 mm nominal outer dia .Pipes. Description Details of cost for 10.00 metre (A)	Unit	Quantity		Rate		Amount
19244	MATERIALS 15 mm outer dia CPVC pipe ,						
.02	Add 30 % for fitting and wastage etc. on (A) (10.00 + 3.00)=13.00 mtr.	Metre	13.00	₹	45.00	₹	585.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.82	₹	355.00	₹	291.10
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	1,225.90
	Add for CPVC Solvent cement etc.	@	5.00%			₹	61.30
	TOTAL					₹	1,287.20
	Add for carriage of all materials & scaffolding ladders, cost of wooden plugs, screws, clamps, cement, sand etc. [L.S]	@	1%			₹	12.87
	TOTAL					₹	1,300.07
	Add for testing of joints etc.	@	4.00%			₹	52.00
	TOTAL					₹	1,352.07
	Add for Sundries and contingencies	@	3.0%			₹	40.56

TOTAL			₹	1,392.63
Add for water charges	@	1.0%	₹	13.93
TOTAL			₹	1,406.56
Add GST (multiplying factor)		0.1405	₹	197.62
			₹	1,604.18
Add 15% for contractor's profit and overheads	@	15%	₹	240.63
			₹	1,844.80
Add cess	@	1%	₹	18.45
Cost for 10.00 mtr pipe length			₹	1,863.25
Rate per mtr.			₹	186.33
Say			₹	186.30

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.

Internal work Exposed on wall

19.7.2: Code	20 mm nominal outer dia .Pipes. Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19245	20 mm outer dia CPVC pipe ,						
	Add 30 % for fitting and wastage etc. on (A) (10.00 + 3.00)=13.00 mtr.	Metre	13.00	₹	65.00	₹	845.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.98	₹	355.00	₹	347.90
0203	Belder TOTAL	Day	0.66	₹	310.00	₹ ₹	204.60 1,542.70
	Add for CPVC Solvent cement etc.	@	5.00%			₹	77.14
	TOTAL Add for carriage of all materials & scaffolding ladders, cost of	_				₹	1,619.84
	wooden plugs,screws,clamps, cement , sand etc. [L.S] TOTAL	@	1%			₹	16.20 1,636.03
	Add for testing of joints etc.	@	4.00%			₹	65.44
	TOTAL Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	1,701.47 51.04 1,752.52
	Add for water charges TOTAL	@	1.0%			₹ ₹	17.53 1,770.04
	Add GST (multiplying factor)		0.1405			₹	248.69 2,018.73
	Add 15% for contractor's profit and overheads	@	15%			₹	302.81 2,321.54
	Add cess	@	1%			₹	23.22
	Cost for 10.00 mtr pipe length					₹	2,344.76
	Rate per mtr.					₹	234.48
	Say					₹	234.50

19.7

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.

19.7.3: Code	25 mm nominal outer dia .Pipes. Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate		Amount
19246	25 mm outer dia CPVC pipe ,						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	85.00	₹	1,105.00
	(10.00 + 3.00) = 13.00 mtr.						

LABOUR						
Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
Fitter (2nd Class)	Day	0.98	₹	355.00	₹	347.90
Belder	Day	0.66	₹	310.00	₹	204.60
TOTAL					₹	1,802.70
Add for CPVC Solvent cement etc.	@	4.00%			₹	72.11
TOTAL					₹	1,874.81
Add for carriage of all materials & scaffolding ladders, cost of wooden plugs, screws, clamps, cement, sand etc. [L.S]	@	1%			₹	18.75
TOTAL					₹	1,893.56
Add for testing of joints etc.	@	3.50%			₹	66.27
TOTAL					₹	1,959.83
Add for Sundries and contingencies	@	3.0%			₹	58.79
TOTAL					₹	2,018.63
Add for water charges	@	1.0%			₹	20.19
TOTAL					₹	2,038.81
Add GST (multiplying factor)		0.1405			₹	286.45
A 11.450/ 6		450/			₹	2,325.26
Add 15% for contractor's profit and overheads	@	15%			₹	348.79
					₹	2,674.05
Add cess	@	1%			₹	26.74
Cost for 10.00 mtr pipe length					₹	2,700.79
Rate per mtr.					₹	270.08
Say					₹	270.10

0215 0214 0203

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.

19.7.4: Code	32 mm nominal outer dia .Pipes. Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity		Rate	,	Amount
19247	32 mm outer dia CPVC pipe ,						
	Add 30 % for fitting and wastage etc. on (A) (10.00 + 3.00)=13.00 mtr.	Metre	13.00	₹	125.00	₹	1,625.00
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.98	₹	355.00	₹	347.90
0203	Belder	Day	0.98	₹	310.00	₹	303.80
	TOTAL					₹	2,421.90
	Add for CPVC Solvent cement etc.	@	4.00%			₹	96.88
	TOTAL					₹	2,518.78
	Add for carriage of all materials & scaffolding ladders, cost of	@	1%			₹	25.19
	wooden plugs,screws,clamps, cement , sand etc. [L.S] TOTAL					₹	2,543.96
	Add for testing of joints etc.	@	3.00%			₹	76.32
	TOTAL					₹	2,620.28
	Add for Sundries and contingencies	@	3.0%			₹	78.61
	TOTAL					₹	2,698.89
	Add for water charges	@	1.0%			₹	26.99
	TOTAL					₹	2,725.88
	Add GST (multiplying factor)		0.1405			₹	382.99
	A 11 4 = 0 (f)		450/			₹	3,108.87
	Add 15% for contractor's profit and overheads	@	15%			₹	466.33
	A 1.1		101			₹	3,575.20
	Add cess	@	1%			₹	35.75
	Cost for 10.00 mtr pipe length					₹	3,610.95
	Rate per mtr.					₹	361.10
	Say					₹	361.10

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.

Internal work Exposed on wall

19.7.5: Code	40 mm nominal outer dia .Pipes. Description Details of cost for 10.00 metre (A) MATERIALS	Unit	Quantity	Rate	e	Amount
19248	40 mm outer dia CPVC pipe ,					
	Add 30 % for fitting and wastage etc. on (A) (10.00 + 3.00)=13.00 mtr.	Metre	13.00	₹ 18	30.00 ₹	2,340.00
0045	LABOUR	_				
0215	Fitter (grade-1)	Day	0.33		10.00 ₹	
0214	Fitter (2nd Class)	Day	1.31		55.00 ₹	
0203	Belder TOTAL	Day	1.31	₹ 31	0.00 ₹ ₹	
	Add for CPVC Solvent cement etc.	@	3.50%		₹	117.47
	TOTAL Add for carriage of all materials & scaffolding ladders, cost of				₹	3,473.82
	wooden plugs,screws,clamps, cement , sand etc. [L.S]	@	1%		₹	
		_				,
	Add for testing of joints etc.	@	2.50%		₹	87.71
	TOTAL Add for Sundries and contingencies TOTAL	@	3.0%		₹ ₹	107.89
	Add for water charges TOTAL	@	1.0%		₹ ₹	
	Add GST (multiplying factor)		0.1405		₹	
	Add 15% for contractor's profit and overheads	@	15%		₹ ₹	
	Add cess	@	1%		₹	
	Cost for 10.00 mtr pipe length				₹	
	Rate per mtr.				₹	495.59
	Say				₹	495.60

19.7

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.

19.7.6	50 mm nominal outer dia .Pipes.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metre (A)						
	MATERIALS						
19249	50 mm outer dia CPVC pipe ,						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	300.00	₹	3,900.00
	(10.00 + 3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	1.31	₹	355.00	₹	465.05
0203	Belder	Day	1.31	₹	310.00	₹	406.10
	TOTAL					₹	4,916.35
	Add for CPVC Solvent cement etc.	@	3.00%			₹	147.49
	TOTAL					₹	5,063.84
	Add for carriage of all materials & scaffolding ladders, cost of wooden plugs,screws,clamps, cement , sand etc. [L.S]	@	1%			₹	50.64
	TOTAL					₹	5,114.48
	Add for testing of joints etc.	@	2.0%			₹	102.29

TOTAL			₹	5,216.77
Add for Sundries and contingencies	@	3.0%	₹	156.50
TOTAL			₹	5,373.27
Add for water charges	@	1.0%	₹	53.73
TOTAL			₹	5,427.00
Add GST (multiplying factor)		0.1405	₹	762.49
			₹	6,189.49
Add 15% for contractor's profit and overheads	@	15%	₹	928.42
			₹	7,117.92
Add cess	@	1%	₹	71.18
Cost for 10.00 mtr pipe length			₹	7,189.10
Rate per mtr.			₹	718.91
Say			₹	718.90

19.8 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.

Concealed work including cutting chases and making good the walls etc.

19.8.1: Code	15 mm nominal outer dia .Pipes. Description Details of cost for 10.00 metre (A) MATERIALS		Unit	Q	uantity		Rate
19244	15 mm outer dia CPVC Pipe (A)						
	Add 75.00 % for fitting, clamps and wastage etc. on (A) (10.00 + 7.5)=17.50 mtr. Making chase upto 7.5 x 7.5 cm. in walls and making good the same	Metre	17.50	₹	45.00	₹	787.50
(B)	Rate as per item no. 19.78 (cutting Chasing &						
()	making good the same) LABOUR	metre	10.00	₹	149.10	₹	1,491.00
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	2,862.60
	Add for CPVC Solvent cement etc.	@	4.00%			₹	114.50
	TOTAL					₹	2,977.10
	Add for carriage of all materials & scaffolding ladders etc. [L.S]	@	1%			₹	29.77
	TOTAL					₹	3,006.88
	Add for testing of joints etc.	@	3.0%			₹	90.21
	TOTAL Add for Sundries and contingencies (except on B) TOTAL	@	3.0%			₹ ₹	3,097.08 48.18 3,145.26
	Add for water charges (except on B) TOTAL	@	1.0%			₹ ₹	16.54 3,161.81
	Add GST (multiplying factor)(except on B)		0.1405			₹ ₹	234.75 3,396.56
	Add 15% for contractor's profit and overheads (except on B)	@	15%			₹	285.83
						₹	3,682.39
	Add cess (except on B)	@	1%			₹	21.91
	Cost for 10.00 mtr pipe length					₹	3,704.30
	Rate per mtr.					₹	370.43
	Say					₹	370.40

19.8 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.

19.8.2: 20 mm nominal outer dia .Pipes.

Code Description Unit Quantity Rate

Details of cost for 10.00 metre (A)

MATERIALS

	19245	20 mm outer dia CPVC Pipe	(A)
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19245	20 mm outer dia CPVC Pipe (A)						
	Add 75.00 % for fitting, clamps and wastage etc. on (A)	Metre	17.50	₹	65.00	₹	1,137.50
	(10.00 + 7.5) = 17.50 mtr.						
	Making chase upto 7.5 x 7.5 cm. in walls and making						
(D)	good the same						
(B)	Rate as per item no. 19.78 (cutting Chasing & making good the same)	metre	10.00	₹	149.10	₹	1,491.00
	LABOUR	motic	10.00	`	143.10	`	1,431.00
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	3,212.60
	Add for CPVC Solvent cement etc.	@	4.00%			₹	128.50
	TOTAL					₹	3,341.10
	Add for carriage of all materials & scaffolding ladders etc. [L.S]	@	1%			₹	33.41
	TOTAL					₹	3,374.52
	TOTAL					•	3,374.32
	Add for testing of joints etc.	@	3.0%			₹	101.24
		@	3.0%				
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B)	@ @	3.0%			₹ ₹	101.24 3,475.75 59.54
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL	@	3.0%			₹ ₹ ₹	101.24 3,475.75 59.54 3,535.29
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B)					₹ ₹ ₹	101.24 3,475.75 59.54 3,535.29 20.44
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL	@	3.0%			₹ ₹ ₹	101.24 3,475.75 59.54 3,535.29
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B)	@	3.0%			₹ ₹ ₹ ₹	101.24 3,475.75 59.54 3,535.29 20.44 3,555.74
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B) TOTAL	@	3.0% 1.0%			₹ ₹ ₹ ₹	101.24 3,475.75 59.54 3,535.29 20.44 3,555.74
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B) TOTAL Add GST (multiplying factor)(except on B)	@	3.0% 1.0% 0.1405			₹ ₹₹₹₹ ₹₹	101.24 3,475.75 59.54 3,535.29 20.44 3,555.74
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B) TOTAL	@ @	3.0% 1.0%			₹ ₹ ₹ ₹	3,475.75 59.54 3,535.29 20.44 3,555.74 290.10 3,845.84
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B) TOTAL Add GST (multiplying factor)(except on B)	@ @	3.0% 1.0% 0.1405			₹ ₹ ₹ ₹ ₹ ₹ ₹	101.24 3,475.75 59.54 3,535.29 20.44 3,555.74 290.10 3,845.84 353.23
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B) TOTAL Add GST (multiplying factor)(except on B) (except on B)	@ @ @	3.0% 1.0% 0.1405 15%			₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	101.24 3,475.75 59.54 3,535.29 20.44 3,555.74 290.10 3,845.84 353.23 4,199.06
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B) TOTAL Add GST (multiplying factor)(except on B) (except on B) Add cess (except on B)	@ @ @	3.0% 1.0% 0.1405 15%			₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	101.24 3,475.75 59.54 3,535.29 20.44 3,555.74 290.10 3,845.84 353.23 4,199.06 27.08
	Add for testing of joints etc. TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B) TOTAL Add GST (multiplying factor)(except on B) (except on B) Add cess (except on B) Cost for 10.00 mtr pipe length	@ @ @	3.0% 1.0% 0.1405 15%			₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	101.24 3,475.75 59.54 3,535.29 20.44 3,555.74 290.10 3,845.84 353.23 4,199.06 27.08 4,226.14

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.

19.8.3: Code	25 mm nominal outer dia .Pipes. Description Details of cost for 10.00 metre (A) MATERIALS		Unit	c	Quantity		Rate
19246	25 mm outer dia CPVC Pipe (A)			_		_	
	Add 75.00 % for fitting, clamps and wastage etc. on (A)	Metre	17.50	₹	85.00	₹	1,487.50
(-)	(10.00 + 7.5)=17.50 mtr. Making chase upto 7.5 x 7.5 cm. in walls and making good the same						
(B)	Rate as per item no. 19.78 (cutting Chasing &		40.00	-	440.40	-	4 404 00
	making good the same) LABOUR	metre	10.00	₹	149.10	₹	1,491.00
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0213	Fitter (2nd Class)	Day	0.33	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL	,				₹	3,562.60
	Add for CPVC Solvent cement etc.	@	3.00%			₹	106.88
	TOTAL					₹	3,669.48
	Add for carriage of all materials & scaffolding ladders etc. [L.S]	@	1%			₹	36.69
	TOTAL					₹	3,706.17
	Add for testing of joints etc.	@	2.50%			₹	92.65
	TOTAL					₹	3,798.83

Add for Sundries and contingencies (except on B) TOTAL	@	3.0%	₹ ₹	69.23 3,868.06
Add for water charges (except on B) TOTAL	@	1.0%	₹	23.77 3,891.83
Add GST (multiplying factor)(except on B)		0.1405	₹	337.32
			₹	4,229.15
(except on B)	@	15%	₹	410.72
			₹	4,639.88
Add cess (except on B)	@	1%	₹	31.49
Cost for 10.00 mtr pipe length			₹	4,671.36
Rate per mtr.			₹	467.14
Say			₹	467.10

19.8 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.

19.8.4: Code	32 mm nominal outer dia .Pipes. Description Details of cost for 10.00 metre (A) MATERIALS		Unit	Q	uantity		Rate
19247	32 mm outer dia CPVC Pipe (A) Add 75.00 % for fitting, clamps and wastage etc. on (A) (10.00 + 7.5)=17.50 mtr. Making chase upto 7.5 x 7.5 cm. in walls and making good the same	Metre	17.50	₹	125.00	₹	2,187.50
(B)	Rate as per item no. 19.78 (cutting Chasing & making good the same) LABOUR	metre	10.00	₹	149.10	₹	1,491.00
0215 0214 0203	Fitter (grade-1) Fitter (2nd Class) Belder TOTAL	Day Day Day	0.33 0.66 0.66	₹ ₹	440.00 355.00 310.00	₹ ₹ ₹	145.20 234.30 204.60 4,262.60
	Add for CPVC Solvent cement etc. TOTAL	@	3.00%			₹ ₹	127.88 4,390.48
	Add for carriage of all materials & scaffolding ladders etc. [L.S] TOTAL	@	1%			₹	43.90 4,434.38
	Add for testing of joints etc.	@	2.50%			₹	110.86
	TOTAL Add for Sundries and contingencies (except on B) TOTAL Add for water charges (except on B)	@ @	3.0% 1.0%			₹ ₹ ₹ ₹	4,545.24 91.63 4,636.87 31.46
	TOTAL Add GST (multiplying factor)(except on B)		0.1405			₹ ₹	4,668.33 446.41 5,114.74
	(except on B)	@	15%			₹	543.56
	Add cess (except on B) Cost for 10.00 mtr pipe length Rate per mtr. Say	@	1%			₹₹₹	5,658.30 41.67 5,699.97 570.00 570.00

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

External work

19.9.1 15 mm nominal outer dia .Pipes.

Code Description Unit Quantity Rate Amount

Details of cost for 10 metre(A)

MATERIALS

19244	15	mm	outer	dia	CP	VC I	egia
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19244	15 mm outer dia CPVC pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	45.00	₹	585.00
	(10.00 + 3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.08	₹	440.00	₹	35.20
0203	Belder	Day	0.16	₹	310.00	₹	49.60
	for excavation & refilling etc.						
0203	Beldar	Day	0.66	₹		₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	1,079.00
	Add for carriage of all materials etc. [L.S]	@	1%			₹	10.79
	TOTAL					₹	1,089.79
	Add for testing of joints etc.	@	7.0 %			₹	76.29
	TOTAL					₹	1,166.08
	Add for Sundries and contingencies	@	3.0%			₹	34.98
	TOTAL					₹	1,201.06
	Add for water charges	@	1.0%			₹	12.01
	TOTAL					₹	1,213.07
	Add GST (multiplying factor)		0.1405			₹	170.44
						₹	1,383.50
	Add 15% for contractor's profit and overheads	@	15%			₹	207.53
						₹	1,591.03
	Add cess	@	1%			₹	15.91
	Cost for 10.00 mtr pipe length					₹	1,606.94
	Rate per mtr.					₹	160.69
	Say					₹	160.70

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

1992	20 mm	nominal	outer	dia	Pines
19.9.2	20 111111	HUHHHIAI	outer	uia .	ripes.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre(A)						
	MATERIALS						
19245	20 mm outer dia CPVC pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	65.00	₹	845.00
	(10.00 + 3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.08	₹	440.00	₹	35.20
0203	Belder	Day	0.16	₹	310.00	₹	49.60
	for excavation & refilling etc.						
0203	Beldar	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	1,339.00
	Add for carriage of all materials etc. [L.S]	@	1%			₹	13.39
	TOTAL					₹	1,352.39
	Add for testing of joints etc.	@	6.0 %			₹	81.14
	TOTAL					₹	1,433.53
	Add for Sundries and contingencies	@	3.0%			₹	43.01
	TOTAL					₹	1,476.54
	Add for water charges	@	1.0%			₹	14.77
	TOTAL					₹	1,491.30
	Add GST (multiplying factor)		0.1405			₹	209.53
						₹	1,700.83
	Add 15% for contractor's profit and overheads	@	15%			₹	255.12
						₹	1,955.96
	Add cess	@	1%			₹	19.56
	Cost for 10.00 mtr pipe length					₹	1,975.52
	Rate per mtr.					₹	197.55
	Say					₹	197.60

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.9.3 Code	25 mm nominal outer dia .Pipes. Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19246	25 mm outer dia CPVC pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	85.00	₹	1,105.00
	(10.00 + 3.00)=13.00 mtr.						
2045	LABOUR	Б.	0.40	-	440.00	-	50.00
0215	Fitter (grade-1)	Day	0.12	₹	440.00		52.80
0203	Belder	Day	0.25	₹	310.00	₹	77.50
0000	for excavation & refilling etc.	5	0.00	-	040.00	-	004.00
0203	Beldar	Day	0.66	₹		₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	1,644.50
	Add for carriage of all materials etc. [L.S]	@	1%			₹	16.45
	TOTAL					₹	1,660.95
	Add for testing of joints etc.	@	4.50 %			₹	74.74
	TOTAL					₹	1,735.69
	Add for Sundries and contingencies	@	3.0%			₹	52.07
	TOTAL					₹	1,787.76
	Add for water charges	@	1.0%			₹	17.88
	TOTAL					₹	1,805.64
	Add GST (multiplying factor)		0.1405			₹	253.69
						₹	2,059.33
	Add 15% for contractor's profit and overheads	@	15%			₹	308.90
						₹	2,368.23
	Add cess	@	1%			₹	23.68
	Cost for 10.00 mtr pipe length					₹	2,391.91
	Rate per mtr.					₹	239.19
	Say					₹	239.20

^{19.9} Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.9.4 32 mm nominal outer dia .Pipes. Code Description Unit Quantity Rate Details of cost for 10 metre(A) MATERIALS	Amount
19247 32 mm outer dia CPVC pipe	
Add 30 % for fitting and wastage etc. on (A) Metre 13.00 ₹ 125.00 (10.00 + 3.00)=13.00 mtr.	₹ 1,625.00
LABOUR	
0215 Fitter (grade-1) Day 0.12 ₹ 440.00	₹ 52.80
0203 Belder Day 0.25 ₹ 310.00	₹ 77.50
for excavation & refilling etc.	
0203 Beldar Day 0.66 ₹ 310.00	₹ 204.60
0212 Coolie Day 0.66 ₹ 310.00	₹ 204.60
TOTAL	₹ 2,164.50
Add for carriage of all materials etc. [L.S] @ 1%	₹ 21.65
TOTAL	₹ 2,186.15
Add for testing of joints etc. @ 3.50 %	₹ 76.52
TOTAL	₹ 2,262.66
Add for Sundries and contingencies @ 3.0%	₹ 67.88
TOTAL	₹ 2,330.54
Add for water charges @ 1.0%	₹ 23.31
TOTAL	₹ 2,353.85
Add GST (multiplying factor) 0.1405	₹ 330.72
(₹ 2,684.56

Add 15% for contractor's profit and overheads	@	15%	₹	402.68
			₹	3,087.24
Add cess	@	1%	₹	30.87
Cost for 10.00 mtr pipe length			₹	3,118.12
Rate per mtr.			₹	311.81
Say			₹	311.80

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.9.5 Code	40 mm nominal outer dia .Pipes.	Unit	Quantitu		Data		Amount
Code	Description Details of cost for 10 metre(A)	Onit	Quantity		Rate		Amount
	MATERIALS						
19248	40 mm outer dia CPVC pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	180.00	₹	2,340.00
	(10.00 + 3.00) = 13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.16	₹	440.00	₹	70.40
0203	Belder	Day	0.33	₹	310.00	₹	102.30
	for excavation & refilling etc.						
0203	Beldar	Day	0.66	₹		₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	2,921.90
	Add for carriage of all materials etc. [L.S]	@	1%			₹	29.22
	TOTAL					₹	2,951.12
	Add for testing of joints etc.	@	3.0 %			₹	88.53
	TOTAL					₹	3,039.65
	Add for Sundries and contingencies	@	3.0%			₹	91.19
	TOTAL					₹	3,130.84
	Add for water charges	@	1.0%			₹	31.31
	TOTAL					₹	3,162.15
	Add GST (multiplying factor)		0.1405			₹	444.28
	Add 450/ for another start and another add		450/			₹	3,606.43
	Add 15% for contractor's profit and overheads	@	15%			₹	540.96
	Add cess	@	1%			₹	4,147.40 41.47
		w	1 /0			₹	4,188.87
	Cost for 10.00 mtr pipe length					₹	4,100.07
	Rate per mtr.					۲ ₹	418.90
	Say					₹	418.90

19.9 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.9.6 Code	50 mm nominal outer dia .Pipes. Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19249	50 mm outer dia CPVC pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	300.00	₹	3,900.00
	(10.00 + 3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.16	₹	440.00	₹	70.40
0203	Belder	Day	0.33	₹	310.00	₹	102.30
	for excavation & refilling etc.						
0203	Beldar	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	4,481.90
	Add for carriage of all materials etc. [L.S]	@	1%			₹	44.82
	TOTAL					₹	4,526.72
	Add for testing of joints etc.	@	2.0 %			₹	90.53
	TOTAL					₹	4,617.25

Add for Sundries and contingencies	@	3.0%	₹	138.52
TOTAL			₹	4,755.77
Add for water charges	@	1.0%	₹	47.56
TOTAL			₹	4,803.33
Add GST (multiplying factor)		0.1405	₹	674.87
			₹	5,478.20
Add 15% for contractor's profit and overheads	@	15%	₹	821.73
			₹	6,299.93
Add cess	@	1%	₹	63.00
Cost for 10.00 mtr pipe length			₹	6,362.93
Rate per mtr.			₹	636.29
Say			₹	636.30

19.9 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.9.7 Code	62.50 mm nominal inner dia .Pipes. Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19250	62.50 mm inner dia CPVC pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	795.00	₹	10,335.00
	(10.00 + 3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.25	₹	440.00	₹	110.00
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	for excavation & refilling etc.						
0203	Beldar	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	11,058.80
	Add for carriage of all materials etc. [L.S]	@	1%			₹	110.59
	TOTAL					₹	11,169.39
	Add for testing of joints etc.	@	1.0 %			₹	111.69
	TOTAL					₹	11,281.08
	Add for Sundries and contingencies	@	3.0%			₹	338.43
	TOTAL					₹	11,619.51
	Add for water charges	@	1.0%			₹	116.20
	TOTAL					₹	11,735.71
	Add GST (multiplying factor)		0.1405			₹	1,648.87
						₹	13,384.58
	Add 15% for contractor's profit and overheads	@	15%			₹	2,007.69
						₹	15,392.26
	Add cess	@	1%			₹	153.92
	Cost for 10.00 mtr pipe length					₹	15,546.19
	Rate per mtr.					₹	1,554.62
	Say					₹	1,554.60

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.9.8 Code	75 mm nominal inner dia .Pipes. Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19251	75 mm inner dia CPVC pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	950.00	₹	12,350.00
	(10.00 + 3.00)=13.00 mtr.						
	LABOUR						
0215	Fitter (grade-1)	Day	0.25	₹	440.00	₹	110.00
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	for excavation & refilling etc.						
0203	Beldar	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.66	₹	310.00	₹	204.60

TOTAL			₹	13,073.80
Add for carriage of all materials etc. [L.S]	@	1%	₹	130.74
TOTAL			₹	13,204.54
Add for testing of joints etc.	@	0.80 %	₹	105.64
TOTAL			₹	13,310.17
Add for Sundries and contingencies	@	3.0%	₹	399.31
TOTAL			₹	13,709.48
Add for water charges	@	1.0%	₹	137.09
TOTAL			₹	13,846.57
Add GST (multiplying factor)		0.1405	₹	1,945.44
			₹	15,792.02
Add 15% for contractor's profit and overheads	@	15%	₹	2,368.80
			₹	18,160.82
Add cess	@	1%	₹	181.61
Cost for 10.00 mtr pipe length			₹	18,342.43
Rate per mtr.			₹	1,834.24
Say			₹	1,834.20

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

19.9.9 Code	100 mm nominal inner dia .Pipes. Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19252	100 mm inner dia CPVC pipe Add 30 % for fitting and wastage etc. on (A) (10.00 + 3.00)=13.00 mtr.	Metre	13.00	₹	1,150.00	₹	14,950.00
0215 0203	LABOUR Fitter (grade-1) Belder for excavation & refilling etc.	Day Day	0.37 0.97	₹	440.00 310.00	₹	162.80 300.70
0203 0212	Beldar Coolie TOTAL Add for carriage of all materials etc. [L.S]	Day Day @	0.80 0.80 1%	₹	310.00 310.00	₹ ₹ ₹	248.00 248.00 15,909.50 159.10
	TOTAL	@				₹ ₹	16,068.60
	Add for testing of joints etc. TOTAL	<u>@</u>	0.65 %			₹	104.45 16,173.04
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	485.19 16,658.23
	Add for water charges TOTAL	@	1.0%			₹ ₹	166.58 16,824.81
	Add GST (multiplying factor)		0.1405			₹	2,363.89 19,188.70
	Add 15% for contractor's profit and overheads	@	15%			₹ ₹	2,878.31 22,067.01
	Add cess Cost for 10.00 mtr pipe length	@	1%			₹ ₹	220.67 22,287.68
	Rate per mtr. Say					₹	2,228.77 2,228.80

19.9 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.

Code	150 mm nominal inner dia .Pipes. Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19253	150 mm inner dia CPVC pipe						
	Add 30 % for fitting and wastage etc. on (A)	Metre	13.00	₹	2,000.00	₹	26,000.00
	(10.00 + 3.00) = 13.00 mtr.						

	LABOUR						
0215	Fitter (grade-1)	Day	0.58	₹	440.00	₹	255.20
0203	Belder	Day	1.54	₹	310.00	₹	477.40
	for excavation & refilling etc.						
0203	Beldar	Day	1.20	₹	310.00	₹	372.00
0212	Coolie	Day	1.20	₹	310.00	₹	372.00
	TOTAL					₹	27,476.60
	Add for carriage of all materials etc. [L.S]	@	1%			₹	274.77
	TOTAL					₹	27,751.37
	Add for testing of joints etc.	@	0.40 %			₹	111.01
	TOTAL					₹	27,862.37
	Add for Sundries and contingencies	@	3.0%			₹	835.87
	TOTAL					₹	28,698.24
	Add for water charges	@	1.0%			₹	286.98
	TOTAL					₹	28,985.23
	Add GST (multiplying factor)		0.1405			₹	4,072.42
						₹	33,057.65
	Add 15% for contractor's profit and overheads	@	15%			₹	4,958.65
						₹	38,016.30
	Add cess	@	1%			₹	380.16
	Cost for 10.00 mtr pipe length					₹	38,396.46
	Rate per mtr.					₹	3,839.65
	Say					₹	3,839.60

19.10 Providing and fixing G.I. pipes of medim class as per IS: 1239 with latest amendment complete with G.I. fittings and clamps, including cutting and making good the walls etc. complete as per CPWD specification and direction of the Engineer - in - charge.

Internal work - Exposed on wall.

19.10.1	15 mm dia. nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre(A)						
	MATERIALS						
19028	15 mm dia G.I. Pipe						
	Add 15 % for fitting and wastage etc. on (A)						
	(10.00 + 1.5)=11.50 mtr.	metre	11.50	₹	92.00	₹	1,058.00
	CARRIAGE						
0427	15 mm : 12x1.27 kg/mtr.=15.24 kg or 0.01524 t	t	0.01524	₹	102.47	₹	1.56
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹		₹	145.20
0214	Fitter (2nd Class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	1,643.66
	Add for carriage of all materials & cost of clamps, white lead,						
	hemp,cement , sand grit, oil , wooden plugs, screws scaffolding ladders etc. [L.S]	@	1%			₹	16.44
	TOTAL					₹	1,660.10
	Add for Sundries and contingencies	@	3.0%			₹	49.80
	TOTAL					₹	1,709.90
	Add for water charges	@	1.0%			₹	17.10
	TOTAL					₹	1,727.00
	Add GST (multiplying factor)		0.1405			₹	242.64
						₹	1,969.64
	Add 15% for contractor's profit and overheads	@	15%			₹	295.45
						₹	2,265.09
	Add cess	@	1%			₹	22.65
	Cost for 10.00 mtr pipe length					₹	2,287.74
	Rate per mtr.					₹	228.77
	Say					₹	228.80

19.10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. linternal work - Exposed on wall :

19.10.2 20 mm dia. nominal bore

Code Description Unit Quantity Rate Amount

Details of cost for 10 metre(A)

MATERIALS

19029 20 m	m dia G.	I. Pipe
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19029	20 IIIII dia G.i. Fipe						
	Add 15 % for fitting and wastage etc. on (A)						
	(10.00 + 1.5)=11.50 mtr.	metre	11.50	₹	120.00	₹	1,380.00
	CARRIAGE						
0427	20 mm : 12x1.65 kg/mtr.=19.80 kg or 0.0198 t	t	0.01980	₹	102.47	₹	2.03
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.82	₹	355.00	₹	291.10
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	2,022.93
	Add for carriage of all materials & cost of clamps, white lead,						
	hemp,cement, sand grit, oil, wooden plugs, screws scaffolding	@	1%			₹	20.23
	ladders etc. [L.S]						
	TOTAL					₹	2,043.16
	Add for Sundries and contingencies	@	3.0%			₹	61.29
	TOTAL					₹	2,104.45
	Add for water charges	@	1.0%			₹	21.04
	TOTAL					₹	2,125.50
	Add GST (multiplying factor)		0.1405			₹	298.63
						₹	2,424.13
	Add 15% for contractor's profit and overheads	@	15%			₹	363.62
						₹	2,787.75
	Add cess	@	1%			₹	27.88
	Cost for 10.00 mtr pipe length					₹	2,815.63
	Rate per mtr.					₹	281.56
	Say					₹	281.60

19.10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. linternal work - Exposed on wall :

19.10.3 Code	25 mm dia. nominal bore Description	Unit	Quantity		Rate		Amount
Code	Details of cost for 10 metre(A)	Oille	Quality		Nate		Amount
	MATERIALS						
19030	25 mm dia G.I. Pipe						
	Add 15 % for fitting and wastage etc. on (A)						
	(10.00 + 1.5)=11.50 mtr.	metre	11.50	₹	170.00	₹	1,955.00
	CARRIAGE						
0427	25 mm : 12x 2.51 kg/mtr.=30.12 kg or 0.03012 t	t	0.03012	₹	102.47	₹	3.09
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.98	₹	355.00	₹	347.90
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	TOTAL					₹	2,655.79
	Add for carriage of all materials & cost of clamps, white lead,						
	hemp,cement , sand grit, oil , wooden plugs, screws scaffolding ladders etc. [L.S]	@	1%			₹	26.56
	TOTAL					₹	2,682.34
	Add for Sundries and contingencies	@	3.0%			₹	80.47
	TOTAL					₹	2,762.81
	Add for water charges	@	1.0%			₹	27.63
	TOTAL					₹	2,790.44
	Add GST (multiplying factor)		0.1405			₹	392.06
						₹	3,182.50
	Add 15% for contractor's profit and overheads	@	15%			₹	477.37
						₹	3,659.87
	Add cess	@	1%			₹	36.60
	Cost for 10.00 mtr pipe length					₹	3,696.47
	Rate per mtr.					₹	369.65
	Say					₹	369.60

19.10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. linternal work - Exposed on wall :

19.10.4 32 mm dia. nominal bore

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre(A)						
	MATERIALS						
19031	32 mm dia G.I. Pipe						
	Add 15 % for fitting and wastage etc. on (A)						
	(10.00 + 1.5)=11.50 mtr.	metre	11.50	₹	215.00	₹	2,472.50
	CARRIAGE						
0427	32 mm : 12x 3.23 kg/mtr.=38.76 kg or 0.03876 t	t	0.03876	₹	102.47	₹	3.97
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd Class)	Day	0.98	₹	355.00	₹	347.90
0203	Belder	Day	0.98	₹	310.00	₹	303.80
	TOTAL					₹	3,273.37
	Add for carriage of all materials & cost of clamps, white lead,						
	hemp,cement , sand grit, oil , wooden plugs, screws scaffolding ladders etc. [L.S]	@	1%			₹	32.73
	TOTAL					₹	3,306.11
	Add for Sundries and contingencies	@	3.0%			₹	99.18
	TOTAL					₹	3,405.29
	Add for water charges	@	1.0%			₹	34.05
	TOTAL					₹	3,439.34
	Add GST (multiplying factor)		0.1405			₹	483.23
						₹	3,922.57
	Add 15% for contractor's profit and overheads	@	15%			₹	588.39
						₹	4,510.95
	Add cess	@	1%			₹	45.11
	Cost for 10.00 mtr pipe length					₹	4,556.06
	Rate per mtr.					₹	455.61
	Say					₹	455.60

19.10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. linternal work - Exposed on wall :

	40 mm dia. nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre(A)						
	MATERIALS						
19032	40 mm dia G.I. Pipe						
	Add 15 % for fitting and wastage etc. on (A)						
	(10.00 + 1.5)=11.50 mtr.	metre	11.50	₹	250.00	₹	2,875.00
	CARRIAGE						
0427	40 mm : 12x 3.72 kg/mtr.=44.64 kg or 0.04464 t	t	0.04464	₹	102.47	₹	4.57
	LABOUR						
0215	Fitter (grade-1)	Day	0.33	₹		₹	145.20
0214	Fitter (2nd Class)	Day	1.31	₹	355.00	₹	465.05
0203	Belder	Day	1.31	₹	310.00	₹	406.10
	TOTAL					₹	3,895.92
	Add for carriage of all materials & cost of clamps, white lead,						
	hemp,cement , sand grit, oil , wooden plugs, screws scaffolding ladders etc. [L.S]	@	1%			₹	38.96
	TOTAL					₹	3,934.88
	Add for Sundries and contingencies	@	3.0%			₹	118.05
	TOTAL					₹	4,052.93
	Add for water charges	@	1.0%			₹	40.53
	TOTAL					₹	4,093.46
	Add GST (multiplying factor)		0.1405			₹	575.13
						₹	4,668.59
	Add 15% for contractor's profit and overheads	@	15%			₹	700.29
						₹	5,368.88
	Add cess	@	1%			₹	53.69
	Cost for 10.00 mtr pipe length					₹	5,422.57
	Rate per mtr.					₹	542.26
	Say					₹	542.30
	•						

19.10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. linternal work - Exposed on wall :

Code	50 mm dia. nominal bore Description Details of cost for 10 metre(A) MATERIALS 50 mm dia. O. I. Bira	Unit	Quantity		Rate		Amount
19033	50 mm dia G.I. Pipe						
	Add 15 % for fitting and wastage etc. on (A)		44.50	-	040.00	-	0.505.00
	(10.00 + 1.5)=11.50 mtr. CARRIAGE	metre	11.50	₹	310.00	<	3,565.00
0427		t	0.06288	₹	102.47	∓	6.44
0427	50 mm : 12x 5.24 kg/mtr.=62.88 kg or 0.06288 t LABOUR	ι	0.00200	•	102.47	•	0.44
0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0213	Fitter (2nd Class)	Day	1.64	₹		₹	582.20
0203	Belder	Day	1.64	₹	310.00	₹	508.40
0200	TOTAL	Day	1.04	`	010.00	₹	4,807.24
	Add for carriage of all materials & cost of clamps, white lead,					•	.,001121
	hemp,cement , sand grit, oil , wooden plugs, screws scaffolding ladders etc. [L.S]	@	1%			₹	48.07
	TOTAL					₹	4,855.32
	Add for Sundries and contingencies	@	3.0%			₹	145.66
	TOTAL					₹	5,000.98
	Add for water charges	@	1.0%			₹	50.01
	TOTAL					₹	5,050.98
	Add GST (multiplying factor)		0.1405			₹	709.66
						₹	5,760.65
	Add 15% for contractor's profit and overheads	@	15%			₹	864.10
						₹	6,624.75
	Add cess	@	1%			₹	66.25
	Cost for 10.00 mtr pipe length					₹	6,690.99
	Rate per mtr.					₹	669.10
	Say					₹	669.10

^{19.11} Providing and fixing G.I pipes complete with G.I. fittings and clamps, including making good the walls/floor etc. concealed pipe including painting two coats or more with anticorrosive bitumastic paint, cutting chases and making good the same.

19.11.1 Code	15 mm dia nominal bore Description	Unit	Quantity		Rate		Amount
Code	Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19028	15 mm dia G.I. Pipe						
	Add 15 % for fitting and wastage etc. on (A)						
	(10.00 + 1.5) = 11.50 mtr.	metre	11.50	₹	92.00	₹	1,058.00
	CARRIAGE:						
	Pipes & fittings						
0427	15 mm : 11.5 x1.27 kg/mtr.=14.60 kg or 0.01460 t	t	0.01460	₹	102.47	₹	1.50
	Added 15 % for fittings and wastage						
	Cement Concrete 1:3:6 to close the chase						
04006	20 mm Stone Aggregate	cum	0.05450	₹	4,875.00		265.69
02003	Fine sand	cum	0.02730	₹	560.00	₹	15.29
03001	Cement	t	0.01240	₹	5,800.00	₹	71.92
	Cement plaster 1:4						
02003	Fine sand	cum	0.01150	₹	560.00		6.44
03001	Cement	t	0.00410	₹	5,800.00	₹	23.78
	CARRIAGE:						
0405	20 mm stone aggregate	cum	0.0545	₹	147.57		8.04
0425	Fine Sand	cum	0.03880	₹		₹	5.11
0421	Cement	t	0.01650	₹	102.47	₹	1.69
	For Painting Pipes:						
	15 mm pipe:3.14x0.021x10.00=0.659 sqm.						
12008	Anti Corrosive Bitumastic paint	litre	0.075	₹	110.00	₹	8.25
	LABOUR:						
	For cutting chase						
0203	Belder (M)	Day	0.95	₹	310.00	₹	294.50
	LABOUR:						
	For fixing pipe						

0215	Fitter (grade-1)	Day	0.33	₹	440.00	₹	145.20
0214	Fitter (2nd class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	For painting pipe						
0227	Painter	Day	0.33	₹	395.00	₹	130.35
	For shuttering the gap						
0210	Carpenter (2nd class)	Day	0.1625	₹	395.00	₹	64.19
0212	Helper	Day	0.1625	₹	310.00	₹	50.38
	For concreting and plastering/finishing						
0219	Mason (1st class)	Day	0.350	₹	440.00	₹	154.00
0203	Beldar	Day	0.350	₹	310.00	₹	108.50
0205	waterman	Day	0.100	₹	310.00	₹	31.00
	TOTAL					₹	2,882.72
	Add for Chisels for cutting chases, carriage of paint, cost of	@	1%			₹	28.83
	brushes, sand paper etc. [L.S]	w	170			<	20.03
	TOTAL					₹	2,911.55
	Add for white lead, hemp, ballies and planks ,Nails etc.	@	3.0%			₹	87.35
						₹	2,998.89
	TOTAL					<	2,990.09
	Add for Scaffolding/ladders for concreting and plaster wherever	@	2.0%			₹	59.98
	required etc.	_					
	TOTAL					₹	3,058.87
	Add for Sundries and contingencies	@	3.0%			₹	91.77
	TOTAL					₹	3,150.64
		@	4.00/				31.51
	Add for water charges	@	1.0%			₹	
	TOTAL					₹	3,182.14
	Add GST (multiplying factor)		0.1405			₹	447.09
	Add 450/ for contracted and the desired and are	@	15%			₹	3,629.23 544.39
	Add 15% for contractor's profit and overheads	w	15%			₹ ₹	
							4,173.62
	Add cess	@	1%			₹	41.74
	Cost for 10.00 mtr pipe length					₹	4,215.36
	Rate per mtr.					₹	421.54
	Say					₹	421.50
						-	

19.11 Providing and fixing G.I pipes complete with G.I. fittings and clamps, including making good the walls/floor etc. concealed pipe including painting two coats or more with anticorrosive bitumastic paint, cutting chases and making good the same.

19.11.2	20 mm dia nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre(A)						
	MATERIALS						
19029	20 mm dia G.I. Pipe	metre	11.50	₹	120.00	₹	1,380.00
	Add 15 % for fitting and wastage etc. on (A)						
	(10.00 + 1.5) = 11.50 mtr.						
	CARRIAGE:						
	Pipes & fittings						
0427	20 mm : 11.5 x1.65 kg/mtr.=18.97 kg or 0.01897 t	t	0.01897	₹	102.47	₹	1.94
	Added 15 % for fittings and wastage						
	Cement Concrete 1:3:6 to close the chase						
04006	20 mm Stone Aggregate	cum	0.05450	₹	4,875.00	₹	265.69
02002	Fine sand	cum	0.02730	₹	460.00	₹	12.56
03001	Cement	t	0.01240	₹	5,800.00	₹	71.92
	Cement plaster 1:4						
02002	Fine sand	cum	0.01150	₹	460.00	₹	5.29
03001	Cement	t	0.00410	₹	5,800.00	₹	23.78
	CARRIAGE:						
0409	20 mm stone aggregate	cum	0.0545	₹	419.97	₹	22.89
0410	Fine Sand	cum	0.03880	₹	681.03	₹	26.42
0416	Cement	t	0.01650	₹	2,799.82	₹	46.20
	For Painting Pipes:						
	15 mm pipe:3.14x0.021x10.00=0.659 sqm.						
12008	Anti Corrosive Bitumastic paint	litre	0.090	₹	110.00	₹	9.90
	LABOUR:						

	For cutting chase						
0203	Belder (M)	Day	0.95	₹	310.00	₹	294.50
	LABOUR:						
	For fixing pipe						
0215	Fitter (grade-1)	Day	0.33	₹	440.00		145.20
0214	Fitter (2nd class)	Day	0.66	₹	355.00	₹	234.30
0203	Belder	Day	0.66	₹	310.00	₹	204.60
	For painting pipe						
0227	Painter	Day	0.40	₹	395.00	₹	158.00
	For shuttering the gap	_		_		_	
0210	Carpenter (2nd class)	Day	0.1625	₹	395.00	₹	64.19
0212	Helper	Day	0.1625	₹	310.00	₹	50.38
0040	For concreting and plastering/finishing		0.050	~	440.00	-	454.00
0219	Mason (1st class)	Day	0.350	₹	440.00	₹	154.00
0203	Beldar	Day	0.350	₹	310.00	₹	108.50
0205	waterman	Day	0.100	₹	310.00	₹	31.00
	TOTAL					₹	3,311.25
	Add for Chisels for cutting chases, carriage of paint, cost of	@	1%			₹	33.11
	brushes, sand paper etc. [L.S]					-	
	TOTAL					₹	3,344.36
	Add for white lead, hemp, ballies and planks ,Nails etc.	@	3.0%			₹	100.33
	TOTAL					₹	3,444.69
	Add for Scaffolding/ladders for concreting and plaster wherever					_	
	required etc.	@	2.0%			₹	68.89
	TOTAL					₹	3,513.59
		@	3.0%			₹	105.41
	Add for Sundries and contingencies	•	0.070				
	TOTAL					₹	3,619.00
	Add for water charges	@	1.0%			₹	36.19
	TOTAL					₹	3,655.19
	Add GST (multiplying factor)		0.1405			₹	513.55
						₹	4,168.74
	Add 15% for contractor's profit and overheads	@	15%			₹	625.31
						₹	4,794.05
	Add cess	@	1%			₹	47.94
	Cost for 10.00 mtr pipe length					₹	4,841.99
	Rate per mtr.					₹	484.20
	Say					₹	484.20

External work

19.12.1 Code	15 mm dia. nominal bore Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19028	15 mm dia G.I. Pipe						
	Add 2 % for fitting and wastage etc. on (A)						
	(10.00 + 0.2) = 10.20 mtr.	metre	10.20	₹	92.00	₹	938.40
	CARRIAGE:						
	Pipes & fittings						
0427	15 mm : 10.2 x1.27 kg/mtr.=12.954 kg or 0.012954 t	t	0.012954	₹	102.47	₹	1.33
	Added 2 % for fittings and wastage						
	LABOUR:						
	For trenching & filling						
0203	Beldar	Day	0.70	₹	310.00	₹	217.00
0212	Coolie	Day	0.70	₹	310.00	₹	217.00
	For laying & joining pipe						
0215	Fitter (grade-1)	Day	0.10	₹	440.00	₹	44.00
0214	Fitter (2nd Class)	Day	0.225	₹	355.00	₹	79.88
0212	Helper	Day	0.225	₹	310.00	₹	69.75
	TOTAL					₹	1,567.35

Add for white lead lead, hemp oil etc.	@	3.5%	₹	54.86
TOTAL			₹	1,622.21
Add for Sundries and contingencies	@	3.0%	₹	48.67
TOTAL			₹	1,670.88
Add for water charges	@	1.0%	₹	16.71
TOTAL			₹	1,687.58
Add GST (multiplying factor)		0.1405	₹	237.11
			₹	1,924.69
Add 15% for contractor's profit and overheads	@	15%	₹	288.70
			₹	2,213.39
Add cess	@	1%	₹	22.13
Cost for 10.00 mtr pipe length			₹	2,235.53
Rate per mtr.			₹	223.55
Say			₹	223.60

Code	20 mm dia. nominal bore Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19029	20 mm dia G.I. Pipe Add 2 % for fitting and wastage etc. on (A) (10.00 + 0.2)=10.20 mtr. CARRIAGE:	metre	10.20	₹	120.00	₹	1,224.00
0427	Pipes & fittings 20 mm: 10.2 x1.65 kg/mtr.=16.830 kg or 0.01830 t Added 2 % for fittings and wastage LABOUR:	t	0.01683	₹	102.47	₹	1.72
0203 0212	For trenching & filling Beldar Coolie	Day Day	0.70 0.70	₹	310.00 310.00	₹	217.00 217.00
0215 0214 0212	For laying & joining pipe Fitter (grade-1) Fitter (2nd Class) Helper TOTAL	Day Day Day	0.15 0.250 0.250	₹	440.00 355.00 310.00	₹ ₹ ₹	66.00 88.75 77.50 1,891.97
	Add for white lead lead, hemp oil etc.	@	3.25%			₹	61.49
	TOTAL					₹	1,953.46
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	58.60 2,012.07
	Add for water charges TOTAL Add GST (multiplying factor)	@	0.1405			₹ ₹	20.12 2,032.19 285.52
	Add 15% for contractor's profit and overheads	@	15%			₹ ₹	2,317.71 347.66 2,665.37
	Add cess	@	1%			₹	26.65
	Cost for 10.00 mtr pipe length Rate per mtr. Say					₹ ₹	2,692.02 269.20 269.20

^{19.12} Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. (external work):

19.12.3 25 mm dia. nominal bore

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre(A)						
19030	MATERIALS 25 mm dia G.I. Pipe						
13030	Add 2 % for fitting and wastage etc. on (A)						
	(10.00 + 0.2)=10.20 mtr.	metre	10.20	₹	170.00	₹	1,734.00
	CARRIAGE:						,
	Pipes & fittings						
0427	25 mm : 10.20x 2.51 kg/mtr.=25.602 kg or 0.025602 t	t	0.02560	₹	102.47	₹	2.62
	Added 2 % for fittings and wastage						
	LABOUR:						
	For trenching & filling	_		-	0.4.0.00	~	0.17.00
0203	Beldar	Day	0.70	₹	310.00		217.00
0212	Coolie	Day	0.70	₹	310.00	₹	217.00
0215	For laying & joining pipe Fitter (grade-1)	Day	0.180	₹	440.00	₹	79.20
0213	Fitter (2nd Class)	Day	0.180	₹	355.00	₹	97.63
0214	Helper	Day	0.275	₹	310.00	₹	85.25
02.2	TOTAL	Day	0.270	•	010.00	₹	2,432.70
	IOIAL					•	2,432.70
	Add for white lead lead, hemp oil etc.	@	3.00%			₹	72.98
	TOTAL					₹	2,505.68
	Add for Sundries and contingencies	@	3.0%			₹	75.17
	TOTAL					₹	2,580.85
	Add for water charges	@	1.0%			₹	25.81
	TOTAL					₹	2,606.66
	Add GST (multiplying factor)		0.1405			₹	366.24
						₹	2,972.89
	Add 15% for contractor's profit and overheads	@	15%			₹	445.93
						₹	3,418.83
	Add cess	@	1%			₹	34.19
	Cost for 10.00 mtr pipe length					₹	3,453.02
	Rate per mtr.					₹	345.30
	Say					₹	345.30

19.12.4	32 mm dia. nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre(A)						
	MATERIALS						
19031	32 mm dia G.I. Pipe						
	Add 2 % for fitting and wastage etc. on (A)						
	(10.00 + 0.2) = 10.20 mtr.	metre	10.20	₹	215.00	₹	2,193.00
	CARRIAGE:						
	Pipes & fittings						
0427	32 mm : 10.20 x 3.23 kg/mtr.=32.946 kg or 0.032946 t	t	0.03295	₹	102.47	₹	3.38
	Added 2 % for fittings and wastage						
	LABOUR:						
	For trenching & filling						
0203	Beldar	Day	0.700	₹	310.00	₹	217.00
0212	Coolie	Day	0.700	₹	310.00	₹	217.00
	For laying & joining pipe						
0215	Fitter (grade-1)	Day	0.200	₹	440.00	₹	88.00
0214	Fitter (2nd Class)	Day	0.300	₹	355.00	₹	106.50
0212	Helper	Day	0.300	₹	310.00	₹	93.00
	TOTAL					₹	2,917.88
	Add for white lead lead, hemp oil etc.	@	3.00%			₹	87.54
	TOTAL					₹	3,005.41
	Add for Sundries and contingencies	@	3.0%			₹	90.16
	TOTAL					₹	3,095.57
	Add for water charges	@	1.0%			₹	30.96

TOTAL			₹	3,126.53
Add GST (multiplying factor)		0.1405	₹	439.28
			₹	3,565.81
Add 15% for contractor's profit and overheads	@	15%	₹	534.87
			₹	4,100.68
Add cess	@	1%	₹	41.01
Cost for 10.00 mtr pipe length			₹	4,141.69
Rate per mtr.			₹	414.17
Say			₹	414.20

19.12.5 Code	40 mm dia. nominal bore Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19032	40 mm dia G.I. Pipe Add 2 % for fitting and wastage etc. on (A) (10.00 + 0.2)=10.20 mtr. CARRIAGE: Pipes & fittings	metre	10.20	₹	250.00	₹	2,550.00
0427	40 mm: 10.20x 3.72 kg/mtr.=37.944 kg or 0.037944 t Added 2 % for fittings and wastage LABOUR: For trenching & filling	t	0.03794	₹	102.47	₹	3.89
0203	Beldar	Day	0.700	₹	310.00	=	217.00
0203	Coolie	Day	0.700	₹	310.00		217.00
0212	For laying & joining pipe	Day	0.700	•	310.00	`	217.00
0215	Fitter (grade-1)	Day	0.250	₹	440.00	₹	110.00
0213	Fitter (2nd Class)	Day	0.250	₹	355.00	₹	124.25
0214	Helper	Day	0.350	₹	310.00	₹	108.50
0212	TOTAL	Day	0.550	`	310.00	₹	3,330.64
	Add for white lead lead, hemp oil etc.	@	3.00%			₹	99.92
	TOTAL					₹	3,430.56
	Add for Sundries and contingencies	@	3.0%			₹	102.92
	TOTAL					₹	3,533.47
	Add for water charges TOTAL	@	1.0%			₹	35.33 3,568.81
	Add GST (multiplying factor)		0.1405			₹ ₹	501.42 4,070.23
	Add 15% for contractor's profit and overheads	@	15%			₹ ₹	610.53 4,680.76
	Add cess	@	1%			₹	46.81
	Cost for 10.00 mtr pipe length					₹	4,727.57
	Rate per mtr.					₹	472.76
	Say					₹	472.80
	,						

19.12 Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. (external work):

19.12.6 Code	50 mm dia. nominal bore Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity	Rate		Amount
19033	50 mm dia G.I. Pipe					
	Add 2 % for fitting and wastage etc. on (A)					
	(10.00 + 0.2) = 10.20 mtr.	metre	10.20	310.00	₹	3,162.00
	CARRIAGE:					
	Pipes & fittings					
0427	50 mm : 10.20 x 5.24 kg/mtr.=53.448 kg or 0.053448 t	t	0.053448	102.47	₹	5.48
	Added 2 % for fittings and wastage					
	LABOUR:					
	For trenching & filling					

0203	Beldar	Day	0.700	₹	310.00	₹	217.00
0212	Coolie	Day	0.700	₹	310.00	₹	217.00
	For laying & joining pipe						
0215	Fitter (grade-1)	Day	0.250	₹	440.00	₹	110.00
0214	Fitter (2nd Class)	Day	0.350	₹	355.00	₹	124.25
0212	Helper	Day	0.350	₹	310.00	₹	108.50
	TOTAL					₹	3,944.23
	Add for white lead lead, hemp oil etc.	@	2.50%			₹	98.61
	TOTAL					₹	4,042.83
	Add for Sundries and contingencies	@	3.0%			₹	121.28
	TOTAL					₹	4,164.12
	Add for water charges	@	1.0%			₹	41.64
	TOTAL					₹	4,205.76
	Add GST (multiplying factor)		0.1405			₹	590.91
						₹	4,796.67
	Add 15% for contractor's profit and overheads	@	15%			₹	719.50
						₹	5,516.17
	Add cess	@	1%			₹	55.16
	Cost for 10.00 mtr pipe length					₹	5,571.33
	Rate per mtr.					₹	557.13
	Say					₹	557.10

19.12.7 Code	65 mm dia. nominal bore Description Details of cost for 10 metre(A)	Unit	Quantity		Rate		Amount
19034	MATERIALS 65 mm dia G.I. Pipe						
13034	Add 2 % for fitting and wastage etc. on (A)						
	(10.00 + 0.2)=10.20 mtr.	metre	10.20	₹	395.00	₹	4,029.00
	CARRIAGE:						,
	Pipes & fittings						
0427	65 mm : 10.20 x 6.666 kg/mtr.=67.9932 kg or 0.0679932 t	t	0.0679932	₹	102.47	₹	6.97
	Added 2 % for fittings and wastage						
	LABOUR:						
	For trenching & filling	_	0.700	-	0.4.0.00	-	0.17.00
0203	Beldar	Day	0.700	₹	310.00		217.00
0212	Coolie	Day	0.700	₹	310.00	₹	217.00
0215	For laying & joining pipe Fitter (grade-1)	Day	0.300	₹	440.00	₹	132.00
0213	Fitter (2nd Class)	Day	0.400	₹	355.00	₹	142.00
0214	Helper	Day	0.400	₹	310.00	₹	124.00
0212	TOTAL	Zuj	0.100	•	010.00	` ₹	4,867.97
		_					
	Add for white lead lead, hemp oil etc.	@	2.0%			₹	97.36
	TOTAL					₹	4,965.33
	Add for Sundries and contingencies	@	3.0%			₹	148.96
	TOTAL					₹	5,114.29
	Add for water charges	@	1.0%			₹	51.14
	TOTAL					₹	5,165.43
	Add GST (multiplying factor)		0.1405			₹	725.74
		_				₹	5,891.17
	Add 15% for contractor's profit and overheads	@	15%			₹	883.68
						₹	6,774.85
	Add cess	@	1%			₹	67.75
	Cost for 10.00 mtr pipe length					₹	6,842.60
	Rate per mtr.					₹	684.26
	Say					₹	684.30

19.12 Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. (external work):

Code	80 mm dia. nominal bore Description Details of cost for 10 metre(A) MATERIALS	Unit	Quantity		Rate		Amount
19035	80 mm dia G.I. Pipe Add 2 % for fitting and wastage etc. on (A) (10.00 + 0.2)=10.20 mtr. CARRIAGE:	metre	10.20	₹	505.00	₹	5,151.00
0427	Pipes & fittings 80 mm: 10.20 x 8.63 kg/mtr.=88.026 kg or 0.088026 t Added 2 % for fittings and wastage LABOUR: For trenching & filling	t	0.088026	₹	102.47	₹	9.02
0203	Beldar	Day	0.700	₹	310.00	₹	217.00
0212	Coolie	Day	0.700	₹	310.00		217.00
-	For laying & joining pipe						
0215	Fitter (grade-1)	Day	0.075	₹	440.00	₹	33.00
0214	Fitter (2nd Class)	Day	0.425	₹	355.00	₹	150.88
0212	Helper	Day	0.425	₹	310.00	₹	131.75
	TOTAL	·				₹	5,909.65
	Add for white lead lead, hemp oil etc.	@	2.0%			₹	118.19
	TOTAL					₹	6,027.84
	Add for Sundries and contingencies	@	3.0%			₹	180.84
	TOTAL					₹	6,208.67
	Add for water charges	@	1.0%			₹	62.09
	TOTAL Add GST (multiplying factor)		0.1405			₹	6,270.76 881.04
	Add 15% for contractor's profit and overheads	@	15%			₹ ₹	7,151.80 1,072.77 8,224.57
	Add cess	@	1%			₹	82.25
	Cost for 10.00 mtr pipe length Rate per mtr. Say					₹ ₹	8,306.82 830.68 830.70

19.13 Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete:

19.13.1 Code	25 to 40 mm nominal bore Description Details of cost for one connection. Take 25mm dia as an average size. Materials:-	Unit	Quantity		Rate		Amount
19038	G.I. Tee of size 25 mm dia	each	1.00	₹	60.00	₹	60.00
19036	G.L. jam nut of size 25mm LABOUR:	each	1.00	₹	10.00	₹	10.00
0215	Fitter (grade-1)	Day	0.330	₹	440.00	₹	145.20
0203	Belder	Day	0.330	₹	310.00	₹	102.30
	TOTAL					₹	317.50
	Add for Sundries and contingencies in/c carriage etc. [L.S.]	@	3.0%			₹	9.53
	TOTAL					₹	327.03
	Add for water charges	@	1.0%			₹	3.27
	TOTAL					₹	330.30
	Add GST (multiplying factor)		0.1405			₹	46.41
						₹	376.70
	Add 15% for contractor's profit and overheads	@	15%			₹	56.51
						₹	433.21
	Add cess	@	1%			₹	4.33
	Cost for per connection					₹	437.54

Say

437.50

19.13 Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete:

19.13.2	50 to 80 mm nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one connection.						
	Take 65 mm dia as an average size.						
	Materials:-						
19039	G.I. Tee of size 65 mm dia	each	1.00	₹	300.00	₹	300.00
19037	G.L. jam nut of size 65mm	each	1.00	₹	20.00	₹	20.00
	LABOUR:						
0215	Fitter (grade-1)	Day	0.450	₹	440.00	₹	198.00
0203	Belder	Day	0.450	₹	310.00	₹	139.50
	TOTAL					₹	657.50
	Add for Sundries and contingencies in/c carriage etc. [L.S.]	@	3.0%			₹	19.73
	TOTAL					₹	677.23
	Add for water charges	@	1.0%			₹	6.77
	TOTAL					₹	684.00
	Add GST (multiplying factor)		0.1405			₹	96.10
	TOTAL					₹	780.10
	Add 15% for contractor's profit and overheads	@	15%			₹	117.01
	TOTAL					₹	897.11
	Add cess	@	1%			₹	8.97
	Cost for per connection					₹	906.08
	Say					₹	906.10

19.14 Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).

Code	Description Details of cost for fixing water meter without the cost of stop cock & water meter	Unit	Quantity		Rate		Amount
19036	Materials :- G .I. Jam nut 25mm dia. LABOUR:	each	1.00	₹	10.00	₹	10.00
0215	Fitter (grade-1)	Day	0.330	₹	440.00	₹	145.20
0203	Belder	Day	0.330	₹	310.00	₹	102.30
	TOTAL					₹	257.50
	Add for Sundries and contingencies in/c carriage etc. [L.S.]	@	1%			₹	2.58
	TOTAL					₹	260.08
	Add for water charges	@	1.0%			₹	2.60
	TOTAL					₹	262.68
	Add GST (multiplying factor) TOTAL		0.1405			₹ ₹	36.91 299.58
	Add 15% for contractor's profit and overheads	@	15%			₹ ₹	299.56 44.94
	TOTAL		1070			₹	344.52
	Add cess	@	1%			₹	3.45
	Cost for per connection					₹	347.96
	Say					₹	348.00
19.15 19.15.1	Providing and fixing brass bib cock of approved quality : 15 mm nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
40005	Materials:-		4.00	-	045.00	-	045.00
19005	15 mm dia. brass bib cock.	each	1.00	₹	215.00	₹	215.00
	TOTAL					₹	215.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	2.15
	TOTAL					₹	217.15
	Add for Sundries and contingencies	@	3.0%			₹	6.51
	TOTAL					₹	223.66

		_					
	Add for water charges	@	1.0%			₹	2.24
	TOTAL Add GST (multiplying factor)		0.1405			₹	225.90 31.74
	TOTAL		0.1403			₹	257.64
	Add 15% for contractor's profit and overheads TOTAL	@	15%			₹ ₹	38.65 296.29
	Add cess	@	1%			₹	2.96
	Cost for p/f one brass bib cock					₹	299.25
	Say					₹	299.20
19.15	Providing and fixing brass bib cock of approved quality :						
	20 mm nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
10000	Materials:-	b	4.00	=	045.00	=	245.00
19006	20 mm dia. brass bib cock.	each	1.00	₹	245.00	₹	245.00
	TOTAL	•				₹	245.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	2.45
	TOTAL					₹	247.45
	Add for Sundries and contingencies	@	3.0%			₹	7.42
	TOTAL	0	4.00/			₹	254.87
	Add for water charges TOTAL	@	1.0%			₹ ₹	2.55 257.42
	Add GST (multiplying factor)		0.1405			₹	36.17
	TOTAL					₹	293.59
	Add 15% for contractor's profit and overheads	@	15%			₹	44.04
	TOTAL					₹	337.63
	Add cess	@	1%			₹	3.38
	Cost for p/f one brass bib cock					₹	341.00
	Say					₹	341.00
19.16	Providing and fixing brass stop cock of approved quality :						
19.16.1	15 mm nominal bore						
	15 mm nominal bore Description	Unit	Quantity		Rate		Amount
19.16.1	15 mm nominal bore Description Details of cost for one no.	Unit	Quantity		Rate		Amount
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:-		·	₹		₹	
19.16.1	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock.	Unit each	Quantity	₹	Rate 215.00	₹	215.00
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL	each	1.00	₹		₹	215.00 215.00
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.]		·	₹		₹	215.00 215.00 2.15
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL	each	1.00	₹		₹ ₹	215.00 215.00 2.15 217.15
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies	each	1.00	₹		₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL	each @ @	1.00 1% 3.0%	₹		₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies	each	1.00	₹		₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	each @ @	1.00 1% 3.0%	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL	each @ @ @	1.00 1% 3.0% 1.0% 0.1405	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads	each @ @	1.00 1% 3.0% 1.0%	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL	each @ @ @ @	1.00 1% 3.0% 1.0% 0.1405 15%	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess	each @ @ @	1.00 1% 3.0% 1.0% 0.1405	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for p/f one brass stop cock	each @ @ @ @	1.00 1% 3.0% 1.0% 0.1405 15%	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96 299.25
19.16.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess	each @ @ @ @	1.00 1% 3.0% 1.0% 0.1405 15%	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96
19.16.1 Code 19007	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for p/f one brass stop cock Say Providing and fixing brass stop cock of approved quality:	each @ @ @ @	1.00 1% 3.0% 1.0% 0.1405 15%	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96 299.25
19.16.1 Code 19007	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for p/f one brass stop cock Say Providing and fixing brass stop cock of approved quality: 20 mm nominal bore	each @ @ @ @ @	1.00 1% 3.0% 1.0% 0.1405 15% 1%	₹	215.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96 299.25 299.20
19.16.1 Code 19007	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for p/f one brass stop cock Say Providing and fixing brass stop cock of approved quality:	each @ @ @ @	1.00 1% 3.0% 1.0% 0.1405 15%	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96 299.25
19.16.1 Code 19007	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for p/f one brass stop cock Say Providing and fixing brass stop cock of approved quality: 20 mm nominal bore Description	each @ @ @ @ @	1.00 1% 3.0% 1.0% 0.1405 15% 1%	₹	215.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96 299.25 299.20
19.16.1 Code 19007	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for p/f one brass stop cock Say Providing and fixing brass stop cock of approved quality: 20 mm nominal bore Description Details of cost for one no.	each @ @ @ @ @	1.00 1% 3.0% 1.0% 0.1405 15% 1%	₹	215.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96 299.25 299.20
19.16.1 Code 19007 19.16 19.16.2 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for p/f one brass stop cock Say Providing and fixing brass stop cock of approved quality: 20 mm nominal bore Description Details of cost for one no. Materials:-	each @ @ @ White	1.00 1% 3.0% 1.0% 0.1405 15% 1% Quantity		215.00 Rate	*	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96 299.25 299.20 Amount
19.16.1 Code 19007 19.16 19.16.2 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for p/f one brass stop cock Say Providing and fixing brass stop cock of approved quality: 20 mm nominal bore Description Details of cost for one no. Materials:- 20 mm dia. brass stop cock.	each @ @ @ White	1.00 1% 3.0% 1.0% 0.1405 15% 1% Quantity		215.00 Rate	**************************************	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96 299.25 299.20 Amount
19.16.1 Code 19007 19.16 19.16.2 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for p/f one brass stop cock Say Providing and fixing brass stop cock of approved quality: 20 mm nominal bore Description Details of cost for one no. Materials:- 20 mm dia. brass stop cock. TOTAL	each @ @ @ White each	1.00 1% 3.0% 1.0% 0.1405 15% 1% Quantity 1.00		215.00 Rate	** * * * * * * * * * * * * * * * * * *	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96 299.25 299.20 Amount
19.16.1 Code 19007 19.16 19.16.2 Code	15 mm nominal bore Description Details of cost for one no. Materials:- 15 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for p/f one brass stop cock Say Providing and fixing brass stop cock of approved quality: 20 mm nominal bore Description Details of cost for one no. Materials:- 20 mm dia. brass stop cock. TOTAL Add for Carriage of materials and fixing charges etc.[L.S.]	each @ @ @ White each	1.00 1% 3.0% 1.0% 0.1405 15% 1% Quantity 1.00		215.00 Rate	* * * * * * * * * * * * * * * * * * *	215.00 215.00 2.15 217.15 6.51 223.66 2.24 225.90 31.74 257.64 38.65 296.29 2.96 299.25 299.20 Amount

TOTAL Add for water charges TOTAL Add GST (multiplying factor)	@	1.0% 0.1405	₹ ₹ ₹	306.89 3.07 309.96 43.55
TOTAL Add 15% for contractor's profit and overheads TOTAL	@	15%	₹ ₹ ₹	353.51 53.03 406.53
Add cess	@	1%	₹	4.07
Cost for p/f one brass stop cock Say			₹ ₹	410.60 410.60

19.17 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):

19.17.1 Code	25 mm nominal bore Description Details of cost for one no. Materials:-	Unit	Quantity		Rate	ı	Amount
19061	25 mm dia. Gun metal gate valve with wheel	each	1.00	₹	368.00	₹	368.00
	TOTAL					₹	368.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	3.68
	TOTAL					₹	371.68
	Add for Sundries and contingencies	@	3.0%			₹	11.15
	TOTAL					₹	382.83
	Add for water charges	@	1.0%			₹	3.83
	TOTAL					₹	386.66
	Add GST (multiplying factor)		0.1405			₹	54.33
	TOTAL					₹	440.98
	Add 15% for contractor's profit and overheads	@	15%			₹	66.15
	TOTAL					₹	507.13
	Add cess	@	1%			₹	5.07
	Cost for p/f one brass full way gate valve					₹	512.20

19.17 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):

Say

19.17.2 Code	32 mm nominal bore Description Details of cost for one no. Materials:-	Unit	Quantity		Rate	A	Amount
19062	32 mm dia. Gun metal gate valve with wheel	each	1.00	₹	430.00	₹	430.00
	TOTAL					₹	430.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	4.30
	TOTAL					₹	434.30
	Add for Sundries and contingencies	@	3.0%			₹	13.03
	TOTAL					₹	447.33
	Add for water charges	@	1.0%			₹	4.47
	TOTAL					₹	451.80
	Add GST (multiplying factor)		0.1405			₹	63.48
	TOTAL	•				₹	515.28
	Add 15% for contractor's profit and overheads	@	15%			₹	77.29
	TOTAL					₹	592.57
	Add cess	@	1%			₹	5.93
	Cost for p/f one brass full way gate valve Say					₹ ₹	598.50 598.50

19.17 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):

19.17.3	40 mm nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials :-						
19063	40 mm dia. Gun metal gate valve with wheel	each	1.00	₹	500.00	₹	500.00

512.20

TOTAL			₹	500.00
Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%	₹	5.00
TOTAL			₹	505.00
Add for Sundries and contingencies	@	3.0%	₹	15.15
TOTAL			₹	520.15
Add for water charges	@	1.0%	₹	5.20
TOTAL			₹	525.35
Add GST (multiplying factor)		0.1405	₹	73.81
TOTAL			₹	599.16
Add 15% for contractor's profit and overheads	@	15%	₹	89.87
TOTAL			₹	689.04
Add cess	@	1%	₹	6.89
Cost for p/f one brass full way gate valve			₹	695.93
Say			₹	695.90

19.17 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):

19.17.4 Code	50 mm nominal bore Description Details of cost for one no. Materials:-	Unit	Quantity		Rate	,	Amount
19064	50 mm dia. Gun metal gate valve with wheel	each	1.00	₹	680.00	₹	680.00
	TOTAL					₹	680.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	6.80
	TOTAL					₹	686.80
	Add for Sundries and contingencies	@	3.0%			₹	20.60
	TOTAL					₹	707.40
	Add for water charges	@	1.0%			₹	7.07
	TOTAL					₹	714.48
	Add GST (multiplying factor)		0.1405			₹	100.38
	TOTAL					₹	814.86
	Add 15% for contractor's profit and overheads	@	15%			₹	122.23
	TOTAL					₹	937.09
	Add cess	@	1%			₹	9.37
	Cost for p/f one brass full way gate valve					₹	946.46
	Say					₹	946.50

19.17 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):

19.17.5 Code	65 mm nominal bore Description Details of cost for one no. Materials:-	Unit	Quantity		Rate	,	Amount
19065	65 mm dia. Gun metal gate valve with wheel	each	1.00	₹	1,080.00	₹	1,080.00
	TOTAL					₹	1,080.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	10.80
	TOTAL					₹	1,090.80
	Add for Sundries and contingencies	@	3.0%			₹	32.72
	TOTAL					₹	1,123.52
	Add for water charges	@	1.0%			₹	11.24
	TOTAL					₹	1,134.76
	Add GST (multiplying factor)		0.1405			₹	159.43
	TOTAL					₹	1,294.19
	Add 15% for contractor's profit and overheads	@	15%			₹	194.13
	TOTAL					₹	1,488.32
	Add cess	@	1%			₹	14.88
	Cost for p/f one brass full way gate valve					₹	1,503.21
	Say					₹	1,503.20

19.17 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):

19.17.6	80 mm nominal bore						
Code	Description Details of cost for one no.	Unit	Quantity		Rate		Amount
19066	Materials :- 80 mm dia. Gun metal gate valve with wheel	each	1.00	₹	1,620.00	₹	1,620.00
	TOTAL Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	1,620.00 16.20
	TOTAL Add for Sundries and contingencies	@	3.0%			₹	1,636.20 49.09
	TOTAL Add for water charges	@	1.0%			₹	1,685.29 16.85
	TOTAL Add GST (multiplying factor)		0.1405			₹	1,702.14 239.15
	TOTAL Add 15% for contractor's profit and overheads TOTAL	@	15%			₹ ₹	1,941.29 291.19 2,232.48
	Add cess	@	1%			₹	22.32
	Cost for p/f one brass full way gate valve Say					₹	2,254.81 2,254.80
19.18							
	Providing and fixing ball valve (brass) of approved quality High or low pressure, with plastic floats complete: High or low pressure with plastic floats: 15 mm nominal bore						
Code	Description Details of cost for one no. Materials:-	Unit	Quantity		Rate		Amount
19058	15 mm ball valve with float	each	1.00	₹	240.00	₹	240.00 240.00
	TOTAL Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	2.40
	TOTAL	J	.,,			₹	242.40
	Add for Sundries and contingencies	@	3.0%			₹	7.27
	TOTAL Add for water charges	@	1.0%			₹	249.67 2.50
	TOTAL Add GST (multiplying factor)		0.1405			₹	252.17 35.43
	TOTAL					₹	287.60
	Add 15% for contractor's profit and overheads TOTAL	@	15%			₹ ₹	43.14 330.74
	Add cess	@	1%			₹	3.31
	Rate for per ball valve Say					₹	334.05 334.00
19.18	Providing and fixing ball valve (brass) of approved quality						
	High or low pressure, with plastic floats complete : High or low pressure with plastic floats: 20 mm nominal bore						
Code	Description Details of cost for one no. Materials:-	Unit	Quantity		Rate		Amount
19059	20 mm ball valve with float TOTAL	each	1.00	₹	360.00	₹	360.00 360.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	3.60
	TOTAL					₹	363.60
	Add for Sundries and contingencies	@	3.0%			₹	10.91
	TOTAL Add for water charges TOTAL	@	1.0%			₹	374.51 3.75 378.25
	Add GST (multiplying factor)		0.1405			₹	53.14

TOTAL Add 15% for contractor's profit and overheads TOTAL	@	15%	₹ ₹	431.40 64.71 496.11
Add cess	@	1%	₹	4.96
Rate for per ball valve Say			₹	501.07 501.10

19.18 Providing and fixing ball valve (brass) of approved quality complete :

19.18.1 High or low pressure with plastic floats:

19 18 1 3 25 mm nominal hore	19	18	1 2 25	mm	nomina	hore
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Description Details of cost for one no.	Unit	Quantity		Rate	,	Amount
20 mm ball valve with float	each	1.00	₹	420.00	₹	420.00
TOTAL					₹	420.00
Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	4.20
TOTAL					₹	424.20
Add for Sundries and contingencies	@	3.0%			₹	12.73
TOTAL					₹	436.93
Add for water charges	@	1.0%			₹	4.37
TOTAL					₹	441.30
Add GST (multiplying factor)		0.1405			₹	62.00
TOTAL					₹	503.30
Add 15% for contractor's profit and overheads	@	15%			₹	75.49
TOTAL					₹	578.79
Add cess	@	1%			₹	5.79
Rate for per ball valve					₹	584.58
Say					₹	584.60
	Details of cost for one no. Materials:- 20 mm ball valve with float TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Rate for per ball valve	Details of cost for one no. Materials:- 20 mm ball valve with float each TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Rate for per ball valve	Details of cost for one no. Materials:- 20 mm ball valve with float each 1.00 TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] @ 1% TOTAL Add for Sundries and contingencies TOTAL Add for water charges @ 1.0% TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess @ 15% Rate for per ball valve	Details of cost for one no. Materials:- 20 mm ball valve with float TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] Add for Sundries and contingencies TOTAL Add for water charges Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Rate for per ball valve	Details of cost for one no. Materials:- 20 mm ball valve with float each 1.00 ₹ 420.00 TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] @ 1% TOTAL Add for Sundries and contingencies TOTAL Add for water charges 0 1.0% TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess 0 15% Rate for per ball valve	Details of cost for one no. Materials:- 20 mm ball valve with float each 1.00 ₹ 420.00 ₹ TOTAL Add for Carriage of materials and fixing charges etc.[L.S.] @ 1% ₹ TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add for water charges TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Rate for per ball valve ### Add Cass ### Ad

19.19 Providing and fixing gun metal non-return valve of approved quality (screwed end):

19.19.1 25 mm nominal bore

	19.19.1	1.1 Hor	rizontal
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19.19.1.1 Code	Description Details of cost for one no. Materials:-	Unit	Quantity		Rate	A	Amount
19067	25 mm non return valve	each	1.00	₹	340.00	₹	340.00
	TOTAL					₹	340.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	3.40
	TOTAL					₹	343.40
	Add for Sundries and contingencies	@	3.0%			₹	10.30
	TOTAL					₹	353.70
	Add for water charges	@	1.0%			₹	3.54
	TOTAL					₹	357.24
	Add GST (multiplying factor)		0.1405			₹	50.19
	TOTAL					₹	407.43
	Add 15% for contractor's profit and overheads	@	15%			₹	61.11
	TOTAL					₹	468.55
	Add cess	@	1%			₹	4.69
	Rate for per non-return valve					₹	473.23
	Say					₹	473.20

19.19 Providing and fixing gun metal non-return valve of approved quality (screwed end):

19.19.1 25 mm nominal bore

19.19.1.2 Vertical

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials :-						
19088	25 mm non return valve	each	1.00	₹	365.00	₹	365.00
	TOTAL					₹	365.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	3.65

TOTAL			₹	368.65
Add for Sundries and contingencies	@	3.0%	₹	11.06
TOTAL			₹	379.71
Add for water charges	@	1.0%	₹	3.80
TOTAL			₹	383.51
Add GST (multiplying factor)		0.1405	₹	53.88
TOTAL			₹	437.39
Add 15% for contractor's profit and overheads	@	15%	₹	65.61
TOTAL			₹	503.00
Add cess	@	1%	₹	5.03
Rate for per non-return valve			₹	508.03
Say			₹	508.00

19.19.2 32 mm nominal bore

19.19.1.1 Horizontal

19.19.1.1 Horizontal							
Code Description Details of cost for Materials :-	r one no.	Unit	Quantity		Rate	Þ	Amount
19068 32 mm non return	n valve	each	1.00	₹	450.00	₹	450.00
TOTAL						₹	450.00
Add for Carriage	of materials and fixing charges etc.[L.S.]	@	1%			₹	4.50
TOTAL						₹	454.50
Add for Sundries	and contingencies	@	3.0%			₹	13.64
TOTAL						₹	468.14
Add for water cha	arges	@	1.0%			₹	4.68
TOTAL						₹	472.82
Add GST (multiplyi	ng factor)		0.1405			₹	66.43
TOTAL						₹	539.25
Add 15% for conf	tractor's profit and overheads	@	15%			₹	80.89
TOTAL						₹	620.13
Add cess		@	1%			₹	6.20
Rate for per non- Say	return valve					₹ ₹	626.34 626.30

19.19 Providing and fixing gun metal non-return valve of approved quality (screwed end):

19.19.2 32 mm nominal bore

19.19.1.2 Vertical

Code	Description Details of cost for one no. Materials:-	Unit	Quantity	Rate	A	mount
19089	32 mm non return valve	each	1.00	₹ 535.00) ₹	535.00
	TOTAL				₹	535.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%		₹	5.35
	TOTAL				₹	540.35
	Add for Sundries and contingencies	@	3.0%		₹	16.21
	TOTAL				₹	556.56
	Add for water charges	@	1.0%		₹	5.57
	TOTAL				₹	562.13
	Add GST (multiplying factor)		0.1405		₹	78.98
	TOTAL				₹	641.10
	Add 15% for contractor's profit and overheads	@	15%		₹	96.17
	TOTAL				₹	737.27
	Add cess	@	1%		₹	7.37
	Rate for per non-return valve				₹	744.64
	Say				₹	744.60

19.19.3 40 mm nominal bore

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Code	Description	Unit	Quantity	Rate		1	Amount
	Details of cost for one no. Materials:-						
19069	40 mm non return valve	each	1.00	₹	560.00	₹	560.00
	TOTAL					₹	560.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	5.60
	TOTAL					₹	565.60
	Add for Sundries and contingencies	@	3.0%			₹	16.97
	TOTAL					₹	582.57
	Add for water charges	@	1.0%			₹	5.83
	TOTAL					₹	588.39
	Add GST (multiplying factor)		0.1405			₹	82.67
	TOTAL					₹	671.06
	Add 15% for contractor's profit and overheads	@	15%			₹	100.66
	TOTAL					₹	771.72
	Add cess	@	1%			₹	7.72
	Rate for per non-return valve					₹	779.44
	Say					₹	779.40

19.19 Providing and fixing gun metal non-return valve of approved quality (screwed end):

19.19.3 40 mm nominal bore

19.19.1.2 Vertical

Code	Description Details of cost for one no. Materials:-	Unit	Quantity		Rate	A	Amount
19090	40 mm non return valve	each	1.00	₹	710.00	₹	710.00
	TOTAL					₹	710.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	7.10
	TOTAL					₹	717.10
	Add for Sundries and contingencies	@	3.0%			₹	21.51
	TOTAL					₹	738.61
	Add for water charges	@	1.0%			₹	7.39
	TOTAL					₹	746.00
	Add GST (multiplying factor)		0.1405			₹	104.81
	TOTAL					₹	850.81
	Add 15% for contractor's profit and overheads	@	15%			₹	127.62
	TOTAL					₹	978.43
	Add cess	@	1%			₹	9.78
	Rate for per non-return valve					₹	988.22
	Say					₹	988.20

19.19 Providing and fixing gun metal non-return valve of approved quality (screwed end):

19.19.4 50 mm nominal bore

19.19.1.1 Horizontal

Code	Description	Unit	Quantity		Rate	/	Amount
	Details of cost for one no.						
	Materials :-						
19070	50 mm non return valve	each	1.00	₹	820.00	₹	820.00
	TOTAL					₹	820.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	8.20
	TOTAL					₹	828.20
	Add for Sundries and contingencies	@	3.0%			₹	24.85
	TOTAL					₹	853.05
	Add for water charges	@	1.0%			₹	8.53
	TOTAL					₹	861.58
	Add GST (multiplying factor)		0.1405			₹	121.05
	TOTAL					₹	982.63

Add 15% for contractor's profit and overheads TOTAL	@	15%	₹ ₹	147.39 1,130.02
Add cess	@	1%	₹	11.30
Rate for per non-return valve Say			₹	1,141.32 1,141.30

19.19.4 50 mm nominal bore

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Details of cost for one no.		
Materials :-	50.00 ₹	950.00
TOTAL	₹	950.00
Add for Carriage of materials and fixing charges etc.[L.S.] @ 1%	₹	9.50
TOTAL	₹	959.50
Add for Sundries and contingencies @ 3.0%	₹	28.79
TOTAL	₹	988.29
Add for water charges @ 1.0% TOTAL	₹ ₹	9.88 998.17
Add GST (multiplying factor) 0.1405	₹	140.24
TOTAL Add 15% for contractor's profit and overheads @ 15% TOTAL	₹ ₹	1,138.41 170.76 1,309.17
Add cess @ 1%	₹	13.09
Rate for per non-return valve Say	₹ ₹	1,322.26 1,322.30

19.19 Providing and fixing gun metal non-return valve of approved quality (screwed end):

19.19.5 65 mm nominal bore

19.19.1.1	Horizontal
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Code	Description Details of cost for one no.	Unit	Quantity		Rate		Amount
19071	Materials :- 65 mm non return valve	each	1.00	₹	1,500.00	₹	1,500.00
	TOTAL					₹	1,500.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	15.00
	TOTAL					₹	1,515.00
	Add for Sundries and contingencies	@	3.0%			₹	45.45
	TOTAL					₹	1,560.45
	Add for water charges	@	1.0%			₹	15.60
	TOTAL					₹	1,576.05
	Add GST (multiplying factor)		0.1405			₹	221.44
	TOTAL					₹	1,797.49
	Add 15% for contractor's profit and overheads	@	15%			₹	269.62
	TOTAL					₹	2,067.11
	Add cess	@	1%			₹	20.67
	Rate for per non-return valve					₹	2,087.78
	Say					₹	2,087.80

19.19 Providing and fixing gun metal non-return valve of approved quality (screwed end):

19.19.5 65 mm nominal bore

19.19.1.2 Vertical

Description	Unit	Quantity		Rate		Amount
Details of cost for one no.						
Materials :-						
65 mm non return valve	each	1.00	₹	1,620.00	₹	1,620.00
	Description Details of cost for one no. Materials:-	Description Unit Details of cost for one no. Materials:-	DescriptionUnitQuantityDetails of cost for one no.Materials :-	Description Unit Quantity Details of cost for one no. Materials:-	DescriptionUnitQuantityRateDetails of cost for one no.Materials :-	Description Unit Quantity Rate Details of cost for one no. Materials:-

TOTAL			₹	1,620.00
Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%	₹	16.20
TOTAL			₹	1,636.20
Add for Sundries and contingencies	@	3.0%	₹	49.09
TOTAL			₹	1,685.29
Add for water charges	@	1.0%	₹	16.85
TOTAL			₹	1,702.14
Add GST (multiplying factor)		0.1405	₹	239.15
TOTAL			₹	1,941.29
Add 15% for contractor's profit and overheads	@	15%	₹	291.19
TOTAL			₹	2,232.48
Add cess	@	1%	₹	22.32
Rate for per non-return valve			₹	2,254.81
Say			₹	2,254.80

19.19.6	80 mm	nominal	bore
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13.13.0	oo iiiii iioiiiiiai bore						
19.19.1.1	Horizontal						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials :-						
19072	80 mm non return valve	each	1.00	₹	2,150.00	₹	2,150.00
	TOTAL					₹	2,150.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	21.50
	TOTAL					₹	2,171.50
	Add for Sundries and contingencies	@	3.0%			₹	65.15
	TOTAL					₹	2,236.65
	Add for water charges	@	1.0%			₹	22.37
	TOTAL					₹	2,259.01
	Add GST (multiplying factor)		0.1405			₹	317.39
	TOTAL					₹	2,576.40
	Add 15% for contractor's profit and overheads	@	15%			₹	386.46
	TOTAL					₹	2,962.86
	Add cess	@	1%			₹	29.63
	Rate for per non-return valve					₹	2,992.49
	Say					₹	2,992.50

19.19 Providing and fixing gun metal non-return valve of approved quality (screwed end):

19.19.6 80 mm nominal bore

10.10.0	oo iiiii iioiiiiidi solo						
19.19.1.2	Vertical						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials :-						
19093	80 mm non return valve	each	1.00	₹	2,150.00	₹	2,150.00
	TOTAL					₹	2,150.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	21.50
	TOTAL					₹	2,171.50
	Add for Sundries and contingencies	@	3.0%			₹	65.15
	TOTAL					₹	2,236.65
	Add for water charges	@	1.0%			₹	22.37
	TOTAL					₹	2,259.01
	Add GST (multiplying factor)		0.1405			₹	317.39
	TOTAL					₹	2,576.40
	Add 15% for contractor's profit and overheads	@	15%			₹	386.46
	TOTAL					₹	2,962.86
	Add cess	@	1%			₹	29.63
	Rate for per non-return valve					₹	2,992.49

₹ 2,992.50

19.20 Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main:

19.20.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:-	Unit	Quantity		Rate		Amount
19009	15 mrn diameter brass-ferrule	each	1.00	₹	160.00	₹	160.00
	TOTAL					₹	160.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	1.60
	TOTAL					₹	161.60
	Add for Sundries and contingencies	@	3.0%			₹	4.85
	TOTAL					₹	166.45
	Add for water charges	@	1.0%			₹	1.66
	TOTAL					₹	168.11
	Add GST (multiplying factor)		0.1405			₹	23.62
	TOTAL					₹	191.73
	Add 15% for contractor's profit and overheads	@	15%			₹	28.76
	TOTAL					₹	220.49
	Add cess	@	1%			₹	2.20
	Cost of one no.					₹	222.70
	Say					₹	222.70

19.20 Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :

19.20.2 Code	20 mm nominal bore Description Details of cost for one no. Materials:-	Unit	Quantity		Rate	,	Amount
19010	20 mrn diameter brass-ferrule	each	1.00	₹	190.00	₹	190.00
	TOTAL					₹	190.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	1.90
	TOTAL					₹	191.90
	Add for Sundries and contingencies	@	3.0%			₹	5.76
	TOTAL					₹	197.66
	Add for water charges	@	1.0%			₹	1.98
	TOTAL					₹	199.63
	Add GST (multiplying factor)		0.1405			₹	28.05
	TOTAL					₹	227.68
	Add 15% for contractor's profit and overheads	@	15%			₹	34.15
	TOTAL					₹	261.83
	Add cess	@	1%			₹	2.62
	Cost of one no.					₹	264.45
	Say					₹	264.50

19.20 Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :

19.20.3 Code	25 mm nominal bore Description Details of cost for one no. Materials:-	Unit	Quantity		Rate		Amount
19011	25 mrn diameter brass-ferrule	each	1.00	₹	240.00	₹	240.00
	TOTAL					₹	240.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	2.40
	TOTAL					₹	242.40
	Add for Sundries and contingencies	@	3.0%			₹	7.27
	TOTAL					₹	249.67

Add for water charges	@	1.0%	₹	2.50
TOTAL			₹	252.17
Add GST (multiplying factor)		0.1405	₹	35.43
TOTAL			₹	287.60
Add 15% for contractor's profit and overheads	@	15%	₹	43.14
TOTAL			₹	330.74
Add cess	@	1%	₹	3.31
Cost of one no.			₹	334.05
Say			₹	334.00

19.21 Providing and fixing uplasticised PVC connection pipe with brass unions:

19.21.1 30 cm length

19.21.1.1 15 mm nominal bore

Code	Description Details of cost for one no. Materials:-	Unit	Quantity	Rate	A	mount
19049	15 mm P.V.C. connection.pipe with brass	each	1.0	₹ 35.00	₹	35.00
	TOTAL				₹	35.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	70%		₹	24.50
	TOTAL				₹	59.50
	Add for Sundries and contingencies	@	3.0%		₹	1.79
	TOTAL				₹	61.29
	Add for water charges	@	1.0%		₹	0.61
	TOTAL				₹	61.90
	Add GST (multiplying factor)		0.1405		₹	8.70
	TOTAL				₹	70.59
	Add 15% for contractor's profit and overheads	@	15%		₹	10.59
	TOTAL				₹	81.18
	Add cess	@	1%		₹	0.81
	Cost of one no.				₹	82.00
	Say				₹	82.00

19.21 Providing and fixing uplasticised PVC connection pipe with brass unions:

19.21.1 30 cm length

19.21.1.2 20 mm nominal bore

19.21.1.2	2 20 mm nominal bore					
Code	Description Details of cost for one no.	Unit	Quantity	Rate	Ar	mount
	Materials :-					
19050	20 mm P.V.C. connection.pipe with brass	each	1.0	₹ 45.00	₹	45.00
	TOTAL				₹	45.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	50%		₹	22.50
	TOTAL				₹	67.50
	Add for Sundries and contingencies	@	3.0%		₹	2.03
	TOTAL				₹	69.53
	Add for water charges	@	1.0%		₹	0.70
	TOTAL				₹	70.22
	Add GST (multiplying factor)		0.1405		₹	9.87
	TOTAL				₹	80.09
	Add 15% for contractor's profit and overheads	@	15%		₹	12.01
	TOTAL				₹	92.10
	Add cess	@	1%		₹	0.92
	Cost of one no.				₹	93.02
	Say				₹	93.00

19.21 Providing and fixing uplasticised PVC connection pipe with brass unions :19.21.2 45 cm length

19.21.2.1 15 mm nominal bore

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for one no.				
	Materials :-				

19051	15 mm P.V.C. connection.pipe with brass	each	1.0	₹	45.00	₹	45.00
	TOTAL					₹	45.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	55%			₹	24.75
	TOTAL					₹	69.75
	Add for Sundries and contingencies	@	3.0%			₹	2.09
	TOTAL Add for water charges	@	1.0%			₹	71.84 0.72
	TOTAL					₹	72.56
	Add GST (multiplying factor) TOTAL		0.1405			₹ ₹	10.19 82.76
	Add 15% for contractor's profit and overheads	@	15%			₹	12.41
	TOTAL					₹	95.17
	Add cess	@	1%			₹	0.95
	Cost of one no. Say					₹ ₹	96.12 96.10
19.21	Providing and fixing uplasticised PVC connection pipe with	th brass unions	s :				
	45 cm length 2 20 mm nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no. Materials:-						
19052	20 mm P.V.C. connection.pipe with brass	each	1.0	₹	65.00	₹	65.00
	TOTAL					₹	65.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	40%			₹	26.00
	TOTAL					₹	91.00
	Add for Sundries and contingencies	@	3.0%			₹	2.73
	TOTAL Add for water charges	@	1.0%			₹ ₹	93.73 0.94
	TOTAL	<u> </u>				₹	94.67
	Add GST (multiplying factor) TOTAL		0.1405			₹ ₹	13.30 107.97
	Add 15% for contractor's profit and overheads	@	15%			₹	16.20
	TOTAL					₹	124.16
	Add cess	@	1%			₹	1.24
	Cost of one no. Say					₹	125.40 125.40
	Cuy					•	123.40
19.22	Providing and fixing C.P. brass shower rose with 15 or 20	mm inlet:					
19.22.1 Code	100 mm diameter Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.		•				
19054	Materials :- 100mm dia. CP., brass shower rose	each	1.00	₹	80.00	₹	80.00
	TOTAL	34011		٠	30.00	₹	80.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	0.80
	3						

19.22.1 Code	100 mm diameter Description Details of cost for one no. Materials:-	Unit	Quantity		Rate	Α	mount
19054	100mm dia. CP., brass shower rose	each	1.00	₹	80.00	₹	80.00
	TOTAL					₹	80.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	0.80
	TOTAL					₹	80.80
	Add for Sundries and contingencies	@	3.0%			₹	2.42
	TOTAL					₹	83.22
	Add for water charges	@	1.0%			₹	0.83
	TOTAL					₹	84.06
	Add GST (multiplying factor)		0.1405			₹	11.81
	TOTAL					₹	95.87
	Add 15% for contractor's profit and overheads	@	15%			₹	14.38
	TOTAL					₹	110.25
	Add cess	@	1%			₹	1.10
	Cost of one no.					₹	111.35
	Say					₹	111.30

19.22 Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet:

19.22.2 Code	150 mm diameter Description Details of cost for one no. Materials:-	Unit	Quantity		Rate	ļ	Amount
19055	150 mm dia. CP., brass shower rose	each	1.00	₹	110.00	₹	110.00
	TOTAL					₹	110.00
	Add for Carriage of materials and fixing charges etc.[L.S.]	@	1%			₹	1.10
	TOTAL					₹	111.10
	Add for Sundries and contingencies	@	3.0%			₹	3.33
	TOTAL					₹	114.43
	Add for water charges	@	1.0%			₹	1.14
	TOTAL Add GST (multiplying factor) TOTAL		0.1405			₹ ₹	115.58 16.24 131.82
	Add 15% for contractor's profit and overheads TOTAL	@	15%			₹ ₹	19.77 151.59
	Add cess	@	1%			₹	1.52
	Cost of one no. Say					₹ ₹	153.10 153.10

19.23 Laying in position centrifugally cast (spun) iron S&S or flanged pipes (excluding cost of pipe)

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 5.14 quintal 10 m of 200 mm dia C.I. pipe class 'A' Weight = (2x257) = 514 kg = 5.14 quintal						
	Labour for lowering & laying pipe						
0215	Fitter (grade-1)	Day	0.17	₹	440.00	₹	74.80
0214	Fitter (2nd Class)	Day	0.17	₹	355.00	₹	60.35
0203	Belder	Day	1.33	₹	310.00	₹	412.30
	TOTAL					₹	547.45
	Add for Ballies, Ropes, Crow bars and other materials required for lowering pipe etc. [L.S]	@	1%			₹	5.47
	TOTAL					₹	552.92
	Add for Sundries and contingencies	@	3.0%			₹	16.59
	TOTAL					₹	569.51
	Add for water charges	@	1.0%			₹	5.70
	TOTAL					₹	575.21
	Add GST (multiplying factor)		0.1405			₹	80.82
	TOTAL					₹	656.02
	Add 15% for contractor's profit and overheads	@	15%			₹	98.40
	TOTAL					₹	754.43
	Add cess	@	1%			₹	7.54
	Cost for 5.14 quintal					₹	761.97
	Cost per quintal (excluding cost of pipe)					₹	148.24
	Say					₹	148.20

19.24 Laying in position S&S or flanged C.I. special such tees, bends collars, tapers and caps etc. (excluding cost of specials).

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 7quintal 10 Nos. Tee 200x150mm Weight = 70x10 = 700 kg					
	Labour for lowering & laying					
0215	Fitter (grade-1)	Day	0.93	₹ 440.00	₹	409.20
0214	Fitter (2nd Class)	Day	0.62	₹ 355.00	₹	220.10
0203	Belder	Day	2.48	₹ 310.00	₹	768.80
	TOTAL				₹	1,398.10

Add for Ballies, Ropes, Crow bars and other materials required for lowering pipe & carriage etc.[L.S]	@	1%	₹	13.98
TOTAL			₹	1,412.08
Add for Sundries and contingencies	@	3.0%	₹	42.36
TOTAL			₹	1,454.44
Add for water charges	@	1.0%	₹	14.54
TOTAL			₹	1,468.99
Add GST (multiplying factor)		0.1405	₹	206.39
TOTAL			₹	1,675.38
Add 15% for contractor's profit and overheads	@	15%	₹	251.31
TOTAL			₹	1,926.69
Add cess	@	1%	₹	19.27
Cost for 7.0 quintal			₹	1,945.95
Cost per quintal (excluding cost of specials)			₹	277.99
Say			₹	278.00
Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess Cost for 7.0 quintal Cost per quintal (excluding cost of specials)	@	0.1405 15%	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	14.54 1,468.99 206.39 1,675.38 251.31 1,926.69 19.27 1,945.95 277.99

19.25 Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class)

19.25.1 Up	o 300 n	nm dia.
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13.23.1	opto 300 mm dia.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 quintal						
	Materials :-						
	Consider the avg. wt. of 200 mm dia bends for upto						
	300 mm dia bend=0.67q.						
19024	Cost of specials	quintal	0.67	₹	3,600.00	₹	2,412.00
0407	Carriage of material	t	0.067	₹	102.47	₹	6.87
	Labour for lowering & laying						
0215	Fitter (grade-1)	Day	0.133	₹	440.00	₹	58.46
0214	Fitter (2nd Class)	Day	0.089	₹	355.00	₹	31.44
0203	Belder	Day	0.354	₹	310.00	₹	109.83
	TOTAL					₹	2,618.59
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	3.250 %			₹	85.10
	TOTAL					₹	2,703.70
	Add for Barricading and Night Lamps and watchman	@	2.20%			₹	59.48
	TOTAL					₹	2,763.18
	Add for Sundries and contingencies	@	3.0%			₹	82.90
	TOTAL					₹	2,846.08
	Add for water charges	@	1.0%			₹	28.46
	TOTAL					₹	2,874.54
	Add GST (multiplying factor)		0.1405			₹	403.87
	TOTAL					₹	3,278.41
	Add 15% for contractor's profit and overheads	@	15%			₹	491.76
	TOTAL					₹	3,770.17
	Add cess	@	1%			₹	37.70
	Cost for 0.67 quintal					₹	3,807.87
	Cost per quintal					₹	5,683.39
	Say					₹	5,683.40
40.05	D 11 1 00001 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11		4 /11		

19.25 Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class)

19.25.2 Over 300 mm dia.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 1 quintal						
	Materials :-						
	Consider the avg. wt. of 400 mm dia bends for over						
	300 mm dia bend=2.34 q.						
19025	Cost of specials	quintal	2.340	₹	3,700.00	₹	8,658.00
0407	Carriage of material	t	0.234	₹	102.47	₹	23.98
	Labour for lowering & laying						
0215	Fitter (grade-1)	Day	0.250	₹	440.00	₹	110.00
0214	Fitter (2nd Class)	Day	0.550	₹	355.00	₹	195.25
0203	Belder	Day	1.200	₹	310.00	₹	372.00
	TOTAL					₹	9,359.23

Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	2.0 %	₹	187.18
TOTAL			₹	9,546.41
Add for Barricading and Night Lamps and watchman	@	2.0%	₹	190.93
TOTAL			₹	9,737.34
Add for Sundries and contingencies	@	3.0%	₹	292.12
TOTAL			₹	10,029.46
Add for water charges	@	1.0%	₹	100.29
TOTAL			₹	10,129.76
Add GST (multiplying factor)		0.1405	₹	1,423.23
TOTAL			₹	11,552.99
Add 15% for contractor's profit and overheads	@	15%	₹	1,732.95
TOTAL			₹	13,285.93
Add cess	@	1%	₹	132.86
Cost for 2.34 quintal			₹	13,418.79
Cost per quintal			₹	5,734.53
Say			₹	5,734.50

19.26 Providing and laying flanged C.I. standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS: 1538:

Code Description Unit Quantity Rate Details of cost for 1 quintal Materials :- Consider one No. 250 mm dia bends of weight 0.80 q per bend.	Amount
19026 Cost of specials quintal 0.80 ₹ 5,500.00 ₹	4,400.00
0407 Carriage of material t 0.080 ₹ 102.47 ₹	8.20
Labour for lowering & laying	
0215 Fitter (grade-1) Day 0.100 ₹ 440.00 ₹	44.00
0214 Fitter (2nd Class) Day 0.125 ₹ 355.00 ₹	44.38
0203 Belder Day 0.45 ₹ 310.00 ₹	139.50
TOTAL ₹	4,636.07
Add for Pulleys, Ropes, Crow bars ,ballies etc. @ 3.20 % ₹	148.35
TOTAL ₹	4,784.43
Add for Barricading and Night Lamps and watchman @ 4.25 % ₹	203.34
TOTAL ₹	4,987.77
Add for Sundries and contingencies @ 3.0% ₹ TOTAL	149.63 5,137.40
Add for water charges @ 1.0% ₹	51.37
TOTAL Add GST (multiplying factor) 0.1405 ₹	5,188.77 729.02
TOTAL	5,917.79
Add 15% for contractor's profit and overheads @ 15% ₹	887.67
TOTAL ₹	6,805.46
Add cess @ 1% ₹	68.05
Cost for 0.80 quintal ₹	6,873.52
Cost per quintal ₹	8,591.90
Say	8,591.90

19.26 Providing and laying flanged C.I. standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS: 1538:

19.26.2 Over 300 mm dia.

Code Description Unit Quantity Rate Amount

Details of cost for 1 quintal

Materials :

Consider one No. 500 mm dia bends of weight 4.46 q per bend.

19027 0407	Cost of specials Carriage of material	quintal t	4.46 0.080	₹ ₹	5,500.00 102.47	₹ ₹	24,530.00 8.20
0215 0214 0203	Labour for lowering & laying Fitter (grade-1) Fitter (2nd Class) Belder	Day Day Day	0.400 1.100 2.10	₹	440.00 355.00 310.00	₹	176.00 390.50 651.00
	TOTAL	,				₹	25,755.70
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	1.00 %			₹	257.56
	TOTAL					₹	26,013.25
	Add for Barricading and Night Lamps and watchman	@	1.35 %			₹	351.18
	TOTAL					₹	26,364.43
	Add for Sundries and contingencies	@	3.0%			₹	790.93
	TOTAL	•				₹	27,155.37
	Add for water charges TOTAL	@	1.0%			₹	271.55
	Add GST (multiplying factor)		0.1405			₹	27,426.92 3,853.48
	TOTAL					₹	31,280.40
	Add 15% for contractor's profit and overheads	@	15%			₹	4,692.06
	TOTAL					₹	35,972.46
	Add cess	@	1%			₹	359.72
	Cost for 4.46 quintal					₹	36,332.19
	Cost per quintal					₹	8,146.23
	Say					₹	8,146.20

19.27.1	100 mm dia, pipe
Code	Description

19.27.1 Code	Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying S & SCI pipes for 10.98 m length (3 pipes 3.66 m long) of specified diameter Materials: C.I Pipe class LA 100 mm dia pipe = 3x75 kg/pipe = 225 kg or 2.25 q						
19181	Length= 3x 3.66m=10.98 m		10.98	x	900.00	=	0.000.00
0456	Cost of pipe	metre 100 metre	10.98	₹		₹	9,882.00 27.67
0450	Carriage of pipes Labour for lowering & laying	100 metre	10.960	•	231.96	•	21.01
0216	Foreman	Day	0.075	₹	440.00	₹	33.00
0215	Fitter (grade-1)	Day	0.100	₹		₹	44.00
0203	Belder	Day	0.60	₹		₹	186.00
	TOTAL	,	5.55	-		₹	10,172.67
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.80 %			₹	81.38
	TOTAL					₹	10,254.05
	Add for Barricading and Night Lamps and watchman	@	0.50 %			₹	51.27
	TOTAL					₹	10,305.32
	Add for Sundries and contingencies	@	3.0%			₹	309.16
	TOTAL Add for water charges	@	1.0%			₹	10,614.48 106.14
	TOTAL	•	1.070			₹	10,720.62
	Add GST (multiplying factor)		0.1405			₹	1,506.25
	TOTAL					₹	12,226.87
	Add 15% for contractor's profit and overheads	@	15%			₹	1,834.03
	TOTAL					₹	14,060.90
	Add cess	@	1%			₹	140.61
	Cost for 10.98 metre					₹	14,201.51
	Cost per metre					₹	1,293.40
	Say					₹	1,293.40

19.27 Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536

19.27.2 Code	125 mm dia, pipe Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying S & SCI pipes for 10.98 m length (3 pipes 3.66 m long) of specified diameter Materials: C.I Pipe class LA 125 mm dia pipe = 3 x98 kg/pipe = 294 kg or 2.94 q Length= 3x 3.66m=10.98 m						
19182 0457	Cost of pipe Carriage of pipes Labour for lowering & laying	metre 100 metre	10.98 10.98	₹ ₹	1,120.00 335.97		12,297.60 36.89
0216 0215 0203	Foreman Fitter (grade-1) Belder	Day Day Day	0.075 0.100 0.60	₹ ₹	440.00 440.00 310.00	₹ ₹	33.00 44.00 186.00
0_00	TOTAL	,	0.00	·	0.0.00	₹	12,597.49
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.60 %			₹	75.58
	TOTAL Add for Barricading and Night Lamps and watchman TOTAL	@	0.40 %			₹ ₹	12,673.07 50.69 12,723.77
	Add for Sundries and contingencies	@	3.0%			₹	381.71
	TOTAL Add for water charges TOTAL Add GST (multiplying factor)	@	1.0% 0.1405			₹ ₹ ₹	13,105.48 131.05 13,236.53 1,859.73
	TOTAL Add 15% for contractor's profit and overheads TOTAL	@	15%			₹ ₹	15,096.27 2,264.44 17,360.71
	Add cess	@	1%			₹	173.61
	Cost for 10.98 metre Cost per metre Say					₹ ₹	17,534.31 1,596.93 1,596.90
19.27	Providing and laying S&S centrifugally cast (spun) iron pipe	s (Class LA)	conforming	to I	S - 1536		
19.27.3 Code	150 mm dia, pipe Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying S & SCI pipes for 10.98 m length (3 pipes 3.66 m long) of specified diameter Materials: C.I Pipe class LA 150 mm dia pipe = 3 x 122 kg/pipe = 366 kg or 3.66 q Length= 3x 3.66 m=10.98 m	••••					
19183 0458	Cost of pipe Carriage of pipes	metre 100 metre	10.98 10.98	₹	1,350.00 419.97		14,823.00 46.11
0216 0215	Labour for lowering & laying Foreman Fitter (grade-1)	Day Day	0.150 0.250	₹	225.00 440.00	₹	33.75 110.00
0203	Belder TOTAL	Day	1.200	₹	310.00	₹	372.00 15,384.86
		@	0.55 %			₹	84.62
	Add for Pulleys, Ropes, Crow bars ,ballies etc. TOTAL					₹	15,469.48
	Add for Barricading and Night Lamps and watchman	@	0.375 %			₹	58.01
	TOTAL		0.007			₹	15,527.49
	Add for Sundries and contingencies TOTAL	@	3.0%			₹	465.82 15,993.31
	Add for water charges TOTAL	@	1.0%			₹ ₹	159.93 16,153.25
	Add GST (multiplying factor)		0.1405			₹	2,269.53

Add 15% for contractor's profit and overheads TOTAL	@	15%	₹ ₹	2,763.42 21,186.20
Add cess	@	1%	₹	211.86
Cost for 10.98 metre			₹	21,398.06
Cost per metre			₹	1,948.82
Say			₹	1,948.80

19.27.4 Code	200 mm dia, pipe Description	Unit	Quantity		Rate		Amount
19184	Operational input for providing and laying S & SCI pipes for 10.98 m length (3 pipes 3.66 m long) of specified diameter Materials: C.I Pipe class LA 200 mm dia pipe = 3 x 178 kg/pipe = 534 kg or 5.34 q Length= 3x 3.66 m=10.98 m Cost of pipe	metre	10.98	₹	2,300.00	₹	25,254.00
0459	Carriage of pipes	100 metre	10.98	₹	681.03	₹	74.78
0216 0215 0203	Labour for lowering & laying Foreman Fitter (grade-1) Belder	Day Day Day	0.150 0.400 1.650	₹ ₹	225.00 440.00 310.00	₹ ₹	33.75 176.00 511.50
	TOTAL					₹	26,050.03
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.45 %			₹	117.23
	TOTAL					₹	26,167.25
	Add for Barricading and Night Lamps and watchman TOTAL	@	0.60 %			₹	157.00 26,324.26
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	789.73 27,113.98
	Add for water charges TOTAL Add GST (multiplying factor)	@	1.0% 0.1405			₹ ₹	271.14 27,385.12 3,847.61
	TOTAL Add 15% for contractor's profit and overheads TOTAL	@	15%			₹ ₹	31,232.73 4,684.91 35,917.64
	Add cess	@	1%			₹	359.18
	Cost for 10.98 metre Cost per metre Say					₹ ₹	36,276.82 3,303.90 3,303.90

19.27 Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536

	250 mm dia, pipe	1124	0		Data		A
Code	Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying S & SCI pipes for						
	10.98 m length (3 pipes 3.66 m long) of specified diameter						
	Materials:						
	C.I Pipe class LA						
	250 mm dia pipe = 3 x 240 kg/pipe = 720 kg or 7.20 q						
	Length= 3x 3.66 m=10.98 m						
19185	Cost of pipe	metre	10.98	₹	3,000.00	₹	32,940.00
0460	Carriage of pipes	100 metre	10.98	₹	969.17	₹	106.41
	Labour for lowering & laying						
0216	Foreman	Day	0.200	₹	225.00	₹	45.00
0215	Fitter (grade-1)	Day	0.500	₹	440.00	₹	220.00
0203	Belder	Day	2.300	₹	310.00	₹	713.00
	TOTAL					₹	34,024.41

Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.42 %	₹	142.90
TOTAL			₹	34,167.32
Add for Barricading and Night Lamps and watchman	@	0.55 %	₹	187.92
TOTAL			₹	34,355.24
Add for Sundries and contingencies	@	3.0%	₹	1,030.66
TOTAL Add for water charges TOTAL	@	1.0%	₹ ₹	35,385.89 353.86 35,739.75
Add GST (multiplying factor) TOTAL		0.1405	₹	5,021.44 40,761.19
Add 15% for contractor's profit and overheads TOTAL	@	15%	₹ ₹	6,114.18 46,875.37
Add cess	@	1%	₹	468.75
Cost for 10.98 metre Cost per metre Say			₹ ₹ ₹	47,344.12 4,311.85 4,311.90

19.27.6	300 mm dia, pipe	
Code	Description	

Code	Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying S & SCI pipes for 10.98 m length (3 pipes 3.66 m long) of specified diameter Materials: C.I Pipe class LA 300 mm dia pipe = 3 x 310 kg/pipe = 930 kg or 9.30 q Length= 3x 3.66 m=10.98 m						
19186	Cost of pipe	metre	10.98	₹	4,050.00	₹	44,469.00
0461	Carriage of pipes	100 metre	10.98	₹	1,199.92	₹	131.75
	Labour for lowering & laying						
0216	Foreman	Day	0.250	₹	225.00	₹	56.25
0215	Fitter (grade-1)	Day	0.700	₹	440.00	₹	308.00
0203	Belder	Day	3.000	₹	310.00	₹	930.00
	TOTAL					₹	45,895.00
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.39 %			₹	178.99
	TOTAL					₹	46,073.99
	Add for Barricading and Night Lamps and watchman	@	0.54 %			₹	248.80
	TOTAL					₹	46,322.79
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	1,389.68 47,712.48
	Add for water charges TOTAL	@	1.0%			₹ ₹	47,712.48 477.12 48,189.60
	Add GST (multiplying factor) TOTAL		0.1405			₹ ₹	6,770.64 54,960.24
	Add 15% for contractor's profit and overheads TOTAL	@	15%			₹ ₹	8,244.04 63,204.27
	Add cess	@	1%			₹	632.04
	Cost for 10.98 metre Cost per metre Say					₹ ₹	63,836.32 5,813.87 5,813.90
	Jay					<	3,613.90

19.27 Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536

19.27.7 350 mm dia, pipe

Code Description Unit Quantity Rate Amount

Operational input for providing and laying S & SCI pipes for 10.98 m length (3 pipes 3.66 m long) of specified diameter

Materials:

C.I Pipe class LA

	350 mm dia pipe = 3 x 390 kg/pipe = 1170 kg or 11.70 q						
40407	Length= 3x 3.66 m=10.98 m		40.00	-	4.050.00	-	50.050.00
19187	Cost of pipe	metre	10.98	₹	4,850.00		53,253.00
0462	Carriage of pipes	100 metre	10.98	₹	1,679.89	₹	184.45
	Labour for lowering & laying						
0216	Foreman	Day	0.300	₹		₹	67.50
0215	Fitter (grade-1)	Day	0.900	₹	440.00	₹	396.00
0203	Belder	Day	3.700	₹	310.00	₹	1,147.00
	TOTAL					₹	55,047.95
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.37 %			₹	203.68
	TOTAL					₹	55,251.63
	Add for Barricading and Night Lamps and watchman	@	0.515 %			₹	284.55
	TOTAL					₹	55,536.18
	Add for Sundries and contingencies	@	3.0%			₹	1,666.09
	TOTAL					₹	57,202.26
	Add for water charges	@	1.0%			₹	572.02
	TOTAL					₹	57,774.28
	Add GST (multiplying factor)		0.1405			₹	8,117.29
	TOTAL					₹	65,891.57
	Add 15% for contractor's profit and overheads	@	15%			₹	9,883.74
	TOTAL					₹	75,775.31
	Add cess	@	1%			₹	757.75
	Cost for 10.98 metre					₹	76,533.06
	Cost per metre					₹	6,970.22
	Say					₹	6,970.20

19.27.8	400 mm dia, pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying S & SCI pipes for 10.98 m length (3 pipes 3.66 m long) of specified diameter Materials: C.I Pipe class LA 400 mm dia pipe = 3 x 474 kg/pipe = 1422 kg or 14.22 q Length= 3x 3.66 m=10.98 m						
19188	Cost of pipe	metre	10.98	₹	6,400.00	₹	70,272.00
0463	Carriage of pipes	100 metre	10.98	₹	2,290.76		251.53
	Labour for lowering & laying				,		
0216	Foreman	Day	0.300	₹	225.00	₹	67.50
0215	Fitter (grade-1)	Day	1.200	₹	440.00	₹	528.00
0203	Belder	Day	4.000	₹	310.00	₹	1,240.00
	TOTAL					₹	72,359.03
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.35 %			₹	253.26
	TOTAL					₹	72,612.28
	Add for Barricading and Night Lamps and watchman	@	0.465 %			₹	337.65
	TOTAL					₹	72,949.93
	Add for Sundries and contingencies	@	3.0%			₹	2,188.50
	TOTAL	@	1.0%			₹	75,138.43 751.38
	Add for water charges TOTAL	<u>@</u>	1.0%			₹	75,889.81
	Add GST (multiplying factor)		0.1405			₹	10,662.52
	TOTAL					₹	86,552.33
	Add 15% for contractor's profit and overheads	@	15%			₹	12,982.85
	TOTAL					₹	99,535.18
	Add cess	@	1%			₹	995.35
	Cost for 10.98 metre					₹	1,00,530.53
	Cost per metre					₹	9,155.79
	Say					₹	9,155.80

19.27.9 Code	450 mm dia, pipe Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying S & SCI pipes for 10.98 m length (3 pipes 3.66 m long) of specified diameter Materials: C.I Pipe class LA 450 mm dia pipe = 3 x 572 kg/pipe = 1716 kg or 17.16 q Length= 3x 3.66 m=10.98 m						
19189	Cost of pipe	metre	10.98	₹	7,750.00	₹	85,095.00
0464	Carriage of pipes	100 metre	10.98	₹	2,799.82	₹	307.42
2212	Labour for lowering & laying	_		_		-	440.50
0216 0215	Foreman Fitter (grade 1)	Day Day	0.500 1.600	₹	225.00 440.00	₹	112.50 704.00
0213	Fitter (grade-1) Belder	Day	5.000	₹		₹	1,550.00
0200	TOTAL	Day	0.000	•	010.00	₹	87,768.92
							01,100.02
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.31 %			₹	272.08
	TOTAL					₹	88,041.00
		@	0.385 %			₹	338.96
	Add for Barricading and Night Lamps and watchman	J	0.000 70			` ₹	88,379.96
	TOTAL		0.00/				•
	Add for Sundries and contingencies	@	3.0%			₹	2,651.40
	TOTAL Add for water charges	@	1.0%			₹	91,031.36 910.31
	TOTAL	•	1.070			₹	91,941.67
	Add GST (multiplying factor)		0.1405			₹	12,917.81
	TOTAL					₹	1,04,859.48
	Add 15% for contractor's profit and overheads	@	15%			₹	15,728.92
	TOTAL					₹	1,20,588.40
	Add cess	@	1%			₹	1,205.88
	Cost for 10.98 metre Cost per metre Say					₹ ₹	1,21,794.29 11,092.38 11,092.40
19.27	Providing and laying S&S centrifugally cast (spun) iron pipe	s (Class LA)	conforming	to l	S - 1536	•	11,032.40
		, ,	_				
	500 mm dia, pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying S & SCI pipes for 10.98 m length (3 pipes 3.66 m long) of specified diameter Materials:						
	C.I Pipe class LA						
	500 mm dia pipe = 3 x 671 kg/pipe = 2013 kg or 20.13 q						
	Length= 3x 3.66 m=10.98 m						
19190	Cost of pipe	metre	10.98	₹	9,000.00		98,820.00
0465	Carriage of pipes	100 metre	10.98	₹	2,799.82	₹	307.42
0216	Labour for lowering & laying Foreman	Day	0.750	₹	225.00	₹	168.75
0215	Fitter (grade-1)	Day	1.800	₹	440.00	₹	792.00
0203	Belder	Day	5.500	₹	310.00	₹	1,705.00
	TOTAL					₹	1,01,793.17
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.295 %			₹	300.29
	TOTAL					₹	1,02,093.46
	Add for Barricading and Night Lamps and watchman	@	0.33%			₹	336.91
	Add for Barricading and Night Lamps and watchman	@	0.33%				
	TOTAL					₹	1,02,430.37
	TOTAL Add for Sundries and contingencies	@	0.33%			₹	1,02,430.37 3,072.91
	TOTAL					₹	1,02,430.37

Add GST (multiplying factor)		0.1405	₹ 14,971.44
TOTAL			₹ 1,21,529.76
Add 15% for contractor's profit and overheads	@	15%	₹ 18,229.46
TOTAL			₹ 1,39,759.22
Add cess	@	1%	₹ 1,397.59
Cost for 10.98 metre			₹ 1,41,156.81
Cost per metre			₹ 12,855.81
Say			₹ 12,855.80

19.27.11 Code	600 mm dia, pipe Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying S & SCI pipes for 10.98 m length (3 pipes 3.66 m long) of specified diameter						
	Materials: C.I Pipe class LA 600 mm dia pipe = 3 x 671 kg/pipe = 2013 kg or 20.13 q Length= 3x 3.66 m=10.98 m						
19191	Cost of pipe	metre	10.98	₹	12,595.00	₹	1,38,293.10
0466	Carriage of pipes	100 metre	10.98	₹	4,199.73	₹	461.13
	Labour for lowering & laying						
0216	Foreman	Day	1.000	₹	225.00	₹	225.00
0215	Fitter (grade-1)	Day	2.200	₹	440.00		968.00
0203	Belder	Day	7.000	₹	310.00	₹	2,170.00
	TOTAL					₹	1,42,117.23
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.285 %			₹	405.03
	TOTAL					₹	1,42,522.26
	Add for Barricading and Night Lamps and watchman	@	0.285 %			₹	406.19
	TOTAL					₹	1,42,928.45
	Add for Sundries and contingencies	@	3.0%			₹	4,287.85
	TOTAL		4.00/			₹	1,47,216.31
	Add for water charges TOTAL	@	1.0%			₹ ₹	1,472.16 1,48,688.47
	Add GST (multiplying factor)		0.1405			₹	20,890.73
	TOTAL		0.1100			-	1,69,579.20
	Add 15% for contractor's profit and overheads	@	15%			₹	25,436.88
	TOTAL					₹	1,95,016.08
	Add cess	@	1%			₹	1,950.16
	Cost for 10.98 metre					₹	1,96,966.24
	Cost per metre					₹	17,938.64
	Sav					I	47 020 60

19.28 Providing lead caulked joints to spun iron or C.I. pipes and specials including testing of joints but excluding the cost of pig lead :

Say

19.28.1 Code	100 mm diameter pipe Description Operational input for providing lead caulked joints total 10 Nos. Materials:-	Unit	Quantity		Rate		Amount
19056	100 mm pipe = Spun yarn 0.17x 10 =1.70 kg.	Kilogram	1.70	₹	45.00	₹	76.50
11016	Fuel wood	quintal	0.30	₹	600.00	₹	180.00
02004	Kerosene oil	litre	0.58	₹	52.00	₹	30.16
	Labour for Lead Caulking						
0215	Fitter (grade-1)	Day	1.00	₹	440.00	₹	440.00
0214	Fitter (2nd Class)	Day	1.00	₹	355.00	₹	355.00
0203	Belder	Day	2.00	₹	310.00	₹	620.00
	TOTAL					₹	1,701.66

17,938.60

Add for testing joints, Carriage of materials etc.	@	1.50 %	₹	25.52
TOTAL			₹	1,727.18
Add for Sundries and contingencies	@	3.0%	₹	51.82
TOTAL			₹	1,779.00
Add for water charges & Electricity	@	1.50%	₹	26.69
TOTAL			₹	1,805.69
Add GST (multiplying factor)		0.1405	₹	253.70
TOTAL			₹	2,059.38
Add 15% for contractor's profit and overheads	@	15%	₹	308.91
TOTAL			₹	2,368.29
Add cess	@	1%	₹	23.68
Cost for 10 nos. joints			₹	2,391.97
Cost per joint			₹	239.20
Say			₹	239.20

19.28 Providing lead caulked joints to spun iron or C.I. pipes and specials including testing of joints but excluding the cost of pig lead :

19.28.2	125 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Operational input for providing lead caulked joints total 10 Nos.						
	Materials :-						
19056	125 mm pipe = Spun yarn 0.20 x 10 =2.0 kg.	Kilogram	2.00	₹	45.00		90.00
11016	Fuel wood	quintal	0.38	₹	600.00	₹	228.00
02004	Kerosene oil	litre	0.68	₹	52.00	₹	35.36
	Labour for Lead Caulking						
0215	Fitter (grade-1)	Day	1.50	₹	440.00	₹	660.00
0214	Fitter (2nd Class)	Day	1.50	₹	355.00	₹	532.50
0203	Belder	Day	3.00	₹	310.00	₹	930.00
	TOTAL					₹	2,475.86
	Add for testing joints, Carriage of materials etc.	@	1.75 %			₹	43.33
	TOTAL					₹	2,519.19
	Add for Sundries and contingencies	@	3.0%			₹	75.58
	TOTAL					₹	2,594.76
	Add for water charges & Electricity	@	1.50%			₹	38.92
	TOTAL					₹	2,633.68
	Add GST (multiplying factor)		0.1405			₹	370.03
	TOTAL					₹	3,003.72
	Add 15% for contractor's profit and overheads	@	15%			₹	450.56
	TOTAL					₹	3,454.27
	Add cess	@	1%			₹	34.54
	Cost for 10 nos. joints					₹	3,488.82
	Cost per joint					₹	348.88
	Say					₹	348.90

19.28.3 Code	150 mm diameter pipe Description Operational input for providing lead caulked joints total 10 Nos. Materials:-	Unit	Quantity		Rate		Amount
19056	150 mm pipe = Spun yarn 0.23 x 10 =2.30 kg.	Kilogram	2.30	₹	45.00	₹	103.50
11016	Fuel wood	quintal	0.41	₹	600.00	₹	246.00
02004	Kerosene oil	litre	0.78	₹	52.00	₹	40.56
	Labour for Lead Caulking						
0215	Fitter (grade-1)	Day	1.50	₹	440.00	₹	660.00

0214 0203	Fitter (2nd Class) Belder	Day Day	1.50 3.00	₹ ₹	355.00 310.00	₹ ₹	532.50 930.00
	TOTAL					₹	2,512.56
	Add for testing joints, Carriage of materials etc.	@	2.0 %			₹	50.25
	TOTAL					₹	2,562.81
	Add for Sundries and contingencies	@	3.0%			₹	76.88
	TOTAL					₹	2,639.70
	Add for water charges & Electricity	@	1.50%			₹	39.60
	TOTAL					₹	2,679.29
	Add GST (multiplying factor)		0.1405			₹	376.44
	TOTAL					₹	3,055.73
	Add 15% for contractor's profit and overheads	@	15%			₹	458.36
	TOTAL					₹	3,514.09
	Add cess	@	1%			₹	35.14
	Cost for 10 nos. joints					₹	3,549.23
	Cost per joint					₹	354.92
	Say					₹	354.90

19.28 Providing lead caulked joints to spun iron or C.I. pipes and specials including testing of joints but excluding the cost of pig lead :

19.28.4 Code	200 mm diameter pipe Description Operational input for providing lead caulked joints total 10 Nos. Materials:-	Unit	Quantity		Rate		Amount
19056	200 mm pipe = Spun yarn 0.3 x 10 =3.0 kg.	Kilogram	3.00	₹	45.00	₹	135.00
11016	Fuel wood	quintal	0.60	₹	600.00	₹	360.00
02004	Kerosene oil	litre	0.90	₹	52.00	₹	46.80
	Labour for Lead Caulking						
0215	Fitter (grade-1)	Day	2.00	₹	440.00	₹	880.00
0214	Fitter (2nd Class)	Day	2.00	₹	355.00	₹	710.00
0203	Belder	Day	4.00	₹	310.00	₹	1,240.00
	TOTAL					₹	3,371.80
	Add for testing joints, Carriage of materials etc.	@	2.0 %			₹	67.44
	TOTAL					₹	3,439.24
	Add for Sundries and contingencies	@	3.0%			₹	103.18
	TOTAL					₹	3,542.41
	Add for water charges & Electricity	@	1.50%			₹	53.14
	TOTAL					₹	3,595.55
	Add GST (multiplying factor)		0.1405			₹	505.17
	TOTAL					₹	4,100.72
	Add 15% for contractor's profit and overheads	@	15%			₹	615.11
	TOTAL					₹	4,715.83
	Add cess	@	1%			₹	47.16
	Cost for 10 nos. joints					₹	4,762.99
	Cost per joint					₹	476.30
	Say					₹	476.30

19.28.5 Code	250 mm diameter pipe Description Operational input for providing lead caulked joints total 10 Nos. Materials:-	Unit	Quantity		Rate		Amount
19056	250 mm pipe = Spun yarn 0.4 x 10 =4.0 kg.	Kilogram	4.00	₹	45.00	₹	180.00
11016	Fuel wood	quintal	0.67	₹	600.00	₹	402.00
02004	Kerosene oil	litre	1.15	₹	52.00	₹	59.80
	Labour for Lead Caulking						

0215 0214 0203	Fitter (grade-1) Fitter (2nd Class) Belder TOTAL	Day Day Day	2.50 2.50 5.00	₹ ₹	355.00	₹ ₹ ₹	1,100.00 887.50 1,550.00 4,179.30
	Add for testing joints, Carriage of materials etc.	@	2.0 %			₹	83.59
	TOTAL					₹	4,262.89
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	127.89 4,390.77
	Add for water charges & Electricity TOTAL	@	1.50%			₹ ₹	65.86 4,456.63
	Add GST (multiplying factor) TOTAL		0.1405			₹ ₹	626.16 5,082.79
	Add 15% for contractor's profit and overheads TOTAL	@	15%			₹ ₹	762.42 5,845.21
	Add cess	@	1%			₹	58.45
	Cost for 10 nos. joints Cost per joint Say					₹ ₹	5,903.66 590.37 590.40

19.28 Providing lead caulked joints to spun iron or C.I. pipes and specials including testing of joints but excluding the cost of pig lead :

19.28.6 Code	300 mm diameter pipe Description Operational input for providing lead caulked joints total 10 Nos. Materials:-	Unit	Quantity		Rate		Amount
19056	300 mm pipe = Spun yarn 0.54 x 10 =5.40 kg.	Kilogram	5.40	₹	45.00	₹	243.00
11016	Fuel wood	quintal	0.78	₹	600.00	₹	468.00
02004	Kerosene oil	litre	1.50	₹	52.00	₹	78.00
	Labour for Lead Caulking						
0215	Fitter (grade-1)	Day	3.00	₹	440.00	₹	1,320.00
0214	Fitter (2nd Class)	Day	3.00	₹	355.00	₹	1,065.00
0203	Belder	Day	6.00	₹	310.00	₹	1,860.00
	TOTAL					₹	5,034.00
	Add for testing joints, Carriage of materials etc.	@	2.0 %			₹	100.68
	TOTAL					₹	5,134.68
	Add for Sundries and contingencies	@	3.0%			₹	154.04
	TOTAL					₹	5,288.72
	Add for water charges & Electricity	@	1.50%			₹	79.33
	TOTAL					₹	5,368.05
	Add GST (multiplying factor)		0.1405			₹	754.21
	TOTAL					₹	6,122.26
	Add 15% for contractor's profit and overheads	@	15%			₹	918.34
	TOTAL					₹	7,040.60
	Add cess	@	1%			₹	70.41
	Cost for 10 nos. joints					₹	7,111.01
	Cost per joint					₹	711.10
	Say					₹	711.10

19.28.7	350 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Operational input for providing lead caulked joints total 10 Nos.						
	Materials :-						
19056	350 mm pipe = Spun yarn 0.62 x 10 =6.20 kg.	Kilogram	6.20	₹	45.00	₹	279.00
11016	Fuel wood	quintal	0.90	₹	600.00	₹	540.00
02004	Kerosene oil	litre	1.70	₹	52.00	₹	88.40

	Labour for Lead Caulking						
0215	Fitter (grade-1)	Day	3.00	₹	440.00	₹	1,320.00
0214	Fitter (2nd Class)	Day	3.00	₹	355.00	₹	1,065.00
0203	Belder	Day	6.00	₹	310.00	₹	1,860.00
	TOTAL					₹	5,152.40
	Add for testing joints, Carriage of materials etc.	@	2.0 %			₹	103.05
	TOTAL					₹	5,255.45
	Add for Sundries and contingencies	@	3.0%			₹	157.66
	TOTAL					₹	5,413.11
	Add for water charges & Electricity	@	1.50%			₹	81.20
	TOTAL					₹	5,494.31
	Add GST (multiplying factor)		0.1405			₹	771.95
	TOTAL					₹	6,266.26
	Add 15% for contractor's profit and overheads	@	15%			₹	939.94
	TOTAL					₹	7,206.20
	Add cess	@	1%			₹	72.06
	Cost for 10 nos. joints					₹	7,278.26
	Cost per joint					₹	727.83
	Say					₹	727.80

19.28 Providing lead caulked joints to spun iron or C.I. pipes and specials including testing of joints but excluding the cost of pig lead :

19.28.8 Code	400 mm diameter pipe Description Operational input for providing lead caulked joints total 10 Nos. Materials:-	Unit	Quantity		Rate		Amount
19056	400 mm pipe = Spun yarn 0.74 x 10 = 7.40 kg.	Kilogram	7.40	₹	45.00	₹	333.00
11016	Fuel wood	quintal	1.15	₹	600.00	₹	690.00
02004	Kerosene oil	litre	1.70	₹	52.00	₹	88.40
	Labour for Lead Caulking						
0215	Fitter (grade-1)	Day	4.00	₹	440.00	₹	1,760.00
0214	Fitter (2nd Class)	Day	4.00	₹	355.00	₹	1,420.00
0203	Belder	Day	8.00	₹	310.00	₹	2,480.00
	TOTAL					₹	6,771.40
	Add for testing joints, Carriage of materials etc.	@	2.0 %			₹	135.43
	TOTAL					₹	6,906.83
	Add for Sundries and contingencies	@	3.0%			₹	207.20
	TOTAL					₹	7,114.03
	Add for water charges	@	1.0%			₹	71.14
	TOTAL					₹	7,185.17
	Add GST (multiplying factor)		0.1405			₹	1,009.52
	TOTAL					₹	8,194.69
	Add 15% for contractor's profit and overheads	@	15%			₹	1,229.20
	TOTAL					₹	9,423.89
	Add cess	@	1%			₹	94.24
	Cost for 10 nos. joints					₹	9,518.13
	Cost per joint					₹	951.81
	Say					₹	951.80

19.28.9 Code	450 mm diameter pipe Description Operational input for providing lead caulked joints total 10 Nos. Materials:-	Unit	Quantity		Rate		Amount
19056	450 mm pipe = Spun yarn 0.79 x 10 = 7.90 kg.	Kilogram	7.90	₹	45.00	₹	355.50
11016	Fuel wood	quintal	1.15	₹	600.00	₹	690.00
02004	Kerosene oil	litre	2.15	₹	52.00	₹	111.80
	Labour for Lead Caulking						

0215 Fitter (grade-1) 0214 Fitter (2nd Class) 0203 Belder	Day Day Day		₹ ₹	440.00 355.00 310.00	₹ ₹	1,980.00 1,597.50 2,790.00
TOTAL					₹	7,524.80
Add for testing joints, Carriage of material	s etc. @	1.80 %			₹	135.45
TOTAL					₹	7,660.25
Add for Sundries and contingencies	@	3.0%			₹	229.81
TOTAL					₹	7,890.05
Add for water charges & Electricity	@	1.50%			₹	118.35
TOTAL					₹	8,008.40
Add GST (multiplying factor)		0.1405			₹	1,125.18
TOTAL					₹	9,133.59
Add 15% for contractor's profit and overhead	eads @	15%			₹	1,370.04
TOTAL					₹	10,503.62
Add cess	@	1%			₹	105.04
Cost for 10 nos. joints					₹	10,608.66
Cost per joint					₹	1,060.87
Say					₹	1,060.90

19.28 Providing lead caulked joints to spun iron or C.I. pipes and specials including testing of joints but excluding the cost of pig lead :

19.28.10	500 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Operational input for providing lead caulked joints total 10 Nos.						
	Materials :-						
19056	500 mm pipe = Spun yarn $0.85 \times 10 = 8.50 \text{ kg}$.	Kilogram	8.50	₹	45.00	₹	382.50
11016	Fuel wood	quintal	1.35	₹	600.00	₹	810.00
02004	Kerosene oil	litre	2.30	₹	52.00	₹	119.60
	Labour for Lead Caulking						
0215	Fitter (grade-1)	Day	4.75	₹	440.00	₹	2,090.00
0214	Fitter (2nd Class)	Day	4.75	₹	355.00	₹	1,686.25
0203	Belder	Day	9.50	₹	310.00	₹	2,945.00
	TOTAL					₹	8,033.35
	Add for testing joints, Carriage of materials etc.	@	1.80 %			₹	144.60
	TOTAL					₹	8,177.95
	Add for Sundries and contingencies	@	3.0%			₹	245.34
	TOTAL					₹	8,423.29
	Add for water charges & Electricity	@	1.50%			₹	126.35
	TOTAL					₹	8,549.64
	Add GST (multiplying factor)		0.1405			₹	1,201.22
	TOTAL	_				₹	9,750.86
	Add 15% for contractor's profit and overheads	@	15%			₹	1,462.63
	TOTAL					₹	11,213.49
	Add cess	@	1%			₹	112.13
	Cost for 10 nos. joints					₹	11,325.63
	Cost per joint					₹	1,132.56
	Say					₹	1,132.60

19.28.11 Code	600 mm diameter pipe Description Operational input for providing lead caulked joints total 10 Nos. Materials:-	Unit	Quantity		Rate		Amount
19056	600 mm pipe = Spun yarn 1.02 x 10 = 10.20 kg.	Kilogram	8.50	₹	45.00	₹	382.50
11016	Fuel wood	quintal	1.70	₹	600.00	₹	1,020.00
02004	Kerosene oil	litre	2.75	₹	52.00	₹	143.00
	Labour for Lead Caulking						

2215	- : () ()	_	0.50	-	440.00	-	
0215	Fitter (grade-1)	Day	6.50	₹		₹	2,860.00
0214	Fitter (2nd Class)	Day	6.50	₹	355.00	₹	2,307.50
0203	Belder	Day	13.00	₹	310.00	₹	4,030.00
	TOTAL					₹	10,743.00
	Add for testing joints, Carriage of materials etc.	@	2.0 %			₹	214.86
	TOTAL					₹	10,957.86
	Add for Sundries and contingencies	@	3.0%			₹	328.74
	TOTAL					₹	11,286.60
	Add for water above a R. Flestvicit.	@	1.50%			₹	169.30
	Add for water charges & Electricity TOTAL		1.0070			₹	11,455.89
	Add GST (multiplying factor)		0.1405			₹	1,609.55
	TOTAL		0.1403			₹	13,065.45
	Add 15% for contractor's profit and overheads	@	15%			₹	1,959.82
	TOTAL	O	.070			₹	15,025.27
	Add cess	@	1%			₹	150.25
	Cost for 10 nos. joints Cost per joint					₹	15,175.52 1,517.55
	COSLOCITORII					₹	1 51/ 55
	• •						
10.20	Say					₹	1,517.60
19.29	Say Supplying pig lead at site of work.	Unit	Quantity		Pato		1,517.60
19.29 Code	Say Supplying pig lead at site of work. Description	Unit	Quantity		Rate		
	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal	Unit	Quantity		Rate		1,517.60
Code	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials-		·	₹		₹	1,517.60 Amount
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead	kg	100.00	₹	176.00	₹	1,517.60 Amount
Code	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae		·	₹		₹₹	1,517.60 Amount 17,600.00 10.25
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL	kg	100.00 0.10		176.00	₹ ₹ ₹	1,517.60 Amount 17,600.00 10.25 17,610.25
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL Add for Sundries and contingencies	kg	100.00		176.00	₹₹₹₹	1,517.60 Amount 17,600.00 10.25 17,610.25 528.31
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL Add for Sundries and contingencies TOTAL	kg tonne	100.00 0.10 3.0%		176.00	₹₹₹₹₹	1,517.60 Amount 17,600.00 10.25 17,610.25 528.31 18,138.55
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL Add for Sundries and contingencies TOTAL Add for water charges	kg	100.00 0.10		176.00	₹ ₹ ₹ ₹ ₹ ₹	1,517.60 Amount 17,600.00
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	kg tonne	100.00 0.10 3.0% 1.0%		176.00	* * * * * * * * * * * * * * * * * * *	1,517.60 Amount 17,600.00
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL Add for Sundries and contingencies TOTAL Add for water charges	kg tonne	100.00 0.10 3.0%		176.00	**************************************	1,517.60 Amount 17,600.00
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL	kg tonne	100.00 0.10 3.0% 1.0%		176.00	* * * * * * * * * * * * * * * * * * *	1,517.60 Amount 17,600.00
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	kg tonne @	100.00 0.10 3.0% 1.0%		176.00	******* * ****************************	1,517.60 Amount 17,600.00
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads	kg tonne @	100.00 0.10 3.0% 1.0%		176.00	* * * * * * * * * * * * * * * * * * *	1,517.60 Amount 17,600.00
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL	kg tonne @	100.00 0.10 3.0% 1.0% 0.1405		176.00	**************************************	1,517.60 Amount 17,600.00
Code 18017	Say Supplying pig lead at site of work. Description Details of cost for 1 quintal materials- Pig Lead Carrigae TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess	kg tonne @	100.00 0.10 3.0% 1.0% 0.1405		176.00	**************************************	1,517.60 Amount 17,600.00

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints :

19.30.1	80 mm diameter pipe	11!	0		Data		A
Code	Description Details of cost for 10 joints	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints Materials :-						
19012	Rubber insertion 3mm thick required for 10 joints	each	10.00	₹	13.00	₹	130.00
19079	Bolts and nuts 16mm dia, 60 mmlong	each	40.00	₹	11.00	₹	440.00
10010	Labour-	Caon	40.00	`	11.00	`	440.00
0215	Fitter (grade-1)	Day	0.15	₹	440.00	₹	66.00
0214	Fitter (2nd Class)	Day	0.15	₹	355.00	₹	53.25
0203	Belder	Day	0.80	₹	310.00	₹	248.00
	TOTAL	•				₹	937.25
	Add for Carriage of materials, testing joints & white lead etc.	@	1.50 %			₹	14.06
	TOTAL					₹	951.31
	Add for Sundries and contingencies	@	3.0%			₹	28.54
	TOTAL					₹	979.85
	Add for water charges & Electricity	@	1.50%			₹	14.70
	TOTAL					₹	994.55
	Add GST (multiplying factor)		0.1405			₹	139.73
	TOTAL					₹	1,134.28
	Add 15% for contractor's profit and overheads	@	15%			₹	170.14
	TOTAL					₹	1,304.42
	Add cess	@	1%			₹	13.04

Cost for 10 nos. joints	₹	1,317.47
Cost per joint	₹	131.75
Say	₹	131.70

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints :

	testing or joints.						
19.30.2	100 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints						
	Materials :-						
19013	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	18.00	₹	180.00
19079	Bolts and nuts 16mm dia, 60 mmlong	each	80.00	₹	11.00	₹	880.00
	Labour-						
0215	Fitter (grade-1)	Day	0.25	₹	440.00	₹	110.00
0214	Fitter (2nd Class)	Day	0.25	₹	355.00	₹	88.75
0203	Belder	Day	1.00	₹	310.00	₹	310.00
	TOTAL					₹	1,568.75
	Add for Carriage of materials, testing joints & white lead etc.	@	1.50 %			₹	23.53
	TOTAL					₹	1,592.28
	Add for Sundries and contingencies	@	3.0%			₹	47.77
	TOTAL					₹	1,640.05
	Add for water charges & Electricity	@	1.50%			₹	24.60
	TOTAL					₹	1,664.65
	Add GST (multiplying factor)		0.1405			₹	233.88
	TOTAL					₹	1,898.53
	Add 15% for contractor's profit and overheads	@	15%			₹	284.78
	TOTAL					₹	2,183.31
	Add cess	@	1%			₹	21.83
	Cost for 10 nos. joints					₹	2,205.15
	Cost per joint					₹	220.51
	Say					₹	220.50

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints : testing of joints :

	testing or joints .						
19.30.3	125 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints						
	Materials :-						
19014	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	20.00	₹	200.00
19080	Bolts and nuts 16mm dia, 65 mm long	each	80.00	₹	12.00	₹	960.00
	Labour-						
0215	Fitter (grade-1)	Day	0.25	₹	440.00	₹	110.00
0214	Fitter (2nd Class)	Day	0.25	₹	355.00	₹	88.75
0203	Belder	Day	1.00	₹	310.00	₹	310.00
	TOTAL					₹	1,668.75
	Add for Carriage of materials, testing joints & white lead etc.	@	1.70 %			₹	28.37
	TOTAL					₹	1,697.12
	Add for Sundries and contingencies	@	3.0%			₹	50.91
	TOTAL					₹	1,748.03
	Add for water charges & Electricity	@	1.50%			₹	26.22
	TOTAL					₹	1,774.25
	Add GST (multiplying factor)		0.1405			₹	249.28
	TOTAL					₹	2,023.54
	Add 15% for contractor's profit and overheads	@	15%			₹	303.53
	TOTAL					₹	2,327.07
	Add cess	@	1%			₹	23.27
	Cost for 10 nos. joints					₹	2,350.34
	Cost per joint					₹	235.03

Say

235.00

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints :

19.30.4	150 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints						
	Materials :-						
19015	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	20.00	₹	200.00
19081	Bolts and nuts 20 mm dia, 65 mm long	each	80.00	₹	15.00	₹	1,200.00
	Labour-						
0215	Fitter (grade-1)	Day	0.30	₹	440.00	₹	132.00
0214	Fitter (2nd Class)	Day	0.30	₹		₹	106.50
0203	Belder	Day	1.10	₹	310.00	₹	341.00
	TOTAL					₹	1,979.50
	Add for Carriage of materials, testing joints & white lead etc.	@	2.0 %			₹	39.59
	TOTAL					₹	2,019.09
	Add for Sundries and contingencies	@	3.0%			₹	60.57
	TOTAL					₹	2,079.66
	Add for water charges & Electricity	@	1.50%			₹	31.19
	TOTAL					₹	2,110.86
	Add GST (multiplying factor)		0.1405			₹	296.58
	TOTAL					₹	2,407.43
	Add 15% for contractor's profit and overheads	@	15%			₹	361.11
	TOTAL					₹	2,768.55
	Add cess	@	1%			₹	27.69
	Cost for 10 nos. joints					₹	2,796.23
	Cost per joint					₹	279.62
	Say					₹	279.60

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints :

	testing of joints :						
19.30.5	200 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints						
	Materials :-						
19016	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	26.00	₹	260.00
19082	Bolts and nuts 20 mm dia, 70 mm long	each	80.00	₹	17.00	₹	1,360.00
	Labour-						
0215	Fitter (grade-1)	Day	0.30	₹	440.00	₹	132.00
0214	Fitter (2nd Class)	Day	0.30	₹	355.00	₹	106.50
0203	Belder	Day	1.10	₹	310.00	₹	341.00
	TOTAL					₹	2,199.50
	Add for Carriage of materials, testing joints & white lead etc.	@	3.0 %			₹	65.99
	TOTAL					₹	2,265.49
	Add for Sundries and contingencies	@	3.0%			₹	67.96
	TOTAL					₹	2,333.45
	Add for water charges & Electricity	@	1.50%			₹	35.00
	TOTAL					₹	2,368.45
	Add GST (multiplying factor)		0.1405			₹	332.77
	TOTAL					₹	2,701.22
	Add 15% for contractor's profit and overheads	@	15%			₹	405.18
	TOTAL					₹	3,106.40
	Add cess	@	1%			₹	31.06
	Cost for 10 nos. joints					₹	3,137.47
	Cost per joint					₹	313.75
	Say					₹	313.70

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints :

19.30.6	250 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints						
	Materials :-						
19017	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	40.00	₹	400.00
19083	Bolts and nuts 20 mm dia, 75 mm long	each	120.00	₹	16.00	₹	1,920.00
	Labour-						
0215	Fitter (grade-1)	Day	0.40	₹	440.00	₹	176.00
0214	Fitter (2nd Class)	Day	0.40	₹	355.00	₹	142.00
0203	Belder	Day	1.30	₹	310.00	₹	403.00
	TOTAL					₹	3,041.00
	Add for Carriage of materials, testing joints & white lead etc.	@	2.50 %			₹	76.03
	TOTAL					₹	3,117.03
	Add for Sundries and contingencies	@	3.0%			₹	93.51
	TOTAL					₹	3,210.54
	Add for water charges & Floatricity	@	1.50%			₹	48.16
	Add for water charges & Electricity TOTAL	O	1.0070			₹	3,258.69
	Add GST (multiplying factor)		0.1405			₹	457.85
	TOTAL		0.1403			₹	3,716.54
	Add 15% for contractor's profit and overheads	@	15%			₹	557.48
	TOTAL	O	1070			₹	4,274.02
	Add cess	@	1%			₹	42.74
	Cost for 10 nos. joints					₹	4,316.76
	Cost per joint					₹	431.68
	Say					₹	431.70
19.30	Providing flanged joints to double flanged C.I./ D.I. pipes and testing of joints:	d specials ir	cluding test	ing (of joints :		
19.30.7	300 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints		•				
10019	Materials:-	oach	10.00	₹	46.00	∓	460.00

	testing of joints :						
19.30.7	300 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints						
	Materials :-						
19018	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	46.00	₹	460.00
19083	Bolts and nuts 20 mm dia, 75 mm long	each	120.00	₹	16.00	₹	1,920.00
	Labour-						
0215	Fitter (grade-1)	Day	0.40	₹	440.00	₹	176.00
0214	Fitter (2nd Class)	Day	0.40	₹	355.00	₹	142.00
0203	Belder	Day	1.30	₹	310.00	₹	403.00
	TOTAL					₹	3,101.00
	Add for Carriage of materials, testing joints & white lead etc.	@	2.50 %			₹	77.53
	TOTAL					₹	3,178.53
	Add for Sundries and contingencies	@	3.0%			₹	95.36
	TOTAL					₹	3,273.88
	Add for water charges & Electricity	@	1.50%			₹	49.11
	TOTAL					₹	3,322.99
	Add GST (multiplying factor)		0.1405			₹	466.88
	TOTAL					₹	3,789.87
	Add 15% for contractor's profit and overheads	@	15%			₹	568.48
	TOTAL					₹	4,358.35
	Add cess	@	1%			₹	43.58
	Cost for 10 nos. joints					₹	4,401.93
	Cost per joint					₹	440.19
	Say					₹	440.20

	testing of joints :				
19.30.8	350 mm diameter pipe				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 joints				
	Materials :-				

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints :

19019	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	52.00	₹	520.00
19084	Bolts and nuts 20 mm dia, 80 mm long	each	160.00	₹	18.00	₹	2,880.00
	Labour-						
0215	Fitter (grade-1)	Day	0.50	₹	440.00	₹	220.00
0214	Fitter (2nd Class)	Day	0.50	₹	355.00	₹	177.50
0203	Belder	Day	1.50	₹	310.00	₹	465.00
	TOTAL					₹	4,262.50
	Add for Carriage of materials, testing joints & white lead etc.	@	2.0 %			₹	85.25
	TOTAL					₹	4,347.75
	Add for Sundries and contingencies	@	3.0%			₹	130.43
	TOTAL					₹	4,478.18
	Add for water charges & Electricity	@	1.50%			₹	67.17
	TOTAL					₹	4,545.36
	Add GST (multiplying factor)		0.1405			₹	638.62
	TOTAL					₹	5,183.98
	Add 15% for contractor's profit and overheads	@	15%			₹	777.60
	TOTAL					₹	5,961.57
	Add cess	@	1%			₹	59.62
	Cost for 10 nos. joints					₹	6,021.19
	Cost per joint					₹	602.12
	Say					₹	602.10

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints: testing of joints: 19.30 9 400 mm diameter pipe

19.30.9	400 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints						
	Materials :-						
19020	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	75.00		750.00
19085	Bolts and nuts 24 mm dia 85 mm long	each	160.00	₹	28.00	₹	4,480.00
	Labour-						
0215	Fitter (grade-1)	Day	0.50	₹	440.00	₹	220.00
0214	Fitter (2nd Class)	Day	0.50	₹	355.00	₹	177.50
0203	Belder	Day	1.50	₹	310.00	₹	465.00
	TOTAL					₹	6,092.50
	Add for Carriage of materials, testing joints & white lead etc.	@	1.25 %			₹	76.16
	TOTAL					₹	6,168.66
	Add for Sundries and contingencies	@	3.0%			₹	185.06
	TOTAL					₹	6,353.72
	Add for water charges & Electricity	@	1.50%			₹	95.31
	TOTAL					₹	6,449.02
	Add GST (multiplying factor)		0.1405			₹	906.09
	TOTAL					₹	7,355.11
	Add 15% for contractor's profit and overheads	@	15%			₹	1,103.27
	TOTAL					₹	8,458.38
	Add cess	@	1%			₹	84.58
	Cost for 10 nos. joints					₹	8,542.96
	Cost per joint					₹	854.30
	Say					₹	854.30

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints :

19.30.10	450 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints						
	Materials :-						
19021	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	95.00	₹	950.00
19085	Bolts and nuts 24 mm dia 85 mm long	each	200.00	₹	28.00	₹	5,600.00
	Labour-						

0214	Fitter (grade-1) Fitter (2nd Class) Belder	Day Day Day	0.60 0.60 1.70	₹ ₹	440.00 355.00 310.00	₹ ₹	264.00 213.00 527.00
	TOTAL					₹	7,554.00
	Add for Carriage of materials, testing joints & white lead etc.	@	1.30 %			₹	98.20
	TOTAL					₹	7,652.20
	Add for Sundries and contingencies	@	3.0%			₹	229.57
	TOTAL					₹	7,881.77
	Add for water charges & Electricity	@	1.50%			₹	118.23
	TOTAL					₹	7,999.99
	Add GST (multiplying factor)		0.1405			₹	1,124.00
	TOTAL					₹	9,123.99
	Add 15% for contractor's profit and overheads	@	15%			₹	1,368.60
	TOTAL					₹	10,492.59
	Add cess	@	1%			₹	104.93
	Cost for 10 nos. joints					₹	10,597.52
	Cost per joint					₹	1,059.75
	Say					₹	1,059.80

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints:

	testing of joints :						
19.30.11	500 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints						
	Materials :-						
19022	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	113.00	₹	1,130.00
19086	Bolts and nuts 24 mm dia 90 mm long	each	200.00	₹	35.00	₹	7,000.00
	Labour-						
0215	Fitter (grade-1)	Day	0.65	₹	440.00	₹	286.00
0214	Fitter (2nd Class)	Day	0.65	₹	355.00	₹	230.75
0203	Belder	Day	1.80	₹	310.00	₹	558.00
	TOTAL					₹	9,204.75
	Add for Carriage of materials, testing joints & white lead etc.	@	1.30 %			₹	119.66
	TOTAL					₹	9,324.41
	Add for Sundries and contingencies	@	3.0%			₹	279.73
	TOTAL					₹	9,604.14
	Add for water charges & Electricity	@	1.50%			₹	144.06
	TOTAL					₹	9,748.21
	Add GST (multiplying factor)		0.1405			₹	1,369.62
	TOTAL					₹	11,117.83
	Add 15% for contractor's profit and overheads	@	15%			₹	1,667.67
	TOTAL					₹	12,785.50
	Add cess	@	1%			₹	127.86
	Cost for 10 nos. joints					₹	12,913.36
	Cost per joint					₹	1,291.34
	Say					₹	1,291.30

19.30 Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints: testing of joints:

	testing or joints.						
19.30.12	600 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 joints						
	Materials :-						
19023	Rubber insertion 3 mm thick required for 10 joints	each	10.00	₹	130.00	₹	1,300.00
19087	Bolts and nuts 27 mm dia 100 mm long	each	200.00	₹	41.00	₹	8,200.00
	Labour-						
0215	Fitter (grade-1)	Day	0.75	₹	440.00	₹	330.00
0214	Fitter (2nd Class)	Day	0.75	₹	355.00	₹	266.25

0203 I	Helper	Day	2.00	₹	310.00	₹	620.00
-	TOTAL					₹	10,716.25
,	Add for Carriage of materials, testing joints & white lead etc.	@	1.40 %			₹	150.03
-	TOTAL					₹	10,866.28
,	Add for Sundries and contingencies	@	3.0%			₹	325.99
-	TOTAL					₹	11,192.27
,	Add for water charges & Electricity	@	1.50%			₹	167.88
-	TOTAL					₹	11,360.15
,	Add GST (multiplying factor)		0.1405			₹	1,596.10
-	TOTAL					₹	12,956.25
,	Add 15% for contractor's profit and overheads	@	15%			₹	1,943.44
-	TOTAL					₹	14,899.69
,	Add cess	@	1%			₹	149.00
(Cost for 10 nos. joints					₹	15,048.69
(Cost per joint					₹	1,504.87
;	Say					₹	1,504.90

	100 mm diameter Class I Description	Unit	Quantity		Rate		Amount
Code	Details of cost for 10 sluice valves	Onit	Quantity		Rate		Amount
19073	Materials:- 100mm dia. sluice valves class-I (with cap) Carriage of sluice valves	each	10.00	₹	2,600.00	₹	26,000.00
0407	100 mm dia valve wt.=10 x 44.30 kg =443.00 kg= 4.43 q = 0.443 t. say 0.44 t	tonne	0.44	₹	102.47	=	45.09
19013	Rubber insertion 3 mm thick	each	10.00	₹	18.00		180.00
19079	Bolts and nuts 16 mm dia 60 mm long	each	160.00	₹	11.00		1,760.00
10070	Labour:	odon	100.00	•	11.00	•	1,7 00.00
2015	For lowering & laying	_		-	440.00	~	400.00
0215	Fitter (grade-1)	Day	0.93	₹	440.00		409.20
0214 0203	Fitter (2nd Class) Belder	Day	0.62 2.48	₹	355.00 310.00		220.10 768.80
0203	Labour:	Day	2.40	•	310.00	ζ.	766.60
2015	For Joining	_		-	440.00	~	440.00
0215	Fitter (grade-1)	Day	0.25	₹	440.00		110.00
0214 0203	Fitter (2nd Class)	Day	0.25	₹	355.00		88.75
TOTAL	Belder	Day	1.00	₹	310.00	₹ ₹	310.00 29,891.94
	Add for carriage of other materials testing joints & white lead etc.	@	0.16 %			₹	47.83
	TOTAL					₹	29,939.76
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.225 %			₹	67.36
	TOTAL					₹	30,007.13
	Add for Sundries and contingencies	@	3.0%			₹	900.21
	TOTAL					₹	30,907.34
	Add for water charges	@	1.0%			₹	309.07
	TOTAL		0.1405			₹	31,216.42
	Add GST (multiplying factor) TOTAL		0.1405			₹	4,385.91 35,602.32
	Add 15% for contractor's profit and overheads	@	15%			₹	5,340.35
	TOTAL	•	1070			₹	40,942.67
	Add cess	@	1%			₹	409.43
	Cost for 10 nos.sluice valve					₹	41,352.10
	Cost per valve					₹	4,135.21

Say

4,135.20

19.31.1 100 mm diameter

1	19	31	.1	.2	CI	ass	II

19.31.1.2	Class II						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sluice valves						
	Materials :-						
19094	100mm dia. sluice valves class-II (with cap)	each	10.00	₹	2,750.00	₹	27,500.00
	Carriage of sluice valves						
0407	100 mm dia class-II 10 valve wt.=10 x 56.30 kg =						
	563.00 kg=5.63 q = 0.563 t. say 0.56 t	tonne	0.563	₹	102.47	₹	57.69
19013	Rubber insertion 3 mm thick	each	10.00	₹	18.00	₹	180.00
19079	Bolts and nuts 16 mm dia 60 mm long	each	160.00	₹	11.00	₹	1,760.00
	Labour:						
	For lowering & laying						
0215	Fitter (grade-1)	Day	0.93	₹	440.00		409.20
0214	Fitter (2nd Class)	Day	0.62	₹	355.00	₹	220.10
0203	Belder	Day	2.48	₹	310.00	₹	768.80
	Labour:						
	For Joining						
0215	Fitter (grade-1)	Day	0.25	₹	440.00	₹	110.00
0214	Fitter (2nd Class)	Day	0.25	₹	355.00	₹	88.75
0203	Belder	Day	1.00	₹	310.00	₹	310.00
TOTAL						₹	31,404.54
	Add for carriage of other materials testing joints & white lead etc.	@	0.15 %			₹	47.11
	TOTAL					₹	31,451.65
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.20 %			₹	62.90
	TOTAL					₹	31,514.55
	Add for Sundries and contingencies	@	3.0%			₹	945.44
	TOTAL					₹	32,459.99
	Add for water charges	@	1.0%			₹	324.60
	TOTAL					₹	32,784.59
	Add GST (multiplying factor)		0.1405			₹	4,606.23
	TOTAL					₹	37,390.82
	Add 15% for contractor's profit and overheads	@	15%			₹	5,608.62
	TOTAL					₹	42,999.44
,	Add cess	@	1%			₹	429.99
	Cost for 10 nos.sluice valve					₹	43,429.44
	Cost per valve					₹	4,342.94
	Say					₹	4,342.90

19.31 Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately):

19.31.2 125 mm diameter

1	9.31	.2.1	Class I

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sluice valves						
	Materials :-						
19074	125 mm dia. sluice valves class-I (with cap)	each	10.00	₹	2,700.00	₹	27,000.00
	Carriage of sluice valves						
0407	125 mm dia class-I 10 valve wt.=10 x 56.30 kg =						
	563.00 kg=5.63 q = 0.563 t. say 0.56 t	tonne	0.563	₹	102.47	₹	57.69
19014	Rubber insertion 3 mm thick	each	10.00	₹	20.00	₹	200.00
19080	Bolts and nuts 16 mm dia 65 mm long	each	160.00	₹	12.00	₹	1,920.00
	Labour:						
	For lowering & laying						
0215	Fitter (grade-1)	Day	0.93	₹	440.00	₹	409.20
0214	Fitter (2nd Class)	Day	0.62	₹	355.00	₹	220.10
0203	Belder	Day	2.48	₹	310.00	₹	768.80
	Labour:						
	For Joining						

0215 0214 0203 TOTAL	Fitter (grade-1) Fitter (2nd Class) Belder	Day Day Day	0.25 0.25 1.00	₹ ₹	440.00 355.00 310.00	₹ ₹ ₹	110.00 88.75 310.00 31,084.54
	Add for carriage of other materials testing joints & white lead etc.	@	0.15 %			₹	46.63
	TOTAL					₹	31,131.17
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.20 %			₹	62.26
	TOTAL					₹	31,193.43
	Add for Sundries and contingencies	@	3.0%			₹	935.80
	TOTAL Add for water charges TOTAL	@	1.0%			₹ ₹	32,129.23 321.29 32,450.52
	Add GST (multiplying factor)		0.1405			₹	4,559.30
	TOTAL Add 15% for contractor's profit and overheads TOTAL	@	15%			₹ ₹	37,009.82 5,551.47 42,561.30
	Add cess	@	1%			₹	425.61
	Cost for 10 nos.sluice valve Cost per valve Say					₹ ₹	42,986.91 4,298.69 4,298.70

19.31.2 125 mm diameter

19.31.2	125 mm diameter						
19.31.2.2	Class II						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sluice valves						
	Materials :-						
19095	125 mm dia. sluice valves class-II (with cap)	each	10.00	₹	3,350.00	₹	33,500.00
	Carriage of sluice valves						
0407	125 mm dia class-II 10 valve wt.=10 x 68.30 kg =						
	683.00 kg = 6.83 q = 0.683 t.	tonne	0.683	₹	102.47	₹	69.99
19014	Rubber insertion 3 mm thick	each	10.00	₹	20.00	₹	200.00
19080	Bolts and nuts 16 mm dia 65 mm long	each	160.00	₹	12.00	₹	1,920.00
	Labour:						
	For lowering & laying						
0215	Fitter (grade-1)	Day	0.93	₹		₹	409.20
0214	Fitter (2nd Class)	Day	0.62	₹	355.00	₹	220.10
0203	Belder	Day	2.48	₹	310.00	₹	768.80
	Labour:						
	For Joining	_		_		_	
0215	Fitter (grade-1)	Day	0.30	₹	440.00	₹	132.00
0214	Fitter (2nd Class)	Day	0.30	₹	355.00	₹	106.50
0203	Belder	Day	1.10	₹	310.00	₹	341.00
TOTAL						₹	37,667.59
	Add for carriage of other materials testing joints & white lead etc.	@	0.15 %			₹	56.50
	TOTAL					₹	37,724.09
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.20 %			₹	75.45
	TOTAL					₹	37,799.54
	Add for Sundries and contingencies	@	3.0%			₹	1,133.99
	TOTAL					₹	38,933.52
	Add for water charges	@	1.0%			₹	389.34
	TOTAL					₹	39,322.86
	Add GST (multiplying factor)		0.1405			₹	5,524.86
	TOTAL					₹	44,847.72
	Add 15% for contractor's profit and overheads	@	15%			₹	6,727.16
	TOTAL					₹	51,574.88
	Add cess	@	1%			₹	515.75
	Cost for 10 nos.sluice valve					₹	52,090.63

 Cost per valve
 ₹
 5,209.06

 Say
 ₹
 5,209.10

19.31 Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately):

19.31.3	150 mm	diameter
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	130 mm diameter						
19.31.3.1							
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sluice valves						
	Materials :-						
19075	150 mm dia. sluice valves class-I (with cap)	each	10.00	₹	3,700.00	₹	37,000.00
	Carriage of sluice valves						
0407	150 mm dia class-I ,10 valve wt.=10 x 72.50 kg =						
	725.00 kg=7.25 q = 0.725 t.	tonne	0.725	₹	102.47	₹	74.29
19015	Rubber insertion 3 mm thick	each	10.00	₹	20.00		200.00
19081	Bolts and nuts 20 mm dia 65 mm long	each	160.00	₹	15.00		2,400.00
	Labour:			_		-	_,
	For lowering & laying						
0215	Fitter (grade-1)	Day	0.93	₹	440.00	₹	409.20
0214	Fitter (2nd Class)	Day	0.62	₹	355.00		220.10
0203	Belder	Day	2.48	₹	310.00		768.80
0200	Labour:	,		•	0.0.00	•	. 00.00
	For Joining						
0215	Fitter (grade-1)	Day	0.30	₹	440.00	₹	132.00
0214	Fitter (2nd Class)	Day	0.30	₹	355.00	₹	106.50
0203	Belder	Day	1.10	₹	310.00	₹	341.00
TOTAL	Boldon	Day	0	•	010.00	₹	41,651.89
		_					
	Add for carriage of other materials testing joints & white lead etc.	@	0.15 %			₹	62.48
	TOTAL					₹	41,714.37
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.19 %			₹	79.26
	TOTAL					₹	41,793.63
	TOTAL	_					
	Add for Sundries and contingencies	@	3.0%			₹	1,253.81
	TOTAL					₹	43,047.43
	Add for water charges	@	1.0%			₹	430.47
	TOTAL					₹	43,477.91
	Add GST (multiplying factor)		0.1405			₹	6,108.65
	TOTAL					₹	49,586.56
	Add 15% for contractor's profit and overheads	@	15%			₹	7,437.98
	TOTAL					₹	57,024.54
	Add cess	@	1%			₹	570.25
	Cost for 10 nos.sluice valve					₹	57,594.78
	Cost per valve					₹	5,759.48
	Say					₹	5,759.50
	•						•

19.31 Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately):

19.31.3 150 mm diameter

19.31.3.2	Class II						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sluice valves						
	Materials :-						
19096	150 mm dia. sluice valves class-II (with cap)	each	10.00	₹	4,300.00	₹	43,000.00
	Carriage of sluice valves						
0407	150 mm dia class-II ,10 valve wt.=10 x 72.50 kg =						
	725.00 kg=7.25 q = 0.725 t.	tonne	0.725	₹	102.47	₹	74.29
19015	Rubber insertion 3 mm thick	each	10.00	₹	20.00	₹	200.00
19081	Bolts and nuts 20 mm dia 65 mm long	each	160.00	₹	15.00	₹	2,400.00
	Labour:						
	For lowering & laying						
0215	Fitter (grade-1)	Day	0.93	₹	440.00	₹	409.20
0214	Fitter (2nd Class)	Day	0.62	₹	355.00	₹	220.10

0203	Belder Labour:	Day	2.48	₹	310.00	₹	768.80
0215 0214 0203 TOTAL	For Joining Fitter (grade-1) Fitter (2nd Class) Belder	Day Day Day	0.30 0.30 1.10	₹ ₹	440.00 355.00 310.00	₹ ₹ ₹	132.00 106.50 341.00 47,651.89
	Add for carriage of other materials testing joints & white lead etc.	@	0.15 %			₹	71.48
	TOTAL					₹	47,723.37
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.175 %			₹	83.52
	TOTAL					₹	47,806.88
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	1,434.21 49,241.09
	Add for water charges TOTAL	@	1.0%			₹ ₹	492.41 49,733.50
	Add GST (multiplying factor) TOTAL		0.1405			₹ ₹	6,987.56 56,721.06
	Add 15% for contractor's profit and overheads TOTAL	@	15%			₹ ₹	8,508.16 65,229.22
	Add cess	@	1%			₹	652.29
	Cost for 10 nos.sluice valve Cost per valve Say					₹ ₹	65,881.51 6,588.15 6,588.20

19.31.4 200 mm diameter

200 mm diameter						
•	Unit	Quantity		Rate		Amount
	each	10.00	₹	7,800.00	₹	78,000.00
Carriage of sluice valves						
200 mm dia class-I ,10 valve wt.=10 x 121.50 kg =						
1215.00 kg=12.15 q = 1.215 t.	tonne	1.215	₹	102.47	₹	124.50
Rubber insertion 3 mm thick	each	10.00	₹	26.00	₹	260.00
Bolts and nuts 20 mm dia 70 mm long	each	160.00	₹	17.00	₹	2,720.00
Labour:						
,	Day	0.50	₹			220.00
· · · · · · · · · · · · · · · · · · ·	,					710.00
	Day	6.00	₹	310.00	₹	1,860.00
·-	,					154.00
,	•					266.25
Belder	Day	1.10	₹	310.00		341.00
					₹	84,655.75
Add for carriage of other materials testing joints & white lead etc.	@	0.10 %			₹	84.66
TOTAL					₹	84,740.41
Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.12 %			₹	101.69
TOTAL					₹	84,842.10
Add for Sundries and contingencies	@	3.0%			₹	2,545.26
						87,387.36
<u> </u>	@	1.0%				873.87
		0.4.105				88,261.23
		0.1405				12,400.70
	@	150/				1,00,661.93
Add 15% for contractor's profit and overneads	w	15%			<	15,099.29
	Class I Description Details of cost for 10 sluice valves Materials:- 200 mm dia. sluice valves class-I (with cap) Carriage of sluice valves 200 mm dia class-I ,10 valve wt.=10 x 121.50 kg = 1215.00 kg=12.15 q = 1.215 t. Rubber insertion 3 mm thick Bolts and nuts 20 mm dia 70 mm long Labour: For lowering & laying Fitter (grade-1) Fitter (2nd Class) Belder Labour: For Joining Fitter (grade-1) Fitter (grade-1) Fitter (2nd Class) Belder Add for carriage of other materials testing joints & white lead etc. TOTAL Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	Class I Description Unit Details of cost for 10 sluice valves Materials:- 200 mm dia. sluice valves class-I (with cap) 200 mm dia. sluice valves 200 mm dia class-I ,10 valve wt.=10 x 121.50 kg = 1215.00 kg=12.15 q = 1.215 t. tonne Rubber insertion 3 mm thick each Bolts and nuts 20 mm dia 70 mm long each Labour: For lowering & laying Fitter (grade-1) Fitter (2nd Class) Belder Labour: For Joining Fitter (grade-1) Fitter (grade-1) Fitter (grade-1) Fitter (2nd Class) Belder Labour: For Joining Fitter (2nd Class) Belder Day Add for carriage of other materials testing joints & white lead etc. TOTAL Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering. @ TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL	Class Description	Class Cla	Class Cla	Class Description Duit Quantity Rate Description Details of cost for 10 sluice valves Materials :- 200 mm dia. sluice valves class-! (with cap) each 10.00 ₹ 7,800

TOTAL		₹ 1,15,761.23
Add cess	@ 1%	₹ 1,157.61
Cost for 10 nos.sluice valve		₹ 1,16,918.84
Cost per valve		₹ 11,691.88
Say		₹ 11,691.90

19 31 4	200 mm	diameter
13.31.4	200 111111	ulallictel

	Ol II						
	Class II	1114	0		Data		A
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sluice valves						
4000=	Materials:-		40.00	-	0 400 00	-	
19097	200 mm dia. sluice valves class-II (with cap)	each	10.00	₹	8,400.00	₹	84,000.00
2.40=	Carriage of sluice valves						
0407	200 mm dia class-II ,10 valve wt.=10 x 150.50 kg =						
	1505.00 kg=15.05 q = 1.505 t.	tonne	1.505	₹	102.47		154.22
19016	Rubber insertion 3 mm thick	each	10.00	₹	26.00	₹	260.00
19082	Bolts and nuts 20 mm dia 65 mm long	each	160.00	₹	17.00	₹	2,720.00
	Labour:						
	For lowering & laying						
0215	Fitter (grade-1)	Day	0.50	₹	440.00	₹	220.00
0214	Fitter (2nd Class)	Day	2.00	₹	355.00	₹	710.00
0203	Belder	Day	6.50	₹	310.00	₹	2,015.00
	Labour:						
	For Joining						
0215	Fitter (grade-1)	Day	0.35	₹	440.00	₹	154.00
0214	Fitter (2nd Class)	Day	0.75	₹	355.00	₹	266.25
0203	Belder	Day	1.10	₹	310.00	₹	341.00
TOTAL						₹	90,840.47
	Add for carriage of other materials testing joints & white lead etc.	@	0.10 %			₹	90.84
	TOTAL					₹	90,931.31
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.11 %			₹	100.02
		©	0.11 /0				
	TOTAL					₹	91,031.33
	Add for Sundries and contingencies	@	3.0%			₹	2,730.94
	TOTAL					₹	93,762.27
	Add for water charges	@	1.0%			₹	937.62
	TOTAL					₹	94,699.89
	Add GST (multiplying factor)		0.1405			₹	13,305.34
	TOTAL					₹	
	Add 15% for contractor's profit and overheads	@	15%			₹	16,200.78
	TOTAL					₹	1,24,206.01
	Add cess	@	1%			₹	1,242.06
	Cost for 10 nos.sluice valve					₹	1,25,448.07
	Cost per valve					₹	12,544.81
	Say					₹	12,544.80
	•						•

19.31 Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately):

19.31.5 250 mm diameter

19.31	.5.1	Class	ı

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sluice valves						
	Materials :-						
19077	250 mm dia. sluice valves class-I (with cap)	each	10.00	₹	11,500.00	₹	1,15,000.00
	Carriage of sluice valves						
0407	250 mm dia class-II ,10 valve wt.=10 x 179.90 kg =						
	1799.00 kg=17.99 q = say, 1.80 t.	tonne	1.800	₹	102.47	₹	184.45
19017	Rubber insertion 3 mm thick	each	10.00	₹	40.00	₹	400.00
19083	Bolts and nuts 20 mm dia 75 mm long	each	240.00	₹	16.00	₹	3,840.00

	Labour:						
	For lowering & laying						
0215	Fitter (grade-1)	Day	0.55	₹	440.00	₹	242.00
0214	Fitter (2nd Class)	Day	2.50	₹	355.00	₹	887.50
0203	Belder	Day	8.75	₹	310.00	₹	2,712.50
	Labour:						
	For Joining						
0215	Fitter (grade-1)	Day	0.40	₹	440.00	₹	176.00
0214	Fitter (2nd Class)	Day	0.80	₹	355.00	₹	284.00
0203	Belder	Day	1.30	₹	310.00	₹	403.00
TOTAL						₹	1,24,129.45
	Add for carriage of other materials testing joints & white lead etc.	@	0.08 %			₹	99.30
	TOTAL					₹	1,24,228.75
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.10 %			₹	124.23
	TOTAL					₹	1,24,352.98
	Add for Sundries and contingencies	@	3.0%			₹	3,730.59
	TOTAL					₹	1,28,083.57
	Add for water charges	@	1.0%			₹	1,280.84
	TOTAL					₹	1,29,364.40
	Add GST (multiplying factor)		0.1405			₹	18,175.70
	TOTAL					₹	1,47,540.10
	Add 15% for contractor's profit and overheads	@	15%			₹	22,131.02
	TOTAL					₹	1,69,671.12
	Add cess	@	1%			₹	1,696.71
	Cost for 10 nos.sluice valve					₹	1,71,367.83
	Cost per valve					₹	17,136.78
	Say					₹	17,136.80

19.31.5 250	nm dian	neter
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19.31.5.2	Class II						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sluice valves		_				
	Materials :-						
19098	250 mm dia. sluice valves class-II (with cap)	each	10.00	₹	14,500.00	₹	1,45,000.00
	Carriage of sluice valves						
0407	250 mm dia class-II ,10 valve wt.=10 x 229.90 kg =						
	2299.00 kg 22.99 q = say, 2.30 t.	tonne	2.300	₹	102.47	₹	235.68
19017	Rubber insertion 3 mm thick	each	10.00	₹	40.00	₹	400.00
19083	Bolts and nuts 20 mm dia 75 mm long	each	240.00	₹	16.00	₹	3,840.00
	Labour:						
	For lowering & laying						
0215	Fitter (grade-1)	Day	0.55	₹	440.00		242.00
0214	Fitter (2nd Class)	Day	2.50	₹	355.00		887.50
0203	Belder	Day	9.25	₹	310.00	₹	2,867.50
	Labour:						
0045	For Joining	D	0.40	-	440.00	-	470.00
0215	Fitter (grade-1)	Day	0.40	₹		₹	176.00
0214 0203	Fitter (2nd Class) Belder	Day	0.90	₹	355.00	₹	319.50 372.00
TOTAL	beidei	Day	1.20	ζ.	310.00	₹ ₹	1, 54,340.18
TOTAL							
	Add for carriage of other materials testing joints & white lead etc.	@	0.08 %			₹	123.47
	TOTAL					₹	1,54,463.65
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.085 %			₹	131.29
	TOTAL					₹	1,54,594.95
	Add for Sundries and contingencies	@	3.0%			₹	4,637.85
	TOTAL					₹	1,59,232.80
	Add for water charges	@	1.0%			₹	1,592.33

TOTAL			₹ 1,60,825.12
Add GST (multiplying factor)		0.1405	₹ 22,595.93
TOTAL			₹ 1,83,421.05
Add 15% for contractor's profit and overheads	@	15%	₹ 27,513.16
TOTAL			₹ 2,10,934.21
Add cess	@	1%	₹ 2,109.34
Cost for 10 nos.sluice valve			₹ 2,13,043.55
Cost per valve			₹ 21,304.36
Say			₹ 21,304.40

19.31.6 19.31.6.1	300 mm diameter Class I						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 sluice valves Materials:-						
19078	300 mm dia. sluice valves class-I (with cap)	each	10.00	₹	15 800 00	₹	1,58,000.00
10070	Carriage of sluice valves	Cuon	10.00	`	10,000.00	`	1,00,000.00
0407	300 mm dia class-I ,10 valve wt.=10 x 242.40 kg =						
	2424.00 kg=24.24 q = say, 2.424 t.	tonne	2.424	₹	102.47	₹	248.39
19018	Rubber insertion 3 mm thick	each	10.00	₹	46.00	₹	460.00
19083	Bolts and nuts 20 mm dia 75 mm long	each	240.00	₹	16.00	₹	3,840.00
	Labour:						
	For lowering & laying						
0215	Fitter (grade-1)	Day	0.6	₹		₹	264.00
0214	Fitter (2nd Class)	Day	3.00	₹		₹	1,065.00
0203	Belder	Day	13.00	₹	310.00	₹	4,030.00
	Labour:						
	For Joining						
0215	Fitter (grade-1)	Day	0.50	₹	440.00		220.00
0214	Fitter (2nd Class)	Day	1.00	₹	355.00	₹	355.00
0203	Belder	Day	1.40	₹	310.00	₹	434.00
TOTAL						₹	1,68,916.39
	Add for carriage of other materials testing joints & white lead etc.	@	0.08 %			₹	135.13
	TOTAL					₹	1,69,051.52
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.09 %			₹	152.15
	TOTAL					₹	1,69,203.67
	Add for Sundries and contingencies	@	3.0%			₹	5,076.11
	TOTAL					₹	1,74,279.78
	Add for water charges	@	1.0%			₹	1,742.80
	TOTAL					₹	1,76,022.57
	Add GST (multiplying factor)		0.1405			₹	24,731.17

19.31 Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately):

@

@

15%

1%

19.31.6 300 mm diameter

TOTAL

TOTAL

Add cess

Say

Cost per valve

Cost for 10 nos.sluice valve

Add 15% for contractor's profit and overheads

19.31.6.2	Class II					
Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 10 sluice valves					
	Materials :-					
19099	300 mm dia. sluice valves class-II (with cap)	each	10.00	₹ 16,500.00	₹	1,65,000.00
	Carriage of sluice valves					

₹ 2,00,753.75

₹ 2,30,866.81

₹ 2,33,175.48

30,113.06

2,308.67

23,317.55

23,317.50

₹

₹

0407	300 mm dia class-II,10 valve wt.=10 x 303.40 kg =						
	3034.00 kg=30.34 q = say, 3.034 t.	tonne	3.030	₹	102.47	₹	310.48
19018	Rubber insertion 3 mm thick	each	10.00	₹	46.00	₹	460.00
19083	Bolts and nuts 20 mm dia 75 mm long	each	240.00	₹	16.00	₹	3,840.00
	Labour:						
	For lowering & laying						
0215	Fitter (grade-1)	Day	0.6	₹	440.00	₹	264.00
0214	Fitter (2nd Class)	Day	3.00	₹	355.00	₹	1,065.00
0203	Belder	Day	14.00	₹	310.00	₹	4,340.00
	Labour:						
	For Joining						
0215	Fitter (grade-1)	Day	0.50	₹	440.00	₹	220.00
0214	Fitter (2nd Class)	Day	1.00	₹	355.00	₹	355.00
0203	Belder	Day	1.50	₹	310.00	₹	465.00
TOTAL						₹	1,76,319.48
	Add for carriage of other materials testing joints & white lead etc.	@	0.06 %			₹	105.79
	TOTAL					₹	1,76,425.28
	Add for Ropes, Ballies, Pulleys, Crow bars etc. for lowering.	@	0.065 %			₹	114.68
	3						
	TOTAL					₹	1,76,539.95
	TOTAL	@	3.0%			₹	1,76,539.95 5,296.20
		@	3.0%				• •
	TOTAL Add for Sundries and contingencies	@	3.0% 1.0%			₹	5,296.20
	TOTAL Add for Sundries and contingencies TOTAL					₹ ₹	5,296.20 1,81,836.15
	TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)					₹ ₹ ₹	5,296.20 1,81,836.15 1,818.36
	TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL	@	1.0% 0.1405			₹₹₹₹₹	5,296.20 1,81,836.15 1,818.36 1,83,654.51 25,803.46 2,09,457.97
	TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads		1.0%			₹₹₹₹₹	5,296.20 1,81,836.15 1,818.36 1,83,654.51 25,803.46 2,09,457.97 31,418.70
	TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL	@	1.0% 0.1405			₹₹₹₹₹	5,296.20 1,81,836.15 1,818.36 1,83,654.51 25,803.46 2,09,457.97
	TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads	@	1.0% 0.1405			₹₹₹₹₹	5,296.20 1,81,836.15 1,818.36 1,83,654.51 25,803.46 2,09,457.97 31,418.70
	TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL	@	1.0% 0.1405 15%			₹₹₹₹₹₹	5,296.20 1,81,836.15 1,818.36 1,83,654.51 25,803.46 2,09,457.97 31,418.70 2,40,876.67
	TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL Add cess	@	1.0% 0.1405 15%			₹ ₹ ₹ ₹ ₹ ₹ ₹	5,296.20 1,81,836.15 1,818.36 1,83,654.51 25,803.46 2,09,457.97 31,418.70 2,40,876.67 2,408.77

19.32

Constructing masonry Chamber 30x30x50 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement :4 fine sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design:

19.32.1 With Second class bricks

Code	Description	Unit	Quantity	Rate	;		Amount
	Initial procedure to be adopted to analyse the item:						
	Quantities for one stop cock chamber as per prescribed in the item						
1	Earthwork: 1x0.68x0.68x0.65= 0.30 cum						
2	1:5:10 concrete in foundation: 1x0.68x0.68x0.075= 0.0347 cum						
3	Brickwork 2nd class in C.M 1:4: 2X0.53X0.115X0.50= 0.06095 cui	n					
	2x0.30x0.115x0.50=0.0345 cum Total = 0.095 cum						
4	12 mm cement plaster 1:3 with a floating coat of neat cement:						
	Bottom: 1x0.30x0.30= 0.09 sqm						
	Sides: 4x0.30x0.50=0.60 sqm Total= 0.69 sqm.						
5	Cement concrete: 1:2:4=1x0.53x0.53x0.075=0.02106 cum						
	Less suface area box: 1x0.112x0.112x0.075= (-) 0.00094 cum = 0	02021 cui	n				
	Materials:						
	Cement:						
	For 1:5:10= 0.045 q						
	For Bricwork 1:4 =0.074 q						
	For plaster 1:3= 0.066 q						
	For 1:2:4 concrete = 0.064 q Total= 0.249q say, 0.25 q						
03001	Cement:		0.025	₹ 5,80	0.00	₹	145.00
04004	40 mm stone agg.	um	0.032	₹ 4,69	2.00	₹	150.14
04006	20 mm stone agg.	um	0.0189	₹ 4,87	5.00	₹	92.14
02003	Fine sand	um	0.062	₹ 56	0.00	₹	34.72

	For 1:5:10= 0.016 cum For Bricwork 1:4 =0.026 cum For plaster 1:3= 0.011 cum For 1:2:4 concrete = 0.009 cum	Total= 0.062 cum						
06002	2nd class Bricks		1000 Nos	36	₹	10,480.00	₹	377.28
19002	Surface box with hinged cover		No	1	₹		₹	130.00
10002	Carriage:		140	•	`	100.00	`	100.00
0421	Cement		t	0.025	₹	102.47	₹	2.56
0406	Bricks		1000 nos	36	₹	307.42		11.07
0404	40 mm stone agg.		cum	0.032	₹	159.56	₹	5.11
0405	20 mm stone agg.		cum	0.032	₹			2.79
0425	Fine sand		cum	0.062	₹			8.17
0.120	Labour:		oum	0.002	`	101.70	`	0.17
	For Excavation:							
0203	Belder		Day	0.15	₹	310.00	₹	46.50
0203	Helper		Day	0.15	₹		₹	46.50
0212	For remaining work:		Day	0.10	`	010.00	`	40.00
0219	Mason 1st class		Day	0.35	₹	440.00	₹	154.00
0203	Belder		Day	0.40	₹	310.00	₹	124.00
0212	Helper		Day	0.35	₹	310.00	₹	108.50
0205	Waterman		Day	0.20	₹	310.00	₹	62.00
TOTAL			,	0.20	•	0.0.00	₹	1,500.47
	Add for carriage of surface box ar	nd re-carriage of materials	_					
	from dumping spot to the site of the		@	3.0 %			₹	45.01
	TOTAL						₹	1,545.49
	Add for Form work i.e pre-cast mo	ould for top slab	@	2.0 %			₹	30.91
	TOTAL	and for top olds	O	2.0 70			₹	1,576.40
	Add for Sundries and contingencie	20	@	3.0%			₹	47.29
	TOTAL	=5	•	3.076			₹	1,623.69
	· • · · · · ·		@	1.0 %			₹	16.24
	Add for water charges & electricity	/	w	1.0 %				_
	TOTAL						₹	1,639.93
	Add GST (multiplying factor)			0.1405			₹	230.41
	TOTAL						₹	1,870.34
	Add 15% for contractor's profit and	d overheads	@	15%			₹	280.55
	TOTAL						₹	2,150.89
	Add cess		@	1%			₹	21.51
	Cost for one chamber						₹	2,172.40
							₹	2,172.40

19.33

Constructing masonry Chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 fine sand) for sluice valve, with C.I. surface box 100mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement: 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design:

19.33.1	With Second class bricks				
Code	Description	Unit	Quantity	Rate	Amount
	Initial procedure to be adopted to analyse the item:				
	Quantities for one stop cock chamber as per prescribed in the item				
1	Earthwork: 1x 1.21 x 1.21 x 1.00= 1.4641 cum				
2	1:5:10 concrete in foundation: 1x 1.21 x 1.21 x 0.10= 0.1464 cum				
3	Brickwork 2nd class in C.M 1:4: 2X1.06X0.23 X0.75 = 0.3657 cum				
	2x0.60x 0.23 x0.750=0.207 cum Total = 0.5727 cum				
4	12 mm cement plaster 1:3 with a floating coat of neat cement:				
	Bottom: 1x0.60x0.60= 0.36 sqm				

Sides: 4x0.60x0.750=1.80 sqm Total= 2.16 sqm.

5 R.C.C: 1:2:4=1x 1.06 x 1.06 x 0.15=0.1685 cum

Less suface area box:3.14X0.156X0.156/4X0.18 = (-) 0.0034 cum = 0.1651 cum

6 Steel reinforcement: $80.00 \text{ kg/cum} = 0.1651 \times 80 = 13.20 \text{ kg or} = 0.132 \text{ q.}$

Materials:

Cement:

For 1:5:10= 0.1903 q

	For Bricwork 1:4 =0.5441 q For plaster 1:3= 0.206 q						
	For 1:2:4 concrete = 0.5283 q Total= 1.47q						
03001	Cement:	t	0.147	₹	•		852.60
04004	40 mm stone agg. (1:5:10)	cum	0.135	₹	•		633.42
04006	20 mm stone agg. (1:2:4)	cum	0.1552	₹	•		756.60
02003	Fine sand	cum	0.3315	₹	560.00	₹	185.64
	For 1:5:10= 0.0675 cum						
	For Bricwork 1:4 = 0.1532 cum						
	For plaster 1:3= 0.0333 cum For RCC 1:2:4 = 0.0775 cum Total= 0.3315 cum						
06002	For RCC 1:2:4 = 0.0775 cum	1000 Nos	229	∓	10,480.00	=	2,399.92
19003	Surface box with hinged cover	No	1	₹	-		2,399.92
05062	Steel for reinforcement	NO	1	`	213.00	`	213.00
00002	13.20 kg + wastage =0.80 kg= Total= 14.00 kg	q	0.140	₹	4,600.00	₹	644.00
	Carriage:	٦			1,000.00		
0421	Cement	t	0.137	₹	102.47	₹	14.04
0406	Bricks	1000 nos	229	₹	307.42	₹	70.40
0404	40 mm stone agg.	cum	0.135	₹	159.56	₹	21.54
0405	20 mm stone agg.	cum	0.1552	₹			22.90
0425	Fine sand	cum	0.336	₹			44.27
0468	Steel for reinforcement	t	0.014	₹	102.47	₹	1.43
	Labour:						
0000	For Excavation:		0.00	=	040.00	-	400.00
0203	Belder	Day	0.60	₹			186.00
0212	Helper For remaining work:	Day	0.70	Υ.	310.00	•	217.00
0215	Fitter (gr. I)	Day	0.15	₹	440.00	₹	66.00
0219	Mason	Day	0.12	₹			52.80
0203	Belder	Day	1.00	₹			310.00
0212	Helper	Day	0.12	₹	310.00	₹	37.20
0212	Coolie	Day	0.50	₹	310.00	₹	155.00
0205	Waterman	Day	0.25	₹	310.00		77.50
TOTAL						₹	6,963.26
	Add for carriage of surface box and re-carriage of materials from dumping spot to the site of the work etc.	@	6.0 %			₹	417.80
	TOTAL					₹	7,381.06
	Add for Form work i.e pre-cast mould for top slab	@	3.0 %			₹	221.43
	TOTAL					₹	7,602.49
	Add for Binding wire, mould oil, bolts & nuts etc.	@	0.50 %			₹	38.01
	TOTAL					₹	7,640.50
	Add for Sundries and contingencies	@	3.0%			₹	229.22
	TOTAL	_				₹	7,869.72
	Add for water charges & electricity TOTAL	@	1.5 %			₹	118.05 7,987.76
	Add GST (multiplying factor)		0.1405			₹	1,122.28
	TOTAL					₹	9,110.05
	Add 15% for contractor's profit and overheads	@	15%			₹	1,366.51
	TOTAL					₹	10,476.55
	Add cess	@	1%			₹	104.77
	Cost for one chamber					₹	10,581.32
						₹	10,581.30
19.34:	(1 cement : 4 fine sand) for sluice valve, with C.I. s	urface box	100 mm. to	a	diameter.	160	mm bottom

19.34: (1 cement : 4 fine sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :

19.34.1: With Second class bricks

Code Description Unit Quantity Rate Amount

Initial procedure to be adopted to analyse the item:

Quantities for one stop cock chamber as per prescribed in the item

1 Earthwork: 1x 1.51 x 1.51 x 1.25=**2.85 cum**

2 1:5:10 concrete in foundation: 1x 1.51 x 1.51 x 0.10= 0.228 cum

3 Brickwork 2nd class in C.M 1:4: 2X 1.36X0.23 X 1.0 = **0.6256 cum**

2x0.90x 0.23 x 1.0=0.414 cum Total = **1.039 cum**

12 mm cement plaster 1:3 with a floating coat of neat cement: 4

Bottom: 1x0.90x0.90= 0.81 sqm

Sides: 4x0.90x 1.0 = 3.60 sqm Total= **4.41 sqm.**

5 R.C.C: 1:2:4=1x 1.36 x 1.36 x 0.15=0.2774 cum

Less suface area box:3.14X0.156X0.156/4X0.18= (-) 0.0034 cum = **0.274 cum**

Steel reinforcement: 80.00 kg/cum=0.274 x 80=21.92 kg or = 0.2192 q.

Materials:

Cement:

For 1:5:10= 0.2964 q

	For Bricwork 1:4 =0.987 q						
	For plaster 1:3= 0.4837 q						
	For RCC 1:2:4 = 0.877 q say, Total= 2.644 q						
03001	Cement:	t	0.2644	₹	5,800.00	₹	1,533.52
04004	40 mm stone agg. (1:5:10)	cum	0.210	₹	4,692.00		985.32
04006	20 mm stone agg. (1:2:4)	cum	0.258	₹	4,875.00		1,257.75
02003	Fine sand	cum	.5792	₹	560.00		324.35
02000	For 1:5:10= 0.1083 cum	Carr	.0702	`	000.00	•	02 1.00
	For Bricwork 1:4 =0.2779 cum						
	For plaster 1:3= 0.064 cum						
	For 1:2:4 concrete = 0.129 cum Total= 0.5792 cum						
06002	2nd class Bricks	1000 Nos	415	₹	10,480.00	₹	4,349.20
19003	C.I Surface box with chained lid	No	1	₹	215.00		215.00
05062	Steel for reinforcement	140	•	`	210.00	`	213.00
00002	21.92 kg + wastage =1.08 kg= Total= 23.00 kg	q	0.23	₹	4,600.00	₹	1,058.00
	Carriage:	ч	0.20	`	1,000.00	•	1,000.00
0421	Cement	t	0.25	₹	102.47	₹	25.62
0406	Bricks	1000 nos	415	₹		₹	127.58
0404	40 mm stone agg.	cum	0.210	₹		₹	33.51
0405	20 mm stone agg.	cum	0.258	₹	147.57		38.07
0425	Fine sand	cum	.5792	₹	131.75	₹	76.31
0468	Steel for reinforcement	t	0.023	₹	102.47		2.36
0.00	Labour:	•	0.020	`	102.11	`	2.00
	For Excavation:						
0203	Belder	Day	1.50	₹	310.00	₹	465.00
0212	Helper	Day	1.50	₹	310.00		465.00
02.2	For remaining work:	Day	1.00	`	010.00	•	100.00
0216	Foreman	Day	0.20	₹	440.00	₹	88.00
0215	Fitter (gr. I)	Day	0.13	₹	440.00	₹	55.00
0219	Mason	Day	0.60	₹	440.00	₹	264.00
0203	Belder	Day	1.250	₹	310.00		387.50
0212	Helper	Day	0.125	₹	310.00	₹	38.75
0212	Coolie	Day	0.60	₹	310.00	₹	186.00
0205	Waterman	Day	0.30	₹	310.00	₹	93.00
TOTAL						₹	12,068.84
	Add for carriage of surface box and re-carriage of materials	@	5.0 %			₹	603.44
	from dumping spot to the site of the work etc.	w	5.0 %			•	003.44
	TOTAL					₹	12,672.28
	Add for Form work is any cost recycle for ton clab	@	4.0.0/			=	400.70
	Add for Form work i.e pre-cast mould for top slab	@	1.0 %			₹	126.72
	TOTAL					₹	12,799.00
	Add for Binding wire, mould oil, bolts & nuts etc.	@	1.0 %			₹	127.99
	TOTAL					₹	12,926.99
		@	3.0%			₹	387.81
	Add for Sundries and contingencies TOTAL	•	3.070			₹	13,314.80
		@	1.5 %			₹	199.72
	Add for water charges & electricity	w	1.5 %				
	TOTAL		0.4.05			₹	13,514.52
	Add GST (multiplying factor)		0.1405			₹	1,898.79
	TOTAL	@	4.50/			₹	15,413.31
	Add 15% for contractor's profit and overheads	@	15%			₹	2,312.00
	TOTAL					₹	17,725.31
	Add cess	@	1%			₹	177.25
	Cost for one chamber					₹	17,902.56
						₹	17,902.60

19.35: Constructing masonry Chamber 120x120x100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 fine sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :

19.35.1:	With Second class bricks								
Code	Description	Unit	Quantity		Rate		Amount		
	Initial procedure to be adopted to analyse the item:								
	Quantities for one stop cock chamber as per prescribed in the it	em							
1	Earthwork: 1x 1.81 x 1.81 x 1.25= 4.095 cum								
2	1:5:10 concrete in foundation: 1x 1.81 x 1.81 x 0.10= 0.3276 cu	m							
3	Brickwork 2nd class in C.M 1:4: 2X 1.66X0.23 X 1.00 = 0.7635	cum							
	2x 1.20x 0.23 x 1.0=0.552 cum Total = 1.3156 cum								
4	12 mm cement plaster 1:3 with a floating coat of neat cement:								
	Bottom: 1x 1.20x 1.20 = 1.44 sqm								
	Sides: 4x 1.20 x 1.0 = 4.80 sqm Total= 6.24 sqm.								
5	R.C.C: 1:2:4=1x 1.66 x 1.66 x 0.15=0.4133 cum								
	Less suface area box: 3.14X0.156X0.156/4X0.18= (-) 0.0034 cu		cum						
6	Steel reinforcement: 80.00 kg/cum=0.4099 x 80=32.792 kg or = 0.32792 q.								
	Materials:								
	Cement:								
	For 1:5:10= 0.4259 q								
	For Bricwork 1:4 =1.24981 q								
	For plaster 1:3= 0.5952 q								
	For RCC 1:2:4 = 1.3116 q say, Total=3.5825 q		.==	-	= 000 00	~			
03001	Cement:	t	.35825	₹	5,800.00		2,077.85		
04004	40 mm stone agg. (1:5:10)	cum	0.301	₹	4,692.00		1,412.29		
04006	20 mm stone agg. (1:2:4)	cum	0.385	₹	4,875.00		1,876.88		
02003	Fine sand	cum	.72287	₹	560.00	₹	404.81		
	For 1:5:10= 0.1556 cum								
	For Bricwork 1:4 =0.3519 cum								
	For plaster 1:3= 0.0961 cum For 1:2:4 concrete = 0.11927 cum Total= 0.72287 cum								
06002		1000 Nos	520	₹	10,480.00	₹	5,449.60		
	C.I Surface box with chained lid	No	1	₹	215.00		215.00		
05062	Steel for reinforcement	INO	1	`	213.00	`	213.00		
03002	32.792 kg + wastage =1.708 kg= Total= 34.50 kg	q	0.345	₹	4,600.00	₹	1,587.00		
	Carriage:	٦	0.0.0	•	1,000.00	•	.,007.00		
0421	Cement	t	.35825	₹	102.47	₹	36.71		
0406	Bricks	1000 nos	520	₹	307.42		159.86		
0404	40 mm stone agg.	cum	0.301	₹	159.56	₹	48.03		
0405	20 mm stone agg.	cum	0.385	₹	147.57	₹	56.81		
0425	Fine sand	cum	.72287	₹	131.75	₹	95.24		
0468	Steel for reinforcement	t	0.345	₹	102.47	₹	35.35		
	Labour:								
	For Excavation:								
0203	Belder	Day	2.15	₹	310.00		666.50		
0212	Helper	Day	2.15	₹	310.00	₹	666.50		
0040	For remaining work:	D	0.05	=	440.00	=	440.00		
0216	Foreman	Day	0.25	₹	440.00		110.00		
0215 0219	Fitter (gr. I) Mason	Day Day	0.15 0.75	₹	440.00 440.00	₹	66.00 330.00		
0213	Belder	Day	1.00	₹	310.00		310.00		
0212	Helper	Day	0.20	₹	310.00		62.00		
0212	Coolie	Day	0.75	₹	310.00	₹	232.50		
0205	Waterman	Day	0.35	₹	310.00		108.50		
TOTAL		-							
	Add for coming of conferr bound or coming of materials					₹	16,007.42		
	Add for carriage of surface box and re-carriage of materials	@	6.0 %			₹	960.45		
	from dumping spot to the site of the work etc.					=	16 067 07		
	TOTAL	_				₹	16,967.87		
	Add for Form work i.e pre-cast mould for top slab	@	0.50 %			₹	84.84		
	TOTAL					₹	17,052.71		

Add for Binding wire, mould oil, bolts & nuts etc.	@	0.60 %	₹	102.32
TOTAL			₹	17,155.03
Add for Sundries and contingencies TOTAL	@	3.0%	₹ ₹	514.65 17,669.68
Add for water charges & electricity TOTAL	@	1.5 %	₹	265.05 17,934.72
Add GST (multiplying factor) TOTAL		0.1405	₹ ₹	2,519.83 20,454.55
Add 15% for contractor's profit and overheads TOTAL	@	15%	₹	3,068.18 23,522.73
Add cess	@	1%	₹	235.23
Cost for one chamber			₹	23,757.96 23,758.00

19.36:

Constructing masonry Chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 fine sand) for fire hydrants, with C.I. surface box 350x350 mm. top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :

19.36.1: Code	With Second class bricks Description	Unit	Quantity		Rate		Amount		
	Initial procedure to be adopted to analyse the item:								
_	Quantities for one stop cock chamber as per prescribed in the ite	m							
1	Earthwork: 1x 1.21 x 1.21 x 1.00= 1.4641 cum								
2	1:5:10 concrete in foundation: 1x 1.21 x 1.21 x 0.10= 0.1464 cun								
3	Brickwork 2nd class in C.M 1:4: 2X 1.06X0.23 X 0.75 = 0.3657 cl	um							
	2x 0.60 x 0.23 x 0.75 =0.207 cum Total = 0.5727 cum								
4	12 mm cement plaster 1:3 with a floating coat of neat cement:								
	Bottom: 1x 0.60 x 0.60 = 0.36 sqm								
_	Sides: 4x 0.60 x 0.75 = 1.80 sqm Total= 2.16 sqm .								
5	R.C.C: 1:2:4 =1x 1.06 x 1.06 x 0.15=0.1685 cum								
•	Less suface area box: 0.61 x 0.41 x 0.165 = (-) 0.04126 cum = 0 .								
6	Steel reinforcement: 80.00 kg/cum=0.12724 x 80=10.18 kg or = ().1018 q.							
	Materials:								
	Cement:								
	For 1:5:10= 0.1903 q								
	For Bricwork 1:4 =0.5441 q								
	For plaster 1:3= 0.206 q For RCC 1:2:4 = 0.4064 q say, Total=1.3468 q								
03001	Cement:	t	.13468	₹	5,800.00	₹	781.14		
04004	40 mm stone agg. (1:5:10)	cum	0.135	₹	•		633.42		
04004	20 mm stone agg. (1:2:4)	cum	0.133	₹		₹	599.63		
02003	Fine sand	cum	.31559	₹			176.73		
02003	For 1:5:10= 0.0695 cum	Cum	.51559	`	300.00	`	170.75		
	For Bricwork 1:4 =0.1532 cum								
	For plaster 1:3= 0.0332 cum								
	For 1:2:4 concrete = 0.05969 cum Total= 0.31559 cum								
06002	2nd class Bricks	1000 Nos	229	₹	10,480.00	₹	2,399.92		
	C.I Surface box with chained lid	No	1	₹	215.00		215.00		
05062	Steel for reinforcement	. 10	•	•	210.00	•	210.00		
	10.18 kg + wastage =0.82 kg= Total= 11.00 kg=0.11 q	q	0.11	₹	4,600.00	₹	506.00		
	Carriage:	•			•				
0421	Cement	t	.13468	₹	102.47	₹	13.80		
0406	Bricks	1000 nos	229	₹	307.42	₹	70.40		
0404	40 mm stone agg.	cum	0.135	₹	159.56	₹	21.54		
0405	20 mm stone agg.	cum	0.123	₹	147.57	₹	18.15		
0425	Fine sand	cum	.31559	₹		₹	41.58		
0468	Steel for reinforcement	t	0.11	₹	102.47	₹	11.27		
	Labour:								
	For Excavation:								
0203	Belder	Day	0.80	₹		₹	248.00		
0212	Helper	Day	0.80	₹	310.00	₹	248.00		
	For remaining work:								

0216 0215 0219 0203 0212 0205 TOTAL	Foreman Fitter (gr. I) Mason Belder Helper Waterman	Day Day Day Day Day Day	0.130 0.125 0.500 1.000 0.500 0.250	₹₹₹₹	440.00 440.00 440.00 310.00 310.00 310.00	₹ ₹ ₹ ₹ ₹	57.20 55.00 220.00 310.00 155.00 77.50
	Add for carriage of surface box and re-carriage of materials from dumping spot to the site of the work etc.	@	6.0 %			₹	6,859.28 411.56
	TOTAL					₹	7,270.84
	Add for Form work i.e pre-cast mould for top slab	@	1.20 %			₹	87.25
	TOTAL					₹	7,358.09
	Add for Binding wire, mould oil, bolts & nuts etc.	@	0.75 %			₹	55.19
	TOTAL					₹	7,413.27
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	222.40 7,635.67
	Add for water charges & electricity	@	1.5 %			₹	114.54
	TOTAL Add GST (multiplying factor) TOTAL Add 15% for contractor's profit and overheads TOTAL	@	0.1405 15%			₹ ₹ ₹	7,750.21 1,088.90 8,839.11 1,325.87 10,164.98
	Add cess	@	1%			₹	101.65
	Cost for one chamber					₹ ₹	10,266.63 10,266.60

Constructing masonry Chamber 60x45x50 cm, inside with 75 class designation brick work in cement mortar 1:4(1 cement :4 fine sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded

stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :

19.37.1:	With	Second	class	hricks
13.37.1.	VVILII	Second	CIASS	DIICKS

For Bricwork 1:4 =0.0929cum For plaster 1:3= 0.020 cum

For 1:2:4 concrete = 0.105 cum = 0.28 cum, say **Total= 0.30 cum**

19.37

Code	Description	Unit	Quantity	Rate		Amount
Code	Description	Oilit	Quantity	Nate		Amount
	Initial procedure to be adopted to analyse the item:					
	Quantities for one stop cock chamber as per prescribed in the iter	m				
1	Earthwork: $1 \times 1.21 \times 1.06 \times 0.85 = 1.09 \text{ cum}$					
2	1:5:10 concrete in foundation: 1x 1.21 x 1.06 x 0.10= 0.128 cum					
3	Brickwork 2nd class in C.M 1:4: 2X 1.06X0.23 X 0.50 = 0.2438 cu	ım				
3	2x 0.45 x 0.23 x 0.50 = 0.1035 cum Total = 0.3473cum	••••				
4	12 mm cement plaster 1:3 with a floating coat of neat cement:					
	Bottom: $1 \times 0.60 \times 0.45 = 0.27 \text{ sgm}$					
	Sides: 2x 0.60 x 0.50 = 0.60 sqm & 2x 0.45 x 0.50 = 0.45 sqm					
	Total= 1.32 sqm.					
5	R.C.C: 1:2:4 =1x 1.06 x 0.91 x 0.25=0.2411 cum					
	Less suface area box: $1 \times 0.42 \times 0.22 \times 0.20 = (-) 0.0185 \text{ cum} = 0$.2226 cum				
6	Steel reinforcement: 80.00 kg/cum=0.2226 x 80=17.81 kg or = 0.1	1781 q.				
	Materials:					
	Cement:					
	For 1:5:10= 0.1664 q					
	For Bricwork 1:4 =0.3299 g					
	For plaster 1:3= 0.1259 g					
	For RCC 1:2:4 = 0.7123 q , = 1.3345					
03001	Cement:	t	.13345 ₹	5,800.00	₹	774.01
04004	40 mm stone agg. (1:5:10)	cum	0.118 ₹	4,692.00	₹	553.66
04006	20 mm stone agg. (1:2:4)	cum	0.209 ₹	4,875.00	₹	1,018.88
02003	Fine sand	cum	0.30 ₹	560.00	₹	168.00
	For 1:5:10= 0.060 cum					

06002	2nd class Bricks	1000 Nos	132 1	₹	10,480.00 215.00		1,383.36
19004 05062	C.I Surface box with locking arrangement Steel for reinforcement	No	ı	•	215.00	ζ.	215.00
03002	17.81 kg + wastage =0.69 kg= Total= 18.50 kg= 0.185 q Carriage:	q	0.185	₹	4,600.00	₹	851.00
0421	Cement	t	.13345	₹	102.47	₹	13.67
0406	Bricks	1000 nos	132	₹	307.42		40.58
0404	40 mm stone agg.	cum	0.118	₹	159.56	₹	18.83
0405	20 mm stone agg.	cum	0.209	₹	147.57	₹	30.84
0425	Fine sand	cum	0.30	₹	131.75	₹	39.53
0468	Steel for reinforcement	t	0.185	₹	102.47	₹	18.96
	Labour:						
	For Excavation:						
0203	Belder	Day	0.70	₹	310.00	₹	217.00
0212	Helper	Day	0.70	₹	310.00	₹	217.00
	For remaining work:						
0216	Foreman	Day	0.075	₹	440.00	₹	33.00
0215	Fitter (gr. I)	Day	0.100	₹	440.00	₹	44.00
0219	Mason	Day	0.400	₹	440.00	₹	176.00
0203	Belder	Day	0.750	₹	310.00	₹	232.50
0212	Helper	Day	0.400	₹	310.00	₹	124.00
0205	Waterman	Day	0.200	₹	310.00	₹	62.00
TOTAL						₹	6,231.81
	Add for carriage of surface box and re-carriage of materials from dumping spot to the site of the work etc.	@	5.0 %			₹	311.59
	TOTAL					₹	6,543.40
	Add for Form work i.e pre-cast mould for top slab	@	1.0 %			₹	65.43
	TOTAL					₹	6,608.83
	Add for Binding wire, mould oil, bolts & nuts etc.	@	0.50 %			₹	33.04
	TOTAL					₹	6,641.88
	Add for Sundries and contingencies	@	3.0%			₹	199.26
	TOTAL					₹	6,841.13
	Add for water charges & electricity	@	1.5 %			₹	102.62
	TOTAL					₹	6,943.75
	Add GST (multiplying factor)		0.1405			₹	975.60
	TOTAL					₹	7,919.35
	Add 15% for contractor's profit and overheads	@	15%			₹	1,187.90
	TOTAL					₹	9,107.25
	Add cess	@	1%			₹	91.07
	Cost for one chamber					₹	9,198.32
						₹	9,198.30
						•	5,.30.00

19.38: Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :

19.38.1: Code	15 mm diameter pipe— Description	Unit	Quantity		Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr.						
	length.						
	Perimeter = 15 mm dia = 0.0673 metre						
	Area for 10.00 mtr. = 10×0.0673 rn = 0.673 sqm.						
	Materials:						
12037	Ready mix primer	Litre	0.065	₹	82.00	₹	5.33
12040	Synthetic enamel white paint	Litre	0.0685	₹	170.00	₹	11.65
	Labour:						
0216	Foreman	Day	0.035	₹	440.00	₹	15.40
0227	Painter	Day	0.05	₹	395.00	₹	19.75
0212	Helper	Day	0.05	₹	310.00	₹	15.50
	TOTAL					₹	67.63
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	0.68
	TOTAL					₹	68.30

Add for Sundries and contingencies	@	3.0%	₹	2.05
TOTAL			₹	70.35
Add for water charges	@	1%	₹	0.70
TOTAL			₹	71.05
Add GST (multiplying factor)		0.1405	₹	9.98
			₹	81.03
Add for contractor's profit and overheads	@	15%	₹	12.15
			₹	93.18
Add cess	@	1%	₹	0.93
Cost for 10 mtr. length			₹	94.11
Cost per mtr.			₹	9.41
Say			₹	9.40

19.38: Painting G.I. pipes and fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality for new work :

19.38.2 Code	20 mm diameter pipe. — Description	Unit	Quantity		Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr.						
	Perimeter = 20 mm dia = 0.0845 metre Area for 10.00 mtr. =10 x 0.0845 rn = 0.845 sqm.						
	Materials:						
12037	Ready mix primer	Litre	0.0760	₹	82.00		6.23
12040	Synthetic enamel white paint Labour:	Litre	0.0845	₹	170.00	₹	14.37
0216	Foreman	Day	0.040	₹	440.00	₹	17.60
0227	Painter	Day	0.055	₹	395.00	₹	21.73
0212	Helper	Day	0.055	₹	310.00	₹	17.05
	TOTAL					₹	76.97
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	0.77
	TOTAL					₹	77.74
	Add for Sundries and contingencies	@	3.0%			₹	2.33
	TOTAL					₹	80.07
	Add for water charges	@	1%			₹	0.80
	TOTAL					₹	80.87
	Add GST (multiplying factor)		0.1405			₹	11.36
						₹	92.23
	Add for contractor's profit and overheads	@	15%			₹	13.84
						₹	106.07
	Add cess	@	1%			₹	1.06
	Cost for 10 mtr. length					₹	107.13
	Cost per mtr.					₹	10.71
	Say					₹	10.70

19.38: Painting G.I. pipes and fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality for new work :

19.38.3 Code	25 mm diameter pipe Description	Unit	Quantity		Rate		Amount
Ope	erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Perimeter = 25 mm dia = 0.1061 metre						
	Area for 10.00 mtr. =10 x 0.1061 rn = 1.061 sqm.						
	Materials:						
12037	Ready mix primer	Litre	0.0955	₹	82.00	₹	7.83
12040	Synthetic enamel white paint	Litre	0.1060	₹	170.00	₹	18.02
	Labour:						
0216	Foreman	Day	0.045	₹	440.00	₹	19.80
0227	Painter	Day	0.080	₹	395.00	₹	31.60
0212	Helper	Day	0.080	₹	310.00	₹	24.80

TOTAL			₹	102.05
Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%	₹	1.02
TOTAL			₹	103.07
Add for Sundries and contingencies	@	3.0%	₹	3.09
TOTAL			₹	106.16
Add for water charges	@	1%	₹	1.06
TOTAL			₹	107.22
Add GST (multiplying factor)		0.1405	₹	15.06
			₹	122.28
Add for contractor's profit and overheads	@	15%	₹	18.34
			₹	140.62
Add cess	@	1%	₹	1.41
Cost for 10 mtr. length			₹	142.03
Cost per mtr.			₹	14.20
Say			₹	14.20

19.38:

Painting G.I. pipes and fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality for new work :

19.38.4	32 mm diameter pipe. —						
Code	Description	Unit	Quantity		Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr. length. Perimeter = 32 mm dia = 0.1334 metre Area for 10.00 mtr. =10 x 0.1334 rn = 1.334 sqm.						
	Materials:						
12037	Ready mix primer	Litre	0.0955	₹	82.00	₹	7.83
12040	Synthetic enamel white paint	Litre	0.1340	₹	170.00	₹	22.78
	Labour:						
0216	Foreman	Day	0.060	₹	440.00	₹	26.40
0227	Painter	Day	0.095	₹	395.00	₹	37.53
0212	Helper	Day	0.095	₹	310.00	₹	29.45
	TOTAL					₹	123.99
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	1.24
	TOTAL					₹	125.23
	Add for Sundries and contingencies	@	3.0%			₹	3.76
	TOTAL					₹	128.98
	Add for water charges	@	1%			₹	1.29
	TOTAL					₹	130.27
	Add GST (multiplying factor)		0.1405			₹	18.30
						₹	148.57
	Add for contractor's profit and overheads	@	15%			₹	22.29
						₹	170.86
	Add cess	@	1%			₹	1.71
	Cost for 10 mtr. length					₹	172.57
	Cost per mtr.					₹	17.26
	Say					₹	17.30

19.38: Painting G.I. pipes and fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality for new work :

19.38.5	40 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr. length. Perimeter = 40 mm dia = 0.1520 metre						
	Area for 10.00 mtr. =10 x 0.1520 rn = 1.520 sqm.						
	Materials:						
12037	Ready mix primer	Litre	0.1370	₹	82.00	₹	11.23
12040	Synthetic enamel white paint	Litre	0.1520	₹	170.00	₹	25.84
	Labour:						

0216 Foreman 0227 Painter 0212 Helper TOTAL	Day Day Day	0.070 0.120 0.120	₹ ₹	395.00	₹ ₹ ₹	30.80 47.40 37.20 152.47
Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	1.52
TOTAL					₹	154.00
Add for Sundries and contingencies	@	3.0%			₹	4.62
TOTAL					₹	158.62
Add for water charges	@	1%			₹	1.59
TOTAL					₹	160.21
Add GST (multiplying factor)		0.1405			₹	22.51
					₹	182.72
Add for contractor's profit and overheads	@	15%			₹	27.41
					₹	210.13
Add cess	@	1%			₹	2.10
Cost for 10 mtr. length					₹	212.23
Cost per mtr.					₹	21.22
Say					₹	21.20

19.38:

Painting G.I. pipes and fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality for new work :

19.38.6	50 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Perimeter = 50 mm dia = 0.1894 metre Area for 10.00 mtr. =10 x 0.1894 rn = 1.894sqm.						
	Materials:			_		_	
12037	Ready mix primer	Litre	0.1700	₹	82.00		13.94
12040	Synthetic enamel white paint	Litre	0.1894	₹	170.00	₹	32.20
	Labour:	_		_		_	
0216	Foreman	Day	0.080	₹	440.00	₹	35.20
0227	Painter	Day	0.125	₹	395.00	₹	49.38
0212	Helper	Day	0.125	₹	310.00	₹	38.75
	TOTAL					₹	169.46
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	1.69
	TOTAL					₹	171.16
	Add for Sundries and contingencies	@	3.0%			₹	5.13
	TOTAL					₹	176.29
	Add for water charges	@	1%			₹	1.76
	TOTAL					₹	178.05
	Add GST (multiplying factor)		0.1405			₹	25.02
	,					₹	203.07
	Add for contractor's profit and overheads	@	15%			₹	30.46
	·					₹	233.53
	Add cess	@	1%			₹	2.34
	Cost for 10 mtr. length					₹	235.87
	Cost per mtr.					₹	23.59
	Say					₹	23.60

19.39: Repainting G.I. pipes and fittings with synthetic enamel white paint of approved quality:

19.39.1: Code	15 mm diameter pipe. Description	Unit	Quantity		Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Materials:						
12040	Synthetic enamel white paint	Litre	0.040	₹	170.00	₹	6.80

		Labour:						
0	216	Foreman	Day	0.030	₹	440.00	₹	13.20
0	227	Painter	Day	0.030	₹	395.00	₹	11.85
0	212	Helper	Day	0.030	₹	310.00	₹	9.30
		TOTAL					₹	41.15
		Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	0.41
		TOTAL					₹	41.56
		Add for Sundries and contingencies	@	3.0%			₹	1.25
		TOTAL					₹	42.81
		Add for water charges	@	1%			₹	0.43
		TOTAL					₹	43.24
		Add GST (multiplying factor)		0.1405			₹	6.07
							₹	49.31
		Add for contractor's profit and overheads	@	15%			₹	7.40
							₹	56.71
		Add cess	@	1%			₹	0.57
		Cost for 10 mtr. length					₹	57.28
		Cost per mtr.					₹	5.73
		Say					₹	5.70

19.39: Repainting G.I. pipes and fittings with synthetic enamel white paint of approved quality :

19.39.2 20 mm diamet	er pipe.
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Code	Description	Unit	Quantity		Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Materials:						
12040	Synthetic enamel white paint	Litre	0.050	₹	170.00	₹	8.50
	Labour:						
0216	Foreman	Day	0.030	₹		₹	13.20
0227	Painter	Day	0.035	₹	395.00	₹	13.83
0212	Helper	Day	0.035	₹	310.00	₹	10.85
	TOTAL					₹	46.38
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	0.46
	TOTAL					₹	46.84
	Add for Sundries and contingencies	@	3.0%			₹	1.41
	TOTAL		0.070			₹	48.24
	Add for water charges	@	1%			₹	0.48
	TOTAL					₹	48.72
	Add GST (multiplying factor)		0.1405			₹	6.85
						₹	55.57
	Add for contractor's profit and overheads	@	15%			₹	8.34
						₹	63.91
	Add cess	@	1%			₹	0.64
	Cost for 10 mtr. length					₹	64.55
	Cost per mtr.					₹	6.46
	Say					₹	6.50

19.39: Repainting G.I. pipes and fittings with synthetic enamel white paint of approved quality:

19.39.3 25 mm diameter pipe.

Code	Description	Unit	Quantity	Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr. length.					
	Materials:					
12040	Synthetic enamel white paint	Litre	0.064	₹ 170.00	₹	10.88
	Labour:					
0216	Foreman	Day	0.035	₹ 440.00	₹	15.40
0227	Painter	Day	0.045	₹ 395.00	₹	17.78
0212	Helper	Day	0.045	₹ 310.00	₹	13.95

TOTAL			₹	58.01
Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%	₹	0.58
TOTAL			₹	58.59
Add for Sundries and contingencies	@	3.0%	₹	1.76
TOTAL			₹	60.34
Add for water charges	@	1%	₹	0.60
TOTAL			₹	60.94
Add GST (multiplying factor)		0.1405	₹	8.56
			₹	69.50
Add for contractor's profit and overheads	@	15%	₹	10.43
			₹	79.93
Add cess	@	1%	₹	0.80
Cost for 10 mtr. length			₹	80.73
Cost per mtr.			₹	8.07
Say			₹	8.10

19.39: Repainting G.I. pipes and fittings with synthetic enamel white paint of approved quality:

19.39.4	32 mm diameter pipe.
Code	Description

Code	Description	Unit	Quantity		Rate		Amount
Ope	erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Materials:						
12040	Synthetic enamel white paint	Litre	0.080	₹	170.00	₹	13.60
	Labour:						
0216	Foreman	Day	0.040	₹	440.00	₹	17.60
0227	Painter	Day	0.055	₹	395.00	₹	21.73
0212	Helper	Day	0.055	₹	310.00	₹	17.05
	TOTAL					₹	69.98
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	0.70
	TOTAL					₹	70.67
	Add for Sundries and contingencies	@	3.0%			₹	2.12
	TOTAL		0.070			₹	72.79
	Add for water charges	@	1%			₹	0.73
	TOTAL					₹	73.52
	Add GST (multiplying factor)		0.1405			₹	10.33
						₹	83.85
	Add for contractor's profit and overheads	@	15%			₹	12.58
						₹	96.43
	Add cess	@	1%			₹	0.96
	Cost for 10 mtr. length					₹	97.39
	Cost per mtr.					₹	9.74
	Say					₹	9.70

19.39: Repainting G.I. pipes and fittings with synthetic enamel white paint of approved quality:

19	39 5	40	mm	diameter	nine
13		TU		ulallicici	DIDE.

Code	Description	Unit	Quantity	Rate	Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr.				
	length.				
	Materials:				
12040	Synthetic enamel white paint	Litre	0.090	₹ 170.00	₹ 15.30
	Labour:				
0216	Foreman	Day	0.045	₹ 440.00	₹ 19.80
0227	Painter	Day	0.066	₹ 395.00	₹ 26.07
0212	Helper	Day	0.066	₹ 310.00	₹ 20.46
	TOTAL	_			₹ 81.63
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%		₹ 0.82

TOTAL			₹	82.45
Add for Sundries and contingencies	@	3.0%	₹	2.47
TOTAL			₹	84.92
Add for water charges	@	1%	₹	0.85
TOTAL			₹	85.77
Add GST (multiplying factor)		0.1405	₹	12.05
			₹	97.82
Add for contractor's profit and overheads	@	15%	₹	14.67
			₹	112.49
Add cess	@	1%	₹	1.12
Cost for 10 mtr. length			₹	113.61
Cost per mtr.			₹	11.36
Say			₹	11.40

19.39: Repainting G.I. pipes and fittings with synthetic enamel white paint of approved quality:

19.39.6 50 mm diameter pig

Code	Description	Unit	Quantity		Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Materials:						
12040	Synthetic enamel white paint	Litre	0.110	₹	170.00	₹	18.70
	Labour:						
0216	Foreman	Day	0.052	₹	440.00	₹	22.88
0227	Painter	Day	0.078	₹	395.00	₹	30.81
0212	Helper	Day	0.078	₹	310.00	₹	24.18
	TOTAL					₹	96.57
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	0.97
	TOTAL					₹	97.54
	Add for Sundries and contingencies	@	3.0%			₹	2.93
	TOTAL					₹	100.46
	Add for water charges	@	1%			₹	1.00
	TOTAL					₹	101.46
	Add GST (multiplying factor)		0.1405			₹	14.26
						₹	115.72
	Add for contractor's profit and overheads	@	15%			₹	17.36
						₹	133.08
	Add cess	@	1%			₹	1.33
	Cost for 10 mtr. length					₹	134.41
	Cost per mtr.					₹	13.44
	Say					₹	13.40

19.40.1:	15 mm	diameter	pipe
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Description	Unit	Quantity		Rate		Amount
erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
Materials:						
Anticorrosive Bitumastic paint	Litre	0.0673	₹	110.00	₹	7.40
Labour:						
Foreman	Day	0.030	₹	440.00	₹	13.20
Painter	Day	0.040	₹	395.00	₹	15.80
Helper	Day	0.040	₹	310.00	₹	12.40
TOTAL					₹	48.80
Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	0.49
TOTAL					₹	49.29
Add for Sundries and contingencies	@	3.0%			₹	1.48
TOTAL					₹	50.77
Add for water charges	@	1%			₹	0.51
TOTAL					₹	51.28
	erational input for painting G.I pipes and fittings for 10.00 mtr. length. Materials: Anticorrosive Bitumastic paint Labour: Foreman Painter Helper TOTAL Add for Carriage of materials,Brushes, sand paper etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	erational input for painting G.I pipes and fittings for 10.00 mtr. length. Materials: Anticorrosive Bitumastic paint Litre Labour: Foreman Painter Helper Day Holper TOTAL Add for Carriage of materials, Brushes, sand paper etc. [L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	erational input for painting G.I pipes and fittings for 10.00 mtr. length. Materials: Anticorrosive Bitumastic paint Labour: Foreman Day 0.030 Painter Day 0.040 Helper Day 0.040 TOTAL Add for Carriage of materials,Brushes, sand paper etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges @ 1%	erational input for painting G.I pipes and fittings for 10.00 mtr. length. Materials: Anticorrosive Bitumastic paint Litre 0.0673 ₹ Labour: Foreman Painter Helper TOTAL Add for Carriage of materials,Brushes, sand paper etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges @ 3.0%	erational input for painting G.I pipes and fittings for 10.00 mtr. length. Materials: Anticorrosive Bitumastic paint Litre Day 0.0673 ₹ 110.00 Labour: Foreman Painter Day 0.040 ₹ 395.00 Helper Day 0.040 ₹ 310.00 TOTAL Add for Carriage of materials,Brushes, sand paper etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges @ 3.0%	erational input for painting G.I pipes and fittings for 10.00 mtr. length. Materials: Anticorrosive Bitumastic paint Litre Day 0.0673 ₹ 110.00 ₹ Labour: Foreman Painter Day 0.040 ₹ 395.00 ₹ Helper Day 0.040 ₹ 310.00 ₹ TOTAL Add for Carriage of materials,Brushes, sand paper etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges

Add GST (multiplying factor)		0.1405	₹	7.20
			₹	58.48
Add for contractor's profit and overheads	@	15%	₹	8.77
			₹	67.25
Add cess	@	1%	₹	0.67
Cost for 10 mtr. length			₹	67.92
Cost per mtr.			₹	6.79
Say			₹	6.80

19.40: Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality:

Labour: 0216 Foreman Day 0.030 ₹ 440.00 ₹ 1.	
length. Materials: 12008 Anticorrosive Bitumastic paint Litre 0.0850 ₹ 110.00 ₹ Labour: 0216 Foreman Day 0.030 ₹ 440.00 ₹ 1	t
12008 Anticorrosive Bitumastic paint Litre 0.0850 ₹ 110.00 ₹ Labour: 0216 Foreman Day 0.030 ₹ 440.00 ₹ 1	
Labour: 0216 Foreman Day 0.030 ₹ 440.00 ₹ 1	
0216 Foreman Day 0.030 ₹ 440.00 ₹ 1.	9.35
• • • • • • • • • • • • • • • • • • • •	
0227 Painter Day 0.050 ₹ 395.00 ₹ 1	3.20
	9.75
·	5.50
	7.80
Add for Carriage of materials,Brushes, sand paper etc.[L.S] @ 1%	0.58
TOTAL	8.38
Add for Sundries and contingencies @ 3.0% ₹	1.75
TOTAL ₹ 6	0.13
Add for water charges @ 1% ₹	0.60
TOTAL ₹ 6	0.73
Add GST (multiplying factor) 0.1405 ₹	8.53
₹ 6	9.26
Add for contractor's profit and overheads @ 15% ₹ 1	0.39
₹ 7	9.65
Add cess @ 1% ₹	0.80
Cost for 10 mtr. length ₹ 8	0.45
Cost per mtr. ₹	8.04
Say	8.00

19.40.3	25 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Materials:						
12008	Anticorrosive Bitumastic paint	Litre	0.1060	₹	110.00	₹	11.66
	Labour:						
0216	Foreman	Day	0.035	₹	440.00	₹	15.40
0227	Painter	Day	0.0625	₹	395.00	₹	24.69
0212	Helper	Day	0.0625	₹	310.00	₹	19.38
	TOTAL					₹	71.12
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	0.71
	TOTAL					₹	71.83
	Add for Sundries and contingencies	@	3.0%			₹	2.16
	TOTAL					₹	73.99
	Add for water charges	@	1%			₹	0.74
	TOTAL					₹	74.73
	Add GST (multiplying factor)		0.1405			₹	10.50
						₹	85.23
	Add for contractor's profit and overheads	@	15%			₹	12.78
						₹	98.01
	Add cess	@	1%			₹	0.98

Cost for 10 mtr. length	₹	98.99
Cost per mtr.	₹	9.90
Say	₹	9.90

19.40: Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality:

19.40.4	32 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
Ope	erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Materials:						
12008	Anticorrosive Bitumastic paint	Litre	0.1340	₹	110.00	₹	14.74
	Labour:						
0216	Foreman	Day	0.042	₹	440.00	₹	18.48
0227	Painter	Day	0.080	₹	395.00	₹	31.60
0212	Helper	Day	0.080	₹	310.00	₹	24.80
	TOTAL					₹	89.62
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	0.90
	TOTAL					₹	90.52
	Add for Sundries and contingencies	@	3.0%			₹	2.72
	TOTAL					₹	93.23
	Add for water charges	@	1%			₹	0.93
	TOTAL					₹	94.16
	Add GST (multiplying factor)		0.1405			₹	13.23
						₹	107.39
	Add for contractor's profit and overheads	@	15%			₹	16.11
						₹	123.50
	Add cess	@	1%			₹	1.24
	Cost for 10 mtr. length					₹	124.74
	Cost per mtr.					₹	12.47
	Say					₹	12.50

19.40.5	• •						
Code	Description	Unit	Quantity		Rate		Amount
Ope	erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Materials:						
12008	Anticorrosive Bitumastic paint	Litre	0.1520	₹	110.00	₹	16.72
	Labour:						
0216	Foreman	Day	0.045	₹	440.00	₹	19.80
0227	Painter	Day	0.090	₹	395.00	₹	35.55
0212	Helper	Day	0.090	₹	310.00	₹	27.90
	TOTAL					₹	99.97
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	1.00
	TOTAL					₹	100.97
	Add for Sundries and contingencies	@	3.0%			₹	3.03
	TOTAL		0.070			₹	104.00
	Add for water charges	@	1%			₹	1.04
	TOTAL					₹	105.04
	Add GST (multiplying factor)		0.1405			₹	14.76
						₹	119.80
	Add for contractor's profit and overheads	@	15%			₹	17.97
						₹	137.77
	Add cess	@	1%			₹	1.38
	Cost for 10 mtr. length					₹	139.15
	Cost per mtr.					₹	13.91
	Say					₹	13.90

19.40: Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality:

19.40.6	50 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
Ope	rational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Materials:						
12008	Anticorrosive Bitumastic paint	Litre	0.1000	₹	110.00	₹	11.00
	Labour:						
0216	Foreman	Day	0.060	₹	440.00	₹	26.40
0227	Painter	Day	0.110	₹	395.00	₹	43.45
0212	Helper	Day	0.110	₹	310.00	₹	34.10
	TOTAL					₹	114.95
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	1.15
	TOTAL					₹	116.10
	Add for Sundries and contingencies	@	3.0%			₹	3.48
	TOTAL					₹	119.58
	Add for water charges	@	1%			₹	1.20
	TOTAL					₹	120.78
	Add GST (multiplying factor)		0.1405			₹	16.97
						₹	137.75
	Add for contractor's profit and overheads	@	15%			₹	20.66
						₹	158.41
	Add cess	@	1%			₹	1.58
	Cost for 10 mtr. length					₹	159.99
	Cost per mtr.					₹	16.00
	Say					₹	16.00

19.40: Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality:

19.40.7 Code	65 mm diameter pipe Description	Unit	Quantity		Rate		Amount
	erational input for painting G.I pipes and fittings for 10.00 mtr. length.	Oiiit	Quantity		Nate		Amount
	Materials:						
12008	Anticorrosive Bitumastic paint	Litre	0.2380	₹	110.00	₹	26.18
	Labour:						
0216	Foreman	Day	0.085	₹	440.00	₹	37.40
0227	Painter	Day	0.145	₹	395.00	₹	57.28
0212	Helper	Day	0.145	₹	310.00	₹	44.95
	TOTAL					₹	165.81
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	1.66
	TOTAL					₹	167.46
	Add for Sundries and contingencies	@	3.0%			₹	5.02
	TOTAL					₹	172.49
	Add for water charges	@	1%			₹	1.72
	TOTAL					₹	174.21
	Add GST (multiplying factor)		0.1405			₹	24.48
						₹	198.69
	Add for contractor's profit and overheads	@	15%			₹	29.80
						₹	228.49
	Add cess	@	1%			₹	2.28
	Cost for 10 mtr. length					₹	230.77
	Cost per mtr.					₹	23.08
	Say					₹	23.10

19.40.8	80 mm diameter pipe						
Code	Description	Unit	Quantity		Rate		Amount
Оре	erational input for painting G.I pipes and fittings for 10.00 mtr. length.						
	Materials:						
12008	Anticorrosive Bitumastic paint	Litre	0.2800	₹	110.00	₹	30.80
	Labour:						
0216	Foreman	Day	0.120	₹	440.00	₹	52.80
0227	Painter	Day	0.170	₹	395.00	₹	67.15
0212	Helper	Day	0.170	₹	310.00	₹	52.70
	TOTAL					₹	203.45
	Add for Carriage of materials, Brushes, sand paper etc.[L.S]	@	1%			₹	2.03
	TOTAL					₹	205.48
	Add for Sundries and contingencies	@	3.0%			₹	6.16
	TOTAL					₹	211.65
	Add for water charges	@	1%			₹	2.12
	TOTAL					₹	213.77
	Add GST (multiplying factor)		0.1405			₹	30.03
						₹	243.80
	Add for contractor's profit and overheads	@	15%			₹	36.57
						₹	280.37
	Add cess	@	1%			₹	2.80
	Cost for 10 mtr. length					₹	283.17
	Cost per mtr.					₹	28.32
	Say					₹	28.30

19.41: Providing and filling sand of grading zone IV or fine grade alround the G.I. pipes in external work.

19.41.1: 15 mm diameter pipe

CodeDescriptionUnitQuantityRateAmountOperational input for providing and filling sand alround G.I pipes and

fittings for 10.00 mtr. length.

Calculating quantity of Sand to be filled:

Position and depth of sand filling for 15 mm pipe:

Under the pipe: 75 mm Above the pipe: 150 mm

Max. external dia of pipe: 21.8 mm Total sand depth: 246.80 mm

Width: 300 mm

Qty. of Sand: $1 \times 10 \times 0.30 \times 0.2468 = 0.74$ cum

Less pipe portion: 1x3.14x0.0218x0.0218/4x10=(-) 0.0037 cum = 0.7363 cum

Hence Net Qty. of sand to be filled: 0.7363

Say: 0.74 cum

	Materials:						
02002	Sand for filling	cum	0.740	₹	460.00	₹	340.40
	Carriage:						
0425	Sand	cum	0.740	₹	131.75	₹	97.50
	Labour:						
	for filling						
0216	Foreman	Day	0.050	₹	440.00	₹	22.00
0203	Beldar	Day	0.060	₹	310.00	₹	18.60
0212	Helper	Day	0.060	₹	310.00	₹	18.60
	TOTAL					₹	497.10
	Add for Sundries and contingencies	@	3.0%			₹	14.91
	TOTAL					₹	512.01
	Add for water charges	@	1%			₹	5.12
	TOTAL					₹	517.13
	Add GST (multiplying factor)		0.1405			₹	72.66
						₹	589.79
	Add for contractor's profit and overheads	@	15%			₹	88.47
						₹	678.26
	Add cess	@	1%			₹	6.78

 Cost of providing & filling for 10 mtr. length
 ₹
 685.04

 Cost per mtr.
 ₹
 68.50

 Say
 ₹
 68.50

19.41: Providing and filling sand of grading zone IV or fine grade alround the G.I. pipes in external work.

19.41.2 20 mm diameter pipe

Code Description Unit Quantity Rate Amount

Operational input for providing and filling sand alround G.I pipes and

fittings for 10.00 mtr. length.

Calculating quantity of Sand to be filled:

Position and depth of sand filling for 20 mm pipe:

Under the pipe: 75 mm Above the pipe: 150 mm

Max. external dia of pipe: 27.30 mm Total sand depth: **252.30 mm**

Width: 300 mm

Qty. of Sand: $1 \times 10 \times 0.30 \times 0.2523 = 0.7569$ cum

Less pipe portion: 1x3.14x0.0273 x 0.0273 /4 x10=(-) 0.0058 cum = 0.7511 cum

Hence Net Qty. of sand to be filled: 0.7511 cum

Say: 0.75 cum

	Materials:						
02002	Sand for filling	cum	0.750	₹	460.00	₹	345.00
	Carriage:						
0425	Sand	cum	0.750	₹	131.75	₹	98.81
	Labour:						
	for filling						
0216	Foreman	Day	0.080	₹	440.00	₹	35.20
0203	Beldar	Day	0.060	₹	310.00	₹	18.60
0212	Helper	Day	0.065	₹	310.00	₹	20.15
	TOTAL					₹	517.76
	Add for Sundries and contingencies	@	3.0%			₹	15.53
	TOTAL					₹	533.29
	Add for water charges	@	1%			₹	5.33
	TOTAL					₹	538.62
	Add GST (multiplying factor)		0.1405			₹	75.68
						₹	614.30
	Add for contractor's profit and overheads	@	15%			₹	92.15
						₹	706.45
	Add cess	@	1%			₹	7.06
	Cost of providing & filling for 10 mtr. length					₹	713.51
	Cost per mtr.					₹	71.35
	Sav					₹	71.40

19.41: Providing and filling sand of grading zone IV or fine grade alround the G.I. pipes in external work.

19.41.3 25 mm diameter pipe

Code Description Unit Quantity Rate Amount

Operational input for providing and filling sand alround G.I pipes and

fittings for 10.00 mtr. length.

Calculating quantity of Sand to be filled:

Position and depth of sand filling for 25 mm pipe:

Under the pipe: 75 mm Above the pipe: 150 mm

Max. external dia of pipe: 34.20 mm Total sand depth: **259.20 mm**

Width: 300 mm

Qty. of Sand: $1 \times 10 \times 0.30 \times 0.2592 = 0.7776$ cum

Less pipe portion: $1x3.14x0.0342 \times 0.0342 / 4 \times 10 = (-) 0.0092 \text{ cum} = 0.7684 \text{ cum}$

Hence Net Qty. of sand to be filled: 0.7684cum

Say: 0.77 cum

Materials:

Carriage: 0425 Sand cum 0.770 ₹ 131.75 ₹ 101.45 Labour: for filling	02002	Sand for filling	cum	0.770	₹	460.00	₹	354.20
Labour: for filling 0216 Foreman Day 0.080 ₹ 440.00 ₹ 35.20 0203 Beldar Day 0.070 ₹ 310.00 ₹ 21.70 0212 Helper Day 0.070 ₹ 310.00 ₹ 21.70 TOTAL ₹ 534.25 Add for Sundries and contingencies ② 3.0% ₹ 16.03 TOTAL ₹ 550.28 Add for water charges ② 1% ₹ 555.78 TOTAL ₹ 555.78 Add GST (multiplying factor) ○ 15% ₹ 78.09 Add for contractor's profit and overheads ② 15% ₹ 728.95 Add cess ② 1% ₹ 7.29 Add cess ② 1% ₹ 736.24 Cost of providing & filling for 10 mtr. length ₹ 736.24 Cost oper mtr. ₹ 736.24		Carriage:						
For filling Day 0.080 ₹ 440.00 ₹ 35.20 Day Da	0425	Sand	cum	0.770	₹	131.75	₹	101.45
0216 Foreman Day 0.080 ₹ 440.00 ₹ 35.20 0203 Beldar Day 0.070 ₹ 310.00 ₹ 21.70 0212 Helper Day 0.070 ₹ 310.00 ₹ 21.70 TOTAL Add for Sundries and contingencies © 3.0% ₹ 16.03 TOTAL Add for water charges © 1% ₹ 550.28 Add GST (multiplying factor) Ø 1% ₹ 78.09 Add for contractor's profit and overheads © 15% ₹ 95.08 Add cess © 1% ₹ 728.95 Add cess © 1% ₹ 736.24 Cost of providing & filling for 10 mtr. length Cost per mtr. ₹ 736.24		Labour:						
0203 Beldar Day 0.070 ₹ 310.00 ₹ 21.70 0212 Helper Day 0.070 ₹ 310.00 ₹ 21.70 TOTAL ₹ 534.25 Add for Sundries and contingencies ② 3.0% ₹ 16.03 TOTAL ₹ 550.28 Add for water charges ② 1% ₹ 555.78 TOTAL ₹ 555.78 78.09 ₹ 78.09 ₹ 633.87 Add GST (multiplying factor) ○ 0.1405 ₹ 78.09 ₹ 728.95 Add cess ② 1% ₹ 728.95 ₹ 7.29 Cost of providing & filling for 10 mtr. length Cost per mtr. ₹ 736.24 ₹ 736.24		for filling						
0212 TOTAL Day TOTAL Day TOTAL 0.070 € 310.00 € 310.00 € 534.25 21.70 € 534.25 Add for Sundries and contingencies TOTAL ② 3.0% ₹ 16.03 Add for water charges Add for water charges TOTAL ② 1% ₹ 550.28 Add GST (multiplying factor) ② 1% ₹ 555.78 Add for contractor's profit and overheads ② 15% ₹ 95.08 Add cess ② 15% ₹ 728.95 Add cess ② 1% ₹ 736.24 Cost of providing & filling for 10 mtr. length Cost per mtr. ₹ 736.24	0216	Foreman	Day	0.080	₹	440.00	₹	35.20
TOTAL Add for Sundries and contingencies @ 3.0% ₹ 16.03 TOTAL Add for water charges Add for water charges O.1405 ₹ 555.78 Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost of providing & filling for 10 mtr. length Cost per mtr. ₹ 534.25 534.25 16.03 ₹ 550.28 17.29 18 ₹ 78.09 ₹ 78.09 ₹ 728.95 ₹ 728.95 ₹ 729 ₹ 736.24 ₹ 73.624	0203	Beldar	Day	0.070	₹	310.00	₹	21.70
Add for Sundries and contingencies TOTAL Add for water charges Add for water charges Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost of providing & filling for 10 mtr. length Cost per mtr. ■ 3.0% ■ 1% ■ 1% ■ 15% ■ 15% ■ 15% ■ 728.95 ▼ 728.95 ▼ 7.29	0212	•	Day	0.070	₹	310.00		
TOTAL Add for water charges Add for water charges F 550.28 Add for water charges F 550.28 Add for water charges Add GST (multiplying factor) Add for contractor's profit and overheads Add for contractor's profit and overheads Add cess Cost of providing & filling for 10 mtr. length Cost per mtr. F 550.28 550.28 75.09 78.09		TOTAL					₹	534.25
TOTAL ₹ 550.28 Add for water charges @ 1% ₹ 5.50 TOTAL ₹ 555.78 Add GST (multiplying factor) 0.1405 ₹ 78.09 ₹ 633.87 Add for contractor's profit and overheads @ 15% ₹ 95.08 ₹ 728.95 Add cess @ 1% ₹ 7.29 Cost of providing & filling for 10 mtr. length ₹ 736.24 Cost per mtr. ₹ 73.624		Add for Sundries and contingencies	@	3.0%			₹	16.03
TOTAL ₹ 555.78 Add GST (multiplying factor) 0.1405 ₹ 78.09 ₹ 633.87 Add for contractor's profit and overheads @ 15% ₹ 95.08 ₹ 728.95 Add cess @ 1% ₹ 7.29 Cost of providing & filling for 10 mtr. length ₹ 736.24 Cost per mtr. ₹ 73.62		_					₹	550.28
Add GST (multiplying factor) 0.1405 ₹ 78.09 ₹ 633.87 Add for contractor's profit and overheads @ 15% ₹ 95.08 ₹ 728.95 Add cess @ 1% ₹ 7.29 Cost of providing & filling for 10 mtr. length ₹ 736.24 Cost per mtr. ₹ 73.62		Add for water charges	@	1%			₹	5.50
## 633.87 Add for contractor's profit and overheads @ 15% ₹ 95.08 ₹ 728.95 Add cess @ 1% Cost of providing & filling for 10 mtr. length Cost per mtr. ₹ 736.24 ₹ 736.24		TOTAL					₹	555.78
Add for contractor's profit and overheads @ 15% ₹ 95.08 ₹ 728.95 Add cess @ 1% € 7.29 Cost of providing & filling for 10 mtr. length Cost per mtr. ₹ 736.24		Add GST (multiplying factor)		0.1405			₹	78.09
* 728.95 Add cess							₹	633.87
Add cess @ 1% ₹ 7.29 Cost of providing & filling for 10 mtr. length		Add for contractor's profit and overheads	@	15%			₹	95.08
Cost of providing & filling for 10 mtr. length Cost per mtr. ₹ 736.24 73.62							₹	728.95
Cost per mtr. ₹ 73.62		Add cess	@	1%			₹	7.29
·		Cost of providing & filling for 10 mtr. length					₹	736.24
Say ₹ 73.60		Cost per mtr.					₹	73.62
		Say					₹	73.60

19.41: Providing and filling sand of grading zone IV or fine grade alround the G.I. pipes in external work.

19.41.4 32 mm diameter pipe

fittings for 10.00 mtr. length.

CodeDescriptionUnitQuantityRateAmountOperational input for providing and filling sand alround G.I pipes and

Calculating quantity of Sand to be filled:

Position and depth of sand filling for 32 mm pipe:

Under the pipe: 75 mm Above the pipe: 150 mm

Max. external dia of pipe: 42.90 mm Total sand depth: **267.90 mm**

Width: 300 mm

Qty. of Sand: 1 x 10 x 0.30x 0.2679= 0.8037 cum

Less pipe portion: 1x3.14x0.0429 x 0.0429 /4 x10=(-) 0.01442 cum = 0.7893 cum

Hence Net Qty. of sand to be filled: 0.7893 cum

Say: 0.79 cum

	Suy: Sir S Suiii						
	Materials:						
02002	Sand for filling	cum	0.790	₹	460.00	₹	363.40
	Carriage:						
0425	Sand	cum	0.790	₹	131.75	₹	104.08
	Labour:						
	for filling						
0216	Foreman	Day	0.080	₹	440.00	₹	35.20
0203	Beldar	Day	0.080	₹	310.00	₹	24.80
0212	Helper	Day	0.080	₹	310.00	₹	24.80
	TOTAL					₹	552.28
	Add for Sundries and contingencies	@	3.0%			₹	16.57
	TOTAL					₹	568.85
	Add for water charges	@	1%			₹	5.69
	TOTAL					₹	574.54
	Add GST (multiplying factor)		0.1405			₹	80.72
						₹	655.26
	Add for contractor's profit and overheads	@	15%			₹	98.29
						₹	753.55
	Add cess	@	1%			₹	7.54
	Cost of providing & filling for 10 mtr. length					₹	761.09
	Cost per mtr.					₹	76.11
	Say					₹	76.10

19.41: Providing and filling sand of grading zone IV or fine grade alround the G.I. pipes in external work.

19.41.5 40 mm diameter pipe

Code Description Unit Quantity Rate Amount

Operational input for providing and filling sand alround G.I pipes and

fittings for 10.00 mtr. length.

Calculating quantity of Sand to be filled:

Position and depth of sand filling for 40 mm pipe:

Under the pipe: 75 mm Above the pipe: 150 mm

Max. external dia of pipe: 48.80 mm Total sand depth: **273.80 mm**

Width: 300 mm

Qty. of Sand: 1 x 10 x 0.30x 0.2738= 0.8214 cum

Less pipe portion: 1x3.14x0.0488 x 0.0488 /4 x10=(-) 0.0187 cum

Hence Net Qty. of sand to be filled: 0.8027cum

Say: 0.80 cum

	Materials:						
02002	Sand for filling	cum	0.800	₹	460.00	₹	368.00
	Carriage:						
0425	Sand	cum	0.800	₹	131.75	₹	105.40
	Labour:						
	for filling	_		_		_	
0216	Foreman	Day	0.080	₹	440.00	₹	35.20
0203	Beldar	Day	0.080	₹	310.00	₹	24.80
0212	Helper	Day	0.080	₹	310.00	₹	24.80
	TOTAL					₹	558.20
	Add for Sundries and contingencies	@	3.0%			₹	16.75
	TOTAL					₹	574.95
	Add for water charges	@	1%			₹	5.75
	TOTAL					₹	580.70
	Add GST (multiplying factor)		0.1405			₹	81.59
						₹	662.29
	Add for contractor's profit and overheads	@	15%			₹	99.34
						₹	761.63
	Add cess	@	1%			₹	7.62
	Cost of providing & filling for 10 mtr. length					₹	769.25
	Cost per mtr.					₹	76.93
	Say					₹	76.90

19.41: Providing and filling sand of grading zone IV or fine grade alround the G.I. pipes in external work.

19.41.6 50 mm diameter pipe

Code Description Unit Quantity Rate Amount

Operational input for providing and filling sand alround G.I pipes and fittings for 10.00 mtr. length.

Calculating quantity of Sand to be filled:

Position and depth of sand filling for 50 mm pipe:

Under the pipe: 75 mm Above the pipe: 150 mm

Max. external dia of pipe: 60.80 mm Total sand depth: **285.80 mm**

Width: 300 mm

for filling

Qty. of Sand: 1 x 10 x 0.30x 0.2858= 0.8574 cum

Less pipe portion: 1x3.14x0.0608 x 0.0608 /4 x10=(-) 0.0290 cum

Hence Net Qty. of sand to be filled: 0.8284cum

Say: 0.83 cum

Materials: 02002 Sand for filling 0.830 460.00 ₹ 381.80 cum Carriage: 0425 Sand cum 0.830 ₹ 131.75 ₹ 109.35 Labour:

0216 0203 0212	Foreman Beldar Helper TOTAL	Day Day Day	0.080 0.085 0.085	₹ ₹	440.00 310.00 310.00	₹ ₹ ₹	35.20 26.35 26.35 579.05
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	17.37 596.42
	Add for water charges TOTAL	@	1%			₹ ₹	5.96 602.38
	Add GST (multiplying factor)		0.1405			₹ ₹	84.63 687.01
	Add for contractor's profit and overheads	@	15%			₹ ₹	103.05 790.06
	Add cess	@	1%			₹	7.90
	Cost of providing & filling for 10 mtr. length					₹ ₹	797.96 79.80
	Cost per mtr. Say					₹ ₹	79.80 79.80

19.41: Providing and filling sand of grading zone IV or fine grade alround the G.I. pipes in external work.

19.41.7 65 mm diameter pipe

CodeDescriptionUnitQuantityRateAmountOperational input for providing and filling sand alround G.I pipes and

fittings for 10.00 mtr. length.

Calculating quantity of Sand to be filled:

Position and depth of sand filling for 65 mm pipe:

Under the pipe: 75 mm Above the pipe: 150 mm

Max. external dia of pipe: 76.60 mm Total sand depth: **301.60 mm**

Width: 450 mm

Qty. of Sand: 1 x 10 x 0.45x 0.3016= 1.3572 cum

Less pipe portion: 1x3.14x0.0766 x 0.0766 /4 x10=(-) 0.0460 cum

Hence Net Qty. of sand to be filled: 1.311 cum

Say: 1.31 cum

	Materials:						
02002	Sand for filling	cum	1.310	₹	460.00	₹	602.60
	Carriage:						
0425	Sand	cum	1.310	₹	131.75	₹	172.59
	Labour:						
	for filling						
0216	Foreman	Day	0.080	₹	440.00	₹	35.20
0203	Beldar	Day	0.130	₹	310.00	₹	40.30
0212	Helper	Day	0.130	₹	310.00	₹	40.30
	TOTAL					₹	890.99
	Add for Sundries and contingencies	@	3.0%			₹	26.73
	TOTAL					₹	917.72
	Add for water charges	@	1%			₹	9.18
	TOTAL					₹	926.90
	Add GST (multiplying factor)		0.1405			₹	130.23
						₹	1,057.13
	Add for contractor's profit and overheads	@	15%			₹	158.57
						₹	1,215.70
	Add cess	@	1%			₹	12.16
	Cost of providing & filling for 10 mtr. length					₹	1,227.86
	Cost per mtr.					₹	122.79
	Say					₹	122.80

19.41: Providing and filling sand of grading zone IV or fine grade alround the G.I. pipes in external work.

19.41.8 80 mm diameter pipe

Code Description Unit Quantity Rate Amount

Operational input for providing and filling sand alround G.I pipes and fittings for 10.00 mtr. length.

Calculating quantity of Sand to be filled:

Position and depth of sand filling for 80 mm pipe:

Under the pipe: 75 mm Above the pipe: 150 mm

Max. external dia of pipe: 89.90 mm Total sand depth: **314.90 mm**

Width: 450 mm

Qty. of Sand: $1 \times 10 \times 0.45 \times 0.3149 = 1.417$ cum

Less pipe portion: 1x3.14x0.0899 x 0.0899 /4 x10=(-) 0.063 cum

Hence Net Qty. of sand to be filled: 1.354 cum

Say: 1.35 cum

	Materials:						
02002	Sand for filling	cum	1.350	₹	460.00	₹	621.00
	Carriage:						
0425	Sand	cum	1.350	₹	131.75	₹	177.86
	Labour:						
	for filling						
0216	Foreman	Day	0.080	₹	440.00	₹	35.20
0203	Beldar	Day	0.135	₹	310.00	₹	41.85
0212	Helper	Day	0.135	₹	310.00	₹	41.85
	TOTAL					₹	917.76
	Add for Sundries and contingencies	@	3.0%			₹	27.53
	TOTAL					₹	945.29
	Add for water charges	@	1%			₹	9.45
	TOTAL					₹	954.74
	Add GST (multiplying factor)		0.1405			₹	134.14
						₹	1,088.88
	Add for contractor's profit and overheads	@	15%			₹	163.33
						₹	1,252.21
	Add cess	@	1%			₹	12.52
	Cost of providing & filling for 10 mtr. length					₹	1,264.73
	Cost per mtr.					₹	126.47
	Say					₹	126.50

19.41: Providing and filling sand of grading zone IV or fine grade alround the G.I. pipes in external work.

19.41.9 100 mm diameter pipe

Code Description	Unit	Quantity	Rate	Amount
Operational input for providing and filling sand alround G.I pipes and				
fittings for 10.00 mtr. length.				

Calculating quantity of Sand to be filled:

Position and depth of sand filling for 100 mm pipe:

Under the pipe: 75 mm Above the pipe: 150 mm

Max. external dia of pipe: 115.00 mm Total sand depth: **340.00 mm**

Width: 450 mm

Qty. of Sand: $1 \times 10 \times 0.45 \times 0.340 = 1.53$ cum

Less pipe portion: 1x3.14x0.115 x 0.115 /4 x10=(-) 0.103cum

Hence Net Qty. of sand to be filled: 1.427cum

Say: 1.43 cum

	Materials:						
02002	Sand for filling	cum	1.430	₹	460.00	₹	657.80
	Carriage:						
0425	Sand	cum	1.430	₹	131.75	₹	188.40
	Labour:						
	for filling						
0216	Foreman	Day	0.100	₹	440.00	₹	44.00
0203	Beldar	Day	0.145	₹	310.00	₹	44.95
0212	Helper	Day	0.145	₹	310.00	₹	44.95
	TOTAL					₹	980.10

Add for Sundries and contingencies	@	3.0%	₹	29.40
TOTAL			₹	1,009.50
Add for water charges	@	1%	₹	10.10
TOTAL			₹	1,019.60
Add GST (multiplying factor)		0.1405	₹	143.25
			₹	1,162.85
Add for contractor's profit and overheads	@	15%	₹	174.43
			₹	1,337.28
Add cess	@	1%	₹	13.37
Cost of providing & filling for 10 mtr. length			₹	1,350.65
Cost per mtr.			₹	135.07
Say			₹	135.10

19.41: Providing and filling sand of grading zone IV or fine grade alround the G.I. pipes in external work.

19.41.10 150 mm diameter pipe

CodeDescriptionUnitQuantityRateAmountOperational input for providing and filling sand alround G.I pipes and

fittings for 10.00 mtr. length.

Calculating quantity of Sand to be filled:

Position and depth of sand filling for 150 mm pipe:

Under the pipe: 75 mm Above the pipe: 150 mm

Max. external dia of pipe: 166.50 mm Total sand depth: **391.50 mm**

Width: 600 mm

Qty. of Sand: $1 \times 10 \times 0.60 \times 0.3915 = 2.349$ cum

Less pipe portion: 1x3.14x0.1665 x 0.1665 /4 x10=(-) 0.217 cum

Hence Net Qty. of sand to be filled: 2.132 cum

Say: 2.13 cum

	Materials:						
02002	Sand for filling	cum	2.130	₹	460.00	₹	979.80
	Carriage:						
0425	Sand	cum	2.130	₹	131.75	₹	280.63
	Labour:						
	for filling						
0216	Foreman	Day	0.150	₹	440.00	₹	66.00
0203	Beldar	Day	0.220	₹	310.00	₹	68.20
0212	Helper	Day	0.220	₹	310.00	₹	68.20
	TOTAL					₹	1,462.83
	Add for Sundries and contingencies	@	3.0%			₹	43.88
	TOTAL					₹	1,506.71
	Add for water charges	@	1%			₹	15.07
	TOTAL					₹	1,521.78
	Add GST (multiplying factor)		0.1405			₹	213.81
						₹	1,735.59
	Add for contractor's profit and overheads	@	15%			₹	260.34
						₹	1,995.93
	Add cess	@	1%			₹	19.96
	Cost of providing & filling for 10 mtr. length					₹	2,015.89
	Cost per mtr.					₹	201.59
	Say					₹	201.60

19.42:

Boring with 100 mm diameter casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested:

19.42.1: Upto 6 metres depth.

Code Description Unit Quantity Rate Amount

Operational input forboring with 100 mm dia casing pipe for hand pump/tube well

	Machinaries:						
0114	Deric monkey rope and other accessories- Hire charges	Day	0.5	₹	864.00	₹	432.00
0216 0215 0212	Labour: Foreman Fitter (gr-l) Helper TOTAL	Day Day Day	0.50 0.50 3.00	₹ ₹	440.00 440.00 310.00	₹ ₹ ₹	220.00 220.00 930.00 1,802.00
	Add for Carriage of machinery and preliminary arrangements to erect the plant etc.[L.S]	@	1%			₹	18.02
	TOTAL					₹	1,820.02
	Add for testing TOTAL	@	2.50%			₹ ₹	45.50 1,865.52
	Add fortowards depreciation of the casing pipe etc.	@	2.0 %			₹	37.31
	TOTAL					₹	1,902.83
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	57.08 1,959.91
	Add for water charges & electricity	@	1.0 %			₹	19.60
	TOTAL					₹	1,979.51
	Add GST (multiplying factor)		0.1405			₹ ₹	278.12 2,257.63
	Add for contractor's profit and overheads	@	15%			₹ ₹	338.64 2,596.27
	Add cess	@	1%			₹	25.96
	Cost for 6 mtr. length Cost per mtr. Say					₹ ₹	2,622.23 437.04 437.00

19.42:

Boring with 100 mm diameter casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested:

19.42.2: Beyond 6m and upto 12 m depth.

Operational input forboring with 100 mm dia casing pipe for hand pump/tube well

pump/tul	pe well						
	Machinaries:						
0114	Deric monkey rope and other accessories- Hire charges	Day	0.62	₹	864.00	₹	535.68
	Labour:						
0216	Foreman	Day	0.62	₹	440.00	₹	272.80
0215	Fitter (gr-I)	Day	0.62	₹	440.00	₹	272.80
0212	Helper	Day	3.50	₹	310.00	₹	1,085.00
	TOTAL					₹	2,166.28
	Add for Carriage of machinery and preliminary arrangements to erect the plant etc.[L.S]	@	1%			₹	21.66
	TOTAL					₹	2,187.94
	Add for testing	@	2.50%			₹	54.70
	TOTAL					₹	2,242.64
	Add fortowards depreciation of the casing pipe etc.	@	2.0 %			₹	44.85
	TOTAL					₹	2,287.49
	Add for Sundries and contingencies	@	3.0%			₹	68.62
	TOTAL					₹	2,356.11
	Add for water charges & electricity	@	1.0 %			₹	23.56
	TOTAL					₹	2,379.67
	Add GST (multiplying factor)		0.1405			₹	334.34
						₹	2,714.01
	Add for contractor's profit and overheads	@	15%			₹	407.10
						₹	3,121.11

Add cess	@	1%	₹	31.21
Cost for 6 mtr. length			₹	3,152.32
Cost per mtr.			₹	525.39
Say			₹	525.40

19.42:

Boring with 100 mm diameter casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested:

19.42.3: Beyond 12 m and upto 18 m depth.

Operational input forboring with 100 mm dia casing pipe for hand pump/tube well

Julip/tul	oc well						
	Machinaries:						
0114	Deric monkey rope and other accessories- Hire charges	Day	0.75	₹	864.00	₹	648.00
	Labour:						
0216	Foreman	Day	0.75	₹	440.00		330.00
0215	Fitter (gr-I)	Day	0.75	₹	440.00	₹	330.00
0212	Helper TOTAL	Day	4.00	₹	310.00	₹ ₹	1,240.00
	-					•	2,548.00
	Add for Carriage of machinery and preliminary arrangements to erect the plant etc.[L.S]	@	1%			₹	25.48
	TOTAL					₹	2,573.48
	Add for testing	@	2.50%			₹	64.34
	TOTAL					₹	2,637.82
	Add fortowards depreciation of the casing pipe etc.	@	2.0 %			₹	52.76
	TOTAL					₹	2,690.58
	Add for Sundries and contingencies	@	3.0%			₹	80.72
	TOTAL					₹	2,771.30
	Add for water charges & electricity	@	1.0 %			₹	27.71
	TOTAL					₹	2,799.01
	Add GST (multiplying factor)		0.1405			₹	393.26
						₹	3,192.27
	Add for contractor's profit and overheads	@	15%			₹	478.84
						₹	3,671.11
	Add cess	@	1%			₹	36.71
	Cost for 6 mtr. length					₹	3,707.82
	Cost per mtr.					₹	617.97
	Say					₹	618.00

19.43:

Providing and placing in position filters of 40 mm diameter G.I. pipe with brass strainer of approved quality.

Code	Description Details of cost for one strainer 1.5 long Materials	Unit	Quantity		Rate	ı	Amount
19057	Cost of strainer 40mm diameter 1.5m long Labour:	each	1.00	₹	580.00	₹	580.00
0215 0203	Fitter (grade-I) Belder TOTAL	Day Day	0.17 0.17	₹	440.00 310.00	₹ ₹	74.80 52.70 707.50
	Add for carriage of pipes, hemp, white lead etc.[L.S] TOTAL	@	1%			₹ ₹	7.08 714.58
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	21.44 736.02
	Add for water charges TOTAL	@	1.0 %			₹ ₹	7.36 743.38
	Add GST (multiplying factor)		0.1405			₹ ₹	104.44 847.82
	Add for contractor's profit and overheads	@	15%			₹ ₹	127.17 974.99

Add cess	@	1%	₹	9.75
Cost for 1.50 mtr. length			₹	984.74
Cost per mtr.			₹	656.49
Say			₹	656.50

19.44: Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for a depth of 10 metre						
	Materials:						
19032	40 mm dia G.I. pipe	metre	15.50	₹	250.00	₹	3,875.00
	Length of the pipe to be fixed: 15.00 mtr.						
	Add wastage: 0.60 mtr. Total= 15.50 mtr.						
	Carriage:						
0427	G.I Pipes 15.50 m x 3.65 kg/m = 0.0566 t	tonne	0.0566	₹	102.47	₹	5.80
	Labour:						
0215	Fitter (grade-I)	Day	0.33	₹		₹	145.20
0203	Belder	Day	0.75	₹	310.00	₹	232.50
	TOTAL					₹	4,258.50
	Add for hemp, white lead, oil etc.	@	0.50 %			₹	21.29
	TOTAL					₹	4,279.79
	Add for Sundries and contingencies	@	3.0%			₹	128.39
	TOTAL					₹	4,408.18
	Add for water charges	@	1.0 %			₹	44.08
	TOTAL					₹	4,452.26
	Add GST (multiplying factor)		0.1405			₹	625.54
						₹	5,077.80
	Add for contractor's profit and overheads	@	15%			₹	761.67
						₹	5,839.47
	Add cess	@	1%			₹	58.39
	Cost for 15.0 mtr. length					₹	5,897.86
	Cost per mtr.					₹	393.19
	Say					₹	393.20

19.45: Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.

Description	Unit	Quantity		Rate	4	Amount
Details of cost for one pump						
Materials:						
Cost of hand pump	each	1.0	₹	720.00	₹	720.00
Labour:						
Foreman	Day	0.10	₹	440.00	₹	44.00
Fitter (grade-I)	Day	0.20	₹	440.00	₹	88.00
Beldar	Day	0.20	₹	310.00	₹	62.00
TOTAL					₹	914.00
Add for carriage of hand pump etc.[L.S]	@	1%			₹	9.14
TOTAL					₹	923.14
Add for Sundries and contingencies	@	3.0%			₹	27.69
TOTAL					₹	950.83
Add for water charges	@	1.0 %			₹	9.51
TOTAL					₹	960.34
Add GST (multiplying factor)		0.1405			₹	134.93
					₹	1,095.27
Add for contractor's profit and overheads	@	15%			₹	164.29
					₹	1,259.56
Add cess	@	1%			₹	12.60
Cost for one hand pump					₹	1,272.16
Say					₹	1,272.20
	Details of cost for one pump Materials: Cost of hand pump Labour: Foreman Fitter (grade-I) Beldar TOTAL Add for carriage of hand pump etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for one hand pump	Details of cost for one pump Materials: Cost of hand pump each Labour: Foreman Day Fitter (grade-I) Day Beldar Day TOTAL Add for carriage of hand pump etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add cess Cost for one hand pump	Details of cost for one pump Materials: Cost of hand pump each 1.0 Labour: Foreman Day 0.10 Fitter (grade-I) Day 0.20 Beldar Day 0.20 TOTAL Add for carriage of hand pump etc.[L.S] @ 1% TOTAL Add for Sundries and contingencies @ 3.0% TOTAL Add for water charges @ 1.0 % TOTAL Add GST (multiplying factor) 0.1405 Add cess @ 15% Cost for one hand pump	Details of cost for one pump Materials: Cost of hand pump each 1.0 ₹ Labour: Either (grade-I) Day 0.10 ₹ Fitter (grade-I) Day 0.20 ₹ Beldar Day 0.20 ₹ TOTAL TOTAL Image: Cost of hand pump etc.[L.S] @ 1% Add for carriage of hand pump etc.[L.S] @ 3.0% TOTAL Image: Cost of hand pump etc.[L.S] Image: Cost of hand pump etc.[L.S] Image: Cost of hand pump etc.[L.S] Add for carriage of hand pump etc.[L.S] Image: Cost of hand pump	Details of cost for one pump Materials: Cost of hand pump each 1.0 ₹ 720.00 Labour: Foreman Day 0.10 ₹ 440.00 Fitter (grade-I) Day 0.20 ₹ 440.00 Beldar Day 0.20 ₹ 310.00 TOTAL Add for carriage of hand pump etc.[L.S] @ 1% TOTAL Add for Sundries and contingencies @ 3.0% TOTAL Add for water charges @ 1.0 % TOTAL Add GST (multiplying factor) 0.1405 Add cess @ 15% Add cess @ 15%	Details of cost for one pump Materials: Cost of hand pump each 1.0 ₹ 720.00 ₹ Labour: Foreman Day 0.10 ₹ 440.00 ₹ Fitter (grade-I) Day 0.20 ₹ 440.00 ₹ Beldar Day 0.20 ₹ 310.00 ₹ TOTAL ** </td

19.46: Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)

19.46.1:	15 mm nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials:						
19040	G.I Union 15 mm nominal bore .	each	1.00	₹	40.00	₹	40.00
	Labour:						
0215	Fitter (grade-I)	Day	0.11	₹	440.00	₹	48.40
0203	Belder	Day	0.11	₹	310.00	₹	34.10
	TOTAL					₹	122.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	3.68
	TOTAL					₹	126.18
	Add for water charges	@	1.0 %			₹	1.26
	TOTAL					₹	127.44
	Add GST (multiplying factor)		0.1405			₹	17.91
						₹	145.35
	Add for contractor's profit and overheads	@	15%			₹	21.80
						₹	167.15
	Add cess	@	1%			₹	1.67
	Cost for per union					₹	168.82
	Say					₹	168.80
40.40.	Drawiding and fiving C.I. Union in C.I. nine including aut						

19.46: Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)

19.46.2	20 mm nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.		_				
	Materials:						
19041	G.I Union 20 mm nominal bore .	each	1.00	₹	50.00	₹	50.00
	Labour:						
0215	Fitter (grade-I)	Day	0.11	₹	440.00	₹	48.40
0203	Belder	Day	0.11	₹	310.00	₹	34.10
	TOTAL	-				₹	132.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	3.98
	TOTAL					₹	136.48
	Add for water charges	@	1.0 %			₹	1.36
	TOTAL					₹	137.84
	Add GST (multiplying factor)		0.1405			₹	19.37
						₹	157.21
	Add for contractor's profit and overheads	@	15%			₹	23.58
						₹	180.79
	Add cess	@	1%			₹	1.81
	Cost for per union					₹	182.60
	Say					₹	182.60

19.46 : Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)

19.46.3. Code	25 mm nominal bore Description Details of cost for one no. Materials:	Unit	Quantity		Rate		Amount
19042	G.I Union 25 mm nominal bore .	each	1.00	₹	90.00	₹	90.00
	Labour:						
0215	Fitter (grade-I)	Day	0.11	₹	440.00	₹	48.40
0203	Belder	Day	0.11	₹	310.00	₹	34.10
	TOTAL					₹	172.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	5.18
	TOTAL					₹	177.68
	Add for water charges	@	1.0 %			₹	1.78
	TOTAL					₹	179.46
	Add GST (multiplying factor)		0.1405			₹	25.21
						₹	204.67

Add for contractor's profit and overheads	@	15%	₹	30.70
			₹	235.37
Add cess	@	1%	₹	2.35
Cost for per union			₹	237.72
Say			₹	237.70

19.46 : Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)

19.46.4. Code	32 mm nominal bore Description Details of cost for one no. Materials:	Unit	Quantity		Rate		Amount
19043	G.I Union 32 mm nominal bore . Labour:	each	1.00	₹	130.00	₹	130.00
0215	Fitter (grade-I)	Day	0.11	₹	440.00	₹	48.40
0203	Belder TOTAL	Day	0.11	₹	310.00	₹ ₹	34.10 212.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	6.38
	TOTAL					₹	218.88
	Add for water charges TOTAL	@	1.0 %			₹ ₹	2.19 221.07
	Add GST (multiplying factor)		0.1405			₹ ₹	31.06 252.13
	Add for contractor's profit and overheads	@	15%			₹ ₹	37.82 289.95
	Add cess	@	1%			₹	2.90
	Cost for per union					₹	292.85
	Say					₹	292.90

19.46: Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)

19.46.5. Code	40 mm nominal bore Description Details of cost for one no. Materials:	Unit	Quantity		Rate	ı	Amount
19044	G.I Union 40 mm nominal bore . Labour:	each	1.00	₹	180.00	₹	180.00
0215 0203	Fitter (grade-I) Belder TOTAL	Day Day	0.11 0.11	₹	440.00 310.00	₹ ₹	48.40 34.10 262.50
	Add for Sundries and contingencies, carriage etc.[L.S] TOTAL	@	3.0%			₹ ₹	7.88 270.38
	Add for water charges TOTAL	@	1.0 %			₹ ₹	2.70 273.08
	Add GST (multiplying factor)		0.1405			₹ ₹	38.37 311.45
	Add for contractor's profit and overheads	@	15%			₹ ₹	46.72 358.17 3.58
	Add cess Cost for per union	@	1%			₹	361.75
	Say					₹	361.80

19.46: Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)

19.46.6 50 mm nominal bore

Code	Description Details of cost for one no.	Unit	Quantity		Rate		Amount
19045	Materials: G.I Union 50 mm nominal bore .	each	1.00	₹	240.00	₹	240.00

	Labour:						
0215	Fitter (grade-I)	Day	0.15	₹	440.00	₹	66.00
0203	Belder	Day	0.15	₹	310.00	₹	46.50
	TOTAL					₹	352.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	10.58
	TOTAL					₹	363.08
	Add for water charges	@	1.0 %			₹	3.63
	TOTAL					₹	366.71
	Add GST (multiplying factor)		0.1405			₹	51.52
						₹	418.23
	Add for contractor's profit and overheads	@	15%			₹	62.73
						₹	480.96
	Add cess	@	1%			₹	4.81
	Cost for per union					₹	485.77
	Say					₹	485.80

19.46 : Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)

19.46.7 Code	65 mm nominal bore Description Details of cost for one no. Materials:	Unit	Quantity		Rate		Amount
19046	G.I Union 65 mm nominal bore .	each	1.00	₹	420.00	₹	420.00
0215 0203	Labour: Fitter (grade-I) Belder TOTAL	Day Day	0.15 0.15	₹	440.00 310.00	₹ ₹	66.00 46.50 532.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹ ₹	15.98 548.48
	Add for water charges TOTAL	@	1.0 %			₹	5.48 553.96
	Add GST (multiplying factor)		0.1405			₹ ₹	77.83 631.79
	Add for contractor's profit and overheads	@	15%			₹ ₹	94.77 726.56
	Add cess	@	1%			₹	7.27
	Cost for per union Say					₹ ₹	733.83 733.80

19.46 : Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)

19.46.8	80 mm nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials:						
19047	G.I Union 80 mm nominal bore .	each	1.00	₹	500.00	₹	500.00
	Labour:						
0215	Fitter (grade-I)	Day	0.15	₹	440.00	₹	66.00
0203	Belder	Day	0.15	₹	310.00	₹	46.50
	TOTAL					₹	612.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	18.38
	TOTAL					₹	630.88
	Add for water charges	@	1.0 %			₹	6.31
	TOTAL					₹	637.19
	Add GST (multiplying factor)		0.1405			₹	89.53
						₹	726.72
	Add for contractor's profit and overheads	@	15%			₹	109.01
						₹	835.73
	Add cess	@	1%			₹	8.36
	Cost for per union					₹	844.09
	Say					₹	844.10

19.47

Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required:

	10 11111 110111111111 1101 01						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials:						
19040	G.I Union 15 mm nominal bore .	each	1.00	₹	40.00	₹	40.00
	Labour:						
0215	Fitter (grade-I)	Day	0.330	₹	440.00	₹	145.20
0203	Belder	Day	0.330	₹	310.00	₹	102.30
	TOTAL					₹	287.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	8.63
	TOTAL					₹	296.13
	Add for water charges	@	1.0 %			₹	2.96
	TOTAL					₹	299.09
	Add GST (multiplying factor)		0.1405			₹	42.02
						₹	341.11
	Add for contractor's profit and overheads	@	15%			₹	51.17
						₹	392.28
	Add cess	@	1%			₹	3.92
	Cost for per union					₹	396.20
	Say					₹	396.20

19.47

Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required:

19.47.2: 20 mm nominal bore.

Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for one no.					
	Materials:					
19041	G.I Union 20 mm nominal bore .	each	1.00	₹ 50.00	₹	50.00
	Labour:					
0215	Fitter (grade-I)	Day	0.330	₹ 440.00	₹	145.20
0203	Belder	Day	0.330	₹ 310.00	₹	102.30
	TOTAL				₹	297.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%		₹	8.93
	TOTAL				₹	306.43
	Add for water charges	@	1.0 %		₹	3.06
	TOTAL				₹	309.49
	Add GST (multiplying factor)		0.1405		₹	43.48
					₹	352.97
	Add for contractor's profit and overheads	@	15%		₹	52.95
					₹	405.92
	Add cess	@	1%		₹	4.06
	Cost for per union				₹	409.98
	Say				₹	410.00

19.47

Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required:

19.47.3: 25 mm nominal bore.

19.47.3	23 mm nominal bore.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials:						
19042	G.I Union 25 mm nominal bore .	each	1.00	₹	90.00	₹	90.00
	Labour:						
0215	Fitter (grade-I)	Day	0.330	₹	440.00	₹	145.20
0203	Belder	Day	0.330	₹	310.00	₹	102.30
	TOTAL					₹	337.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	10.13

TOTAL			₹	347.63
Add for water charges	@	1.0 %	₹	3.48
TOTAL			₹	351.11
Add GST (multiplying factor)		0.1405	₹	49.33
			₹	400.44
Add for contractor's profit and overheads	@	15%	₹	60.07
			₹	460.51
Add cess	@	1%	₹	4.61
Cost for per union			₹	465.12
Say			₹	465.10

19.47

Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required:

19.47.4:	32 mm nominal bore.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials:						
19043	G.I Union 32 mm nominal bore .	each	1.00	₹	130.00	₹	130.00
	Labour:						
0215	Fitter (grade-I)	Day	0.330	₹	440.00	₹	145.20
0203	Helper	Day	0.330	₹	310.00	₹	102.30
	TOTAL					₹	377.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	11.33
	TOTAL					₹	388.83
	Add for water charges	@	1.0 %			₹	3.89
	TOTAL					₹	392.72
	Add GST (multiplying factor)		0.1405			₹	55.18
						₹	447.90
	Add for contractor's profit and overheads	@	15%			₹	67.19
						₹	515.09
	Add cess	@	1%			₹	5.15
	Cost for per union					₹	520.24
	Say					₹	520.20

19.47

Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required:

19.47.5:	40 mm nominal bore.	
Code	Description	

Code	Description	Unit	Quantity		Rate	1	Amount
	Details of cost for one no.						
	Materials:						
19044	G.I Union 40 mm nominal bore .	each	1.00	₹	180.00	₹	180.00
	Labour:						
0215	Fitter (grade-I)	Day	0.330	₹	440.00	₹	145.20
0203	Helper	Day	0.330	₹	310.00	₹	102.30
	TOTAL					₹	427.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	12.83
	TOTAL					₹	440.33
	Add for water charges	@	1.0 %			₹	4.40
	TOTAL					₹	444.73
	Add GST (multiplying factor)		0.1405			₹	62.48
						₹	507.21
	Add for contractor's profit and overheads	@	15%			₹	76.08
						₹	583.29
	Add cess	@	1%			₹	5.83
	Cost for per union					₹	589.12
	Say					₹	589.10

19.47 Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required:

19.47.6: Code	50 mm nominal bore. Description Details of cost for one no. Materials:	Unit	Quantity		Rate		Amount
19045	G.I Union 50 mm nominal bore .	each	1.00	₹	240.00	₹	240.00
	Labour:						
0215	Fitter (grade-I)	Day	0.450	₹	440.00	₹	198.00
0203	Belder	Day	0.450	₹	310.00	₹	139.50
	For excavation or cutting walls						
	TOTAL					₹	577.50
	Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%			₹	17.33
	TOTAL					₹	594.83
	Add for water charges	@	1.0 %			₹	5.95
	TOTAL					₹	600.78
	Add GST (multiplying factor)		0.1405			₹	84.41
						₹	685.19
	Add for contractor's profit and overheads	@	15%			₹	102.78
						₹	787.97
	Add cess	@	1%			₹	7.88
	Cost for per union					₹	795.85
	Say					₹	795.90

19.47 Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required:

19.47.7 Code	65 mm nominal bore. Description Details of cost for one no. Materials:	Unit	Quantity		Rate		Amount
19046	G.I Union 65 mm nominal bore . Labour:	each	1.00	₹	420.00	₹	420.00
0215	Fitter (grade-I)	Day	0.450	₹	440.00	₹	198.00
0203	Helper TOTAL	Day	0.450	₹	310.00	₹ ₹	139.50 757.50
	Add for Sundries and contingencies, carriage etc.[L.S] TOTAL	@	3.0%			₹ ₹	22.73 780.23
	Add for water charges TOTAL	@	1.0 %			₹ ₹	7.80 788.03
	Add GST (multiplying factor)		0.1405			₹ ₹	110.72 898.75
	Add for contractor's profit and overheads	@	15%			₹ ₹	134.81 1,033.56
	Add cess	@	1%			₹	10.34
	Cost for per union					₹	1,043.90
	Say					₹	1,043.90

19.47 Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required:

19.47.8	80 mm nominal bore.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials:						
19047	G.I Union 80 mm nominal bore .	each	1.00	₹	500.00	₹	500.00
	Labour:						
0215	Fitter (grade-I)	Day	0.450	₹	440.00	₹	198.00
0203	Belder	Day	0.450	₹	310.00	₹	139.50
	TOTAL					₹	837.50

Add for Sundries and contingencies, carriage etc.[L.S]	@	3.0%	₹	25.13
TOTAL			₹	862.63
Add for water charges	@	1.0 %	₹	8.63
TOTAL			₹	871.26
Add GST (multiplying factor)		0.1405	₹	122.41
			₹	993.67
Add for contractor's profit and overheads	@	15%	₹	149.05
			₹	1,142.72
Add cess	@	1%	₹	11.43
Cost for per union			₹	1,154.15
Say			₹	1,154.10

19.48 Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank

Code	Description Details of cost for 1000 litres, tank 1 no. Materials:	Unit	Quantity		Rate		Amount
19048	Polyethylene water storage tank with cover and suitable locking arrangement TOTAL	per litre	1000.00	₹	7.00	₹	7,000.00 7,000.00
	Add for making necessary holes etc. TOTAL	@	2.50 %			₹	175.00 7,175.00
	Add for carriage and erection, placing etc.[L.S] TOTAL	@	1.0%			₹ ₹	71.75 7,246.75
	Add for Sundries and contingencies	@	3.0%			₹	217.40
	TOTAL Add for water charges	@	1.0 %			₹ ₹	7,464.15 74.64
	TOTAL Add GST (multiplying factor)		0.1405			₹ ₹	7,538.79 1,059.20 8,597.99
	Add for contractor's profit and overheads	@	15%			` ₹	1,289.70 9,887.69
	Add cess	@	1%			₹	98.88
	Cost of tank for 1000.00 litre capacity					₹	9,986.57
	Cost per litre					₹	9.99
	Say					₹	10.00

19.49 Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931

19.49.1 15 mm nominal bore

Code	Description Details of cost for one no. Materials:	Unit	Quantity	Rate	Am	ount
19100	15 mm diameter C.P. brass bib cock TOTAL	each	1.00	₹ 350.00	₹ ₹	350.00 350.00
	Add for carriage and erection, placing etc.[L.S]	@	1%		₹	3.50
	TOTAL Add for Sundries and contingencies	@	3.0%		₹ ₹	353.50 10.61
	TOTAL		4.0.0/		₹	364.11
	Add for water charges TOTAL	@	1.0 %		₹ ₹	3.64 367.75
	Add GST (multiplying factor)		0.1405		₹ ₹	51.67 419.42
	Add for contractor's profit and overheads	@	15%		₹	62.91
	Add cess	@	1%		₹	482.33 4.82
	Cost of one no. C.P. brass bib cock				₹	487.15
	Say				₹	487.10

19.50 Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.

19.50.1 Code	15mm nominal bore. Description Details of cost for one no. Materials:	Unit	Quantity		Rate		Amount
19101	15mm diameter C.P. brass long nose bib cock each TOTAL		1.00	₹	452.00	₹	452.00 452.00
	Add for carriage of materials and fixing charges etc.[L.S] TOTAL	@	1.0%			₹	4.52 456.52
	Add for Sundries and contingencies TOTAL	@	3.0%			₹	13.70 470.22
	Add for water charges TOTAL	@	1.0 %			₹ ₹	4.70 474.92
	Add GST (multiplying factor)		0.1405			₹ ₹	66.73 541.65
	Add for contractor's profit and overheads	@	15%			₹ ₹	81.25 622.90
	Add cess	@	1%			₹	6.23
	Cost of one no. brass bib cock Say					₹	629.13 629.10

19.51 Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.

19.51.1 Code	15mm nominal bore. Description Details of cost for one no. Materials:	Unit	Quantity	Rate	Ar	mount
19102	15mm diameter C.P. brass long body bib cock each TOTAL		1.00	₹ 404.00	₹ ₹	404.00 404.00
	Add for carriage of materials and fixing charges etc.[L.S] TOTAL	@	1.0%		₹	4.04 408.04
	Add for Sundries and contingencies TOTAL	@	3.0%		₹ ₹	12.24 420.28
	Add for water charges TOTAL	@	1.0 %		₹ ₹	4.20 424.48
	Add GST (multiplying factor)		0.1405		₹ ₹	59.64 484.12
	Add for contractor's profit and overheads	@	15%		₹ ₹	72.62 556.74
	Add cess	@	1%		₹	5.57
	Cost of one no. brass bib cock Say				₹ ₹	562.31 562.30

19.52 Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.

19.52.1 Code	15 mm nominal bore. Description Details of cost for one no. Materials:	Unit	Quantity		Rate		Amount
19103	15mm diameter C.P. brass stop cock (concealed) TOTAL	each	1.00	₹	452.00	₹ ₹	452.00 452.00
	Add for carriage of materials and fixing charges etc.[L.S] TOTAL	@	1.0%			₹	4.52 456.52
	Add for Sundries and contingencies TOTAL	@	3.0%			₹	13.70 470.22
	Add for water charges TOTAL	@	1.0 %			₹ ₹	4.70 474.92
	Add GST (multiplying factor)		0.1405			₹	66.73

			₹	541.65
Add for contractor's profit and overheads	@	15%	₹	81.25
			₹	622.90
Add cess	@	1%	₹	6.23
Cost of one no. brass stop cock			₹	629.13
Say			₹	629.10

19.53 Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931

19.53.1 Code	15 mm nominal bore Description Details of cost for one no. Materials:	Unit	Quantity		Rate	ı	Amount
19104	C.P. brass angle valve TOTAL	each	1.00	₹	394.00	₹ ₹	394.00 394.00
	Add for carriage of materials and fixing charges etc.[L.S] TOTAL	@	1.0%			₹ ₹	3.94 397.94
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	11.94 409.88
	Add for water charges TOTAL	@	1.0 %			₹ ₹	4.10 413.98
	Add GST (multiplying factor)		0.1405			₹ ₹	58.16 472.14
	Add for contractor's profit and overheads	@	15%			₹ ₹	70.82 542.96
	Add cess	@	1%			₹	5.43
	Cost of one no. angle valve Say					₹	548.39 548.40

19.53 A Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.

19.53.A	15 mm nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials:						
	C.P. Brass Extension Nipple (1/2"x2" size)	each	1.00	₹	45.00	₹	45.00
	TOTAL					₹	45.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1.0%			₹	0.45
	TOTAL					₹	45.45
	Add for Sundries and contingencies	@	3.0%			₹	1.36
	TOTAL					₹	46.81
	Add for water charges	@	1.0 %			₹	0.47
	TOTAL					₹	47.28
	Add GST (multiplying factor)		0.1405			₹	6.64
						₹	53.92
	Add for contractor's profit and overheads	@	15%			₹	8.09
						₹	62.01
	Add cess	@	1%			₹	0.62
	Cost of one no. angle valve					₹	62.63
	Say					₹	62.60
19.54	Providing and fixing PTMT bib cock of approved quality and	l colour.					
19.54.1	15mm nominal bore, 86 mm long, weighing not less than 88	gms.					
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no.						
	Materials:						
19105	15 mm dia P.T.M.T. bib cock	each	1.00	₹	85.00	₹	85.00
	TOTAL					₹	85.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1.0%			₹	0.85
	TOTAL					₹	85.85
		@	3.0%			₹	2.58
	Add for Sundries and contingencies	<u> </u>	3.070			-	50

	TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost of one no. bib cock Say	@ @ @	1.0 % 0.1405 15% 1%			₹₹₹₹₹₹ ₹ ₹	88.43 0.88 89.31 12.55 101.86 15.28 117.14 1.17 118.31 118.30
	Providing and fixing PTMT bib cock of approved quality and 15 mm nominal bore, 122 mm long, weighing not less than 9	9 gms.	Overstitus		Data		Amazint
Code	Description Details of cost for one no. Materials:	Unit	Quantity		Rate		Amount
19106	15mm dia P.T.M.T. bib cock TOTAL	each	1.00	₹	135.00	₹ ₹	135.00 135.00
	Add for carriage of materials and fixing charges etc.[L.S] TOTAL	@	1.0%			₹ ₹	1.35 136.35
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	4.09 140.44
	Add for water charges TOTAL Add GST (multiplying factor)	@	1.0 % 0.1405			₹ ₹ ₹	1.40 141.84 19.93
	Add for contractor's profit and overheads	@	15%			₹ ₹	161.77 24.27
	Add cess	@	1%			₹ ₹	186.04 1.86
	Cost of one no. bib cock Say					₹ ₹	187.90 187.90
19.54 19.54.3 Code	Providing and fixing PTMT bib cock of approved quality and 15 mm nominal bore, 165 mm long, weighing not less than 1 Description Details of cost for one no.		Quantity		Rate		Amount
19.54.3	15 mm nominal bore, 165 mm long, weighing not less than 1 Description	10 grams.	Quantity	₹	Rate 135.00	₹₹	Amount 135.00 135.00
19.54.3 Code	15 mm nominal bore, 165 mm long, weighing not less than 1 Description Details of cost for one no. Materials: 15mm dia P.T.M.T. bib cock	10 grams. Unit	·	₹		₹ ₹	135.00
19.54.3 Code	15 mm nominal bore, 165 mm long, weighing not less than 1 Description Details of cost for one no. Materials: 15mm dia P.T.M.T. bib cock TOTAL Add for carriage of materials and fixing charges etc.[L.S]	10 grams. Unit each	1.00	₹		₹	135.00 135.00 1.35
19.54.3 Code	15 mm nominal bore, 165 mm long, weighing not less than 1 Description Details of cost for one no. Materials: 15mm dia P.T.M.T. bib cock TOTAL Add for carriage of materials and fixing charges etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	10 grams. Unit each @	1.00 1.0% 3.0% 1.0 %	₹		₹ ₹ ₹ ₹ ₹	135.00 135.00 1.35 136.35 4.09 140.44 1.40 141.84
19.54.3 Code	15 mm nominal bore, 165 mm long, weighing not less than 1 Description Details of cost for one no. Materials: 15mm dia P.T.M.T. bib cock TOTAL Add for carriage of materials and fixing charges etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges	10 grams. Unit each @	1.00 1.0% 3.0%	₹		₹ ₹ ₹ ₹	135.00 135.00 1.35 136.35 4.09 140.44 1.40
19.54.3 Code	15 mm nominal bore, 165 mm long, weighing not less than 1 Description Details of cost for one no. Materials: 15mm dia P.T.M.T. bib cock TOTAL Add for carriage of materials and fixing charges etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor)	10 grams. Unit each @ @ @	1.00 1.0% 3.0% 1.0 % 0.1405	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹	135.00 135.00 1.35 136.35 4.09 140.44 1.40 141.84 19.93 161.77
19.54.3 Code	15 mm nominal bore, 165 mm long, weighing not less than 1 Description Details of cost for one no. Materials: 15mm dia P.T.M.T. bib cock TOTAL Add for carriage of materials and fixing charges etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	each @ @ @ @	1.00 1.0% 3.0% 1.0 % 0.1405 15%	₹		₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	135.00 135.00 1.35 136.35 4.09 140.44 1.40 141.84 19.93 161.77 24.27
19.54.3 Code 19107 19.54 19.54.4	15 mm nominal bore, 165 mm long, weighing not less than 1 Description Details of cost for one no. Materials: 15mm dia P.T.M.T. bib cock TOTAL Add for carriage of materials and fixing charges etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost of one no. bib cock Say Providing and fixing PTMT bib cock of approved quality and 15mm nominal bore, 90 mm long, weighing not less than 93	10 grams. Unit each @ @ @ @ colour. grams.	1.00 1.0% 3.0% 1.0 % 0.1405 15%	₹	135.00	*** ** * * * * * * * * * * * * * * * *	135.00 135.00 1.35 136.35 4.09 140.44 1.40 141.84 19.93 161.77 24.27 186.04 1.86
19.54.3 Code 19107	15 mm nominal bore, 165 mm long, weighing not less than 1 Description Details of cost for one no. Materials: 15mm dia P.T.M.T. bib cock TOTAL Add for carriage of materials and fixing charges etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost of one no. bib cock Say Providing and fixing PTMT bib cock of approved quality and	10 grams. Unit each @ @ @ @ @ colour.	1.00 1.0% 3.0% 1.0 % 0.1405 15%	₹		*** ** * * * * * * * * * * * * * * * *	135.00 135.00 1.35 136.35 4.09 140.44 1.40 141.84 19.93 161.77 24.27 186.04 1.86
19.54.3 Code 19107 19.54 19.54.4	15 mm nominal bore, 165 mm long, weighing not less than 1 Description Details of cost for one no. Materials: 15mm dia P.T.M.T. bib cock TOTAL Add for carriage of materials and fixing charges etc.[L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost of one no. bib cock Say Providing and fixing PTMT bib cock of approved quality and 15mm nominal bore, 90 mm long, weighing not less than 93 Description Details of cost for one no.	10 grams. Unit each @ @ @ @ colour. grams.	1.00 1.0% 3.0% 1.0 % 0.1405 15%	₹	135.00	*** ** * * * * * * * * * * * * * * * *	135.00 135.00 1.35 136.35 4.09 140.44 1.40 141.84 19.93 161.77 24.27 186.04 1.86

	Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost of one no. bib cock Say	@ @ @	3.0% 1.0 % 0.1405 15% 1%			₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	3.64 124.84 1.25 126.09 17.72 143.81 21.57 165.38 1.65
19.55 19.55.1 Code	Providing and fixing PTMT stop cock of approved quality a 15 mm nominal bore, 86mm long, weighing not less than 8 Description Details of cost for one no.		Quantity		Rate		Amount
19108	Materials: 15mm dia P.T.M.T. stop cock TOTAL	each	1.00	₹	85.00	₹ ₹	85.00 85.00 0.85
	Add for carriage of materials and fixing charges etc.[L.S] TOTAL Add for Sundries and contingencies	@	1.0% 3.0%			` ₹	85.85 2.58
	TOTAL Add for water charges TOTAL	@	1.0 %			₹ ₹	88.43 0.88 89.31
	Add GST (multiplying factor) Add for contractor's profit and overheads	@	0.1405 15%			₹ ₹	12.55 101.86 15.28
	Add cess Cost of one no. stop cock	@	1%			₹ ₹	117.14 1.17 118.31
19.55 19.55.2 Code	Providing and fixing PTMT stop cock of approved quality a 20 mm nominal bore, 89mm long, weighing not less than 8 Description Details of cost for one no. Materials: 20 mm dia P.T.M.T. stop cock TOTAL	8 grams. Unit each	Quantity	₹	Rate 120.00	₹₹₹	118.30 Amount 120.00 120.00
	Add for carriage of materials and fixing charges etc.[L.S] TOTAL	@	1.0% 3.0%			₹ ₹	1.20 121.20 3.64
	Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	@ @	1.0 % 0.1405 15%			₹ ₹ ₹ ₹ ₹	124.84 1.25 126.09 17.72 143.81 21.57
	Add cess	@	1%			` ₹	165.38 1.65
	Cost of one no. stop cock Say					₹	167.03 167.00
19.55 19.55.3 Code	Providing and fixing PTMT stop cock of approved quality a Concealed stop cock, 15mm nominal bore, 108mm long, w Description Details of cost for one no. Materials:		ss than 108 Quantity	gra	ms. Rate		Amount
19221	P.T.M.T. stop cock (concealed) 15 mm	each	1.00	₹	140.00	₹	140.00

	Add for carriage of materials and fixing charges etc.[L.S]	@	1.0%			₹	1.40
	TOTAL					₹	141.40
	Add for Sundries and contingencies	@	3.0%			₹	4.24
	TOTAL					₹	145.64
	Add for water charges	@	1.0 %			₹	1.46
	TOTAL					₹	147.10
	Add GST (multiplying factor)		0.1405			₹	20.67
						₹	167.77
	Add for contractor's profit and overheads	@	15%			₹	25.17
						₹	192.94 1.93
	Add cess	@	1%			•	1.93
	Cost of one no. stop cock					₹	194.87
	Say					₹	194.90
40.50	D. C. C. C. C. DTMT III						
19.56	Providing and fixing PTMT pillar cock of approved quality a 15mm nominal bore, 107mm long, weighing not less than 1						
19.56.1 Code	Description	Unit	Quantity		Rate		Amount
Code	Details of cost for one no.	Oilit	Quantity		Nate		Amount
	Materials:						
19110	15 mm dia P.T.M.T. pillar cock	each	1.00	₹	135.00	₹	135.00
	TOTAL					₹	135.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1.0%			₹	1.35
	TOTAL					₹	136.35
		@	3.0%			₹	4.09
	Add for Sundries and contingencies TOTAL		0.070			₹	140.44
	Add for water charges	@	1.0 %			₹	1.40
	TOTAL		1.0 70			₹	141.84
	Add GST (multiplying factor)		0.1405			₹	19.93
						₹	161.77
	Add for contractor's profit and overheads	@	15%			₹	24.27
						₹	186.04
	Add cess	@	1%			₹	1.86
	Cost of one no. Pillar cock					₹	187.90
	Say					₹	187.90
19.56	Providing and fixing PTMT pillar cock of approved quality a		0				
19.56.2 Code	15mm nominal bore, 125mm long foam flow, Weighing not Description	uess than 12 Unit	u gms. Quantity		Rate		Amount
Coue	Details of cost for one no.	Offic	Quantity		Nate		Amount
	Materials:						
19106	15mm dia P.T.M.T. bib cockwith flange (fancy) each		1.00	₹	135.00	₹	135.00
	TOTAL					₹	135.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1.0%			₹	1.35
	TOTAL					₹	136.35
	Add for Sundries and contingencies	@	3.0%			₹	4.09
	TOTAL					₹	140.44
	Add for water charges	@	1.0 %			₹	1.40
	TOTAL					₹	141.84
	Add GST (multiplying factor)		0.1405			₹	19.93
						₹	161.77
	Add for contractor's profit and overheads	@	15%			₹	24.27
						₹	186.04 1.86
	Add cess	@	1%			•	1.00
	Cost of one no. Pillar cock					₹	187.90
	Say					₹	187.90
40.57							
19.57	Providing and fixing PTMT, push cock of approved quality	and colour					
19.57.1							
•	15 mm nominal bore, 98mm long, Weighing not less than 7	ວ gms.					
C-4-	Description	1164	Oughtitue		Data		Amount
Code	Description	Unit	Quantity		Rate		Amount

	Details of cost for one no.						
19111	Materials: 15mm P.T.M.T. push cock TOTAL	each	1.00	₹	85.00	₹	85.00 85.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1.0%			₹ ₹	0.85 85.85
	Add for Sundries and contingencies	@	3.0%			₹	85.85 2.58
	TOTAL					₹	88.43
	Add for water charges TOTAL	@	1.0 %			₹ ₹	0.88 89.31
	Add GST (multiplying factor)		0.1405			₹	12.55
	Add for contractor's profit and overheads	@	15%			₹	101.86 15.28
	, tad for contractor of profit and overneads	•	1370			₹	117.14
	Add cess	@	1%			₹	1.17
	Cost of one no. push cock Say					₹ ₹	118.31 118.30
19.57	Providing and fixing PTMT, push cock of approved quality	and colour					
19.57.2	15 mm nominal bore, 80mm long, Weighing not less than						
Code	Description Details of cost for one no. Materials:	Unit	Quantity		Rate		Amount
19112	P.T.M.T. push cock 12mm dia 20 mm BSP TOTAL	each	1.00	₹	78.00	₹	78.00 78.00
	Add for carriage of materials and fixing charges etc.[L.S] TOTAL	@	1.0%			₹	0.78 78.78
	Add for Sundries and contingencies TOTAL	@	3.0%			₹	2.36 81.14
	Add for water charges TOTAL	@	1.0 %			₹ ₹	0.81 81.95
	Add GST (multiplying factor)		0.1405			₹	11.51
	Add for contractor's profit and overheads	@	15%			₹	93.46 14.02
						₹	107.48
	Add cess	@	1%			₹	1.07
	Cost of one no. push cock Say					₹	108.55 108.60
19.58	Providing and fixing PTMT grating of approved quality and	d colour.					
	Circular type. 100 mm nominal dia.						
Code	Description Details of cost for one no.	Unit	Quantity		Rate		Amount
19113	Materials: 100mm dia P.T.M.T. grating TOTAL	each	1.00	₹	24.00	₹	24.00 24.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1.0%			₹	0.24 24.24
	Add for Sundries and contingencies	@	3.0%			₹	0.73
	TOTAL		4.0.0/			₹	24.97
	Add for water charges TOTAL	@	1.0 %			₹ ₹	0.25 25.22
	Add GST (multiplying factor)		0.1405			₹ ₹	3.54 28.76
	Add for contractor's profit and overheads	@	15%			₹	4.31
		_	-01			₹	33.07 0.33
	Add cess	@	1%				
	Cost of one no. grating Say					₹	33.40 33.40

19.58 Providing and fixing PTMT grating of approved quality and colour.

19.58.1 Circular type.

19.58.1.2 125 mm nominal dia with 25 mm waste hole.

Code	Description	Unit	Quantity	Rate	Α	mount
	Details of cost for one no.					
	Materials:					
19115	125 mm dia P.T.M.T. grating	each	1.00	₹ 34.00	₹	34.00
	TOTAL				₹	34.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1.0%		₹	0.34
	TOTAL				₹	34.34
	Add for Sundries and contingencies	@	3.0%		₹	1.03
	TOTAL				₹	35.37
	Add for water charges	@	1.0 %		₹	0.35
	TOTAL				₹	35.72
	Add GST (multiplying factor)		0.1405		₹	5.02
					₹	40.74
	Add for contractor's profit and overheads	@	15%		₹	6.11
					₹	46.85
	Add cess	@	1%		₹	0.47
	Cost of one no. grating				₹	47.32
	Say				₹	47.30

19.58 Providing and fixing PTMT grating of approved quality and colour.

19.58.2 Rectangular type with openable circular lid.

19.58.2.1 150 mm nominal size square 100 mm diameter of the inner hinged round grating.

	130 min nominal size square 100 min diameter of the miner	•		_			
Code	Description	Unit	Quantity	Ra	ate	Α	mount
	Details of cost for one no.						
	Materials:						
19116	150mm size square P.T.M.T. grating	each	1.00	₹	124.00	₹	124.00
	TOTAL					₹	124.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1.0%			₹	1.24
	TOTAL					₹	125.24
	Add for Sundries and contingencies	@	3.0%			₹	3.76
	TOTAL					₹	129.00
	Add for water charges	@	1.0 %			₹	1.29
	TOTAL					₹	130.29
	Add GST (multiplying factor)		0.1405			₹	18.31
						₹	148.60
	Add for contractor's profit and overheads	@	15%			₹	22.29
						₹	170.89
	Add cess	@	1%			₹	1.71
	Cost of one no. grating					₹	172.60
	Say					₹	172.60

AIR VALVE & WATER METER (BULK TYPE)

19.59 Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately):

19.59.1 Code	50 mm dia Description Details of cost for 10 nos. double acting air valve Materials:	Unit	Quantity		Rate		Amount
	Dia of pipe = 50 mm						
	Dia of Flange (out to out) = (170 x 170) mm						
	Size of rubber Insertation = 0.029 sqm.						
19117	50 mm dia, double acting air valve	each	10.00	₹	3,950.00	₹	39,500.00
19012	3 mm thick Rubber Insertation	each	10.00	₹	13.00	₹	130.00
19079	16 mm dia 60 mm long Bolts & Nuts	each	40.00	₹	11.00	₹	440.00
	Labour:						
	For laving & joining						

For laying & joining

0215 F 0212 H	Foreman Fitter (grade-I) Helper FOTAL	Day Day Day	0.150 0.500 0.500	₹ ₹	440.00 440.00 310.00	₹ ₹ ₹	66.00 220.00 155.00 40,511.00
e	Add for carriage of materials and Ropes, ballies, white lead etc.[L.S]	@	1%			₹	405.11 40,916.11
А	Add for Sundries and contingencies	@	3.0%			₹	1,227.48
	FOTAL Add for water charges	@	1.0 %			₹	42,143.59 421.44
	TOTAL					₹	42,565.03
А	Add GST (multiplying factor)		0.1405			₹ ₹	5,980.39 48,545.42
A	Add for contractor's profit and overheads	@	15%			₹ ₹	7,281.81 55,827.23
C	add cess Cost of 10 nos valves. Cost of one no. valve. Say	@	1%			₹ ₹ ₹	558.27 56,385.50 5,638.55 5,638.60

19.59 Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately):

19.59.2 Code	80 mm dia Description Details of cost for 10 nos. double acting air valve Materials: Dia of pipe = 80 mm Dia of Flange (out to out) = (200 x 200) mm	Unit	Quantity		Rate		Amount
10110	Size of rubber Insertation = 0.04 sqm.		40.00	=	4.040.00	=	40 400 00
19118	80 mm dia, double acting air valve	each	10.00	₹	4,910.00		49,100.00
19012	3 mm thick Rubber Insertation	each	10.00	₹	13.00	₹	130.00
19079	16 mm dia 60 mm long Bolts & Nuts	each	40.00	₹	11.00	₹	440.00
	Labour:						
0040	For laying & joining	5	0.450	•	440.00	-	00.00
0216	Foreman	Day	0.150	₹	440.00	₹	66.00
0215	Fitter (grade-I)	Day	0.600	₹	440.00	₹	264.00
0212	Helper	Day	0.600	<	310.00	₹ ₹	186.00
	TOTAL						50,186.00
	Add for carriage of materials and Ropes, ballies, white lead etc.[L.S] TOTAL	@	1%			₹	501.86 50,687.86
	Add for Sundries and contingencies	@	3.0%			₹	1,520.64
	<u> </u>	@	3.0 /6				
	TOTAL		4.0.0/			₹	52,208.50
	Add for water charges	@	1.0 %			₹	522.08
	TOTAL		0.1405			₹	52,730.58
	Add GST (multiplying factor)		0.1405			₹ ₹	7,408.65
	And for contractor's mustit and customers		150/				60,139.23
	Add for contractor's profit and overheads	@	15%			₹	9,020.88
						₹	69,160.11
	Add cess	@	1%			₹	691.60
	Cost of 10 nos valves.					₹	69,851.71
	Cost of one no. valve.					₹	6,985.17
	Say					₹	6,985.20

19.59 Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately):

19.59.3	100 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 nos. double acting air valve				
	Materials:				

	Dia of pipe = 100 mm Dia of Flange (out to out) = (220 x 220) mm Size of rubber Insertation = 0.05 sgm.						
19119	100 mm dia, double acting air valve	each	10.00	₹	6,380.00	₹	63,800.00
19013	3 mm thick Rubber Insertation	each	10.00	₹	18.00	₹	180.00
19079	16 mm dia 60 mm long Bolts & Nuts	each	40.00	₹	11.00	₹	440.00
	Labour:						
	For laying & joining						
0216	Foreman	Day	0.200	₹	440.00	₹	88.00
0215	Fitter (grade-I)	Day	0.800	₹	440.00	₹	352.00
0212	Helper	Day	0.800	₹	310.00	₹	248.00
	TOTAL					₹	65,108.00
	Add for carriage of materials and Ropes, ballies, white lead etc.[L.S]	@	1.0%			₹	651.08
	TOTAL					₹	65,759.08
	Add for Sundries and contingencies	@	3.0%			₹	1,972.77
	TOTAL					₹	67,731.85
	Add for water charges	@	1.0 %			₹	677.32
	TOTAL					₹	68,409.17
	Add GST (multiplying factor)		0.1405			₹	9,611.49
						₹	78,020.66
	Add for contractor's profit and overheads	@	15%			₹	11,703.10
						₹	89,723.76
	Add cess	@	1%			₹	897.24
	Cost of 10 nos valves.					₹	90,621.00
	Cost of one no. valve.					₹	9,062.10
	Say					₹	9,062.10
19.60							

Providing and fixing enclosed type water meter (bulk type) conforming to IS: 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately):

19.60.1	80 mm dia nominal bore						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no. water meter						
	Materials:						
	Dia of pipe = 80 mm						
	Dia of Flange (out to out) = (200 x 200) mm						
	Size of rubber Insertation = 0.04 sqm.						
19120	80 mm dia. water meter (duly tested)	each	1.00	₹	2,340.00		2,340.00
19013	3 mm thick Rubber Insertation (double)	each	2.00	₹	18.00		36.00
19079	16 mm dia 60 mm long Bolts & Nuts	each	8.00	₹	11.00	₹	88.00
	Labour:						
	For laying & joining						
0216	Foreman	Day	0.100	₹	440.00	₹	44.00
0215	Fitter (grade-I)	Day	0.200	₹	440.00	₹	88.00
0212	Helper	Day	0.200	₹	310.00	₹	62.00
	TOTAL					₹	2,658.00
	Add for carriage of materials etc.{L.S.]	@	1.0%			₹	26.58
	TOTAL					₹	2,684.58
	Add for and Ropes, ballies, Pulleys, crowbar and white lead etc.	@	1.0%			₹	26.85
	TOTAL					₹	2,711.43
	Add for Sundries and contingencies	@	3.0%			₹	81.34
	TOTAL					₹	2,792.77
	Add for water charges	@	1.0 %			₹	27.93
	TOTAL					₹	2,820.70
	Add GST (multiplying factor)		0.1405			₹	396.31
						₹	3,217.01
	Add for contractor's profit and overheads	@	15%			₹	482.55
						₹	3,699.56
	Add cess	@	1%			₹	37.00
	Cost of one no water meter.					₹	3,736.56
	Say					₹	3,736.60

Providing and fixing enclosed type water meter (bulk type) conforming to IS: 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately):

19.60.2 Code	100 mm dia nominal bore Description Details of cost for one no. water meter Materials:	Unit	Quantity		Rate		Amount
	Dia of pipe = 100 mm Dia of Flange (out to out) = (220 x 220) mm						
	Size of rubber Insertation = 0.05 sqm.						
19121	100 mm dia. water meter (duly tested)	each	1.00	₹	3,340.00	₹	3,340.00
19013	3 mm thick Rubber Insertation (double)	each	2.00	₹	18.00	₹	36.00
19079	16 mm dia 60 mm long Bolts & Nuts	each	16.00	₹	11.00	₹	176.00
	Labour:						
	For laying & joining						
0216	Foreman	Day	0.125	₹	440.00	₹	55.00
0215	Fitter (grade-I)	Day	0.250	₹	440.00	₹	110.00
0212	Helper	Day	0.250	₹	310.00	₹	77.50
	TOTAL					₹	3,794.50
	Add for carriage of materials etc.{L.S.]	@	1.0%			₹	37.95
	TOTAL					₹	3,832.45
	Add for and Ropes, ballies, Pulleys, crowbar and white lead etc.	@	1.0%			₹	38.32
	TOTAL					₹	3,870.77
	Add for Sundries and contingencies	@	3.0%			₹	116.12
	TOTAL					₹	3,986.89
	Add for water charges	@	1.0 %			₹	39.87
	TOTAL					₹	4,026.76
	Add GST (multiplying factor)		0.1405			₹	565.76
						₹	4,592.52
	Add for contractor's profit and overheads	@	15%			₹	688.88
						₹	5,281.40
	Add cess	@	1%			₹	52.81
	Cost of one no water meter.					₹	5,334.21
	Say					₹	5,334.20

19.60

19.60

Providing and fixing enclosed type water meter (bulk type) conforming to IS: 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately):

19.60.3 Code	150 mm dia nominal bore Description	Unit	Quantity		Rate		Amount
Coue	Details of cost for one no. water meter	Oilit	Quantity		rate		Amount
	Materials:						
	Dia of pipe = 150 mm						
	Dia of Flange (out to out) = (285 x 285) mm						
	Size of rubber Insertation = 0.082 sqm.						
19122	150 mm dia. water meter (duly tested)	each	1.00	₹	5,003.00	₹	5,003.00
19015	3 mm thick Rubber Insertation (double)	each	2.00	₹	20.00	₹	40.00
19081	20 mm dia 65 mm long Bolts & Nuts	each	16.00	₹	15.00	₹	240.00
	Labour:						
	For laying & joining						
0216	Foreman	Day	0.150	₹	440.00	₹	66.00
0215	Fitter (grade-I)	Day	0.350	₹	440.00	₹	154.00
0212	Helper	Day	0.350	₹	310.00	₹	108.50
	TOTAL					₹	5,611.50
	Add for carriage of materials etc.{L.S.]	@	1.0%			₹	56.12
	TOTAL					₹	5,667.62
	Add for and Ropes, ballies, Pulleys, crowbar and white lead etc.	@	1.0%			₹	56.68
	TOTAL					₹	5,724.29

Add for Sundries and contingencies	@	3.0%	₹	171.73
TOTAL			₹	5,896.02
Add for water charges	@	1.0 %	₹	58.96
TOTAL			₹	5,954.98
Add GST (multiplying factor)		0.1405	₹	836.67
			₹	6,791.65
Add for contractor's profit and overheads	@	15%	₹	1,018.75
			₹	7,810.40
Add cess	@	1%	₹	78.10
Cost of one no water meter.			₹	7,888.50
Say			₹	7,888.50

19.60

Providing and fixing enclosed type water meter (bulk type) conforming to IS: 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately):

19.60.4 Code	200 mm dia nominal bore Description Details of cost for one no. water meter Materials:	Unit	Quantity		Rate		Amount
	Dia of pipe = 200 mm						
	Dia of Flange (out to out) = (340 x 340) mm						
	Size of rubber Insertation = 0.116 sqm.						
19123	200 mm dia. water meter (duly tested)	each	1.00	₹	5,750.00	₹	5,750.00
19016	3 mm thick Rubber Insertation (double)	each	2.00	₹	26.00	₹	52.00
19082	20 mm dia 70 mm long Bolts & Nuts	each	16.00	₹	17.00	₹	272.00
	Labour:						
	For laying & joining						
0216	Foreman	Day	0.200	₹	440.00		88.00
0215	Fitter (grade-I)	Day	0.400	₹	440.00	₹	176.00
0212	Helper	Day	0.400	₹	310.00	₹	124.00
	TOTAL					₹	6,462.00
	Add for carriage of materials etc.{L.S.]	@	1.0%			₹	64.62
	TOTAL					₹	6,526.62
	Add for and Ropes, ballies, Pulleys, crowbar and white lead etc.	@	1.0%			₹	65.27
	TOTAL					₹	6,591.89
	Add for Sundries and contingencies	@	3.0%			₹	197.76
	TOTAL					₹	6,789.64
	Add for water charges	@	1.0 %			₹	67.90
	TOTAL					₹	6,857.54
	Add GST (multiplying factor)		0.1405			₹	963.48
		_				₹	7,821.02
	Add for contractor's profit and overheads	@	15%			₹	1,173.15
						₹	8,994.17
	Add cess	@	1%			₹	89.94
	Cost of one no water meter.					₹	9,084.11
	Say					₹	9,084.10

19.61 Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS: 2373:

19.61.1 Code	80 mm dia Description Details of cost for one no. dirt box strainer Materials:	Unit	Quantity		Rate		Amount
19124	80 mm dia. dirt box strainer	each	1.00	₹	2,814.00	₹	2,814.00
19012	3 mm thick Rubber Insertation	each	2.00	₹	13.00	₹	26.00
19079	16 mm dia 60 mm long Bolts & Nuts	each	8.00	₹	11.00	₹	88.00
	Labour: For laying & joining						
0216	Foreman	Day	0.100	₹	440.00	₹	44.00
0215	Fitter (grade-I)	Day	0.200	₹	440.00	₹	88.00

0212	Helper TOTAL	Day	0.400	₹	310.00	₹ ₹	124.00 3,184.00
	Add for carriage of materials etc.{L.S.]	@	1.0%			₹	31.84
	TOTAL					₹	3,215.84
	Add for and Ropes, ballies, Pulleys, crowbar and white lead etc.	@	1.0%			₹	32.16
	TOTAL					₹	3,248.00
	Add for Sundries and contingencies	@	3.0%			₹	97.44
	TOTAL					₹	3,345.44
	Add for water charges	@	1.0 %			₹	33.45
	TOTAL					₹	3,378.89
	Add GST (multiplying factor)		0.1405			₹	474.73
						₹	3,853.62
	Add for contractor's profit and overheads	@	15%			₹	578.04
						₹	4,431.66
	Add cess	@	1%			₹	44.32
	Rate of per box strainer					₹	4,475.98
	Say					₹	4,476.00

19.61 Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS: 2373:

19.61.2 Code	100 mm dia Description Details of cost for one no. dirt box strainer Materials:	Unit	Quantity		Rate		Amount
19125	100 mm dia. dirt box strainer	each	1.00	₹	4,589.00	₹	4,589.00
19013	3 mm thick Rubber Insertation	each	2.00	₹	18.00	₹	36.00
19079	16 mm dia 60 mm long Bolts & Nuts	each	16.00	₹	11.00	₹	176.00
	Labour:						
	For laying & joining						
0216	Foreman	Day	0.125	₹	440.00		55.00
0215	Fitter (grade-I)	Day	0.270	₹	440.00	₹	118.80
0212	Helper	Day	0.270	₹	310.00	₹	83.70
	TOTAL					₹	5,058.50
	Add for carriage of materials etc.{L.S.]	@	1.0%			₹	50.59
	TOTAL					₹	5,109.09
	Add for and Ropes, ballies, Pulleys, crowbar and white lead etc.	@	1.0%			₹	51.09
	TOTAL					₹	5,160.18
	Add for Sundries and contingencies	@	3.0%			₹	154.81
	TOTAL					₹	5,314.98
	Add for water charges	@	1.0 %			₹	53.15
	TOTAL					₹	5,368.13
	Add GST (multiplying factor)		0.1405			₹	754.22
						₹	6,122.35
	Add for contractor's profit and overheads	@	15%			₹	918.35
						₹	7,040.70
	Add cess	@	1%			₹	70.41
	Rate of per box strainer					₹	7,111.11
	Say					₹	7,111.10

19.61 Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS: 2373:

19.61.3 Code	150 mm dia Description	Unit	Quantity		Rate		Amount
	Details of cost for one no. dirt box strainer Materials:						
19126	150 mm dia. dirt box strainer	each	1.00	₹	5,817.00	₹	5,817.00
19015	3 mm thick Rubber Insertation	each	2.00	₹	20.00	₹	40.00
19081	20 mm dia 65 mm long Bolts & Nuts	each	16.00	₹	15.00	₹	240.00

Labour: For laying & joining						
5 Foreman	Day	0.150	₹	440.00	₹	66.00
5 Fitter (grade-I)	Day	0.320	₹	440.00	₹	140.80
P Helper	Day	0.320	₹	310.00	₹	99.20
TOTAL					₹	6,403.00
Add for carriage of materials etc.{L.S.]	@	1.0%			₹	64.03
TOTAL					₹	6,467.03
Add for and Ropes, ballies, Pulleys, crowbar and white lead etc.	@	1.0%			₹	64.67
TOTAL					₹	6,531.70
Add for Sundries and contingencies	@	3.0%			₹	195.95
TOTAL					₹	6,727.65
Add for water charges	@	1.0 %			₹	67.28
TOTAL					₹	6,794.93
Add GST (multiplying factor)		0.1405			₹	954.69
					₹	7,749.62
Add for contractor's profit and overheads	@	15%			₹	1,162.44
					₹	8,912.06
Add cess	@	1%			₹	89.12
Rate of per box strainer					₹	9,001.18
Say					₹	9,001.20

0216 0215 0212

19.61 Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS: 2373:

19.61.4 Code	200 mm dia Description Details of cost for one no. dirt box strainer Materials:	Unit	Quantity		Rate		Amount
19127	200 mm dia. dirt box strainer	each	1.00	₹	8,250.00	₹	8,250.00
19016	3 mm thick Rubber Insertation	each	2.00	₹	26.00	₹	52.00
19082	20 mm dia 70 mm long Bolts & Nuts	each	16.00	₹	17.00	₹	272.00
	Labour:						
	For laying & joining						
0216	Foreman	Day	0.200	₹		₹	88.00
0215	Fitter (grade-I)	Day	0.420	₹	440.00	₹	184.80
0212	Helper	Day	0.420	₹	310.00	₹	130.20
	TOTAL					₹	8,977.00
	Add for carriage of materials etc.{L.S.]	@	1.0%			₹	89.77
	TOTAL					₹	9,066.77
	Add for and Ropes, ballies, Pulleys, crowbar and white lead etc.	@	1.0%			₹	90.67
	TOTAL					₹	9,157.44
	Add for Sundries and contingencies	@	3.0%			₹	274.72
	TOTAL					₹	9,432.16
	Add for water charges	@	1.0 %			₹	94.32
	TOTAL					₹	9,526.48
	Add GST (multiplying factor)		0.1405			₹	1,338.47
						₹	10,864.95
	Add for contractor's profit and overheads	@	15%			₹	1,629.74
						₹	12,494.69
	Add cess	@	1%			₹	124.95
	Rate of per box strainer					₹	12,619.64
	Say					₹	12,619.60

19.62 Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated rod with L.P./ H.P.H.D. plastic ball.

19.62.1 15 mm nominal bore, 105mm long, weighing not less than 138gms.

Code Description Unit Quantity Rate Amount

	Details of cost for one no			
	Materials :			
19128	P.T.M.T. ball cock 15 mm complete with	each	1.00	
	aluminium rod & H.D. ball			
	TOTAL			
	Add for carriage of materials and fixing charges etc.[L.S]	@	1%	
	TOTAL			

P.T.M.T. ball cock 15 mm complete with aluminium rod & H.D. ball	each	1.00	₹	114.00	₹	114.00
TOTAL					₹	114.00
Add for carriage of materials and fixing charges etc.[L.S]	@	1%			₹	1.14
TOTAL					₹	115.14
Add for Sundries and contingencies	@	3.0%			₹	3.45
TOTAL					₹	118.59
Add for water charges	@	1.0 %			₹	1.19
TOTAL					₹	119.78
Add GST (multiplying factor)		0.1405			₹	16.83
					₹	136.61
Add for contractor's profit and overheads	@	15%			₹	20.49
					₹	157.10
Add cess	@	1%			₹	1.57
Cost of one Ball cock					₹	158.67
Say					₹	158.70

19.62 Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated rod with L.P./ H.P.H.D. plastic ball.

19.62.2 20 mm nominal bore, 120mm long, weighing not less than 198gms.

Code	Description	Unit	Quantity		Rate	A	Amount
	Details of cost for one no		_				
	Materials :						
19129	P.T.M.T. ball cock 20 mm complete with	each	1.00	₹	165.00	₹	165.00
	aluminium rod & H.D. ball						
	TOTAL					₹	165.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1%			₹	1.65
	TOTAL					₹	166.65
	Add for Sundries and contingencies	@	3.0%			₹	5.00
	TOTAL	· ·				₹	171.65
	Add for water charges	@	1.0 %			₹	1.72
	TOTAL	0				₹	173.37
	Add GST (multiplying factor)		0.1405			₹	24.36
						₹	197.73
	Add for contractor's profit and overheads	@	15%			₹	29.66
						₹	227.39
	Add cess	@	1%			₹	2.27
	Cost of one Ball cock					₹	229.66
	Say					₹	229.70

19.62 Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated rod with L.P./ H.P.H.D. plastic ball.

19.62.3 25 mm nominal bore, 152mm long, weighing not less than 440gms.

19.02.3	25 min nominal bore, 152min long, weighing not less than	TTUGITIS.					
Code	Description	Unit	Quantity		Rate	-	Amount
	Details of cost for one no						
	Materials :						
19130	P.T.M.T. ball cock 25 mm complete with	each	1.0	₹	320.00	₹	320.00
	aluminium rod & H.D. ball						
	TOTAL					₹	320.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1%			₹	3.20
	TOTAL					₹	323.20
	Add for Sundries and contingencies	@	3.0%			₹	9.70
	TOTAL					₹	332.90
	Add for water charges	@	1.0 %			₹	3.33
	TOTAL					₹	336.23
	Add GST (multiplying factor)		0.1405			₹	47.24
						₹	383.47
	Add for contractor's profit and overheads	@	15%			₹	57.52

		₹	440.99
Add cess	@ 1	% ₹	4.41
Cost of one Ball cock		₹	445.40
Say		₹	445.40

19.62 Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated rod with L.P./ H.P.H.D. plastic ball.

	L.P./ H.P.H.D. plastic ball.						
19.62.4	40mm nominal bore, 206mm long, weighing not less than 690gms.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one no						
	Materials:						
19131	PTMT Ball Cock 40mm Complete with Epoxy Coated						
	Aluminium Road & H.D. Ball	Each	1.00	₹	540.00	₹	540.00
	TOTAL					₹	540.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1%			₹	5.40
	TOTAL					₹	545.40
	Add for Sundries and contingencies	@	3.0%			₹	16.36
	TOTAL					₹	561.76
	Add for water charges	@	1.0 %			₹	5.62
	TOTAL					₹	567.38
	Add GST (multiplying factor)		0.1405			₹	79.72
						₹	647.10
	Add for contractor's profit and overheads	@	15%			₹	97.07
						₹	744.17
	Add cess	@	1%			₹	7.44
	Cost of one Ball cock					₹	751.61
	Say					₹	751.60

19.62 Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated rod with L.P./ H.P.H.D. plastic ball.

19.62.5 Code	50 mm nominal bore, 242 mm long, weighing not less than Description Details of cost for one no Materials:	1240gms. Unit	Quantity		Rate	ı	Amount
19132	Ball Cock 50mm Complete with Epoxy	Each	1.00	₹	950.00	₹	950.00
	Coated Aluminium Road & H.D. Ball TOTAL					₹	950.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1%			₹	9.50
	TOTAL					₹	959.50
	Add for Sundries and contingencies	@	3.0%			₹	28.79
	TOTAL					₹	988.29
	Add for water charges	@	1.0 %			₹	9.88
	TOTAL					₹	998.17
	Add GST (multiplying factor)		0.1405			₹	140.24
						₹	1,138.41
	Add for contractor's profit and overheads	@	15%			₹	170.76
						₹	1,309.17
	Add cess	@	1%			₹	13.09
	Cost of one Ball cock					₹	1,322.26
	Say					₹	1,322.30

19.63 Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85gms.

Code	Description Details of cost for one no	Unit	Quantity		Rate		Amount
19133	Materials : P.T.M.T. angle stop cock 15 mm dia with flange TOTAL	each	1.0	₹	105.00	₹ ₹	105.00 105.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1%			₹	1.05

TOTAL			₹	106.05
Add for Sundries and contingencies	@	3.0%	₹	3.18
TOTAL			₹	109.23
Add for water charges	@	1.0 %	₹	1.09
TOTAL			₹	110.32
Add GST (multiplying factor)		0.1405	₹	15.50
			₹	125.82
Add for contractor's profit and overheads	@	15%	₹	18.87
			₹	144.69
Add cess	@	1%	₹	1.45
Cost of one angle stop cock			₹	146.14
Say			₹	146.10

19.64 Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40gms.

Code	Description Details of cost for one no Materials:	Unit	Quantity		Rate		Amount
19134	Swiveling shower 15 mm TOTAL	each	1.00	₹	75.00	₹ ₹	75.00 75.00
	Add for carriage of materials and fixing charges etc.[L.S] TOTAL	@	1%			₹ ₹	0.75 75.75
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	2.27 78.02
	Add for water charges TOTAL	@	1.0 %			₹ ₹	0.78 78.80
	Add GST (multiplying factor)		0.1405			₹ ₹	11.07 89.87
	Add for contractor's profit and overheads	@	15%			₹ ₹	13.48 103.35 1.03
	Add cess Rate per shower	@	1%			₹	104.38
	Say					₹	104.40

19.65 Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements weighing not less than 106 gms.

Code	Description	Unit	Quantity	Rate	Α	mount
	Details of cost for one no					
	Materials :					
19135	Soap Dish/Holder 138x102x75mm	Each	1.00	₹ 88.00	₹	88.00
	TOTAL				₹	88.00
	Add for carriage of materials and fixing charges etc.[L.S]	@	1%		₹	0.88
	TOTAL				₹	88.88
	Add for Sundries and contingencies	@	3.0%		₹	2.67
	TOTAL				₹	91.55
	Add for water charges	@	1.0 %		₹	0.92
	TOTAL				₹	92.47
	Add GST (multiplying factor)		0.1405		₹	12.99
					₹	105.46
	Add for contractor's profit and overheads	@	15%		₹	15.82
					₹	121.28
	Add cess	@	1%		₹	1.21
	Rate per shower				₹	122.49
	Say				₹	122.50
	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Rate per shower	@	0.1405 15% 1%		₹ ₹ ₹ ₹ ₹	92.47 12.99 105.46 15.82 121.28 1.21

19.66 Providing and laying S&S C.I. Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS: 1538:

19.66.1 Upto 300 mm dia

Code Description Unit Quantity Rate Amount

	Details of cost for 1 quintal						
	Materials :-						
	Consider the avg. wt. of 200mm dia bends for upto						
	300 mm dia bend=0.67q.			_		_	
19192	Cost of specials	quintal	0.67	₹	5,450.00		3,651.50
0407	Carriage of material	t	0.067	₹	102.47	₹	6.87
	Labour:						
	Labour for lowering & laying					₹	-
0215	Fitter (grade-1)	Day	0.120	₹	440.00	₹	52.80
0214	Fitter (2nd Class)	Day	0.200	₹	355.00	₹	71.00
0212	Helper	Day	0.325	₹	310.00	₹	100.75
	TOTAL					₹	3,882.92
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	3.250 %			₹	126.19
						₹	4 000 44
	TOTAL						4,009.11
	Add for Barricading and Night Lamps and watchman	@	2.20%			₹	88.20
	TOTAL					₹	4,097.31
	Add for Sundries and contingencies	@	3.0%			₹	122.92
	TOTAL					₹	4,220.23
	Add for water charges	@	1.0 %			₹	42.20
	TOTAL					₹	4,262.43
	Add GST (multiplying factor)		0.1405			₹	598.87
						₹	4,861.30
	Add for contractor's profit and overheads	@	15%			₹	729.19
						₹	5,590.49
	Add cess	@	1%			₹	55.90
	Cost for 0.67 quintal					₹	5,646.39
	Cost per quintal					₹	8,427.45
	Say					₹	8,427.40

19.66 Providing and laying S&S C.I. Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS: 1538:

19.66.2 Code	Above 300 mm dia Description Details of cost for 1 quintal Materials:- Consider the avg. wt. of 400 mm dia bends for over	Unit	Quantity		Rate		Amount
19193	300 mm dia bend=2.34 q. Cost of specials	quintal	2.340	₹	6,510.00		15,233.40
0407	Carriage of material Labour:	t	0.234	₹	102.47	₹	23.98
	Labour for lowering & laying	_		_		_	
0215	Fitter (grade-1)	Day	0.250	₹	440.00		110.00
0214	Fitter (2nd Class)	Day	0.550	₹	355.00	₹	195.25
0212	Helper	Day	1.200	₹	310.00	₹	372.00
	TOTAL					₹	15,934.63
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	2.0 %			₹	318.69
	TOTAL					₹	16,253.32
	Add for Barricading and Night Lamps and watchman	@	2.0%			₹	325.07
	TOTAL					₹	16,578.39
	Add for Sundries and contingencies	@	3.0%			₹	497.35
	TOTAL		4.0.07			₹	17,075.74
	Add for water charges	@	1.0 %			₹	170.76
	TOTAL					₹	17,246.50
	Add GST (multiplying factor)		0.1405			₹	2,423.13
						₹	19,669.63
	Add for contractor's profit and overheads	@	15%			₹	2,950.44
						₹	22,620.07
	Add cess	@	1%			₹	226.20
	Cost for 2.34 quintal					₹	22,846.27

 Cost per quintal
 ₹
 9,763.36

 Say
 ₹
 9,763.40

19.67 Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS: 13382

19.67.1 Code	Upto 300 mm dia Description Details of cost for 1 quintal Materials:- Consider one No. 250 mm dia bends of weight 0.80 q per bend.	Unit	Quantity		Rate		Amount
19194	Cost of specials	quintal	0.80	₹	9,000.00	₹	7,200.00
0407	Carriage of material Labour:	t	0.080	₹	102.47	₹	8.20
	Labour for lowering & laying						
0215	Fitter (grade-1)	Day	0.100	₹	440.00	₹	44.00
0214	Fitter (2nd Class)	Day	0.125	₹	355.00	₹	44.38
0212	Helper	Day	0.45	₹	310.00	₹	139.50
	TOTAL					₹	7,436.07
	Add for mechanical jointing & Pulleys, Ropes, Crow bars ,ballies etc.	@	2.0 %			₹	148.72
	TOTAL					₹	7,584.79
	Add for Barricading and Night Lamps and watchman	@	2.0 %			₹	151.70
	TOTAL					₹	7,736.49
	Add for Sundries and contingencies	@	3.0%			₹	232.09
	TOTAL					₹	7,968.58
	Add for water charges	@	1.0 %			₹	79.69
	TOTAL					₹	8,048.27
	Add GST (multiplying factor)		0.1405			₹	1,130.78
	A116		4=0/			₹	9,179.05
	Add for contractor's profit and overheads	@	15%			₹ ₹	1,376.86
						₹	10,555.91 105.56
	Add cess	@	1%			•	105.56
	Cost for 0.80 quintal					₹	10,661.47
	Cost per quintal					₹	13,326.84
	Say					₹	13,326.80

19.67 Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS: 13382

19.67.2 Code	Above 300 mm dia Description Details of cost for 1 quintal Materials:- Consider one No. 500 mm dia bends of weight 4.46 q per bend.	Unit	Quantity		Rate		Amount
19195	Cost of specials	quintal	4.46	₹	9,500.00	₹	42,370.00
0407	Carriage of material Labour:	t	0.080	₹	102.47	₹	8.20
	Labour for lowering & laying					₹	-
0215	Fitter (grade-1)	Day	0.400	₹	440.00	₹	176.00
0214	Fitter (2nd Class)	Day	1.100	₹	355.00	₹	390.50
0212	Helper	Day	2.10	₹	310.00	₹	651.00
	TOTAL					₹	43,595.70
	Add for mechanical jointing & Pulleys, Ropes, Crow bars ,ballies etc.	@	2.50 %			₹	1,089.89
	TOTAL					₹	44,685.59
	Add for Barricading and Night Lamps and watchman	@	2.00 %			₹	893.71
	TOTAL					₹	45,579.30

Add for Sundries and contingencies	@	3.0%	₹	1,367.38
TOTAL			₹	46,946.68
Add for water charges	@	1.0 %	₹	469.47
TOTAL			₹	47,416.15
Add GST (multiplying factor)		0.1405	₹	6,661.97
			₹	54,078.12
Add for contractor's profit and overheads	@	15%	₹	8,111.72
			₹	62,189.84
Add cess	@	1%	₹	621.90
Cost for 4.46 quintal			₹	62,811.74
Cost per quintal			₹	14,083.35
Say			₹	14,083.30

19.68 Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS: 9523

19.68.1 Code	Upto 600 mm dia Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying D.I Specials of class K-12 for specials weighing 3.66 q. Materials:- Consider the weight of 2 nos. 500 mm dia 90 degree double socket bends for specials upto 600 mm dia.						
19166	90 degree Double socket Bends	quintal	3.66	₹	13,020.00	₹	47,653.20
	=2x183 kg=366 kg or 3.66 q.						
0407	Carriage of material	t	0.366	₹	102.47	₹	37.50
	Labour: Labour for lowering & laying						
0216	Foreman	Day	0.100	₹	440.00	₹	44.00
0215	Fitter (grade-I)	Day	0.500	₹	440.00	₹	220.00
0212	Helper	Day	2.00	₹	310.00	₹	620.00
	TOTAL					₹	48,574.70
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.10 %			₹	48.57
	TOTAL					₹	48,623.28
	Add for Barricading and Night Lamps and watchman	@	0.15 %			₹	72.93
	TOTAL					₹	48,696.21
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	1,460.89 50,157.10
	Add for water charges TOTAL	@	1.0 %			₹ ₹	501.57 50,658.67
	Add GST (multiplying factor)		0.1405			₹ ₹	7,117.54 57,776.21
	Add for contractor's profit and overheads	@	15%			₹ ₹	8,666.43 66,442.64
	Add cess	@	1%			₹	664.43
	Cost for 3.66 quintal					₹	67,107.07
	Cost per quintal					₹	18,335.27
	Say					₹	18,335.30

19.68 Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS: 9523

19.68.2 Above 600 mm dia

Code Description Unit Quantity Rate Amount

Operational input for providing and laying D.I Specials of class K-12 for specials weighing $\,9.1~q.$

Materials :-

Consider the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia.

19167	90 degree Double socket Bends	quintal	9.10	₹	18,060.00	₹	1,64,346.00
	=2x 455 kg= 910 kg or 9.10 q.						
0407	Carriage of material	t	0.910	₹	102.47	₹	93.25
	Labour:						
	Labour for lowering & laying						
0216	Foreman	Day	0.150	₹	440.00	₹	66.00
0215	Fitter (grade-I)	Day	1.250	₹	440.00	₹	550.00
0212	Helper	Day	5.00	₹	310.00	₹	1,550.00
	TOTAL					₹	1,66,605.25
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.03 %			₹	49.98
	TOTAL					₹	1,66,655.23
	Add for Barricading and Night Lamps and watchman	@	0.05 %			₹	83.33
	TOTAL					₹	1,66,738.56
	Add for Sundries and contingencies	@	3.0%			₹	5,002.16
	TOTAL					₹	1,71,740.71
	Add for water charges	@	1.0 %			₹	1,717.41
	TOTAL						1,73,458.12
	Add GST (multiplying factor)		0.1405			₹	24,370.87
	Add for any top of old any fit and according to		450/			₹	1,97,828.99
	Add for contractor's profit and overheads	@	15%			₹ ₹	29,674.35 2,27,503.34
						₹	2,27,503.34
	Add cess	@	1%			•	2,273.03
	Cost for 9.10 quintal					₹	2,29,778.37
	Cost per quintal					₹	25,250.37
	Say					₹	25,250.40

19.69 Providing and laying D.I Specials of Class K-12suitable for mechanical jointing as per IS :9523

19.69.1 Code	Upto 600 mm dia Description	Unit	Quantity		Rate		Amount
	Operational input for providing and laying D.I Specials of class K-12 for specials weighing 3.66 q. Materials:- Consider the weight of 2 nos. 500 mm dia 90 degree double socket bends for specials upto 600 mm dia.						
19168	90 degree Double socket Bends	quintal	3.66	₹	13,703.00	₹	50,152.98
	=2x183 kg=366 kg or 3.66 q.						
0407	Carriage of material	t	0.366	₹	102.47	₹	37.50
	Labour:						
	Labour for lowering & laying						
0216	Foreman	Day	0.100	₹		₹	44.00
0215	Fitter (grade-I)	Day	0.500	₹	440.00	₹	220.00
0212	Helper	Day	2.00	₹	310.00	₹	620.00
	TOTAL					₹	51,074.48
	Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.10 %			₹	51.07
	TOTAL					₹	51,125.56
	Add for Barricading and Night Lamps and watchman	@	0.15 %			₹	76.69
	TOTAL					₹	51,202.25
	Add for Sundries and contingencies	@	3.0%			₹	1,536.07
	TOTAL					₹	52,738.31
	Add for water charges	@	1.0 %			₹	527.38
	TOTAL					₹	53,265.69
	Add GST (multiplying factor)		0.1405			₹	7,483.83

			₹	60,749.52
Add for contractor's profit and overheads	@	15%	₹	9,112.43
			₹	69,861.95
Add cess	@	1%	₹	698.62
Cost for 3.66 quintal			₹	70,560.57
Cost per quintal			₹	19,278.85
Say			₹	19,278.80

19.69 Providing and laying D.I Specials of Class K-12suitable for mechanical jointing as per IS :9523

1 Q	60.2	Above	ഒററ	mm	dia

Above 600 mm dia Description	Unit	Quantity		Rate		Amount		
Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Materials:- Consider the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia.								
90 degree Double socket Bends	quintal	9.10	₹	19,688.00	₹	1,79,160.80		
=2x 455 kg= 910 kg or 9.10 q.								
Carriage of material	t	0.910	₹	102.47	₹	93.25		
Labour: Labour for lowering & laying								
Foreman	Day	0.150	₹	440.00	₹	66.00		
Fitter (grade-I)	Day	1.250	₹	440.00	₹	550.00		
Helper	Day	5.00	₹	310.00	₹	1,550.00		
TOTAL					₹	1,81,420.05		
Add for Pulleys, Ropes, Crow bars ,ballies etc.	@	0.03 %			₹	54.43		
TOTAL					₹	1,81,474.47		
Add for Barricading and Night Lamps and watchman	@	0.05 %			₹	90.74		
TOTAL					₹	1,81,565.21		
Add for Sundries and contingencies	@	3.0%			₹	5,446.96		
					₹	1,87,012.17		
	@	1.0 %				1,870.12		
		0 1405				1,88,882.29 26,537.96		
Add OOT (multiplying factor)		0.1403				2,15,420.25		
Add for contractor's profit and overheads	@	15%			₹	32,313.04		
					₹	2,47,733.29		
Add cess	@	1%			₹	2,477.33		
Cost for 9.10 quintal					₹	2,50,210.62		
Cost per quintal					₹	27,495.67		
Say					₹	27,495.70		
	Description Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Materials:- Consider the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia. 90 degree Double socket Bends =2x 455 kg= 910 kg or 9.10 q. Carriage of material Labour: Labour for lowering & laying Foreman Fitter (grade-I) Helper TOTAL Add for Pulleys, Ropes, Crow bars ,ballies etc. TOTAL Add for Barricading and Night Lamps and watchman TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add cess Cost for 9.10 quintal Cost per quintal	Description Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Materials:- Consider the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia. 90 degree Double socket Bends =2x 455 kg= 910 kg or 9.10 q. Carriage of material Labour: Labour for lowering & laying Foreman Poay Fitter (grade-I) Helper Day TOTAL Add for Pulleys, Ropes, Crow bars ,ballies etc. TOTAL Add for Sarricading and Night Lamps and watchman TOTAL Add for Sundries and contingencies TOTAL Add GST (multiplying factor) Add ocess Cost for 9.10 quintal Cost per quintal	Description Unit Quantity Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Image: Consider the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia. 90 degree Double socket Bends quintal 9.10 =2x 455 kg= 910 kg or 9.10 q. t 0.910 Carriage of material t 0.910 Labour: Labour for lowering & laying Upay 1.250 Foreman Day 0.150 Fitter (grade-I) Day 5.00 Helper Day 5.00 TOTAL Image: Construction of the properties	Description Unit Quantity Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Materials:- Consider the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia. quintal 9.10 ₹ 90 degree Double socket Bends quintal 9.10 ₹ =2x 455 kg= 910 kg or 9.10 q. Carriage of material t 0.910 ₹ Labour: Labour for lowering & laying Foreman Day 0.150 ₹ Fitter (grade-I) Day 0.150 ₹ TOTAL Add for Pulleys, Ropes, Crow bars ,ballies etc. TOTAL Add for Barricading and Night Lamps and watchman @ 0.05 % TOTAL Add for Sundries and contingencies @ 3.0% TOTAL Add for water charges @ 1.0 % TOTAL Add GST (multiplying factor) <td <="" colspan="2" td=""><td>Description Unit Quantity Rate Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Materials:- Secondary of the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia. 90 degree Double socket Bends quintal 9.10 ₹ 19,688.00 =2x 455 kg= 910 kg or 9.10 q. t 0.910 ₹ 102.47 Labour: Labouring of material t 0.910 ₹ 440.00 Earniage of material Day 0.150 ₹ 440.00 Foreman Day 1.250 ₹ 440.00 Fitter (grade-I) Day 5.00 ₹ 310.00 Helper Day 5.00 ₹ 310.00 TOTAL © 0.03 % Add for Pulleys, Ropes, Crow bars ,ballies etc. © 0.03 % TOTAL O.05 % Add for Barricading and Night Lamps and watchman © 0.05 % TOTAL O.05 % Add for Sundries and contingencies © 3.0% TOTAL O.1405 Add GST (multiplying factor) 0.1405 Add GST (multiplying factor) 0.1405 Add cess © 1% Cost for 9.10 quintal Cost for 9.10 quintal</td><td>Description Unit Quantity Rate Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Waterials :- Secondary of the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia. \$\frac{1}{2}\$ \$\f</td></td>	<td>Description Unit Quantity Rate Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Materials:- Secondary of the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia. 90 degree Double socket Bends quintal 9.10 ₹ 19,688.00 =2x 455 kg= 910 kg or 9.10 q. t 0.910 ₹ 102.47 Labour: Labouring of material t 0.910 ₹ 440.00 Earniage of material Day 0.150 ₹ 440.00 Foreman Day 1.250 ₹ 440.00 Fitter (grade-I) Day 5.00 ₹ 310.00 Helper Day 5.00 ₹ 310.00 TOTAL © 0.03 % Add for Pulleys, Ropes, Crow bars ,ballies etc. © 0.03 % TOTAL O.05 % Add for Barricading and Night Lamps and watchman © 0.05 % TOTAL O.05 % Add for Sundries and contingencies © 3.0% TOTAL O.1405 Add GST (multiplying factor) 0.1405 Add GST (multiplying factor) 0.1405 Add cess © 1% Cost for 9.10 quintal Cost for 9.10 quintal</td> <td>Description Unit Quantity Rate Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Waterials :- Secondary of the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia. \$\frac{1}{2}\$ \$\f</td>		Description Unit Quantity Rate Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Materials:- Secondary of the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia. 90 degree Double socket Bends quintal 9.10 ₹ 19,688.00 =2x 455 kg= 910 kg or 9.10 q. t 0.910 ₹ 102.47 Labour: Labouring of material t 0.910 ₹ 440.00 Earniage of material Day 0.150 ₹ 440.00 Foreman Day 1.250 ₹ 440.00 Fitter (grade-I) Day 5.00 ₹ 310.00 Helper Day 5.00 ₹ 310.00 TOTAL © 0.03 % Add for Pulleys, Ropes, Crow bars ,ballies etc. © 0.03 % TOTAL O.05 % Add for Barricading and Night Lamps and watchman © 0.05 % TOTAL O.05 % Add for Sundries and contingencies © 3.0% TOTAL O.1405 Add GST (multiplying factor) 0.1405 Add GST (multiplying factor) 0.1405 Add cess © 1% Cost for 9.10 quintal Cost for 9.10 quintal	Description Unit Quantity Rate Operational input for providing and laying D.I Specials of class K-12 for specials weighing 9.1 q. Waterials :- Secondary of the weight of dia and 2 nos. 700 mm dia 90 degree double socket bends for specials above 600 mm dia. \$\frac{1}{2}\$ \$\f

	19.70.1	100 m	m dia	pipes
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Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Joints						
	Materials :-						
19151	Cost of rubber gasket for 100 mm dia	Each	10.0	₹	30.00	₹	300.00
	Labour:						
0216	Foreman	Day	0.10	₹	440.00	₹	44.00
0215	Fitter (grade -I)	Day	0.20	₹	440.00	₹	88.00
0212	Helper	Day	0.40	₹	310.00	₹	124.00
	TOTAL					₹	556.00

Add for Barricading and Night Lamps and watchman	@	2.0 %	₹	11.12
TOTAL			₹	567.12
Add fortesting of joints.	@	5.0 %	₹	28.36
TOTAL			₹	595.48
Add for Sundries and contingencies	@	3.0 %	₹	17.86
TOTAL			₹	613.34
Add for water charges	@	1.0 %	₹	6.13
TOTAL			₹	619.47
Add GST (multiplying factor)		0.1405	₹	87.04
			₹	706.51
Add for contractor's profit and overheads	@	15%	₹	105.98
			₹	812.49
Add cess	@	1%	₹	8.12
Cost for 10 nos. joint			₹	820.61
Rate per joint.			₹	82.06
Say			₹	82.10

19.70.2 Code	150 mm dia pipes Description Details of cost for 10 Joints Materials:-	Unit	Quantity	Ra	ate		Amount
19152	Cost of rubber gasket for 150 mm dia	Each	10.0	₹	38.00	₹	380.00
0040	Labour:	5	0.00	-	440.00	-	00.00
0216	Foreman	Day	0.20		440.00	₹	88.00
0215	Fitter (grade -I)	Day	0.40		440.00	₹	176.00
0212	Helper	Day	0.80	₹	310.00	₹	248.00
	TOTAL					₹	892.00
	Add for Barricading and Night Lamps and watchman	@	1.75 %			₹	15.61
	TOTAL					₹	907.61
	Add fortesting of joints.	@	4.5 %			₹	40.84
	TOTAL					₹	948.45
	Add for Sundries and contingencies	@	3.0 %			₹	28.45
	TOTAL					₹	976.91
	Add for water charges	@	1.0 %			₹	9.77
	TOTAL					₹	986.68
	Add GST (multiplying factor)		0.1405			₹	138.63
						₹	1,125.31
	Add for contractor's profit and overheads	@	15%			₹	168.80
						₹	1,294.11
	Add cess	@	1%			₹	12.94
	Cost for 10 nos. joint					₹	1,307.05
	Rate per joint.					₹	130.70
	Say					₹	130.70

19.70.3 Code	200 mm dia pipes Description Details of cost for 10 Joints	Unit	Quantity		Rate		Amount
19153	Materials :- Cost of rubber gasket for 200 mm dia Labour:	Each	10	₹	66.00	₹	660.00
0216	Foreman	Day	0.25	₹	440.00	₹	110.00

0215 0212	Fitter (grade -I) Helper TOTAL	Day Day	0.55 1.1	₹	 ₹ ₹	242.00 341.00 1,353.00
	Add for Barricading and Night Lamps and watchman	@	1.5 %		₹	20.30
	TOTAL				₹	1,373.30
	Add fortesting of joints.	@	4.0 %		₹	54.93
	TOTAL				₹	1,428.23
	Add for Sundries and contingencies	@	3.0 %		₹	42.85
	TOTAL				₹	1,471.07
	Add for water charges	@	1.0 %		₹	14.71
	TOTAL				₹	1,485.78
	Add GST (multiplying factor)		0.1405		₹	208.75
	Add for contractor's profit and overheads	@	15%		₹ ₹	1,694.53 254.18
	Add for contractor a profit and overheads	e	15%		₹	1,948.71
	Add cess	@	1%		₹	19.49
	Cost for 10 nos. joint				₹	1,968.20
	Rate per joint.				₹	196.82
	Say				₹	196.80

19.70.4	250 mm dia pipes						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Joints						
	Materials :-						
19154	Cost of rubber gasket for 250 mm dia	Each	10	₹	78.00	₹	780.00
	Labour:						
0216	Foreman	Day	0.35	₹	440.00	₹	154.00
0215	Fitter (grade -I)	Day	0.70	₹	440.00	₹	308.00
0212	Helper	Day	1.4	₹	310.00	₹	434.00
	TOTAL					₹	1,676.00
	Add for Barricading and Night Lamps and watchman	@	1.0 %			₹	16.76
	TOTAL					₹	1,692.76
	Add fortesting of joints.	@	3.75 %			₹	63.48
	TOTAL					₹	1,756.24
	Add for Sundries and contingencies	@	3.0 %			₹	52.69
	TOTAL					₹	1,808.93
	Add for water charges	@	1.0 %			₹	18.09
	TOTAL					₹	1,827.01
	Add GST (multiplying factor)		0.1405			₹	256.70
						₹	2,083.71
	Add for contractor's profit and overheads	@	15%			₹	312.56
						₹	2,396.27
	Add cess	@	1%			₹	23.96
	Cost for 10 nos. joint					₹	2,420.23
	Rate per joint.					₹	242.02
	Say					₹	242.00

19.70.5 Code	300 mm dia pipes Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Joints						
	Materials :-						
19155	Cost of rubber gasket for 300 mm dia	Each	10.0	₹	116.00	₹	1,160.00

	Labour:			_			
0216	Foreman	Day	0.35	₹	440.00	₹	154.00
0215	Fitter (grade -I)	Day	0.75	₹	440.00	₹	330.00
0212	Helper	Day	1.50	₹	310.00	₹	465.00
	TOTAL					₹	2,109.00
	Add for Barricading and Night Lamps and watchman	@	1.0 %			₹	21.09
	TOTAL					₹	2,130.09
	Add fortesting of joints.	@	3.5 %			₹	74.55
	TOTAL					₹	2,204.64
	Add for Sundries and contingencies	@	3.0 %			₹	66.14
	TOTAL					₹	2,270.78
	Add for water charges	@	1.0 %			₹	22.71
	TOTAL					₹	2,293.49
	Add GST (multiplying factor)		0.1405			₹	322.24
						₹	2,615.73
	Add for contractor's profit and overheads	@	15%			₹	392.36
						₹	3,008.09
	Add cess	@	1%			₹	30.08
	Cost for 10 nos. joint					₹	3,038.17
	Rate per joint.					₹	303.82
	Say					₹	303.80

19.70.6 Code	350 mm dia pipes Description Details of cost for 10 Joints Materials:-	Unit	Quantity	Rate		Amount
19156	Cost of rubber gasket for 350 mm dia	Each	10.0	₹ 132.00	₹	1,320.00
	Labour:					
0216	Foreman	Day	0.35	₹ 440.00	₹	154.00
0215	Fitter (grade -I)	Day		₹ 440.00	₹	352.00
0212	Helper	Day	1.60	₹ 310.00	₹	496.00
	TOTAL				₹	2,322.00
	Add for Barricading and Night Lamps and watchman	@	1.0 %		₹	23.22
	TOTAL				₹	2,345.22
	Add fortesting of joints.	@	3.5 %		₹	82.08
	TOTAL				₹	2,427.30
	Add for Sundries and contingencies	@	3.0 %		₹	72.82
	TOTAL				₹	2,500.12
	Add for water charges	@	1.0 %		₹	25.00
	TOTAL				₹	2,525.12
	Add GST (multiplying factor)		0.1405		₹	354.78
					₹	2,879.90
	Add for contractor's profit and overheads	@	15%		₹	431.99
					₹	3,311.89
	Add cess	@	1%		₹	33.12
	Cost for 10 nos. joint				₹	3,345.01
	Rate per joint.				₹	334.50
	Say				₹	334.50

19.70 Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:

19.70.7 400 mm dia pipes

Code Description Unit Quantity Rate Amount

Details of cost for 10 Joints

	Materials :-						
19157	Cost of rubber gasket for 400 mm dia	Each	10	₹	242.00	₹	2,420.00
	Labour:	_		_		_	
0216	Foreman	Day	0.50	₹		₹	220.00
0215	Fitter (grade -I)	Day	1.15	₹		₹	506.00
0212	Helper	Day	2	₹	310.00	₹	620.00
	TOTAL					₹	3,766.00
	Add for Barricading and Night Lamps and watchman	@	1.0 %			₹	37.66
	TOTAL					₹	3,803.66
	Add fortesting of joints.	@	3.25 %			₹	123.62
	TOTAL					₹	3,927.28
	Add for Sundries and contingencies	@	3.0 %			₹	117.82
	TOTAL					₹	4,045.10
	Add for water charges	@	1.0 %			₹	40.45
	TOTAL					₹	4,085.55
	Add GST (multiplying factor)		0.1405			₹	574.02
						₹	4,659.57
	Add for contractor's profit and overheads	@	15%			₹	698.94
						₹	5,358.51
	Add cess	@	1%			₹	53.59
	Cost for 10 nos. joint					₹	5,412.10
	Rate per joint.					₹	541.21
	Say					₹	541.20

19.70.8 Code	450 mm dia pipes Description Details of cost for 10 Joints Materials:	Unit	Quantity		Rate		Amount
19158	Cost of rubber gasket for 450 mm dia	Each	10.0	₹	284.00	₹	2,840.00
	Labour:						
0216	Foreman	Day	0.55	₹		₹	242.00
0215	Fitter (grade -I)	Day	1.25	₹	440.00	₹	550.00
0212	Helper	Day	2.25	₹	310.00	₹	697.50
	TOTAL					₹	4,329.50
	Add for Barricading and Night Lamps and watchman	@	0.75 %			₹	32.47
	TOTAL					₹	4,361.97
	Add fortesting of joints.	@	3.0 %			₹	130.86
	TOTAL					₹	4,492.83
	Add for Sundries and contingencies	@	3.0 %			₹	134.78
	TOTAL					₹	4,627.62
	Add for water charges	@	1.0 %			₹	46.28
	TOTAL					₹	4,673.89
	Add GST (multiplying factor)		0.1405			₹	656.68
						₹	5,330.57
	Add for contractor's profit and overheads	@	15%			₹	799.59
						₹	6,130.16
	Add cess	@	1%			₹	61.30
	Cost for 10 nos. joint					₹	6,191.46
	Rate per joint.					₹	619.15
	Say					₹	619.10

19.70 Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:

19.70.9 500 mm dia pipes

Code Description Unit Quantity Rate Amount

	Details of cost for 10 Joints						
	Materials :-						
19159	Cost of rubber gasket for 500 mm dia	Each	10.0	₹	305.00	₹	3,050.00
	Labour:			_			
0216	Foreman	Day	0.60	₹	440.00	₹	264.00
0215	Fitter (grade -I)	Day	1.30	₹	440.00	₹	572.00
0212	Helper	Day	2.40	₹	310.00	₹	744.00
	TOTAL					₹	4,630.00
	Add for Barricading and Night Lamps and watchman	@	0.75 %			₹	34.73
	TOTAL					₹	4,664.73
	Add fortesting of joints.	@	3.0 %			₹	139.94
	TOTAL					₹	4,804.67
	Add for Sundries and contingencies	@	3.0 %			₹	144.14
	TOTAL					₹	4,948.81
	Add for water charges	@	1.0 %			₹	49.49
	TOTAL					₹	4,998.29
	Add GST (multiplying factor)		0.1405			₹	702.26
						₹	5,700.55
	Add for contractor's profit and overheads	@	15%			₹	855.08
						₹	6,555.63
	Add cess	@	1%			₹	65.56
	Cost for 10 nos. joint					₹	6,621.19
	Rate per joint.					₹	662.12
	Say					₹	662.10

19.70.10 Code	600 mm dia pipes Description Details of cost for 10 Joints Materials:-	Unit	Quantity	F	Rate		Amount
19160	Cost of rubber gasket for 600 mm dia	Each	10	₹	383.00	₹	3,830.00
	Labour:						
0216	Foreman	Day	0.75	₹	440.00	₹	330.00
0215	Fitter (grade -I)	Day	1.80	₹	440.00	₹	792.00
0212	Helper	Day	3.3	₹	310.00	₹	1,023.00
	TOTAL					₹	5,975.00
	Add for Barricading and Night Lamps and watchman	@	0.75 %			₹	44.81
	TOTAL					₹	6,019.81
	Add fortesting of joints.	@	2.50 %			₹	150.50
	TOTAL					₹	6,170.31
	Add for Sundries and contingencies	@	3.0 %			₹	185.11
	TOTAL					₹	6,355.42
	Add for water charges	@	1.0 %			₹	63.55
	TOTAL					₹	6,418.97
	Add GST (multiplying factor)		0.1405			₹	901.87
						₹	7,320.84
	Add for contractor's profit and overheads	@	15%			₹	1,098.13
						₹	8,418.97
	Add cess	@	1%			₹	84.19
	Cost for 10 nos. joint					₹	8,503.16
	Rate per joint.					₹	850.32
	Say					₹	850.30

19.70.11	650 mm dia pipes						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Joints						
	Materials :-						
19161	Cost of rubber gasket for 650 mm dia	Each	10	₹	578.00	₹	5,780.00
	Labour:						
0216	Foreman	Day	0.80	₹	440.00	₹	352.00
0215	Fitter (grade -I)	Day	2.00	₹	440.00	₹	880.00
0212	Helper	Day	4	₹	310.00	₹	1,240.00
	TOTAL					₹	8,252.00
	Add for Barricading and Night Lamps and watchman	@	0.5 %			₹	41.26
	TOTAL					₹	8,293.26
	TOTAL						•
	Add fortesting of joints.	@	2.15 %			₹	178.31
	TOTAL					₹	8,471.57
	Add for Sundries and contingencies	@	3.0 %			₹	254.15
	TOTAL					₹	8,725.71
	Add for water charges	@	1.0 %			₹	87.26
	TOTAL					₹	8,812.97
	Add GST (multiplying factor)		0.1405			₹	1,238.22
						₹	10,051.19
	Add for contractor's profit and overheads	@	15%			₹	1,507.68
						₹	11,558.87
	Add cess	@	1%			₹	115.59
	Cost for 10 nos. joint	-				₹	11,674.46
	Rate per joint.					₹	1,167.45
	Say					₹	1,167.40

19.70 Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:

19.70.12	700 mm dia pipes						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Joints						
	Materials :-						
19162	Cost of rubber gasket for 700 mm dia	Each	10	₹	693.00	₹	6,930.00
	Labour:						
0216	Foreman	Day	1.00	₹		₹	440.00
0215	Fitter (grade -I)	Day	2.15	₹	440.00	₹	946.00
0212	Helper	Day	4.3	₹	310.00	₹	1,333.00
	TOTAL					₹	9,649.00
	Add for Barricading and Night Lamps and watchman	@	0.5 %			₹	48.25
	TOTAL					₹	9,697.25
	Add fortesting of joints.	@	2.0 %			₹	193.94
	TOTAL					₹	9,891.19
	Add for Sundries and contingencies	@	3.0 %			₹	296.74
	TOTAL					₹	10,187.93
	Add for water charges	@	1.0 %			₹	101.88
	TOTAL					₹	10,289.80
	Add GST (multiplying factor)		0.1405			₹	1,445.72
						₹	11,735.52
	Add for contractor's profit and overheads	@	15%			₹	1,760.33
						₹	13,495.85
	Add cess	@	1%			₹	134.96
	Cost for 10 nos. joint					₹	13,630.81
	Rate per joint.					₹	1,363.08
	Say					₹	1,363.10

19.70 Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:

19.70.13 Code	800 mm dia pipes Description Details of cost for 10 Joints Materials:-	Unit	Quantity	Rate		Amount
19163	Cost of rubber gasket for 800 mm dia Labour:	Each	10.0	₹ 761.00	₹	7,610.00
0216 0215 0212	Foreman Fitter (grade -I)	Day Day Day	2.25	₹ 440.00 ₹ 440.00 ₹ 310.00	₹ ₹	484.00 990.00 1,364.00
0212	TOTAL Helper	Day	4.40	310.00	₹	10,448.00
	Add for Barricading and Night Lamps and watchman	@	0.5 %		₹	52.24
	TOTAL				₹	10,500.24
	Add fortesting of joints.	@	1.75 %		₹	183.75
	TOTAL				₹	10,683.99
	Add for Sundries and contingencies	@	3.0 %		₹	320.52
	TOTAL				₹	11,004.51
	Add for water charges	@	1.0 %		₹	110.05
	TOTAL Add GST (multiplying factor)		0.1405		₹	11,114.56 1,561.60
	Add for contractor's profit and overheads	@	15%		₹ ₹	12,676.16 1,901.42 14,577.58
	Add cess	@	1%		₹	145.78
	Cost for 10 nos. joint				₹	14,723.36
	Rate per joint. Say				₹ ₹	1,472.34 1,472.30

19.70 Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:

19.70.14 Code	900 mm dia pipes Description Details of cost for 10 Joints Materials:-	Unit	Quantity		Rate		Amount
19164	Cost of rubber gasket for 900 mm dia Labour:	Each	10.0	₹	1,008.00	₹	10,080.00
0216 0215 0212	Foreman Fitter (grade -I) Helper TOTAL	Day Day Day	1.20 2.50 5.30	₹ ₹	440.00 440.00 310.00	₹ ₹ ₹	528.00 1,100.00 1,643.00 13,351.00
	Add for Barricading and Night Lamps and watchman	@	0.3 %			₹	40.05
	TOTAL					₹	13,391.05
	Add fortesting of joints.	@	1.5 %			₹	200.87
	TOTAL					₹	13,591.92
	Add for Sundries and contingencies	@	3.0 %			₹	407.76
	TOTAL					₹	13,999.68
	Add for water charges TOTAL	@	1.0 %			₹	140.00 14,139.67
	Add GST (multiplying factor)		0.1405			₹	1,986.62 16,126.29
	Add for contractor's profit and overheads	@	15%			₹ ₹	2,418.94 18,545.23
	Add cess	@	1%			₹	185.45
	Cost for 10 nos. joint					₹	18,730.68
	Rate per joint.					₹	1,873.07
	Say					₹	1,873.10

19.70 Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:

19.70.15	1000 mm dia pipes						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 Joints						
	Materials :-						
19165	Cost of rubber gasket for 1000 mm dia	Each	10	₹	1,202.00	₹	12,020.00
	Labour:						
0216	Foreman	Day	1.30	₹	440.00	₹	572.00
0215	Fitter (grade -I)	Day	2.80	₹	440.00	₹	1,232.00
0212	Helper	Day	5.8	₹	310.00	₹	1,798.00
	TOTAL					₹	15,622.00
	Add for Barricading and Night Lamps and watchman	@	0.25 %			₹	39.06
	TOTAL					₹	15,661.06
	Add fortesting of joints.	@	1.25 %			₹	195.76
	TOTAL					₹	15,856.82
	Add for Sundries and contingencies	@	3.0 %			₹	475.70
	TOTAL					₹	16,332.52
	Add for water charges	@	1.0 %			₹	163.33
	TOTAL					₹	16,495.85
	Add GST (multiplying factor)		0.1405			₹	2,317.67
						₹	18,813.52
	Add for contractor's profit and overheads	@	15%			₹	2,822.03
						₹	21,635.55
	Add cess	@	1%			₹	216.36
	Cost for 10 nos. joint					₹	21,851.91
	Rate per joint.					₹	2,185.19
	Say					₹	2,185.20

19.71.1 Code	100 mm dia C.I. Double Flanged Pipe Description Details of cost for 5 metre Materials:- 100 mm dia. cast iron pipes double flanged weight of 1 m pipe = 27.00 kg Weight of 5 m pipes 27.00x5 = 135.00 Kg	Unit	Quantity		Rate		Amount
19196	Cost of pipe	metre	5.00	₹	1,376.00	₹	6,880.00
0456	Carriage of pipes	100 metre	5.00	₹	251.98	₹	12.60
(A)	Labour For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	1.35	₹	148.24	₹	200.13
	TOTAL					₹	7,092.73
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	206.78
	TOTAL					₹	7,299.51
	Add for water charges (except "A") TOTAL	@	1.0 %			₹ ₹	70.99 7,370.50
	Add GST (multiplying factor) (except "A")		0.1405			₹	1,007.44 8,377.94
	Add for contractor's profit and overheads (except "A")	@	15%			₹ ₹	1,226.67 9,604.61
	Add cess (except "A")	@	1%			₹	94.04
	Cost for 5 mtr. Rate per mtr. Say	_				₹ ₹	9,698.65 1,939.73 1,939.70

19.71.2 150 mm dia C.I. Double Flanged Pipe Unit Code Description Quantity Rate **Amount** Details of cost for 5 metre Materials :-150 mm dia. cast iron pipes double flanged weight of 1m pipe = 44.10 kg Weight of 5 m pipes: 44.10 x 5 = 220.50 Kg=2.21q 19197 Cost of pipe metre 5.00 2,150.00 ₹ 10,750.00 ₹ 0458 Carriage of pipes 100 metre 5.00 419.97 21.00 Labour (A) For lowering & laying Rate same as per item no 19.23 quintal 2.21 ₹ 148.24 ₹ 327.62 SH: Water Supply TOTAL ₹ 11,098.62 ₹ Add for Sundries and contingencies (except "A") @ 3.0 % 323.13 ₹ 11,421.75 ₹ Add for water charges (except "A") (a) 1.0 % 110.94 **TOTAL** ₹ 11.532.69 Add GST (multiplying factor) (except "A") 0.1405 1,574.31 ₹ 13,107.00 Add for contractor's profit and overheads (except "A") 15% 1,916.91 @ ₹ 15,023.91 ₹ Add cess (except "A") 146.96 1% @ Cost for 5 mtr. ₹ 15,170.87 Rate per mtr. ₹ 3,034.17 Say ₹ 3,034.20

19.71 Providing and laying Double Flanged (screwed/ welded) Centrifugally (Spun) Cast Iron, Class B (IS: 1536):

19.71.3 Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 5 metre						
	Materials :-						
	200 mm dia. cast iron pipes double flanged weight of 1 m pipe = 63.50 kg						
	Weight of 5 m pipes: 63.50 x 5 = 317.50 Kg=3.18 q						
19198	Cost of pipe	metre	5.00	₹	3,400.00	₹	17,000.00
0459	Carriage of pipes	100 metre	5.00	₹	681.03		34.05
	Labour						
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	3.18	₹	148.24	₹	471.41
	TOTAL					₹	17,505.47
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	511.02
	TOTAL					₹	18,016.49
	Add for water charges (except "A")	@	1.0 %			₹	175.45
	TOTAL					₹	18,191.94
	Add GST (multiplying factor) (except "A")		0.1405			₹	2,489.73
						₹	20,681.67
	Add for contractor's profit and overheads (except "A")	@	15%			₹	3,031.54
						₹	23,713.21
	Add cess (except "A")	@	1%			₹	232.42
	Cost for 5 mtr.					₹	23,945.63
	Rate per mtr.					₹	4,789.13
	Say					₹	4,789.10

19.71
Providing and laying Double Flanged (screwed/ welded) Centrifugally (Spun) Cast Iron, Class B (IS: 1536):

19.71.4 250 mm dia C.I. Double Flanged Pipe

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 5 metre						
	Materials :-						
	250 mm dia. cast iron pipes double flanged						
	weight of 1 m pipe = 85.30 kg						
	Weight of 5 m pipes: 85.30 x 5 = 426.50 Kg= 4.27 q						
19199	Cost of pipe	metre	5.00	₹	4,100.00	₹	20,500.00
0460	Carriage of pipes	100 metre	5.00	₹	969.17	₹	48.46
	Labour						
(A)	For lowering & laying Rate same as per item no 19.23	quintal	4.27	₹	148.24	₹	633.00
	SH : Water Supply						
	TOTAL					₹	21,181.46
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	616.45
	TOTAL					₹	21,797.91
	Add for water charges (except "A")	@	1.0 %			₹	211.65
	TOTAL					₹	22,009.56
	Add GST (multiplying factor) (except "A")		0.1405			₹	3,003.41
						₹	25,012.97
	Add for contractor's profit and overheads (except "A")	@	15%			₹	3,657.00
						₹	28,669.96
	Add cess (except "A")	@	1%			₹	280.37
	Cost for 5 mtr.					₹	28,950.33
	Rate per mtr.					₹	5,790.07
	Say					₹	5,790.10

19.71.5 Code	300 mm dia C.I. Double Flanged Pipe Description Details of cost for 5 metre Materials:- 300 mm dia. cast iron pipes double flanged weight of 1 m pipe = 110 kg Weight of 5 m pipes: 110.00 x 5 = 550.00 Kg= 5.50 q	Unit	Quantity		Rate		Amount
19200	Cost of pipe	metre	5.00	₹	5,240.00	₹	26,200.00
0461	Carriage of pipes Labour	100 metre	5.00	₹	1,199.92		60.00
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	5.5	₹	148.24	₹	815.34
	TOTAL					₹	27,075.34
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	787.80
	TOTAL					₹	27,863.14
	Add for water charges (except "A")	@	1.0 %			₹	270.48
	TOTAL Add GST (multiplying factor) (except "A") Add for contractor's profit and overheads (except "A")	@	0.1405 15%			₹ ₹ ₹	28,133.61 3,838.22 31,971.83 4,673.47
	Add cess (except "A")		1%			₹	36,645.30 358.30
	Cost for 5 mtr. Rate per mtr. Say	@	1 70			₹₹	37,003.60 7,400.72 7,400.70

19.71 Providing and laying Double Flanged (screwed/ welded) Centrifugally (Spun) Cast Iron, Class B (IS: 1536):

19.71.6	350 mm dia C.I. Double Flanged Pipe				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 5 metre				
	Materials :-				

350 mm dia. cast iron pipes double flanged weight of 1 m pipe = 135.70 kg
Weight of 5 m pipes: 135.70 x 5 = 678.50 Kg= 6.79 q

19201 0462	Cost of pipe Carriage of pipes Labour	metre 100 metre	5.00 5.00	₹ ₹	6,600.00 1,679.89		33,000.00 83.99
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	6.79	₹	148.24	₹	1,006.57
	TOTAL					₹	34,090.57
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	992.52
	TOTAL					₹	35,083.09
	Add for water charges (except "A")	@	1.0 %			₹	340.77
	TOTAL					₹	35,423.85
	Add GST (multiplying factor) (except "A")		0.1405			₹	4,835.63
						₹	40,259.48
	Add for contractor's profit and overheads (except "A")	@	15%			₹	5,887.94
						₹	46,147.42
	Add cess (except "A")	@	1%			₹	451.41
	Cost for 5 mtr.					₹	46,598.83
	Rate per mtr.					₹	9,319.77
	Say					₹	9,319.80

19.71.7 Code	400 mm dia C.I. Double Flanged Pipe Description Details of cost for 5 metre Materials:- 400 mm dia. cast iron pipes double flanged weight of 1 m pipe = 166.80 kg Weight of 5 m pipes: 166.80 x 5 =834.00 Kg= 8.34 q	Unit	Quantity		Rate		Amount
19202	Cost of pipe	metre	5.00	₹	8,550.00	₹	42,750.00
0463	Carriage of pipes	100 metre	5.00	₹	2,290.76	₹	114.54
(A)	Labour For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	8.34	₹	148.24	₹	1,236.35
	TOTAL					₹	44,100.89
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	1,285.94
	TOTAL					₹	45,386.83
	Add for water charges (except "A")	@	1.0 %			₹	441.50
	TOTAL Add GST (multiplying factor) (except "A") Add for contractor's profit and overheads (except "A")	@	0.1405 15%			₹ ₹ ₹	45,828.33 6,265.17 52,093.50 7,628.57
	Add cess (except "A")		1%			₹	59,722.08 584.86
	Cost for 5 mtr. Rate per mtr. Say	@	170			` ₹ ₹	60,306.93 12,061.39 12,061.40

19.71 Providing and laying Double Flanged (screwed/ welded) Centrifugally (Spun) Cast Iron, Class B (IS: 1536):

19.71.8	450 mm dia C.I. Double Flanged Pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 5 metre						
	Materials :-						
	450 mm dia. cast iron pipes double flanged						
	weight of 1 m pipe = 201.60 kg						
	Weight of 5 m pipes: 201.60 x 5 =1008.00 Kg= 10.08 q						
19203	Cost of pipe	metre	5.00	₹	10,900.00	₹	54,500.00
0464	Carriage of pipes	100 metre	5.00	₹	2,799.82	₹	139.99
	Labour						
(A)	For lowering & laying Rate same as per item no 19.23	quintal	10.08	₹	148.24	₹	1,494.30
	SH: Water Supply						
	TOTAL					₹	56,134.29

Add for Sundries and contingencies (except "A")	@	3.0 %	₹	1,639.20
TOTAL			₹	57,773.49
Add for water charges (except "A")	@	1.0 %	₹	562.79
TOTAL			₹	58,336.28
Add GST (multiplying factor) (except "A")		0.1405	₹	7,986.30
			₹	66,322.58
Add for contractor's profit and overheads (except "A")	@	15%	₹	9,724.24
			₹	76,046.82
Add cess (except "A")	@	1%	₹	745.53
Cost for 5 mtr.			₹	76,792.34
Rate per mtr.			₹	15,358.47
Say			₹	15,358.50

19.71.9 Code	500 mm dia C.I. Double Flanged Pipe Description Details of cost for 5 metre Materials:- 500 mm dia. cast iron pipes double flanged weight of 1 m pipe = 234.80 kg	Unit	Quantity		Rate		Amount
	Weight of 5 m pipes: 234.80 x 5 =1174.00 Kg= 11.74 q						
19204	Cost of pipe	metre	5.00		13,560.00		67,800.00
0465	Carriage of pipes	100 metre	5.00	₹	2,799.82	₹	139.99
(A)	Labour For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	11.74	₹	148.24	₹	1,740.38
	TOTAL					₹	69,680.37
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	2,038.20
	TOTAL					₹	71,718.57
	Add for water charges (except "A")	@	1.0 %			₹	699.78
	TOTAL					₹	72,418.35
	Add GST (multiplying factor) (except "A")		0.1405			₹	9,930.26
						₹	82,348.61
	Add for contractor's profit and overheads (except "A")	@	15%			₹	12,091.23
						₹	94,439.84
	Add cess (except "A")	@	1%			₹	926.99
	Cost for 5 mtr.					₹	95,366.84
	Rate per mtr.					₹	19,073.37
	Say					₹	19,073.40

19.71 Providing and laying Double Flanged (screwed/ welded) Centrifugally (Spun) Cast Iron, Class B (IS: 1536):

19.71.10	600 mm dia C.I. Double Flanged Pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 5 metre						
	Materials :-						
	600 mm dia. cast iron pipes double flanged						
	weight of 1 m pipe = 315.30 kg						
	Weight of 5 m pipes: 315.30 x 5 =1576.50 Kg= 15.77 q						
19205	Cost of pipe	metre	5.00	₹	18,800.00	₹	94,000.00
0466	Carriage of pipes	100 metre	5.00	₹	4,199.73	₹	209.99
	Labour						
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	15.77	₹	148.24	₹	2,337.80
	TOTAL					₹	96,547.79
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	2,826.30
	TOTAL					₹	99,374.09
	Add for water charges (except "A")	@	1.0 %			₹	970.36
	TOTAL					₹	1,00,344.45
	Add GST (multiplying factor) (except "A")		0.1405			₹	13,769.93

Add for contractor's profit and overheads (except "A")	@	15%	₹ 1,14,114.38 ₹ 16,766.49 ₹ 1,30,880.87
Add cess (except "A")		1%	₹ 1,285.43
Cost for 5 mtr.	@		₹ 1,32,166.30
Rate per mtr.			₹ 26,433.26
Say			₹ 26,433.30

Code	100 mm dia Ductile Iron Class K-7 pipes Description Operational input for providing & laying S&S Centrifugally t/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)	Unit	Quantity		Rate		Amount
	Materials :-						
	dia D.I Pipes= 17.76 kg/mtr.=22.00x 17.76=390.72 kg= say,3.91q						
19206	19.33.1	metre	22.00	₹	800.00		17,600.00
0423	Carriage of pipes	100 metre	22.00	₹	251.98	₹	55.44
	Labour:						
0216	For lowering & laying Foreman	Dov	0.10	=	440.00	=	44.00
0216	Fitter (grade -I)	Day Day	0.10	₹	440.00		220.00
0213	Helper	Day	1.00	₹	310.00	₹	310.00
02.2	TOTAL	24,			0.0.00	₹	18,229.44
		•				_	
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.25 %			₹	45.57
	TOTAL					₹	18,275.01
	Add for Barricading, Night Lamps and watchman etc.	@	0.20 %			₹	36.55
	TOTAL					₹	18,311.56
	Add for Sundries and contingencies	@	3.0 %			₹	549.35
	TOTAL					₹	18,860.91
	Add for water charges	@	1.0 %			₹	188.61
	TOTAL					₹	19,049.52
	Add GST (multiplying factor)		0.1405			₹	2,676.46
	Add for contractor's profit and accuracy	@	1 = 0/			₹	21,725.97
	Add for contractor's profit and overheads	@	15%			₹	3,258.90 24,984.87
	Add cess	@	1%			₹	249.85
	Cost for 22.00 mtr/3.91 g.	<u> </u>				₹	25,234.72
	Rate per mtr.					₹	1,147.03
	Say					₹	1,147.00

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.2	150 mm dia Ductile Iron Class K-7 pipes						
Code	Description	Unit	Quantity		Rate		Amount
	Operational input for providing & laying S&S Centrifugally t/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)						
	Materials :-						
150 mm	dia D.I Pipes=26.27 kg/mtr.=22.00x 26.27=578 kg= say,5.78 q						
19207	Cost of pipe	metre	22.00	₹	1,170.00	₹	25,740.00
0409	Carriage of pipes	100 metre	22.00	₹	419.97	₹	92.39
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.20	₹	440.00	₹	88.00
0215	Fitter (grade -I)	Day	0.60	₹	440.00	₹	264.00
0212	Helper	Day	1.70	₹	310.00	₹	527.00
	TOTAL					₹	26,711.39
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.20 %			₹	53.42
	TOTAL					₹	26,764.82

Add for Barricading, Night Lamps and watchman etc.	@	0.15 %	₹	40.15
TOTAL			₹	26,804.96
Add for Sundries and contingencies	@	3.0 %	₹	804.15
TOTAL			₹	27,609.11
Add for water charges	@	1.0 %	₹	276.09
TOTAL			₹	27,885.20
Add GST (multiplying factor)		0.1405	₹	3,917.87
			₹	31,803.07
Add for contractor's profit and overheads	@	15%	₹	4,770.46
			₹	36,573.54
Add cess	@	1%	₹	365.74
Cost for 22.00 mtr/ 5.78 q.			₹	36,939.27
Rate per mtr.			₹	1,679.06
Say			₹	1,679.10

Code	200 mm dia Ductile Iron Class K-7 pipes Description Operational input for providing & laying S&S Centrifugally //ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)	Unit	Quantity		Rate		Amount
	Materials :-						
	dia D.I Pipes=36.15 kg/mtr.=22.00x 36.15=795 kg= say, 7.95 q			_		_	
19208	Cost of pipe	metre	22.00	₹	1,660.00		36,520.00
0410	Carriage of pipes	100 metre	22.00	₹	681.03	₹	149.83
	Labour:						
0040	For lowering & laying	D	0.05	-	440.00	-	440.00
0216 0215	Foreman	Day	0.25 0.75	₹	440.00 440.00	₹ ₹	110.00 330.00
0215	Fitter (grade -I) Helper	Day Day	0.75 2.35	₹	310.00	۲ ₹	728.50
0212	,	Day	2.33	•	310.00		
	TOTAL					₹	37,838.33
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.15 %			₹	56.76
	TOTAL					₹	37,895.08
	Add for Barricading, Night Lamps and watchman etc.	@	0.12 %			₹	45.47
	TOTAL					₹	37,940.56
	Add for Sundries and contingencies	@	3.0 %			₹	1,138.22
	TOTAL					₹	39,078.77
	Add for water charges	@	1.0 %			₹	390.79
	TOTAL					₹	39,469.56
	Add GST (multiplying factor)		0.1405			₹	5,545.47
						₹	45,015.04
	Add for contractor's profit and overheads	@	15%			₹	6,752.26
						₹	51,767.29
	Add cess	@	1%			₹	517.67
	Cost for 22.00 mtr/7.95 q.					₹	52,284.96
	Rate per mtr.					₹	2,376.59
	Say					₹	2,376.60

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.4	250 mm dia Ductile Iron Class K-7 pipes						
Code	Description	Unit	Quantity		Rate		Amount
(Operational input for providing & laying S&S Centrifugally						
cast	/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)						
	Materials :-						
250 mm o	dia D.I Pipes=48.00 kg/mtr.=22.00x 48.00=1050kg= say, 10.5 q						
19209	Cost of pipe	metre	22.00	₹	2,250.00	₹	49,500.00
0411	Carriage of pipes	100 metre	22.00	₹	969.17	₹	213.22
	Labour:						

	For lowering & laying						
0216	Foreman	Day	0.35	₹	440.00	₹	154.00
0215	Fitter (grade -I)	Day	1.10	₹	440.00	₹	484.00
0212	Helper	Day	3.00	₹	310.00	₹	930.00
	TOTAL					₹	51,281.22
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.12 %			₹	61.54
	TOTAL					₹	51,342.75
	Add for Barricading, Night Lamps and watchman etc.	@	0.10 %			₹	51.34
	TOTAL					₹	51,394.10
	Add for Sundries and contingencies	@	3.0 %			₹	1,541.82
	TOTAL					₹	52,935.92
	Add for water charges	@	1.0 %			₹	529.36
	TOTAL					₹	53,465.28
	Add GST (multiplying factor)		0.1405			₹	7,511.87
						₹	60,977.15
	Add for contractor's profit and overheads	@	15%			₹	9,146.57
						₹	70,123.72
	Add cess	@	1%			₹	701.24
	Cost for 22.00 mtr/10.50 q.					₹	70,824.96
	Rate per mtr.					₹	3,219.32
	Say					₹	3,219.30

Code	300 mm dia Ductile Iron Class K-7 pipes Description Operational input for providing & laying S&S Centrifugally /ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)	Unit	Quantity		Rate		Amount
	Materials :-						
	dia D.I Pipes=60.49 kg/mtr.=22.00x 60.49=1331 kg= say, 13.31 q						
	Cost of pipe	metre	22.00	₹	2,363.00		51,986.00
0412	Carriage of pipes	100 metre	22.00	₹	1,199.92	₹	263.98
	Labour:						
0040	For lowering & laying	Davi	0.40	3	440.00	=	470.00
0216 0215	Foreman Fitter (grade -I)	Day Day	0.40 1.35	₹	440.00 440.00		176.00 594.00
0213	Helper	Day	4.00	₹			1,240.00
0212	•	Бау	4.00	`	310.00	₹	54,259.98
	TOTAL					•	54,259.96
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.10 %			₹	54.26
	TOTAL					₹	54,314.24
	Add for Barricading, Night Lamps and watchman etc.	@	0.08 %			₹	43.45
	TOTAL					₹	54,357.69
	Add for Sundries and contingencies	@	3.0 %			₹	1,630.73
	TOTAL					₹	55,988.42
	Add for water charges	@	1.0 %			₹	559.88
	TOTAL					₹	56,548.31
	Add GST (multiplying factor)		0.1405			₹	7,945.04
						₹	64,493.35
	Add for contractor's profit and overheads	@	15%			₹	9,674.00
						₹	74,167.35
	Add cess	@	1%			₹	741.67
	Cost for 22.00 mtr/ 13.31 q.					₹	74,909.02
	Rate per mtr.					₹	3,404.96
	Say					₹	3,405.00

19.72.6 350 mm dia Ductile Iron Class K-7 pipes

19.72

Code Description Unit Quantity Rate Amount

Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

IVI	ate	па	пэ	

	Materials :-						
350 mm	dia D.I Pipes=79.73 kg/mtr.=22.00x 79.73=1754 kg= say, 17.54 q						
19211	Cost of pipe	metre	22.00	₹	2,783.00		61,226.00
0462	Carriage of pipes	100 metre	22.00	₹	1,679.89	₹	369.58
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.40	₹		₹	176.00
0215	Fitter (grade -I)	Day	1.60	₹	440.00	₹	704.00
0212	Helper	Day	5.25	₹	310.00	₹	1,627.50
	TOTAL					₹	64,103.08
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.10 %			₹	64.10
	TOTAL					₹	64,167.18
	Add for Barricading, Night Lamps and watchman etc.	@	0.07 %			₹	44.92
	TOTAL					₹	64,212.10
	Add for Sundries and contingencies	@	3.0 %			₹	1,926.36
	TOTAL					₹	66,138.46
	Add for water charges	@	1.0 %			₹	661.38
	TOTAL					₹	66,799.84
	Add GST (multiplying factor)		0.1405			₹	9,385.38
						₹	76,185.22
	Add for contractor's profit and overheads	@	15%			₹	11,427.78
						₹	87,613.00
	Add cess	@	1%			₹	876.13
	Cost for 22.00 mtr/ 17.54 q.					₹	88,489.13
	Rate per mtr.					₹	4,022.23
	Say					₹	4,022.20

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

Code	400 mm dia Ductile Iron Class K-7 pipes Description Operational input for providing & laying S&S Centrifugally //ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)	Unit	Quantity		Rate		Amount
	Materials :-						
	dia D.I Pipes=94.80 kg/mtr.=22.00x 94.80=2086 kg= say, 20.86 q						
19212	Cost of pipe	metre	22.00	₹	3,334.00		73,348.00
0463	Carriage of pipes	100 metre	22.00	₹	2,290.76	₹	503.97
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.50	₹	440.00	₹	220.00
0215	Fitter (grade -I)	Day	2.00	₹	440.00	₹	880.00
0212	Helper	Day	6.00	₹	310.00	₹	1,860.00
	TOTAL					₹	76,811.97
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.09 %			₹	69.13
	TOTAL					₹	76,881.10
	Add for Barricading, Night Lamps and watchman etc.	@	0.065 %			₹	49.97
	TOTAL					₹	76,931.07
	Add for Sundries and contingencies	@	3.0 %			₹	2,307.93
	TOTAL					₹	79,239.00
	Add for water charges	@	1.0 %			₹	792.39
	TOTAL					₹	80,031.39
	Add GST (multiplying factor)		0.1405			₹	11,244.41
						₹	91,275.80
	Add for contractor's profit and overheads	@	15%			₹	13,691.37
						₹	1,04,967.17
	Add cess	@	1%			₹	1,049.67

 Cost for 22.00 mtr/ 20.86 q.
 ₹
 1,06,016.85

 Rate per mtr.
 ₹
 4,818.95

 Say
 ₹
 4,818.90

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.8 450 mm dia Ductile Iron Class K-7 pipes Code Description Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long) Materials:- 450 mm dia D.I Pipes=110.97kg/mtr.=22.00x 110.97=2441 kg= say, 24.41	Unit 1 q	Quantity		Rate		Amount
19213 Cost of pipe 0464 Carriage of pipes Labour:	metre 100 metre	22.00 22.00	₹	4,045.00 2,799.82		88,990.00 615.96
For lowering & laying 0216 Foreman 0215 Fitter (grade -I) 0212 Helper TOTAL	Day Day Day	0.65 2.50 7.00	₹ ₹	440.00 440.00 310.00		286.00 1,100.00 2,170.00 93,161.96
Add for Ropes, Pulleys, Crow bars & ballies etc. TOTAL	@	0.085 %			₹ ₹	79.19 93,241.15
Add for Barricading, Night Lamps and watchman etc. TOTAL	@	0.06 %			₹	55.94 93,297.09
Add for Sundries and contingencies TOTAL	@	3.0 %			₹	2,798.91 96,096.01
Add for water charges TOTAL Add GST (multiplying factor)	@	1.0 % 0.1405			₹ ₹	960.96 97,056.97 13,636.50 1,10,693.47
Add for contractor's profit and overheads	@	15%			₹ ₹	16,604.02 1,27,297.49
Add cess Cost for 22.00 mtr/ 24.41 q. Rate per mtr. Say	@	1%			₹ ₹ ₹	1,272.97 1,28,570.46 5,844.11 5,844.10

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

Code	500 mm dia Ductile Iron Class K-7 pipes Description	Unit	Quantity		Rate		Amount
	Operational input for providing & laying S&S Centrifugally /ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)						
500 mm (Materials :- dia D.I Pipes=129.48 kg/mtr.=22.00x 129.48=2849 kg= say, 28.49	q					
19214	Cost of pipe	metre	22.00	₹	4,568.00	₹	1,00,496.00
0465	Carriage of pipes	100 metre	22.00	₹	2,799.82	₹	615.96
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.85	₹	440.00	₹	374.00
0215	Fitter (grade -I)	Day	3.00	₹	440.00	₹	1,320.00
0212	Helper	Day	8.00	₹	310.00	₹	2,480.00
	TOTAL					₹	1,05,285.96
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.075 %			₹	78.96
	TOTAL					₹	1,05,364.92
	Add for Barricading, Night Lamps and watchman etc.	@	0.05 %			₹	52.68
	TOTAL					₹	1,05,417.61
	Add for Sundries and contingencies	@	3.0 %			₹	3,162.53

TOTAL			₹ 1,08,580.14
Add for water charges	@	1.0 %	₹ 1,085.80
TOTAL			₹ 1,09,665.94
Add GST (multiplying factor)		0.1405	₹ 15,408.06
			₹ 1,25,074.00
Add for contractor's profit and overheads	@	15%	₹ 18,761.10
			₹ 1,43,835.10
Add cess	@	1%	₹ 1,438.35
Cost for 22.00 mtr/ 28.49 q.			₹ 1,45,273.45
Rate per mtr.			₹ 6,603.34
Say			₹ 6,603.30

Code	600 mm dia Ductile Iron Class K-7 pipes Description	Unit	Quantity		Rate		Amount
	Operational input for providing & laying S&S Centrifugally t/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)		,				
	Materials :-						
600 mm	dia D.I Pipes=168.68 kg/mtr.=22.00x 168.68=3710 kg= say, 37.1	0 q					
19215	Cost of pipe	metre	22.00	₹	,		1,29,360.00
0466	Carriage of pipes	100 metre	22.00	₹	4,199.73	₹	923.94
	Labour:						
	For lowering & laying						
0216	Foreman	Day	1.00	₹	440.00	₹	440.00
0215	Fitter (grade -I)	Day	3.50	₹	440.00	₹	1,540.00
0212	Helper	Day	11.00	₹	310.00	₹	3,410.00
	TOTAL					₹	1,35,673.94
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.06 %			₹	81.40
	TOTAL					₹	1,35,755.34
	Add for Barricading, Night Lamps and watchman etc.	@	0.04 %			₹	54.30
	TOTAL					₹	1,35,809.65
	Add for Sundries and contingencies	@	3.0 %			₹	4,074.29
	TOTAL					₹	1,39,883.94
	Add for water charges	@	1.0 %			₹	1,398.84
	TOTAL					₹	1,41,282.78
	Add GST (multiplying factor)		0.1405			₹	19,850.23
	, , ,					₹	1,61,133.01
	Add for contractor's profit and overheads	@	15%			₹	24,169.95
	·					₹	1,85,302.96
	Add cess	@	1%			₹	1,853.03
	Cost for 22.00 mtr/ 37.10 g.	G				₹	1,87,155.99
	Rate per mtr.					₹	8,507.09
	Say					₹	8,507.10
19.72	Providing and laying S&S Centrifugally Cast (Spun) / Ducti	le Iron Pipes	conforming	to I	S : 8329		
	700 mm dia Ductile Iron Class K-7 pipes	Unit	Joinoining		0.0020		

19.72.11	700 mm dia Ductile Iron Class K-7 pipes						
Code	Description	Unit	Quantity		Rate		Amount
	Operational input for providing & laying S&S Centrifugally ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)						
	Materials :-						
700 mm d	lia D.I Pipes=217.54 kg/mtr.=22.00x 217.54=4786 kg= say, 47.86	q					
19216	Cost of pipe	metre	22.00	₹	7,665.00	₹	1,68,630.00
0418	Carriage of pipes	100 metre	22.00	₹	4,199.73	₹	923.94
	Labour:						
	For lowering & laying						
0216	Foreman	Day	1.20	₹	440.00	₹	528.00
0215	Fitter (grade -I)	Day	4.00	₹	440.00	₹	1,760.00
0212	Helper	Day	14.50	₹	310.00	₹	4,495.00

TOTAL			₹ 1,76,336.94
Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.05 %	₹ 88.17
TOTAL			₹ 1,76,425.11
Add for Barricading, Night Lamps and watchman etc.	@	0.03 %	₹ 52.93
TOTAL			₹ 1,76,478.04
Add for Sundries and contingencies	@	3.0 %	₹ 5,294.34
TOTAL			₹ 1,81,772.38
Add for water charges	@	1.0 %	₹ 1,817.72
TOTAL			₹ 1,83,590.10
Add GST (multiplying factor)		0.1405	₹ 25,794.41 ₹ 2,09,384.51
Add for contractor's profit and overheads	@	15%	₹ 31,407.68
			₹ 2,40,792.19
Add cess	@	1%	₹ 2,407.92
Cost for 22.00 mtr/ 47.86 q.			₹ 2,43,200.11
Rate per mtr.			₹ 11,054.55
Say			₹ 11,054.60

	800 mm dia Ductile Iron Class K-7 pipes Description	Unit	Quantity		Rate		Amount
	Operational input for providing & laying S&S Centrifugally	Oilit	Quantity		Nate		Amount
cast	/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)						
	Materials :-						
	dia D.I Pipes=267.10 kg/mtr.=22.00x 267.10=5876 kg= say, 58.76						
	Cost of pipe	metre	22.00	₹			2,10,210.00
0419	Carriage of pipes	100 metre	22.00	₹	4,199.73	₹	923.94
	Labour:						
2212	For lowering & laying	_	4.50	-	4.40.00	-	
0216	Foreman	Day	1.50	₹	440.00		660.00
0215	Fitter (grade -I)	Day	5.50	₹	440.00	₹	2,420.00
0212	Helper	Day	17.00	₹	310.00	₹	5,270.00
	TOTAL					₹	2,19,483.94
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.04 %			₹	87.79
	TOTAL					₹	2,19,571.73
	Add for Barricading, Night Lamps and watchman etc.	@	0.025 %			₹	54.89
	TOTAL					₹	2,19,626.63
	Add for Sundries and contingencies	@	3.0 %			₹	6,588.80
	TOTAL					₹	2,26,215.43
	Add for water charges	@	1.0 %			₹	2,262.15
	TOTAL					₹	2,28,477.58
	Add GST (multiplying factor)		0.1405			₹	32,101.10
						₹	2,60,578.68
	Add for contractor's profit and overheads	@	15%			₹	39,086.80
						₹	2,99,665.48
	Add cess	@	1%			₹	2,996.65
	Cost for 22.00 mtr/ 58.76 q.					₹	3,02,662.14
	Rate per mtr.					₹	13,757.37
	Say					₹	13,757.40

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.13 900 mm dia Ductile Iron Class K-7 pipes

Code Description Unit Quantity Rate Amount

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length ($4\ pipes\ 5.50\ mtr\ long)$

900 mm	dia D.I Pipes=321.29 kg/mtr.=22.00x 321.29=7068 kg= say, 70.68	q					
19218	Cost of pipe	metre	22.00	₹	12,390.00	₹	2,72,580.00
0420	Carriage of pipes	100 metre	22.00	₹	6,299.59	₹	1,385.91
	Labour:						
	For lowering & laying						
0216	Foreman	Day	1.75	₹	440.00	₹	770.00
0215	Fitter (grade -I)	Day	6.00	₹	440.00	₹	2,640.00
0212	Helper	Day	21.50	₹	310.00	₹	6,665.00
	TOTAL					₹	2,84,040.91
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.03 %			₹	85.21
	TOTAL					₹	2,84,126.12
	Add for Barricading, Night Lamps and watchman etc.	@	0.015 %			₹	42.62
	TOTAL					₹	2,84,168.74
	Add for Sundries and contingencies	@	3.0 %			₹	8,525.06
	TOTAL					₹	2,92,693.80
	Add for water charges	@	1.0 %			₹	2,926.94
	TOTAL					₹	2,95,620.74
	Add GST (multiplying factor)		0.1405			₹	41,534.71
						₹	3,37,155.46
	Add for contractor's profit and overheads	@	15%			₹	50,573.32
						₹	3,87,728.77
	Add cess	@	1%			₹	3,877.29
	Cost for 22.00 mtr/ 70.68 q.					₹	3,91,606.06
	Rate per mtr.					₹	17,800.28
	Say					₹	17,800.30

Code	1000 mm dia Ductile Iron Class K-7 pipes Description Operational input for providing & laying S&S Centrifugally t/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)	Unit	Quantity		Rate		Amount
	Materials :-						
	n dia D.I Pipes=380.19 kg/mtr.=22.00x 380.19=8364 kg= say, 83.6	•					
19219	Cost of pipe	metre	22.00		•		2,84,130.00
0408	Carriage of pipes	100 metre	22.00	₹	8,399.45	₹	1,847.88
	Labour:						
2212	For lowering & laying	_		-	440.00	-	
0216	Foreman	Day	2.00	₹			880.00
0215	Fitter (grade -I)	Day	7.00	₹		₹	3,080.00
0212	Helper	Day	25.00	<	310.00	₹	7,750.00
	TOTAL					₹	2,97,687.88
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.02 %			₹	59.54
	TOTAL					₹	2,97,747.42
	Add for Barricading, Night Lamps and watchman etc.	@	0.01%			₹	29.77
	TOTAL					₹	2,97,777.19
	Add for Sundries and contingencies	@	3.0 %			₹	8,933.32
	TOTAL					₹	3,06,710.51
	Add for water charges	@	1.0 %			₹	3,067.11
	TOTAL					₹	3,09,777.61
	Add GST (multiplying factor)		0.1405			₹	43,523.75
						₹	3,53,301.37
	Add for contractor's profit and overheads	@	15%			₹	52,995.20
						₹	4,06,296.57
	Add cess	@	1%			₹	4,062.97
	Cost for 22.00 mtr/ 83.64 q.					₹	4,10,359.54
	Rate per mtr.					₹	18,652.71
	Say					₹	18,652.70

19.72.15 100 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

n/	late	\r:	2	•_

19136	Ductile Iron class K - 9 pipe Conforming to I.S. 8329						
	100 mm dia	metre	22.00	₹	860.00	₹	18,920.00
0456	Carriage of pipes	100 metre	22.00	₹	251.98	₹	55.44
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.10	₹	440.00	₹	44.00
0215	Fitter (grade -I)	Day	0.50	₹	440.00	₹	220.00
0212	Helper	Day	1.00	₹	310.00	₹	310.00
	TOTAL					₹	19,549.44
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.25 %			₹	48.87
	TOTAL					₹	19,598.31
	Add for Barricading, Night Lamps and watchman etc.	@	0.20 %			₹	39.20
	TOTAL					₹	19,637.51
	Add for Sundries and contingencies	@	3.0 %			₹	589.13
	TOTAL					₹	20,226.63
	Add for water charges	@	1.0 %			₹	202.27
	TOTAL					₹	20,428.90
	Add GST (multiplying factor)		0.1405			₹	2,870.26
						₹	23,299.16
	Add for contractor's profit and overheads	@	15%			₹	3,494.87
						₹	26,794.03
	Add cess	@	1%			₹	267.94
	Cost for 22.00 mtr					₹	27,061.97
	Rate per mtr.					₹	1,230.09
	Say					₹	1,230.10

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.16 150 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

	iviateriais :-						
19137	Ductile Iron class K - 9 pipe Conforming to I.S. 8329			_		_	
	150 mm dia	metre	22.00	₹	1,250.00		27,500.00
0458	Carriage of pipes	100 metre	22.00	₹	419.97	₹	92.39
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.20	₹	440.00	₹	88.00
0215	Fitter (grade -I)	Day	0.60	₹	440.00	₹	264.00
0212	Helper	Day	1.70	₹	310.00	₹	527.00
	TOTAL					₹	28,471.39
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.20 %			₹	56.94
	TOTAL					₹	28,528.34
	Add for Barricading, Night Lamps and watchman etc.	@	0.15 %			₹	42.79
	TOTAL					₹	28,571.13
	Add for Sundries and contingencies	@	3.0 %			₹	857.13
	TOTAL					₹	29,428.26
	Add for water charges	@	1.0 %			₹	294.28
	TOTAL					₹	29,722.55
	Add GST (multiplying factor)		0.1405			₹	4,176.02
						₹	33,898.56
	Add for contractor's profit and overheads	@	15%			₹	5,084.78

			₹	38,983.35
Add cess	@	1%	₹	389.83
Cost for 22.00 mtr			₹	39,373.18
Rate per mtr.			₹	1,789.69
Say			₹	1,789.70

19.72.17 200 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

19138	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200 mm dia	metre	22.00	₹	1,750.00	₹	38,500.00
0459	Carriage of pipes Labour: For lowering & laying	100 metre	22.00	₹	681.03	₹	149.83
0216	Foreman	Day	0.25	₹	440.00	₹	110.00
0210	Fitter (grade -I)	Day	0.25	₹	440.00	₹	330.00
0213	Helper	Day	2.35	₹	310.00	₹	728.50
	TOTAL	- 2.7				₹	39,818.33
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.15 %			₹	59.73
	TOTAL					₹	39,878.05
	Add for Barricading, Night Lamps and watchman etc.	@	0.12 %			₹	47.85
	TOTAL					₹	39,925.91
	Add for Sundries and contingencies	@	3.0 %			₹	1,197.78
	TOTAL					₹	41,123.68
	Add for water charges	@	1.0 %			₹	411.24
	TOTAL Add GST (multiplying factor)		0.1405			₹ ₹	41,534.92 5,835.66 47,370.58
	Add for contractor's profit and overheads	@	15%			₹ ₹	7,105.59 54,476.17
	Add cess	@	1%			₹	544.76
	Cost for 22.00 mtr					₹	55,020.93
	Rate per mtr.					₹	2,500.95
	Say					₹	2,501.00

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.18 250 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

	materiale i						
19139	Ductile Iron class K - 9 pipe Conforming to I.S. 8329						
	250 mm dia	metre	22.00	₹	2,310.00	₹	50,820.00
0460	Carriage of pipes	100 metre	22.00	₹	969.17	₹	213.22
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.35	₹	440.00	₹	154.00
0215	Fitter (grade -I)	Day	1.10	₹	440.00	₹	484.00
0212	Helper	Day	3.00	₹	310.00	₹	930.00
	TOTAL					₹	52,601.22
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.12 %			₹	63.12
	TOTAL					₹	52,664.34
	Add for Barricading, Night Lamps and watchman etc.	@	0.10 %			₹	52.66
	TOTAL					₹	52,717.00
	Add for Sundries and contingencies	@	3.0 %			₹	1,581.51

TOTAL			₹	54,298.51
Add for water charges	@	1.0 %	₹	542.99
TOTAL			₹	54,841.50
Add GST (multiplying factor)		0.1405	₹	7,705.23
			₹	62,546.73
Add for contractor's profit and overheads	@	15%	₹	9,382.01
			₹	71,928.74
Add cess	@	1%	₹	719.29
Cost for 22.00 mtr			₹	72,648.03
Rate per mtr.			₹	3,302.18
Say			₹	3,302.20

19.72.19 300 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

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19140	Ductile Iron class K - 9 pipe Conforming to I.S. 8329						
	300 mm dia	metre	22.00	₹	2,888.00	₹	63,536.00
0461	Carriage of pipes	100 metre	22.00	₹	1,199.92	₹	263.98
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.40	₹	440.00	₹	176.00
0215	Fitter (grade -I)	Day	1.35	₹	440.00	₹	594.00
0212	Helper	Day	4.00	₹	310.00	₹	1,240.00
	TOTAL					₹	65,809.98
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.10 %			₹	65.81
	TOTAL					₹	65,875.79
	Add for Barricading, Night Lamps and watchman etc.	@	0.08 %			₹	52.70
	TOTAL					₹	65,928.49
	Add for Sundries and contingencies	@	3.0 %			₹	1,977.85
	TOTAL					₹	67,906.35
	Add for water charges	@	1.0 %			₹	679.06
	TOTAL					₹	68,585.41
	Add GST (multiplying factor)		0.1405			₹	9,636.25
						₹	78,221.66
	Add for contractor's profit and overheads	@	15%			₹	11,733.25
						₹	89,954.91
	Add cess	@	1%			₹	899.55
	Cost for 22.00 mtr					₹	90,854.46
	Rate per mtr.					₹	4,129.75
	Say					₹	4,129.70

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.20 350 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

	Materials:						
19141	Ductile Iron class K - 9 pipe Conforming to I.S. 8329						
	350 mm dia	metre	22.00	₹	3,518.00	₹	77,396.00
0462	Carriage of pipes	100 metre	22.00	₹	1,679.89	₹	369.58
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.40	₹	440.00	₹	176.00
0215	Fitter (grade -I)	Day	1.60	₹	440.00	₹	704.00
0212	Helper	Day	5.25	₹	310.00	₹	1,627.50
	TOTAL					₹	80,273.08

Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.10 %	₹ 80.27
TOTAL			₹ 80,353.35
Add for Barricading, Night Lamps and watchman etc.	@	0.07 %	₹ 56.25
TOTAL			₹ 80,409.60
Add for Sundries and contingencies	@	3.0 %	₹ 2,412.29
TOTAL			₹ 82,821.88
Add for water charges	@	1.0 %	₹ 828.22
TOTAL			₹ 83,650.10
Add GST (multiplying factor)		0.1405	₹ 11,752.84
			₹ 95,402.94
Add for contractor's profit and overheads	@	15%	₹ 14,310.44
			₹ 1,09,713.38
Add cess	@	1%	₹ 1,097.13
Cost for 22.00 mtr/ 17.54 q.			₹ 1,10,810.52
Rate per mtr.			₹ 5,036.84
Say			₹ 5,036.80

19.72.21 400 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

n/	late	\r:	2	•_

19142	Ductile Iron class K - 9 pipe Conforming to I.S. 8329						
	400 mm dia	metre	22.00	₹	4,850.00	₹	1,06,700.00
0463	Carriage of pipes	100 metre	22.00	₹	2,290.76	₹	503.97
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.50	₹	440.00	₹	220.00
0215	Fitter (grade -I)	Day	2.00	₹	440.00	₹	880.00
0212	Helper	Day	6.00	₹	310.00	₹	1,860.00
	TOTAL					₹	1,10,163.97
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.09 %			₹	99.15
	TOTAL					₹	1,10,263.11
	Add for Barricading, Night Lamps and watchman etc.	@	0.065 %			₹	71.67
	TOTAL					₹	1,10,334.79
	Add for Sundries and contingencies	@	3.0 %			₹	3,310.04
	TOTAL					₹	1,13,644.83
	Add for water charges	@	1.0 %			₹	1,136.45
	TOTAL					₹	1,14,781.28
	Add GST (multiplying factor)		0.1405			₹	16,126.77
						₹	1,30,908.05
	Add for contractor's profit and overheads	@	15%			₹	19,636.21
						₹	1,50,544.25
	Add cess	@	1%			₹	1,505.44
	Cost for 22.00 mtr/ 20.86 q.					₹	1,52,049.70
	Rate per mtr.					₹	6,911.35
	Say					₹	6,911.30

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 19.72.22 450 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

22.0 mil. length (+ pipes 5.50

19143	B Ductile Iron class K - 9 pipe Conforming to I.S. 8329						
	450 mm dia	metre	22.00	₹	5,350.00	₹	1,17,700.00
0464	Carriage of pipes	100 metre	22.00	₹	2,799.82	₹	615.96
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.65	₹	440.00	₹	286.00

0215 0212	Fitter (grade -I) Helper TOTAL	Day Day	2.50 7.00	₹	440.00 310.00	₹ ₹	1,100.00 2,170.00 1,21,871.96
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.085 %			₹	103.59
	TOTAL					₹	1,21,975.55
	Add for Barricading, Night Lamps and watchman etc.	@	0.06 %			₹	73.19
	TOTAL					₹	1,22,048.74
	Add for Sundries and contingencies	@	3.0 %			₹	3,661.46
	TOTAL					₹	1,25,710.20
	Add for water charges	@	1.0 %			₹	1,257.10
	TOTAL					₹	1,26,967.30
	Add GST (multiplying factor)		0.1405			₹ ₹	17,838.91 1,44,806.21
	Add for contractor's profit and overheads	@	15%			₹	21,720.93 1,66,527.14
	Add cess	@	1%			₹	1,665.27
	Cost for 22.00 mtr/ 24.41 q.					₹	1,68,192.41
	Rate per mtr.					₹	7,645.11
	Say					₹	7,645.10

19.72.23 500 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

	Materials :-						
19144	Ductile Iron class K - 9 pipe Conforming to I.S. 8329						
	500 mm dia	metre	22.00	₹	6,850.00	₹	1,50,700.00
0465	Carriage of pipes	100 metre	22.00	₹	2,799.82	₹	615.96
	Labour:						
	For lowering & laying						
0216	Foreman	Day	0.85	₹	440.00	₹	374.00
0215	Fitter (grade -I)	Day	3.00	₹	440.00	₹	1,320.00
0212	Helper	Day	8.00	₹	310.00	₹	2,480.00
	TOTAL					₹	1,55,489.96
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.075 %			₹	116.62
	TOTAL					₹	1,55,606.58
	Add for Barricading, Night Lamps and watchman etc.	@	0.05 %			₹	77.80
	TOTAL					₹	1,55,684.38
	Add for Sundries and contingencies	@	3.0 %			₹	4,670.53
	TOTAL					₹	1,60,354.91
	Add for water charges	@	1.0 %			₹	1,603.55
	TOTAL					₹	1,61,958.46
	Add GST (multiplying factor)		0.1405			₹	22,755.16
						₹	1,84,713.63
	Add for contractor's profit and overheads	@	15%			₹	27,707.04

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.24 600 mm dia Ductile Iron Class K-9 pipes

Cost for 22.00 mtr/ 28.49 q.

Add cess

Say

Rate per mtr.

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

Materials :-

₹ 2,12,420.67

1%

(a)

2,124.21

9,752.04

9,752.00

2,14,544.88

₹

19145	Ductile Iron class K - 9 pipe Conforming to I.S. 8329			_		_	
	600 mm dia	metre	22.00	₹	•		1,74,636.00
0466	Carriage of pipes	100 metre	22.00	₹	4,199.73	₹	923.94
	Labour:						
	For lowering & laying						
0216	Foreman	Day	1.00	₹	440.00	₹	440.00
0215	Fitter (grade -I)	Day	3.50	₹	440.00	₹	1,540.00
0212	Helper	Day	11.00	₹	310.00	₹	3,410.00
	TOTAL					₹	1,80,949.94
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.06 %			₹	108.57
	TOTAL					₹	1,81,058.51
	Add for Barricading, Night Lamps and watchman etc.	@	0.04 %			₹	72.42
	TOTAL					₹	1,81,130.93
	Add for Sundries and contingencies	@	3.0 %			₹	5,433.93
	TOTAL					₹	1,86,564.86
	Add for water charges	@	1.0 %			₹	1,865.65
	TOTAL					₹	1,88,430.51
	Add GST (multiplying factor)		0.1405			₹	26,474.49
						₹	2,14,905.00
	Add for contractor's profit and overheads	@	15%			₹	32,235.75
						₹	2,47,140.75
	Add cess	@	1%			₹	2,471.41
	Cost for 22.00 mtr/ 37.10 q.					₹	2,49,612.15
	Rate per mtr.					₹	11,346.01
	Say					₹	11,346.00

19.72.25 700 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

Materials :-

	Materials :-						
19146	Ductile Iron class K - 9 pipe Conforming to I.S. 8329						
	700 mm dia	metre	22.00	₹	11,025.00	₹	2,42,550.00
0418	Carriage of pipes	100 metre	22.00	₹	4,199.73	₹	923.94
	Labour:						
	For lowering & laying						
0216	Foreman	Day	1.20	₹	440.00	₹	528.00
0215	Fitter (grade -I)	Day	4.00	₹	440.00	₹	1,760.00
0212	Helper	Day	14.50	₹	310.00	₹	4,495.00
	TOTAL					₹	2,50,256.94
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.05 %			₹	125.13
	TOTAL					₹	2,50,382.07
	Add for Barricading, Night Lamps and watchman etc.	@	0.03 %			₹	75.11
	TOTAL					₹	2,50,457.18
	Add for Sundries and contingencies	@	3.0 %			₹	7,513.72
	TOTAL					₹	2,57,970.90
	Add for water charges	@	1.0 %			₹	2,579.71
	TOTAL					₹	2,60,550.61
	Add GST (multiplying factor)		0.1405			₹	36,607.36
						₹	2,97,157.97
	Add for contractor's profit and overheads	@	15%			₹	44,573.70
						₹	3,41,731.66
	Add cess	@	1%			₹	3,417.32
	Cost for 22.00 mtr/ 47.86 q.					₹	3,45,148.98
	Rate per mtr.					₹	15,688.59
	Say					₹	15,688.60

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.26 750 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

R A	-1-	: .	-1-	_
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	materials :-						
19147	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 750 mm dia	metre	22.00	₹	12 000 00	₹	2,64,000.00
0419	Carriage of pipes	100 metre	22.00		4,199.73		923.94
0110	Labour:	Too mono	22.00	Ì	1,100.10	•	020.01
	For lowering & laying						
0216	Foreman	Day	1.35	₹	440.00	₹	594.00
0215	Fitter (grade -I)	Day	5.00	₹	440.00	₹	2,200.00
0212	Helper	Day	16.00	₹	310.00	₹	4,960.00
	·	24,			0.0.00		2,72,677.94
	TOTAL					•	2,72,077.94
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.045 %			₹	122.71
	TOTAL					₹	2,72,800.65
	Add for Barricading, Night Lamps and watchman etc.	@	0.028 %			₹	76.38
	TOTAL					₹	2,72,877.03
	Add for Sundries and contingencies	@	3.0 %			₹	8,186.31
	TOTAL					₹	2,81,063.34
	Add for water charges	@	1.0 %			₹	2,810.63
	TOTAL					₹	2,83,873.97
	Add GST (multiplying factor)		0.1405			₹	39,884.29
						₹	3,23,758.27
	Add for contractor's profit and overheads	@	15%			₹	48,563.74
						₹	3,72,322.01
	Add cess	@	1%			₹	3,723.22
	Cost for 22.00 mtr/ 47.86 q.					₹	3,76,045.23
	Rate per mtr.					₹	17,092.96
	Say					₹	17,093.00

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.27 800 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

	Materials :-						
19148	Ductile Iron class K - 9 pipe Conforming to I.S. 8329						
	800 mm dia	metre	22.00	₹	12,500.00	₹	2,75,000.00
0419	Carriage of pipes	100 metre	22.00	₹	4,199.73	₹	923.94
	Labour:						
	For lowering & laying						
0216	Foreman	Day	1.50	₹	440.00	₹	660.00
0215	Fitter (grade -I)	Day	5.50	₹	440.00	₹	2,420.00
0212	Helper	Day	17.00	₹	310.00	₹	5,270.00
	TOTAL					₹	2,84,273.94
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.04 %			₹	113.71
	TOTAL					₹	2,84,387.65
	Add for Barricading, Night Lamps and watchman etc.	@	0.025 %			₹	71.10
	TOTAL					₹	2,84,458.75
	Add for Sundries and contingencies	@	3.0 %			₹	8,533.76
	TOTAL					₹	2,92,992.51
	Add for water charges	@	1.0 %			₹	2,929.93
	TOTAL					₹	2,95,922.43
	Add GST (multiplying factor)		0.1405			₹	41,577.10
						₹	3,37,499.54
	Add for contractor's profit and overheads	@	15%			₹	50,624.93
						₹	3,88,124.47
	Add cess	@	1%			₹	3,881.24

 Cost for 22.00 mtr/ 58.76 q.
 ₹ 3,92,005.71

 Rate per mtr.
 ₹ 17,818.44

 Say
 ₹ 17,818.40

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.28 900 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

Materials :-

	Waterials						
19149	Ductile Iron class K - 9 pipe Conforming to I.S. 8329						
	900 mm dia	metre	22.00		•		3,22,300.00
0420	Carriage of pipes	100 metre	22.00	₹	6,299.59	₹	1,385.91
	Labour:						
	For lowering & laying						
0216	Foreman	Day	1.75	₹		₹	770.00
0215	Fitter (grade -I)	Day	6.00	₹	440.00	₹	2,640.00
0212	Helper	Day	21.50	₹	310.00	₹	6,665.00
	TOTAL					₹	3,33,760.91
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.03 %			₹	100.13
	TOTAL					₹	3,33,861.04
	Add for Barricading, Night Lamps and watchman etc.	@	0.015 %			₹	50.08
	TOTAL					₹	3,33,911.12
	Add for Sundries and contingencies	@	3.0 %			₹	10,017.33
	TOTAL					₹	3,43,928.45
	Add for water charges	@	1.0 %			₹	3,439.28
	TOTAL					₹	3,47,367.74
	Add GST (multiplying factor)		0.1405			₹	48,805.17
						₹	3,96,172.90
	Add for contractor's profit and overheads	@	15%			₹	59,425.94
						₹	4,55,598.84
	Add cess	@	1%			₹	4,555.99
	Cost for 22.00 mtr/ 70.68 q.					₹	4,60,154.83
	Rate per mtr.					₹	20,916.13
	Say					₹	20,916.10

19.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329

19.72.29 1000 mm dia Ductile Iron Class K-9 pipes

Operational input for providing & laying S&S Centrifugally cast/ductile iron pipes for 22.0 mtr. length (4 pipes 5.50 mtr long)

19150	Ductile Iron class K - 9 pipe Conforming to I.S. 8329			_	40.450.00	-	
	1000 mm dia	metre	22.00		•		3,61,900.00
0408	Carriage of pipes	100 metre	22.00	₹	8,399.45	₹	1,847.88
	Labour:						
	For lowering & laying						
0216	Foreman	Day	2.00	₹	440.00	₹	880.00
0215	Fitter (grade -I)	Day	7.00	₹	440.00	₹	3,080.00
0212	Helper	Day	25.00	₹	310.00	₹	7,750.00
	TOTAL					₹	3,75,457.88
	Add for Ropes, Pulleys, Crow bars & ballies etc.	@	0.02 %			₹	75.09
	TOTAL					₹	3,75,532.97
	Add for Barricading, Night Lamps and watchman etc.	@	0.01%			₹	37.55
	TOTAL					₹	3,75,570.52
	Add for Sundries and contingencies	@	3.0 %			₹	11,267.12
	TOTAL					₹	3,86,837.64
	Add for water charges	@	1.0 %			₹	3,868.38
	TOTAL					₹	3,90,706.02

Add GST (multiplying factor)		0.1405	₹ 54,894.20
			₹ 4,45,600.21
Add for contractor's profit and overheads	@	15%	₹ 66,840.03
			₹ 5,12,440.24
Add cess	@	1%	₹ 5,124.40
Cost for 22.00 mtr/ 83.64 q.			₹ 5,17,564.65
Rate per mtr.			₹ 23,525.67
Say			₹ 23,525.70

19.73 Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K 9 conforming to IS: 8329:

	30						
19.73.1 Code	100 mm dia Ductile Iron Double Flanged Description Details of cost for 5 metre	Unit	Quantity		Rate		Amount
	Materials :-						
	100 mm dia. ductile iron pipes double flanged						
	Weight of 1m pipe = 21.700 kg						
404-0	Weight of 5 m pipes 21.700x5 = 108.50 Kg						
19170	Ductile Iron Pipe Class K-9 flanges and welding			_		_	
	100mm dia	metre	5.00	₹	1,155.00		5,775.00
0456	Carriage of pipes	100 metre	5.00	₹	251.98	₹	12.60
(4)	Labour		4.00	-	4 40 0 4	-	404.50
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	1.09	₹	148.24	₹	161.59
	TOTAL					₹	5,949.18
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	173.63
	TOTAL					₹	6,122.81
	Add for water charges (except "A")	@	1.0 %			₹	59.61
	TOTAL					₹	6,182.42
	Add GST (multiplying factor) (except "A")		0.1405			₹	845.93
						₹	7,028.35
	Add for contractor's profit and overheads (except "A")	@	15%			₹	1,030.02
						₹	8,058.37
	Add cess (except "A")	@	1%			₹	78.97
	Cost for 5 mtr.					₹	8,137.34
	Rate per mtr.					₹	1,627.47
	_					_	

19.73 Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K 9 conforming to IS: 8329:

Say

19.73.2 Code	150 mm dia Ductile Iron Double Flanged Description	Unit	Quantity		Rate		Amount
	Details of cost for 5 metre						
	Materials :-						
	150 mm dia. ductile iron pipes double flanged						
	Weight of 1m pipe = 32.600 kg						
	Weight of 5m pipes $32.600x5 = 163.00$ Kg						
19171	Ductile Iron Pipe Class K-9 flanges and welding 150						
	dia	metre	5.00	₹	1,733.00	₹	8,665.00
0458	Carriage of pipes	100 metre	5.00	₹	419.97	₹	21.00
	Labour						
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	1.63	₹	148.24	₹	241.64
	TOTAL					₹	8,927.64
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	260.58
	TOTAL					₹	9,188.22
	Add for water charges (except "A")	@	1.0 %			₹	89.47
	TOTAL					₹	9,277.68
	Add GST (multiplying factor) (except "A")		0.1405			₹	1,269.56
						₹	10,547.25
	Add for contractor's profit and overheads (except "A")	@	15%			₹	1,545.84

₹

1,627.50

			₹	12,093.09
Add cess (except "A")	@	1%	₹	118.51
Cost for 5 mtr.			₹	12,211.60
Rate per mtr.			₹	2,442.32
Say			₹	2,442.30

19.73 Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K 9 conforming to IS: 8329:

19.73.3 Code	200 mm dia Ductile Iron Double Flanged Description Details of cost for 5 metre Materials:- 200 mm dia. ductile iron pipes double flanged Weight of 1m pipe = 44.20 kg Weight of 5m pipes 44.20 x5 = 221.00Kg Ductile Iron Pipe Class K-9 flanges and welding 200	Unit	Quantity		Rate		Amount
	dia	metre	5.00	₹	2,179.00	₹	10,895.00
0459	Carriage of pipes Labour	100 metre	5.00	₹	681.03		34.05
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	2.21	₹	148.24	₹	327.62
	TOTAL					₹	11,256.67
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	327.87
	TOTAL					₹	11,584.54
	Add for water charges (except "A")	@	1.0 %			₹	112.57
	TOTAL Add GST (multiplying factor) (except "A")		0.1405			₹ ₹	11,697.11 1,597.41 13,294.52
	Add for contractor's profit and overheads (except "A")	@	15%			₹ ₹	1,945.04 15,239.56
	Add cess (except "A")	@	1%			₹	149.12
	Cost for 5 mtr. Rate per mtr. Say					₹ ₹	15,388.68 3,077.74 3,077.70

19.73.4 Code	250 mm dia Ductile Iron Double Flanged Description	Unit	Quantity		Rate		Amount
	Details of cost for 5 metre						
	Materials :-						
	250 mm dia. ductile iron pipes double flanged						
	Weight of 1m pipe =59.400kg						
40470	Weight of 5m pipes 59.400x5 = 297.00Kg						
19173	Ductile Iron Pipe Class K-9 flanges and welding 250		F 00	-	0.000.00	-	45 400 00
0.400	dia	metre	5.00	₹	3,098.00		15,490.00
0460	Carriage of pipes	100 metre	5.00	₹	969.17	₹	48.46
(4)	Labour			~	440.04	-	440.00
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	2.97	₹	148.24	₹	440.28
	TOTAL					₹	15,978.74
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	466.15
	TOTAL					₹	16,444.90
	Add for water charges (except "A")	@	1.0 %			₹	160.05
	TOTAL					₹	16,604.94
	Add GST (multiplying factor) (except "A")		0.1405			₹	2,271.13
						₹	18,876.08
	Add for contractor's profit and overheads (except "A")	@	15%			₹	2,765.37
						₹	21,641.45

Add cess (except "A")	@	1%	₹	212.01
Cost for 5 mtr.			₹	21,853.46
Rate per mtr.			₹	4,370.69
Say			₹	4,370.70

19.73 Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K 9 conforming to IS: 8329:

19.73.5 Code	300 mm dia Ductile Iron Double Flanged Description Details of cost for 5 metre Materials:- 300 mm dia. ductile iron pipes double flanged Weight of 1m pipe =76.400kg Weight of 5m pipes 76.400x5 = 382.00Kg Ductile Iron Pipe Class K-9 flanges and welding 300	Unit	Quantity		Rate		Amount
10174	dia	metre	5.00	₹	3,980.00	₹	19,900.00
0461	Carriage of pipes Labour	100 metre	5.00	₹	1,199.92		60.00
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	3.82	₹	148.24	₹	566.29
	TOTAL					₹	20,526.29
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	598.80
	TOTAL					₹	21,125.09
	Add for water charges (except "A")	@	1.0 %			₹	205.59
	TOTAL Add GST (multiplying factor) (except "A")		0.1405			₹ ₹	21,330.67 2,917.40 24,248.07
	Add for contractor's profit and overheads (except "A")	@	15%			₹ ₹	3,552.27 27,800.34
	Add cess (except "A")	@	1%			₹	272.34
	Cost for 5 mtr. Rate per mtr. Say					₹ ₹	28,072.68 5,614.54 5,614.50

19.73.6 Code	350 mm dia Ductile Iron Double Flanged Description Details of cost for 5 metre Materials:- 350 mm dia. ductile iron pipes double flanged Weight of 1m pipe =91.400kg Weight of 5m pipes 91.400x5 = 457.00Kg	Unit	Quantity		Rate		Amount
19175	Ductile Iron Pipe Class K-9 flanges and welding 350						
	dia	metre	5.00	₹	5,019.00	₹	25,095.00
0462	Carriage of pipes	100 metre	5.00	₹	1,679.89	₹	83.99
	Labour						
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	4.57	₹	148.24	₹	677.47
	TOTAL					₹	25,856.47
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	755.37
	TOTAL					₹	26,611.84
	Add for water charges (except "A")	@	1.0 %			₹	259.34
	TOTAL Add GST (multiplying factor) (except "A")		0.1405			₹ ₹	26,871.18 3,680.22 30,551.40
	Add for contractor's profit and overheads (except "A")	@	15%			₹ ₹	4,481.09 35,032.49
	Add cess (except "A")	@	1%			₹	343.55
	Cost for 5 mtr.	J				₹	35,376.04

Rate per mtr. ₹ 7,075.21 Say ₹ 7,075.20

19.73 Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K 9 conforming to IS: 8329:

19.73.7 Code	400 mm dia Ductile Iron Double Flanged Description Details of cost for 5 metre Materials:- 400 mm dia. ductile iron pipes double flanged Weight of 1m pipe =108.100kg Weight of 5m pipes 108.100x5 = 540.50Kg Ductile Iron Pipe Class K-9 flanges and welding 400	Unit	Quantity		Rate		Amount
	dia	metre	5.00	₹	6,458.00	₹	32,290.00
0463	Carriage of pipes	100 metre	5.00	₹	2,290.76		114.54
	Labour						
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	5.40	₹	148.24	₹	800.52
	TOTAL					₹	33,205.05
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	972.14
	TOTAL					₹	34,177.19
	Add for water charges (except "A")	@	1.0 %			₹	333.77
	TOTAL					₹	34,510.96
	Add GST (multiplying factor) (except "A")		0.1405			₹	4,736.32
	Add for contractor's profit and overheads (except "A")	@	15%			₹ ₹	39,247.27 5,767.01 45,014.29
	Add cess (except "A")	@	1%			₹	442.14
	Cost for 5 mtr. Rate per mtr. Say					₹ ₹	45,456.42 9,091.28 9,091.30

19.73.8 Code	450 mm dia Ductile Iron Double Flanged Description Details of cost for 5 metre Materials :- 450 mm dia. ductile iron pipes double flanged Weight of 1m pipe =127.800kg Weight of 5m pipes 127.800x5 = 639.00Kg	Unit	Quantity		Rate		Amount
19177	Ductile Iron Pipe Class K-9 flanges and welding 450			_		_	
0464	dia Carriage of pipes Labour	metre 100 metre	5.00 5.00	₹ ₹	6,776.00 2,799.82		33,880.00 139.99
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	6.39	₹	148.24	₹	947.28
	TOTAL					₹	34,967.27
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	1,020.60
	TOTAL					₹	35,987.87
	Add for water charges (except "A")	@	1.0 %			₹	350.41
	TOTAL Add GST (multiplying factor) (except "A")		0.1405			₹ ₹	36,338.27 4,972.44 41,310.71
	Add for contractor's profit and overheads (except "A")	@	15%			₹ ₹	6,054.51 47,365.22
	Add cess (except "A")	@	1%			₹	464.18
	Cost for 5 mtr. Rate per mtr.					₹ ₹	47,829.40 9,565.88

₹ 9,565.90

19.73 Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K 9 conforming to IS: 8329:

Code	500 mm dia Ductile Iron Double Flanged Description Details of cost for 5 metre Materials :- 500 mm dia. ductile iron pipes double flanged Weight of 1m pipe =147.900kg Weight of 5m pipes 147.900x5 = 739.50Kg	Unit	Quantity		Rate		Amount
19178	Ductile Iron Pipe Class K-9 flanges and welding 500 dia	metre	5.00	₹	9,639.00	₹	48,195.00
0465	Carriage of pipes	100 metre	5.00	₹	2,799.82		139.99
	Labour						
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	7.40	₹	148.24	₹	1,097.00
	TOTAL					₹	49,431.99
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	1,450.05
	TOTAL					₹	50,882.04
	Add for water charges (except "A")	@	1.0 %			₹	497.85
	TOTAL					₹	51,379.89
	Add GST (multiplying factor) (except "A")		0.1405			₹	7,064.75
	Add for contractor's profit and overheads (except "A")	@	15%			₹ ₹	58,444.64 8,602.15 67,046.79
	Add cess (except "A")	@	1%			₹	659.50
	Cost for 5 mtr. Rate per mtr. Say					₹ ₹	67,706.28 13,541.26 13,541.30

19.73.10 Code	600 mm dia Ductile Iron Double Flanged Description Details of cost for 5 metre Materials:- 600 mm dia. ductile iron pipes double flanged Weight of 1m pipe =198.900kg Weight of 5m pipes 198.900x5 = 994.50Kg Ductile Iron Pipe Class K-9 flanges and welding 600	Unit	Quantity		Rate		Amount
13173	dia	metre	5.00	₹	12,758.00	₹	63,790.00
0466	Carriage of pipes	100 metre	5.00	₹	•		209.99
	Labour						
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	9.95	₹	148.24	₹	1,475.02
	TOTAL					₹	65,475.01
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	1,920.00
	TOTAL					₹	67,395.01
	Add for water charges (except "A")	@	1.0 %			₹	659.20
	TOTAL					₹	68,054.21
	Add GST (multiplying factor) (except "A")		0.1405			₹	9,354.38
	A.1.6	_				₹	77,408.58
	Add for contractor's profit and overheads (except "A")	@	15%			₹ ₹	11,390.03 88,798.62
	Add cess (except "A")	@	1%			₹	873.24
	Cost for 5 mtr.					₹	89,671.86
	Rate per mtr.					₹	17,934.37
	Say					₹	17,934.40

19.73 Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K 9 conforming to IS: 8329:

Code	700 mm dia Ductile Iron Double Flanged Description Details of cost for 5 metre Materials:- 700 mm dia. ductile iron pipes double flanged Weight of 1m pipe =254.90 kg Weight of 5m pipes 254.90x5 = 1274.50 Kg	Unit	Quantity		Rate		Amount
19180	Ductile Iron Pipe Class K-9 flanges and welding 700 dia	metre	5.00	₹	15,089.00	₹	75,445.00
0418	Carriage of pipes	100 metre	5.00	₹	,		209.99
	Labour				,		
(A)	For lowering & laying Rate same as per item no 19.23 SH: Water Supply	quintal	12.75	₹	148.24	₹	1,890.11
	TOTAL					₹	77,545.09
	Add for Sundries and contingencies (except "A")	@	3.0 %			₹	2,269.65
	TOTAL					₹	79,814.74
	Add for water charges (except "A")	@	1.0 %			₹	779.25
	TOTAL					₹	80,593.99
	Add GST (multiplying factor) (except "A")		0.1405			₹	11,057.90
	Add for contractor's profit and overheads (except "A")	@	15%			₹ ₹	91,651.88 13,464.27 1,05,116.15
	Add cess (except "A")	@	1%			₹	1,032.26
	Cost for 5 mtr. Rate per mtr. Say	Ü				₹ ₹	1,06,148.41 21,229.68 21,229.70

19.74 Providing and fixing unplastisised P.V.C. connection pipe with PTMT Nuts of approved quality and colour.

19.74.1 Code	15 mm nominal bore with 30cm length. Description Details of cost for one no Materials:	Unit	Quantity		Rate		Amount
19222	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	1.00	₹	50.00	₹	50.00
	TOTAL					₹	50.00
	Add for Carriage of materials and fixing charges etc.[L.S]	@	1%			₹	0.50
	TOTAL					₹	50.50
	Add for Sundries and contingencies TOTAL	@	3.0%			₹ ₹	1.52 52.02
	Add for water charges TOTAL	@	1.0 %			₹ ₹	0.52 52.54
	Add GST (multiplying factor)		0.1405			₹	7.38 59.92
	Add for contractor's profit and overheads	@	15%			₹ ₹	8.99 68.90
	Add cess	@	1%			₹	0.69
	Rate for per per connection pipe Say	J				₹ ₹	69.59 69.60

19.74 Providing and fixing unplastisised P.V.C. connection pipe with PTMT Nuts of approved quality and colour.

19.74.2 15 mm nominal bore with 45 cm length.

Details of cost for one no

19223 15 mm nominal bore and 45 cm length PVC connection

pipe with P.T.M.T. Nuts each 1.00 ₹ 52.00 ₹ 52.00

TOTAL			₹	52.00
Add for Carriage of materials and fixing charges etc.[L.S]	@	1%	₹	0.52
TOTAL			₹	52.52
Add for Sundries and contingencies	@	3.0%	₹	1.58
TOTAL			₹	54.10
Add for water charges	@	1.0 %	₹	0.54
TOTAL			₹	54.64
Add GST (multiplying factor)		0.1405	₹	7.68
			₹	62.31
Add for contractor's profit and overheads	@	15%	₹	9.35
			₹	71.66
Add cess	@	1%	₹	0.72
Rate for per per connection pipe Say			₹ ₹	72.38 72.40

19.75 Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.

19.75.1 Code	15 mm nominal bore. Weighing not less than 32gms. Description Details of cost for one no Materials:	Unit	Quantity		Rate		Amount
19224	P.T.M.T. extension nipple 15mm	each	1.00	₹	23.00	₹	23.00
	TOTAL					₹	23.00
	Add for Carriage of materials and fixing charges etc.[L.S]	@	1%			₹	0.23
	TOTAL					₹	23.23
	Add for Sundries and contingencies	@	3.0%			₹	0.70
	TOTAL					₹	23.93
	Add for water charges	@	1.0 %			₹	0.24
	TOTAL					₹	24.17
	Add GST (multiplying factor)		0.1405			₹	3.40
						₹	27.56
	Add for contractor's profit and overheads	@	15%			₹	4.13
						₹	31.70
	Add cess	@	1%			₹	0.32
	Rate for per extension nipple					₹	32.01
	Say					₹	32.00

19.75 Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.

19.75.2 Code	20 mm nominal bore. Weighing not less than 40 gms. Description Details of cost for one no Materials:	Unit	Quantity		Rate		Amount
19225	P.T.M.T. extension nipple 20 mm	each	1.00	₹	32.00	₹	32.00
	TOTAL					₹	32.00
	Add for Carriage of materials and fixing charges etc.[L.S]	@	1%			₹	0.32
	TOTAL					₹	32.32
	Add for Sundries and contingencies	@	3.0%			₹	0.97
	TOTAL					₹	33.29
	Add for water charges	@	1.0 %			₹	0.33
	TOTAL					₹	33.62
	Add GST (multiplying factor)		0.1405			₹	4.72
						₹	38.35

Add for contractor's profit and overheads	@	15%	₹	5.75
			₹	44.10
Add cess	@	1%	₹	0.44
Rate for per extension nipple			₹	44.54
Say			₹	44.50

19.75 Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.

19.75.3 Code	25 mm nominal bore. Weighing not less than 62 gms. Description Details of cost for one no Materials:	Unit	Quantity	Rate	Amount			
19226	P.T.M.T. extension nipple 25 mm	each	1.00	₹ 42.00	₹ 42.00			
	TOTAL				₹ 42.00			
	Add for Carriage of materials and fixing charges etc.[L.S]	@	1%		₹ 0.42			
		_			₹ 42.42			
	TOTAL		0.00/					
	Add for Sundries and contingencies	@	3.0%		₹ 1.27			
	TOTAL		4.0.0/		₹ 43.69			
	Add for water charges TOTAL	@	1.0 %		₹ 0.44 ₹ 44.13			
	Add GST (multiplying factor)		0.1405		₹ 44.13 ₹ 6.20			
	/ da GGT (manipiying racion)		0.1403		₹ 50.33			
	Add for contractor's profit and overheads	@	15%		₹ 7.55			
	·				₹ 57.88			
	Add cess		1%		₹ 0.58			
		@	170					
	Rate for per extension nipple Say				₹ 58.46 ₹ 58.50			
	Jay				30.30			
	Cutting holes upto 30x30 cm in walls including making goo With 1st class bricks.			_				
Code	Description Details of cost for 10 holes Thicness of wall = 345 mm Size of hole= (300 x 300) mm Quantity of work involved for making good the wall: 1. Bricwork in C.M 1:4 = 10X0.30X0.30X0.345=0.3105 cum Less for pipe portion = say 33%= (-) 0.1025 cum = Total 0.208 cum 2. 12 mm thick cement plaster 1:4 with a floating coat of neat cement: 10x2x0.30x0.30=1.80 sqm							
	Less for pipe portion = say 33%= (-) 0.594 sqm = Total 1.206 se Materials :	•						
03001	Cement: For Bricwork : 0.1976 q For plaster :0.0925 q Total= 0.2901 q.	t	0.029	₹ 5,800.00	₹ 168.20			
02003	Sand: For Bricwork: 0.57 cum For plaster: 0.0186 cum Total= 0.0756 cum	cum	0.0756	₹ 560.00	₹ 42.34			
06001	Bricks 1st class	1000 nos.	79.00	₹ 12,450.00	₹ 983.55			
	Carriage:				_			
0421	Cement:	t	0.029	₹ 102.47				
0425	Sand:	cum 1000 pag	0.0756		₹ 9.96			
0406	Bricks Labour:	1000 nos.	79.00	₹ 307.42	₹ 24.29			
0220	For cutting holes	Day	0.20	₹ 205.00	∌ 70.00			
0220 0203	Mason 2nd class Belder	Day	0.20 1.00	₹ 395.00 ₹ 310.00				
0203	For making good the walls	Day	1.00	\$ 310.00	\$ 310.00			
0216	Foreman	Day	0.10	₹ 440.00	₹ 44.00			
0210	Mason 1st class	Day	0.10	₹ 440.00	₹ 110.00			
0213	Roldor	Day	0.23	₹ 310.00				

Day

0.60

₹

310.00 ₹

0203 Belder

186.00

0212 coolie 0205 Waterman TOTAL	Day Day	0.25 0.25	₹	310.00 310.00	₹ ₹	77.50 77.50 2,115.30
Add for cost and sharpening of chisels TOTAL	@	4.50 %			₹ ₹	95.19 2,210.49
Add for Sundries and contingencies	@	3.0%			₹	66.31
TOTAL Add for water charges	@	1.0%			₹	2,276.81 22.77
TOTAL		0.4.05			₹	2,299.58
Add GST (multiplying factor)		0.1405			₹ ₹	323.09 2,622.67
Add for contractor's profit and overheads	@	15%			₹ ₹	393.40 3,016.07
Add cess	@	1%			₹	30.16
Cost for 10 holes					₹	3,046.23
Rate per Hole Say					₹	304.62 304.60

19.77 Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 holes		•				
	Size of hole= (150 x150x150) mm						
	Quantity of work involved for repair work :						
	1. Cement concrete 1:2:4 = 10X0.15X0.15X0.15=0.03375 cum						
	Less portion occupied by pipe, say 80 mm dia pipe = 1x3.14x0.1	10x0.10/4 x 0.	15= (-) 0.011	8 cu	ım =		
	Total 0.03257cum						
	2. 12 mm thick cement plaster 1:3 with a floating coat of neat	cement at to	p and bottoi	n wi	ith water		
	proofing compound :						
	2x 10 x0.15 x 0.15 = 0.45 sqm						
	Less for pipe portion = $1x3.14x0.10x0.10/4 = (-) 0.0079 \text{ sqm} = \mathbf{T}$	Total 0.4421 s	qm.				
	Materials :						
03001	Cement:	t	0.0146	₹	5,800.00	₹	84.68
	For concrete: 0.104 q						
	For plaster :0.042 q Total= 0.146 q.						
04007	Stone aggregate (12.5 mm)	cum	0.031	₹	4,785.00	₹	148.34
02003	Sand:	cum	0.1598	₹	560.00	₹	89.49
	For concrete: 0.153 q						
	For plaster :0.0068 cum Total= 0.1598 cum						
	Carriage:						
0421	Cement:	t	0.0146	₹	102.47		1.50
0425	Sand:	cum	0.1598	₹	131.75	₹	21.05
0405	Aggregate	1000 nos.	0.031	₹	147.57	₹	4.57
	Labour:						
	For cutting holes & also for cutting steel	_		_		_	
0216	Foreman	Day	0.30	₹	440.00	₹	132.00
0203	Belder	Day	2.25	₹	310.00	₹	697.50
0040	For repair on fixing the pipe	Davis	0.400	-	440.00	-	44.00
0216 0219	Foreman Mason 1st class	Day Day	0.100 0.125	₹	440.00 440.00	₹	44.00 55.00
0219	Carpenter (average)	Day	0.125	₹	420.00		52.50
0203	Belder	Day	0.123	₹	310.00	₹	147.25
0203	Coolie	Day	0.300	₹	310.00	₹	93.00
0205	Waterman	Day	0.125	₹	310.00	₹	38.75
TOTAL	Tatoman	Day	0.120	`	010.00	_	
						₹	1,609.63
	Add for Ladders, Ballies, Chalies etc.	@	2.5 %			₹	40.24
	TOTAL					₹	1,649.87
	Add for Planks and Binding wire, Nails etc. for form work	@	5.0 %			₹	82.49
	TOTAL					₹	1,732.36

Add for cost of Chisels and sharpening the same etc.	@	3.0 %	₹	51.97
TOTAL			₹	1,784.33
Add for Sundries and contingencies TOTAL	@	3.0%	₹ ₹	53.53 1,837.86
Add for water charges TOTAL	@	1.0 %	₹ ₹	18.38 1,856.24
Add GST (multiplying factor)		0.1405	₹ ₹	260.80 2,117.04
Add for contractor's profit and overheads	@	15%	₹ ₹	317.56 2,434.60
Add cess	@	1%	₹	24.35
Cost for 10 holes Rate per Hole Say			₹ ₹	2,458.95 245.89 245.90

19.78 Making chases upto 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10.00 metres						
	Cement concrete 1:3:6= 1x10x0.075x0.075=0.05625 cum						
	Less for space occupied by a G.I Pipe sa 15 mm dia.						
	=3.14x0.01075x0.01075x10.00= 0.003628 cum						
	So, Total = 0.0526 cum						
	MATERIAL:						
03001	Cement	t	0.011	₹	5,800.00	₹	63.80
04006	20 mm stone aggregate	cum	0.047	₹	4,875.00	₹	229.13
02003	Fine Sand	cum	0.024	₹	560.00	₹	13.44
	CARRIAGE:						
0421	Cement	t	0.011	₹	102.47		1.13
0405	20 mm stone aggregate	cum	0.047	₹	_	₹	6.94
0425	Fine Sand	cum	0.024	₹	131.75	₹	3.16
	FORM WORK:						
04014	(i) 25 mm 2nd class wood planks						
	Leaving 25% portion for pouring concrete						
	= 1x7.5x0.15x0.025= 0.028 cum, say 28.00 cudm	10 cudm	28.00	₹	275.00	₹	19.25
04010	(ii) Ballies 100 mm dia for support 4x2x3.00 m =24.00 mtr.	mtr	24.00	₹	45.00	₹	27.00
	The above materials can be used for 40 times.						
	Hence cost for using once =						
	Cost of planks & Ballies incl. carriage/40						
	LABOUR:						
	(i) For cutting chases and disposing the cut materials						
0216	Foreman	Day	0.15	₹	440.00	₹	66.00
0212	Helper	Day	0.75	₹	310.00	₹	232.50
	(ii) For fixing formwork					₹	-
0216	Foreman	Day	0.100	₹	440.00	₹	44.00
0210	Carpenter 2nd class	Day	0.125	₹	395.00	₹	49.38
0212	Helper	Day	0.125	₹	310.00	₹	38.75
	(iii) For concreting and finishing incl. roughening					_	
	the surface	_		_		₹	-
0216	Foreman	Day	0.080	₹	440.00	₹	35.20
0219	Mason (1st class)	Day	0.125	₹	440.00	₹	55.00
0203	Beldar	Day	0.125	₹	310.00	₹	38.75
0212	Helper	Day	0.250	₹	310.00	₹	77.50
0205	waterman	Day	0.125	₹	310.00	₹	38.75
	TOTAL					₹	1,039.66
			0.00/				
	Add for ladders,nails,Binding wire etc.	@	2.0 %			₹	20.79
	TOTAL					₹	1,060.46
	Add for wire brushes, cost and sharpening of chisels etc.	@	2.0 %			₹	21.21
		O	2.0 /0				
	TOTAL					₹	1,081.67

Add for Sundries and contingencies	@	3.0%	₹	32.45
TOTAL			₹	1,114.12
Add for water charges	@	1.0%	₹	11.14
TOTAL			₹	1,125.26
Add GST (multiplying factor)		0.1405	₹	158.10
			₹	1,283.36
Add for contractor's profit and overheads	@	15%	₹	192.50
			₹	1,475.86
Add cess	@	1%	₹	14.76
Cost for 10.00 mtr length			₹	1,490.62
Rate per mtr.			₹	149.06
Say			₹	149.10

19.79

Making hole upto 20x20 cm and embedding pipes upto 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) including disposal of malba.

Code	Description Details of cost for 10 mtr. length. Pipe size 100 mm dia. External diameter =124 mm. Quantity of work involved: 1. Cement concrete 1:3:6 = 1X0.20 x 0.20 x 10.00 =0.40 cum Less portion occupied by pipe, say 100 mm dia pipe = 1x3.14x0	Unit 0.124x0.124/4	Quantity x 10= (-) 0.12	2 cui	Rate		Amount
	Total 0.280 cum Materials :						
03001	Cement:	t	0.0616	3	E 900 00	=	357.28
04006			0.0616	₹	5,800.00 4,875.00		337.26 1,316.25
02003	Stone aggregate (20 mm) Sand:	cum cum	0.270	₹	560.00		76.16
02003	Carriage:	Cuiii	0.130	`	300.00	`	70.10
0421	Cement:	4	0.0616	₹	102.47	=	6.31
0421	Sand:	t cum	0.0616	₹	131.75	₹	0.31 17.92
0425	Aggregate	1000 nos.	0.130	₹	147.57		39.84
0403	Labour:	1000 1103.	0.270	`	147.57	`	39.04
	For concreting & disposal of Malba.						
0216	Foreman	Day	0.080	₹	440.00	₹	35.20
0210	Mason 1st class	Day	0.125	₹		₹	55.00
0203	Belder	Day	0.375	₹	310.00	₹	116.25
0212	Coolie	Day	0.25	₹	310.00	₹	77.50
0205	Waterman	Day	0.125	₹	310.00	₹	38.75
	TOTAL	,		-		₹	2,136.46
	Add for Cundring and contingencies	@	3.0%			₹	64.09
	Add for Sundries and contingencies TOTAL		0.070			₹	2,200.56
	TOTAL		4.007			-	•
	Add for water charges	@	1.0%			₹	22.01
	TOTAL					₹	2,222.56
	Add GST (multiplying factor)		0.1405			₹	312.27
						₹	2,534.83
	Add for contractor's profit and overheads	@	15%			₹	380.23
						₹	2,915.06
	Add cess	@	1%			₹	29.15
	Cost for 10.00 mtr. pipe					₹	2,944.21
	Rate per mtr.					₹	294.42
	Say					₹	294.40

DISINFECTING/DISMANTLING/CUTTING C.I PIPES

19.80 Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.1 80 mm diametre C.I, pipe.

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for disinfecting 100.00 metres length.						
	MATERIAL Bleaching powder for 80 mm dia pipe						
	3x3.1416/4x(0.08)2 x100x1000x0.5 gms/litre						
19001	= $753.98 \text{ gms} = 0.00754 \text{ q} = \text{say,0.008 q}$.	quintal	0.008	₹	2,200.00	₹	17.60
	Labour:						
0215	Fitter (grade-I)	Day	0.330	₹	440.00	₹	145.20
0203	Belder	Day	1.310	₹	310.00	₹	406.10
	TOTAL					₹	568.90
	Add for Pumps, temporary pipe arrangement to supply water		404			_	
	and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	5.69
	TOTAL					₹	574.59
	Add for Sundries and contingencies	@	3.0 %			₹	17.24
	TOTAL					₹	591.83
	Add for water charges & electricity	@	1.5 %			₹	8.88
	TOTAL					₹	600.70
	Add GST (multiplying factor)		0.1405			₹	84.40
						₹	685.10
	Add for contractor's profit and overheads	@	15%			₹	102.77
						₹	787.87
	Add cess	@	1%			₹	7.88
	Cost for disinfecting C.I water mains for 100.00 mtr. length					₹	795.75
	Say					₹	795.70

19.80 Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.2	100 mm diametre C.I, pipe.
Code	Description

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for disinfecting 100.00 metres length.						
	MATERIAL						
	Bleaching powder for 100 mm dia pipe						
	3x3.1416/4x(0.10)2 x100x1000x0.5 gms/litre						
19001	= $1178.10 \text{ gms} = 0.0118 \text{ q} = \text{say,} 0.012 \text{ q}.$	quintal	0.012	₹	2,200.00	₹	26.40
	Labour:						
0215	Fitter (grade-I)	Day	0.490	₹	440.00	₹	215.60
0203	Belder	Day	1.640	₹	310.00	₹	508.40
	TOTAL					₹	750.40
	Add for Pumps, temporary pipe arrangement to supply water						
	and remove the same and expenses for testing & carriage of	@	1%			₹	7.50
	materials etc. [L.S]						
	TOTAL					₹	757.90
	Add for Sundries and contingencies	@	3.0 %			₹	22.74
	TOTAL					₹	780.64
	Add for water charges & electricity	@	1.5 %			₹	11.71
	TOTAL					₹	792.35
	Add GST (multiplying factor)		0.1405			₹	111.33
						₹	903.68
	Add for contractor's profit and overheads	@	15%			₹	135.55
						₹	1,039.23
	Add cess	@	1%			₹	10.39
	Cost for disinfecting C.I water mains for 100.00 mtr. length					₹	1,049.62
	Say					₹	1,049.60

19.80 Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.3 Code	125 mm diametre C.I, pipe. Description Details of cost for disinfecting 100.00 metres length. MATERIAL Bleaching powder for 125 mm dia pipe 3x3.1416/4x(0.125)2 x100x1000x0.5 gms/litre	Unit	Quantity		Rate		Amount
19001	= $1840.78 \text{ gms} = 0.0184 \text{ q} = \text{say,0.018 q}.$	quintal	0.018	₹	2,200.00	₹	39.60
0215 0203	Labour: Fitter (grade-I) Belder	Day Day	0.660 1.970	₹	440.00 310.00	₹	290.40 610.70
	TOTAL Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	940.70 9.41
	TOTAL					₹	950.11
	Add for Sundries and contingencies TOTAL	@	3.0 %			₹ ₹	28.50 978.61
	Add for water charges & electricity TOTAL	@	1.5 %			₹ ₹	14.68 993.29
	Add GST (multiplying factor)		0.1405			₹ ₹	139.56 1,132.85
	Add for contractor's profit and overheads	@	15%			₹ ₹	169.93 1,302.77
	Add cess	@	1%			₹	13.03
	Cost for disinfecting C.I water mains for 100.00 mtr. length Say					₹ ₹	1,315.80 1,315.80

Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.4	150 mm diametre C.I, pipe.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for disinfecting 100.00 metres length. MATERIAL						
	Bleaching powder for 150 mm dia pipe 3x3.1416/4x(0.15)2 x100x1000x0.5 gms/litre						
19001	= 2650.72 gms = 0.0265 q = say,0.027 q.	quintal	0.027	₹	2,200.00	₹	59.40
	Labour:						
0215	Fitter (grade-I)	Day	0.820	₹	440.00	₹	360.80
0203	Belder	Day	2.300	₹	310.00	₹	713.00
	TOTAL					₹	1,133.20
	Add for Pumps, temporary pipe arrangement to supply water						
	and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	11.33
	TOTAL					₹	1,144.53
	Add for Sundries and contingencies	@	3.0 %			₹	34.34
	TOTAL					₹	1,178.87
	Add for water charges & electricity	@	1.5 %			₹	17.68
	TOTAL					₹	1,196.55
	Add GST (multiplying factor)		0.1405			₹	168.12
						₹	1,364.67
	Add for contractor's profit and overheads	@	15%			₹	204.70
						₹	1,569.37
	Add cess	@	1%			₹	15.69
	Cost for disinfecting C.I water mains for 100.00 mtr. length					₹	1,585.06
	Say					₹	1,585.10

19.80 Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

Code	200 mm diametre C.I, pipe. Description Details of cost for disinfecting 100.00 metres length. MATERIAL Bleaching powder for 200 mm dia pipe 3x3.1416/4x(0.20)2 x100x1000x0.5 gms/litre	Unit	Quantity		Rate		Amount
19001	= 4712.40 gms = 0.047 q	quintal	0.047	₹	2,200.00	₹	103.40
0215 0203	Labour: Fitter (grade-I) Belder	Day Day	1.150 2.950	₹		₹	506.00 914.50
	TOTAL Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	1,523.90 15.24
	TOTAL					₹	1,539.14
	Add for Sundries and contingencies TOTAL	@	3.0 %			₹ ₹	46.17 1,585.31
	Add for water charges & electricity TOTAL	@	1.5 %			` ₹	23.78 1,609.09
	Add GST (multiplying factor)		0.1405			₹ ₹	226.08 1,835.17
	Add for contractor's profit and overheads	@	15%			₹ ₹	275.28 2,110.45
	Add cess	@	1%			₹	21.10
	Cost for disinfecting C.I water mains for 100.00 mtr. length Say					₹ ₹	2,131.55 2,131.60

19.80 Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.6 Code	250 mm diametre C.I, pipe. Description Details of cost for disinfecting 100.00 metres length. MATERIAL Bleaching powder for 250 mm dia pipe 3x3.1416/4x(0.25)2 x100x1000x0.5 gms/litre	Unit	Quantity		Rate		Amount
19001	= 7363.125 gms = 0.074 q	quintal	0.074	₹	2,200.00	₹	162.80
0215 0203	Labour: Fitter (grade-I) Belder TOTAL Add for Pumps, temporary pipe arrangement to supply water	Day Day	1.480 3.610	₹	440.00 310.00	₹ ₹	651.20 1,119.10 1,933.10
	and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	19.33 1,952.43
	TOTAL Add for Sundries and contingencies TOTAL	@	3.0 %			₹	58.57 2,011.00
	Add for water charges & electricity TOTAL Add GST (multiplying factor)	@	1.5 % 0.1405			₹ ₹	30.17 2,041.17 286.78
	Add for contractor's profit and overheads	@	15%			₹ ₹	2,327.95 349.19 2,677.15
	Add cess Cost for disinfecting C.I water mains for 100.00 mtr. length Say	@	1%			₹ ₹	26.77 2,703.92 2,703.90

19.80 Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.7 Code	300 mm diametre C.I, pipe. Description Details of cost for disinfecting 100.00 metres length. MATERIAL Bleaching powder for 300 mm dia pipe 3x3.1416/4x(0.30)2 x100x1000x0.5 gms/litre	Unit	Quantity		Rate		Amount
19001	= 10602.90 gms = 0.106 q	quintal	0.106	₹	2,200.00	₹	233.20
0215 0203	Labour: Fitter (grade-I) Belder	Day Day	1.640 3.940	₹	440.00 310.00	₹	721.60 1,221.40
	TOTAL Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	2,176.20 21.76
	TOTAL					₹	2,197.96
	Add for Sundries and contingencies	@	3.0 %			₹	65.94
	TOTAL Add for water charges & electricity TOTAL	@	1.5 %			₹ ₹	2,263.90 33.96 2,297.86
	Add GST (multiplying factor)		0.1405			₹ ₹	322.85 2,620.71
	Add for contractor's profit and overheads	@	15%			₹ ₹	393.11 3,013.81
	Add cess	@	1%			₹	30.14
	Cost for disinfecting C.I water mains for 100.00 mtr. length Say					₹ ₹	3,043.95 3,044.00

Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.8 350 mm diametre C.I, pipe.

Add cess

Cost for disinfecting C.I water mains for 100.00 mtr. length

Code	Description	Unit	Quantity		Rate		Amount
19001	Details of cost for disinfecting 100.00 metres length. MATERIAL Bleaching powder for 350 mm dia pipe 3x3.1416/4x(0.35)2 x100x1000x0.5 gms/litre = 14431.72 gms = 0.144 q	guintal	0.144	₹	2,200.00	₹	316.80
10001	Labour:	quintai	0.111	•	2,200.00	•	010.00
0215 0203	Fitter (grade-I) Belder	Day Day	1.800 4.270	₹ ₹	440.00 310.00	₹	792.00 1,323.70
	TOTAL					₹	2,432.50
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	24.33
	TOTAL					₹	2,456.83
	Add for Sundries and contingencies	@	3.0 %			₹	73.70
	TOTAL					₹	2,530.53
	Add for water charges & electricity	@	1.5 %			₹	37.96
	TOTAL					₹	2,568.49
	Add GST (multiplying factor)		0.1405			₹	360.87
						₹	2,929.36
	Add for contractor's profit and overheads	@	15%			₹	439.40
						₹	3,368.76

33.69

3,402.45 3,402.50

₹

1%

@

19.80 Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.9 Code	400 mm diametre C.I, pipe. Description Details of cost for disinfecting 100.00 metres length. MATERIAL Bleaching powder for 400 mm dia pipe 3x3.1416/4x(0.40)2 x100x1000x0.5 gms/litre	Unit	Quantity		Rate		Amount
19001	= 18849.60 gms = 0.188 q	quintal	0.188	₹	2,200.00	₹	413.60
	Labour:						
0215	Fitter (grade-I)	Day	1.970	₹	440.00	₹	866.80
0203	Belder	Day	4.590	₹	310.00	₹	1,422.90
	TOTAL Add for Pumps, temporary pipe arrangement to supply water					₹	2,703.30
	and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	27.03
	TOTAL					₹	2,730.33
	Add for Sundries and contingencies	@	3.0 %			₹	81.91
	TOTAL					₹	2,812.24
	Add for water charges & electricity	@	1.5 %			₹	42.18
	TOTAL					₹	2,854.43
	Add GST (multiplying factor)		0.1405			₹	401.05
			4=0/			₹	3,255.47
	Add for contractor's profit and overheads	@	15%			₹ ₹	488.32 3,743.79
						-	•
	Add cess	@	1%			₹	37.44
	Cost for disinfecting C.I water mains for 100.00 mtr. length Say					₹ ₹	3,781.23 3,781.20

19.80 Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.10	450 mm diametre C.I, pipe.
Cada	Description

					_		_
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for disinfecting 100.00 metres length. MATERIAL						
	Bleaching powder for 450 mm dia pipe						
	3x3.1416/4x(0.45)2 x100x1000x0.5 gms/litre						
19001	= 23856.50 gms = 0.239 q	quintal	0.239	₹	2,200.00	₹	525.80
	Labour:						
0215	Fitter (grade-I)	Day	2.130	₹	440.00	₹	937.20
0203	Belder	Day	4.920	₹	310.00	₹	1,525.20
	TOTAL					₹	2,988.20
	Add for Pumps, temporary pipe arrangement to supply water						
	and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	29.88
	TOTAL					₹	3,018.08
	Add for Sundries and contingencies	@	3.0 %			₹	90.54
	TOTAL					₹	3,108.62
	Add for water charges & electricity	@	1.5 %			₹	46.63
	TOTAL					₹	3,155.25
	Add GST (multiplying factor)		0.1405			₹	443.31
						₹	3,598.57
	Add for contractor's profit and overheads	@	15%			₹	539.79
						₹	4,138.35
	Add cess	@	1%			₹	41.38
	Cost for disinfecting C.I water mains for 100.00 mtr. length					₹	4,179.74

Say ₹ 4,179.70

Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.11 Code	500 mm diametre C.I, pipe. Description Details of cost for disinfecting 100.00 metres length. MATERIAL Bleaching powder for 500 mm dia pipe	Unit	Quantity		Rate		Amount
19001	3x3.1416/4x(0.50)2 x100x1000x0.5 gms/litre = 29452.50 gms = 0.295q	quintal	0.295	₹	2,200.00	₹	649.00
	Labour:	·					
0215	Fitter (grade-I)	Day	2.300	₹	440.00	₹	1,012.00
0203	Belder	Day	5.250	₹	310.00	₹	1,627.50
	TOTAL					₹	3,288.50
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	32.89
	TOTAL					₹	3,321.39
	Add for Sundries and contingencies	@	3.0 %			₹	99.64
	TOTAL					₹	3,421.03
	Add for water charges & electricity	@	1.5 %			₹	51.32
	TOTAL					₹	3,472.34
	Add GST (multiplying factor)		0.1405			₹	487.86
						₹	3,960.21
	Add for contractor's profit and overheads	@	15%			₹	594.03
						₹	4,554.24
	Add cess	@	1%			₹	45.54
	Cost for disinfecting C.I water mains for 100.00 mtr. length					₹	4,599.78
	Say					₹	4,599.80

Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory:

19.80.12	600 mm diametre C.I, pipe.						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for disinfecting 100.00 metres length. MATERIAL						
	Bleaching powder for 600 mm dia pipe						
	3x3.1416/4x(0.60)2 x100x1000x0.5 gms/litre			_			
19001	= 42411.60 gms = 0.424 q	quintal	0.424	₹	2,200.00	₹	932.80
	Labour:						
0215	Fitter (grade-I)	Day	2.620	₹	440.00	₹	1,152.80
0203	Belder	Day	5.910	₹	310.00	₹	1,832.10
	TOTAL					₹	3,917.70
	Add for Pumps, temporary pipe arrangement to supply water						
	and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	39.18
	TOTAL					₹	3,956.88
	Add for Sundries and contingencies	@	3.0 %			₹	118.71
	TOTAL					₹	4,075.58
	Add for water charges & electricity	@	1.5 %			₹	61.13
	TOTAL					₹	4,136.72
	Add GST (multiplying factor)		0.1405			₹	581.21
						₹	4,717.93
	Add for contractor's profit and overheads	@	15%			₹	707.69
						₹	5,425.61
	Add cess	@	1%			₹	54.26

Cost for disinfecting C.I water mains for 100.00 mtr. length Say 5,479.87

19.81 Extra for every operation of disinfecting the C.I. main by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the municipal laboratory:

19.81.1 Code	80 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL:	Unit	Quantity		Rate		Amount
	Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80						
	For 80 mm dia =753.98/3 = 251.33 gm or 0.00251 q.						
19001	Bleaching powder	quintal	0.00251	₹	2,200.00	₹	5.52
	Labour:						
0215	Fitter (grade-I)	Day	0.110	₹	440.00	₹	48.40
0203	Helper	Day	0.490	₹	310.00	₹	151.90
	TOTAL					₹	205.82
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	2.06
	TOTAL					₹	207.88
	Add for Sundries and contingencies	@	3.0 %			₹	6.24
	TOTAL					₹	214.12
	Add for water charges & electricity	@	1.5 %			₹	3.21
	TOTAL					₹	217.33
	Add GST (multiplying factor)		0.1405			₹	30.53
						₹	247.86
	Add for contractor's profit and overheads	@	15%			₹	37.18
						₹	285.04
	Add cess	@	1%			₹	2.85
	Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation					₹	287.89
	Say					₹	287.90

19.81.2 Code	100 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL:	Unit	Quantity		Rate		Amount
	Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80						
	For 100 mm dia =1178.10/3 = 392.70 gm or 0.003972 q.						
19001	Bleaching powder	quintal	0.003972	₹	2,200.00	₹	8.74
	Labour:						
0215	Fitter (grade-I)	Day	0.160	₹	440.00	₹	70.40
0203	Helper	Day	0.570	₹	310.00	₹	176.70
	TOTAL					₹	255.84
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	2.56
	TOTAL					₹	258.40
	Add for Sundries and contingencies	@	3.0 %			₹	7.75
	TOTAL					₹	266.15
	Add for water charges & electricity	@	1.5 %			₹	3.99

TOTAL			₹	270.14
Add GST (multiplying factor)		0.1405	₹	37.95
			₹	308.10
Add for contractor's profit and overheads	@	15%	₹	46.21
			₹	354.31
Add cess	@	1%	₹	3.54
Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation			₹	357.85
Say			₹	357.90

19.81.3 Code	125 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL:	Unit	Quantity		Rate		Amount
	Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80						
19001	For 125 mm dia =1840.78/3 = 613.59 gm or 0.00614 q. Bleaching powder	quintal	0.00614	₹	2,200.00	₹	13.51
0215 0203	Labour: Fitter (grade-I) Helper TOTAL	Day Day	0.220 0.660	₹ ₹	440.00 310.00	₹ ₹	96.80 204.60 314.91
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	3.15
	TOTAL					₹	318.06
	Add for Sundries and contingencies	@	3.0 %			₹	9.54
	TOTAL					₹	327.60
	Add for water charges & electricity	@	1.5 %			₹	4.91
	TOTAL Add GST (multiplying factor)		0.1405			₹ ₹	332.51 46.72 379.23
	Add for contractor's profit and overheads	@	15%			₹ ₹	56.88 436.12
	Add cess	@	1%			₹	4.36
	Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation					₹	440.48
	Say					₹	440.50

19.81.4 Code	150 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL:	Unit	Quantity		Rate		Amount
	Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80						
	For 150 mm dia =2650.72/3 = 883.57 gm or 0.008836 q.						
19001	Bleaching powder	quintal	0.008836	₹	2,200.00	₹	19.44
	Labour:						
0215	Fitter (grade-I)	Day	0.270	₹	440.00	₹	118.80
0203	Helper	Day	0.740	₹	310.00	₹	229.40
	TOTAL					₹	367.64

1% ₹	3.68
₹	371.32
3.0 % ₹	11.14
₹	382.46
1.5 % ₹	5.74
₹	388.19
.1405 ₹	54.54
₹	442.73
15% ₹	66.41
₹	509.14
1% ₹	5.09
₹	514.23
₹	514.20
	₹ 3.0 % ₹ 1.5 % ₹ 2.1405 ₹ 15% ₹ ₹ ₹ ₹ ₹

19.81.5 Code	200 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL:	Unit	Quantity		Rate		Amount
	Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80						
	For 200 mm dia =4712.4/3 = 1570.80 gm or 0.01571 q.						
19001	Bleaching powder	quintal	0.01571	₹	2,200.00	₹	34.56
	Labour:						
0215	Fitter (grade-I)	Day	0.580	₹	440.00	₹	255.20
0203	Helper	Day	0.900	₹	310.00	₹	279.00
	TOTAL					₹	568.76
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	5.69
	TOTAL					₹	574.45
	Add for Sundries and contingencies	@	3.0 %			₹	17.23
	TOTAL					₹	591.68
	Add for water charges & electricity	@	1.5 %			₹	8.88
	TOTAL					₹	600.56
	Add GST (multiplying factor)		0.1405			₹	84.38
						₹	684.94
	Add for contractor's profit and overheads	@	15%			₹	102.74
						₹	787.68
	Add cess	@	1%			₹	7.88
	Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation					₹	795.55
	Say					₹	795.60

19.81 Extra for every operation of disinfecting the C.I. main by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the municipal laboratory:

19.81.6 250 mm diametre C.I. pipe.

Code Description Unit Quantity Rate Amount
Details of cost for 100 metres
MATERIAL:

Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80

different diameters in item no. 18.80						
For 250 mm dia =7363.125/3 = 2454.375 gm or 0.02454 q. Bleaching powder	quintal	0.02454	₹	2,200.00	₹	53.99
Labour:						
Fitter (grade-I)	Day	0.750	₹	440.00	₹	330.00
Helper	Day	0.750	₹	310.00	₹	232.50
TOTAL					₹	616.49
Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	6.16
TOTAL					₹	622.65
Add for Sundries and contingencies	@	3.0 %			₹	18.68
TOTAL					₹	641.33
Add for water charges & electricity	@	1.5 %			₹	9.62
TOTAL					₹	650.95
Add GST (multiplying factor)		0.1405			₹	91.46
	_	4=0/				742.41
Add for contractor's profit and overheads	@	15%				111.36 853.77
					=	
Add cess	@	1%			₹	8.54
Extra Cost of disinfecting C.I water pipe for 100.00 mtr.					₹	862.31
Say					₹	862.30
	Bleaching powder Labour: Fitter (grade-I) Helper TOTAL Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges & electricity TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation	Bleaching powder quintal Labour: Fitter (grade-I) Day Helper Day TOTAL Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S] TOTAL Add for Sundries and contingencies TOTAL Add for water charges & electricity TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation	Bleaching powder quintal 0.02454 Labour: Fitter (grade-I) Day 0.750 Helper Day 0.750 TOTAL Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S] TOTAL Add for Sundries and contingencies @ 3.0 % TOTAL Add for water charges & electricity @ 1.5 % TOTAL Add GST (multiplying factor) 0.1405 Add for contractor's profit and overheads @ 15% Add cess Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation	Bleaching powder quintal 0.02454 ₹ Labour: Fitter (grade-I) Day 0.750 ₹ Helper Day 0.750 ₹ TOTAL Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S] TOTAL Add for Sundries and contingencies @ 3.0 % TOTAL Add for water charges & electricity TOTAL Add GST (multiplying factor) 0.1405 Add for contractor's profit and overheads @ 15% Add cess Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation	Bleaching powder quintal 0.02454 ₹ 2,200.00 Labour: Fitter (grade-I) Day 0.750 ₹ 440.00 Helper Day 0.750 ₹ 310.00 TOTAL Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S] TOTAL Add for Sundries and contingencies @ 3.0 % TOTAL Add for water charges & electricity @ 1.5 % TOTAL Add GST (multiplying factor) 0.1405 Add focss @ 1% Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation	Bleaching powder quintal 0.02454 ₹ 2,200.00 ₹ Labour: Fitter (grade-I) Day 0.750 ₹ 440.00 ₹ Helper Day 0.750 ₹ 310.00 ₹ TOTAL Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S] TOTAL Add for Sundries and contingencies @ 3.0 % ₹ TOTAL Add for water charges & electricity @ 1.5 % ₹ TOTAL Add GST (multiplying factor) 0.1405 ₹ ₹ Add for contractor's profit and overheads @ 15% ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹

19.81.7 Code	300 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL:	Unit	Quantity		Rate		Amount
	Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80						
	For 300 mm dia = $10602.90/3 = 3534.30$ gm or 0.03534 q.						
19001	Bleaching powder	quintal	0.03534	₹	2,200.00	₹	77.75
	Labour:						
0215	Fitter (grade-I)	Day	0.600	₹	440.00	₹	264.00
0203	Helper	Day	1.100	₹	310.00	₹	341.00
	TOTAL					₹	682.75
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	6.83
	TOTAL					₹	689.58
	Add for Sundries and contingencies	@	3.0 %			₹	20.69
	TOTAL					₹	710.26
	Add for water charges & electricity	@	1.5 %			₹	10.65
	TOTAL					₹	720.92
	Add GST (multiplying factor)		0.1405			₹	101.29
						₹	822.21
	Add for contractor's profit and overheads	@	15%			₹	123.33
						₹	945.54
	Add cess	@	1%			₹	9.46
	Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation					₹	954.99
	Say					₹	955.00

19.81 Extra for every operation of disinfecting the C.I. main by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the municipal laboratory:

19.81.8 Code	350 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL:	Unit	Quantity		Rate		Amount
	Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80						
	For 350 mm dia =14431.72/3 = 4810.57 gm or 0.04811 q.						
19001	Bleaching powder	quintal	0.04811	₹	2,200.00	₹	105.84
	Labour:						
0215	Fitter (grade-I)	Day	0.700	₹	440.00	₹	308.00
0203	Helper	Day	1.500	₹	310.00	₹	465.00
	TOTAL					₹	878.84
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	8.79
	TOTAL					₹	887.63
	Add for Sundries and contingencies	@	3.0 %			₹	26.63
	TOTAL					₹	914.26
	Add for water charges & electricity	@	1.5 %			₹	13.71
	TOTAL					₹	927.97
	Add GST (multiplying factor)		0.1405			₹	130.38
						₹	1,058.35
	Add for contractor's profit and overheads	@	15%			₹	158.75
						₹	1,217.11
	Add cess	@	1%			₹	12.17
	Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation					₹	1,229.28
	Say					₹	1,229.30

19.81.9 Code	400 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL:	Unit	Quantity		Rate		Amount
	Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80						
19001	For 400 mm dia =18849.60/3 = 6283.20 gm or 0.06283 q. Bleaching powder Labour:	quintal	0.06283	₹	2,200.00	₹	138.23
0215 0203	Fitter (grade-I) Helper TOTAL	Day Day	0.800 1.700	₹	440.00 310.00	₹ ₹	352.00 527.00 1,017.23
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	10.17
	TOTAL					₹	1,027.40
	Add for Sundries and contingencies	@	3.0 %			₹	30.82
	TOTAL					₹	1,058.22
	Add for water charges & electricity	@	1.5 %			₹	15.87
	TOTAL Add GST (multiplying factor)		0.1405			₹ ₹	1,074.09 150.91 1,225.00

Add for contractor's profit and overheads	@	15%	₹	183.75
			₹	1,408.75
Add cess	@	1%	₹	14.09
Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation			₹	1,422.84
Say			₹	1,422.80

19.81.10 Code	450 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL:	Unit	Quantity		Rate		Amount
	Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80						
19001	For 450 mm dia =23856.50/3 = 7952.17 gm or 0.07952 q. Bleaching powder	quintal	0.06283	₹	2,200.00	₹	138.23
0215 0203	Labour: Fitter (grade-I) Helper TOTAL	Day Day	0.900 1.900	₹	440.00 310.00	₹ ₹	396.00 589.00 1,123.23
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	11.23
	TOTAL					₹	1,134.46
	Add for Sundries and contingencies TOTAL	@	3.0 %			₹ ₹	34.03 1,168.49
	Add for water charges & electricity TOTAL	@	1.5 %			₹ ₹	17.53 1,186.02
	Add GST (multiplying factor)		0.1405			₹ ₹	166.64 1,352.66
	Add for contractor's profit and overheads	@	15%			₹ ₹	202.90 1,555.55
	Add cess	@	1%			₹	15.56
	Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation					₹	1,571.11
	Say					₹	1,571.10

19.81.11 Code	500 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL:	Unit	Quantity		Rate		Amount
	Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80						
	For 500 mm dia =29452.50/3 = 9817.50 gm or 0.098175 q.						
19001	Bleaching powder	quintal	0.098175	₹	2,200.00	₹	215.99
	Labour:						
0215	Fitter (grade-I)	Day	1.000	₹	440.00	₹	440.00
0203	Helper	Day	2.100	₹	310.00	₹	651.00
	TOTAL					₹	1,306.99
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	13.07

TOTAL			₹	1,320.05
Add for Sundries and contingencies	@	3.0 %	₹	39.60
TOTAL			₹	1,359.66
Add for water charges & electricity	@	1.5 %	₹	20.39
TOTAL			₹	1,380.05
Add GST (multiplying factor)		0.1405	₹	193.90
			₹	1,573.95
Add for contractor's profit and overheads	@	15%	₹	236.09
			₹	1,810.04
Add cess	@	1%	₹	18.10
Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation			₹	1,828.14
Say			₹	1,828.10

19.81.12 Code	600 mm diametre C.I. pipe. Description Details of cost for 100 metres MATERIAL: Quantity of bleaching powder for this item shall be 1/3 rd the Qty. of bleaching powder as calculated for the pipes of different diameters in Item no.18.80	Unit	Quantity		Rate		Amount
19001	For 600 mm dia =42411.60/3 = 14137.20 gm or 0.1414 q. Bleaching powder	quintal	0.1414	₹	2,200.00	₹	311.08
0045	Labour:	5	4.000	-	440.00	-	500.00
0215 0203	Fitter (grade-I) Helper	Day Day	1.200 2.500	₹	440.00 310.00	₹ ₹	528.00 775.00
0203	TOTAL	Day	2.500	`	310.00	₹	1,614.08
	Add for Pumps, temporary pipe arrangement to supply water and remove the same and expenses for testing & carriage of materials etc. [L.S]	@	1%			₹	16.14
	TOTAL					₹	1,630.22
	Add for Sundries and contingencies	@	3.0 %			₹	48.91
	TOTAL					₹	1,679.13
	Add for water charges & electricity	@	1.5 %			₹	25.19
	TOTAL Add GST (multiplying factor)		0.1405			₹ ₹	1,704.31 239.46 1,943.77
	Add for contractor's profit and overheads	@	15%			₹	291.57 2,235.34
	Add cess	@	1%			₹	22.35
	Extra Cost of disinfecting C.I water pipe for 100.00 mtr. Length for one operation					₹	2,257.69
	Say					₹	2,257.70

19.82

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre:

19.82.1 Code	80 mm diametre C.I. pipe. Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016 02004	Fuel wood required Kerosene oil	quintal litre	0.406 0.415	₹ ₹	600.00 52.00	-	243.60 21.58

abour.		

	For excavation & refilling						
0203	Belder	Day	12.000	₹	310.00	₹	3,720.00
0212	Coolie	Day	12.000	₹	310.00	₹	3,720.00
	For cutting joints lead and making blocks and stacking						
0216	Foreman	Day	0.200	₹	440.00	₹	88.00
0215	Fitter gr-I	Day	1.950	₹	440.00	₹	858.00
0203	Helper	Day	1.950	₹	310.00	₹	604.50
	TOTAL					₹	9,255.68
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	92.56
	TOTAL					₹	9,348.24
	Add for Sundries and contingencies	@	3.0 %			₹	280.45
	TOTAL					₹	9,628.68
	Add for water charges	@	1 %			₹	96.29
	TOTAL					₹	9,724.97
	Add GST (multiplying factor)		0.1405			₹	1,366.36
						₹	11,091.33
	Add for contractor's profit and overheads	@	15%			₹	1,663.70
						₹	12,755.03
	Add cess	@	1%			₹	127.55
	Cost of dismantling C.I pipes for 43.92 mtr.					₹	12,882.58
	Rate per mtr.					₹	293.32
	Say					₹	293.30

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre :

19.	82.2	100	$\mathbf{m}\mathbf{m}$	diametre	C.I.	pipe.
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Code	Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016	Fuel wood required	quintal	0.51	₹	600.00		306.00
02004	Kerosene oil	litre	0.415	₹	52.00	₹	21.58
	Labour:						
	For excavation & refilling						
0203	Belder	Day	12.000	₹	310.00		3,720.00
0212	Coolie	Day	12.000	₹	310.00	₹	3,720.00
0040	For cutting joints lead and making blocks and stacking	D	0.000	-	440.00	-	400.00
0216 0215	Foreman Fitter gr-I	Day Day	0.300 2.250	₹	440.00 440.00	۲ ₹	132.00 990.00
0213	Helper	Day	2.250	₹		₹	697.50
0200	TOTAL	Day	2.200	`	010.00	₹	9,587.08
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	95.87
	TOTAL					₹	9,682.95
	Add for Sundries and contingencies	@	3.0 %			₹	290.49
	TOTAL					₹	9,973.44
	Add for water charges	@	1 %			₹	99.73
	TOTAL					₹	10,073.17
	Add GST (multiplying factor)		0.1405			₹	1,415.28
	Add for contractor's profit and overheads	@	15%			₹ ₹	11,488.45 1,723.27
	Add for contractor a profit and overneads	e	1570			₹	13,211.72
	Add cess	@	1%			₹	132.12
	Cost of dismantling C.I pipes for 43.92 mtr.					₹	13,343.84

Rate per mtr. ₹ 303.82 Say ₹ 303.80

19.82

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre:

19.82.3 Code	125 mm diametre C.I. pipe. Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016 02004	Fuel wood required Kerosene oil	quintal litre	0.61 0.62	₹ ₹	600.00 52.00	₹ ₹	366.00 32.24
	Labour:						
	For excavation & refilling						
0203	Belder	Day	12.000	₹	310.00	₹	3,720.00
0212	Coolie	Day	12.000	₹	310.00	₹	3,720.00
0216	For cutting joints lead and making blocks and stacking Foreman	Day	0.350	₹	440.00	₹	154.00
0215	Fitter gr-l	Day	2.550	₹	440.00	₹	1,122.00
0203	Helper	Day	2.550	₹	310.00	₹	790.50
	TOTAL	,				₹	9,904.74
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	99.05
	TOTAL					₹	10,003.79
	Add for Sundries and contingencies	@	3.0 %			₹	300.11
	TOTAL					₹	10,303.90
	Add for water charges	@	1 %			₹	103.04
	TOTAL					₹	10,406.94
	Add GST (multiplying factor)		0.1405			₹ ₹	1,462.18 11,869.12
	Add for contractor's profit and overheads	@	15%			₹	1,780.37
	That for contractor of profit and overheads	C	1070			₹	13,649.48
	Add cess	@	1%			₹	136.49
	Cost of dismantling C.I pipes for 43.92 mtr.					₹	13,785.98
	Rate per mtr.					₹	313.89
	Say					₹	313.90

19.82

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre:

19.82.4 150 mm diametre C.I. pipe.

Code	Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016	Fuel wood required	quintal	0.715	₹	600.00	₹	429.00
02004	Kerosene oil	litre	0.62	₹	52.00	₹	32.24
	Labour:						
	For excavation & refilling						
0203	Belder	Day	11.500	₹	310.00	₹	3,565.00
0212	Coolie	Day	11.500	₹	310.00	₹	3,565.00
	For cutting joints lead and making blocks and stacking						
0216	Foreman	Day	0.400	₹	440.00	₹	176.00
0215	Fitter gr-I	Day	2.850	₹	440.00	₹	1,254.00
0203	Helper	Day	2.850	₹	310.00	₹	883.50
	TOTAL					₹	9,904.74

Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%	₹	99.05
TOTAL			₹	10,003.79
Add for Sundries and contingencies	@	3.0 %	₹	300.11
TOTAL			₹	10,303.90
Add for water charges	@	1 %	₹	103.04
TOTAL			₹	10,406.94
Add GST (multiplying factor)		0.1405	₹	1,462.18
			₹	11,869.12
Add for contractor's profit and overheads	@	15%	₹	1,780.37
			₹	13,649.48
Add cess	@	1%	₹	136.49
Cost of dismantling C.I pipes for 43.92 mtr.			₹	13,785.98
Rate per mtr.			₹	313.89
Say			₹	313.90

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre:

19.82.5 Code	200 mm diametre C.I. pipe. Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016 02004	Fuel wood required Kerosene oil	quintal litre	0.920 0.8265	₹ ₹	600.00 52.00	₹ ₹	552.00 42.98
	Labour:						
	For excavation & refilling						
0203	Belder	Day	12.000	₹	310.00	₹	3,720.00
0212	Coolie	Day	12.000	₹	310.00	₹	3,720.00
0216	For cutting joints lead and making blocks and stacking Foreman	Dov	0.400	₹	440.00	₹	176.00
0215	Fitter gr-I	Day Day	3.400	₹	440.00	₹	1,496.00
0203	Helper	Day	3.400	₹	310.00	₹	1,054.00
	TOTAL	,				₹	10,760.98
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	107.61
	TOTAL					₹	10,868.59
	Add for Sundries and contingencies	@	3.0 %			₹	326.06
	TOTAL					₹	11,194.65
	Add for water charges	@	1 %			₹	111.95
	TOTAL					₹	11,306.59
	Add GST (multiplying factor)		0.1405			₹	1,588.58
		_				₹	12,895.17
	Add for contractor's profit and overheads	@	15%			₹	1,934.28 14,829.44
						-	•
	Add cess	@	1%			₹	148.29
	Cost of dismantling C.I pipes for 43.92 mtr.					₹	14,977.74
	Rate per mtr.					₹	341.02
	Say					₹	341.00

19.82

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre :

19.82.6 250 mm diametre C.I. pipe.

Code Description Unit Quantity Rate Amount MATERIAL:

	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016	Fuel wood required	quintal	1.150	₹	600.00	₹	690.00
02004	Kerosene oil	litre	1.25	₹	52.00	₹	65.00
	Labour:						
	For excavation & refilling						
0203	Belder	Day	12.250	₹	310.00	₹	3,797.50
0212	Coolie	Day	12.250	₹	310.00	₹	3,797.50
	For cutting joints lead and making blocks and stacking						
0216	Foreman	Day	0.450	₹		₹	198.00
0215	Fitter gr-I	Day	4.000	₹	440.00	₹	1,760.00
0203	Helper	Day	4.000	₹	310.00	₹	1,240.00
	TOTAL					₹	11,548.00
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	115.48
	TOTAL					₹	11,663.48
	Add for Sundries and contingencies	@	3.0 %			₹	349.90
	TOTAL					₹	12,013.38
	Add for water charges	@	1 %			₹	120.13
	TOTAL					₹	12,133.52
	Add GST (multiplying factor)		0.1405			₹	1,704.76
						₹	13,838.28
	Add for contractor's profit and overheads	@	15%			₹	2,075.74
						₹	15,914.02
	Add cess	@	1%			₹	159.14
	Cost of dismantling C.I pipes for 43.92 mtr.					₹	16,073.16
	Rate per mtr.					₹	365.96
	Say					₹	366.00
	•						

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre :

19.82.7 Code	300 mm diametre C.I. pipe. Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016	Fuel wood required	quintal	1.250	₹	600.00	₹	750.00
02004	Kerosene oil	litre	1.65	₹	52.00	₹	85.80
	Labour:						
	For excavation & refilling						
0203	Belder	Day	12.600	₹	310.00	₹	3,906.00
0212	Coolie	Day	12.600	₹	310.00	₹	3,906.00
	For cutting joints lead and making blocks and stacking						
0216	Foreman	Day	0.500	₹	440.00	₹	220.00
0215	Fitter gr-I	Day	4.500	₹	440.00	₹	1,980.00
0203	Helper	Day	4.500	₹	310.00	₹	1,395.00
	TOTAL					₹	12,242.80
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	122.43
	TOTAL					₹	12,365.23
	Add for Sundries and contingencies	@	3.0 %			₹	370.96
	TOTAL					₹	12,736.18
	Add for water charges	@	1 %			₹	127.36
	TOTAL					₹	12,863.55
	Add GST (multiplying factor)		0.1405			₹	1,807.33
						₹	14,670.87
	Add for contractor's profit and overheads	@	15%			₹	2,200.63

			₹	16,871.51
Add cess	@	1%	₹	168.72
Cost of dismantling C.I pipes for 43.92 mtr.			₹	17,040.22
Rate per mtr.			₹	387.98
Say			₹	388.00

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre:

19.82.8 Code	350 mm diametre C.I. pipe. Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016 02004	Fuel wood required Kerosene oil	quintal litre	1.350 1.7	₹ ₹	600.00 52.00	₹ ₹	810.00 88.40
	Labour:						
	For excavation & refilling						
0203	Belder	Day	12.750	₹	310.00		3,952.50
0212	Coolie	Day	12.750	₹	310.00	₹	3,952.50
0216	For cutting joints lead and making blocks and stacking Foreman	Day	0.600	₹	440.00	₹	264.00
0215	Fitter gr-I	Day	5.500	₹	440.00	₹	2,420.00
0203	Helper	Day	5.500	₹	310.00	₹	1,705.00
	TOTAL	•				₹	13,192.40
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	131.92
	TOTAL					₹	13,324.32
	Add for Sundries and contingencies	@	3.0 %			₹	399.73
	TOTAL					₹	13,724.05
	Add for water charges	@	1 %			₹	137.24
	TOTAL					₹	13,861.29
	Add GST (multiplying factor)		0.1405			₹	1,947.51
			450			₹	15,808.81
	Add for contractor's profit and overheads	@	15%			₹ ₹	2,371.32 18,180.13
	Add assa		4.07			₹	
	Add cess	@	1%			<	181.80
	Cost of dismantling C.I pipes for 43.92 mtr.					₹	18,361.93
	Rate per mtr.					₹	418.08
	Say					₹	418.10

19.82

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre:

19.82.9 Code	400 mm diametre C.I. pipe. Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016	Fuel wood required	quintal	1.450	₹	600.00	₹	870.00
02004	Kerosene oil	litre	2.00	₹	52.00	₹	104.00
	Labour:						
	For excavation & refilling						
0203	Belder	Day	12.850	₹	310.00	₹	3,983.50
0212	Coolie	Day	12.850	₹	310.00	₹	3,983.50
	For cutting joints lead and making blocks and stacking						
0216	Foreman	Day	0.700	₹	440.00	₹	308.00

0215 0203	Fitter gr-I Helper TOTAL	Day Day	5.650 5.650	₹	440.00 310.00	₹ ₹	2,486.00 1,751.50 13,486.50
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	134.87
	TOTAL					₹	13,621.37
	Add for Sundries and contingencies	@	3.0 %			₹	408.64
	TOTAL					₹	14,030.01
	Add for water charges	@	1 %			₹	140.30
	TOTAL					₹	14,170.31
	Add GST (multiplying factor)		0.1405			₹	1,990.93
						₹	16,161.23
	Add for contractor's profit and overheads	@	15%			₹	2,424.19
						₹	18,585.42
	Add cess	@	1%			₹	185.85
	Cost of dismantling C.I pipes for 43.92 mtr.					₹	18,771.27
	Rate per mtr.					₹	427.40
	Say					₹	427.40

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre:

19.82.10 Code	450 mm diametre C.I. pipe. Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016	Fuel wood required	quintal	1.500	₹	600.00		900.00
02004	Kerosene oil	litre	2.50	₹	52.00	₹	130.00
	Labour:						
	For excavation & refilling						
0203	Belder	Day	14.000	₹	310.00		4,340.00
0212	Coolie	Day	14.000	₹	310.00	₹	4,340.00
0040	For cutting joints lead and making blocks and stacking	_		-	440.00	-	
0216	Foreman	Day	0.750	₹	440.00 440.00	₹	330.00
0215 0203	Fitter gr-I Helper	Day Day	6.250 6.250	₹	310.00	₹	2,750.00 1,937.50
0203	TOTAL	Day	0.230	`	310.00	₹	14,727.50
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	147.28
	TOTAL					₹	14,874.78
	Add for Sundries and contingencies	@	3.0 %			₹	446.24
	TOTAL					₹	15,321.02
	Add for water charges	@	1 %			₹	153.21
	TOTAL					₹	15,474.23
	Add GST (multiplying factor)		0.1405			₹	2,174.13
						₹	17,648.36
	Add for contractor's profit and overheads	@	15%			₹	2,647.25
						₹	20,295.61
	Add cess	@	1%			₹	202.96
	Cost of dismantling C.I pipes for 43.92 mtr.					₹	20,498.57
	Rate per mtr.					₹	466.73

19.82

Say

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre :

466.70

₹

19.82.11 Code	500 mm diametre C.I. pipe. Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016 02004	Fuel wood required Kerosene oil	quintal litre	1.650 2.90	₹ ₹	600.00 52.00	₹ ₹	990.00 150.80
	Labour:						
	For excavation & refilling						
0203	Belder	Day	15.250	₹	310.00		4,727.50
0212	Coolie	Day	15.250	₹	310.00	₹	4,727.50
0216	For cutting joints lead and making blocks and stacking	Dov	0.900	₹	440.00	₹	396.00
0216	Foreman Fitter gr-I	Day Day	6.750	₹	440.00	₹	2,970.00
0203	Helper	Day	6.750	₹	310.00	₹	2,092.50
	TOTAL	,				₹	16,054.30
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	160.54
	TOTAL					₹	16,214.84
	Add for Sundries and contingencies	@	3.0 %			₹	486.45
	TOTAL					₹	16,701.29
	Add for water charges	@	1 %			₹	167.01
	TOTAL					₹	16,868.30
	Add GST (multiplying factor)		0.1405			₹	2,370.00
	Add for contractor's profit and overheads	@	15%			₹	19,238.30 2,885.74
	Add for contractor's profit and overneads	<u>w</u>	15%			₹	2,003.74 22,124.04
	Add cess	@	1%			₹	221.24
	Cost of dismantling C.I pipes for 43.92 mtr.					₹	22,345.28
	Rate per mtr.					₹	508.77
	Say					₹	508.80

Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre :

19.82.12 600 mm diametre C.I. pipe.

Code	Description MATERIAL:	Unit	Quantity		Rate		Amount
	Consider dismantling C.I pipes for 12 x 3.66=43.92 mtr. or 12 joints.						
11016	Fuel wood required	quintal	1.850	₹	600.00	₹	1,110.00
02004	Kerosene oil	litre	3.75	₹	52.00	₹	195.00
	Labour:						
	For excavation & refilling						
0212	Belder	Day	17.750	₹	310.00	₹	5,502.50
0212	Coolie	Day	17.750	₹	310.00	₹	5,502.50
	For cutting joints lead and making blocks and stacking						
0215	Foreman	Day	1.000	₹	440.00	₹	440.00
0203	Fitter gr-I	Day	8.000	₹	310.00	₹	2,480.00
0203	Helper	Day	8.000	₹	310.00	₹	2,480.00
	TOTAL					₹	17,710.00
	Add for carriage of materials, Chisels, Heater etc.[L.S]	@	1%			₹	177.10
	TOTAL					₹	17,887.10
	Add for Sundries and contingencies	@	3.0 %			₹	536.61
	TOTAL					₹	18,423.71
	Add for water charges	@	1 %			₹	184.24
	TOTAL					₹	18,607.95
	Add GST (multiplying factor)		0.1405			₹	2,614.42
						₹	21,222.37

	Add for contractor's profit and overheads	@	15%			₹ ₹	3,183.36 24,405.72
	Add cess	@	1%			₹	244.06
	Cost of dismantling C.I pipes for 43.92 mtr.					₹	24,649.78
	Rate per mtr. Say					₹	561.24 561.20
	Say					•	301.20
19.83	Labour for cutting C.I. pipe with steel saw.						
19.83.1	· ·	Heit	Quantitu		Rete		Amount
Code	Description Detail of cost for one cut.	Unit	Quantity		Rate		Amount
	Labour:						
0215	Fitter (grade-1)	Day	0.060	₹	440.00	₹	26.40
0203	Belder TOTAL	Day	0.060	₹	310.00	₹	18.60
			40.04			₹ -	45.00
	Add for cost of replacement of blades of steel saw etc.	@	10 %			₹	4.50
	TOTAL					₹	49.50
	Add for Sundries and contingencies	@	3.0 %			₹	1.49
	TOTAL		4.0/			₹	50.99
	Add for water charges TOTAL	@	1 %			₹	0.51 51.49
	Add GST (multiplying factor)		0.1405			₹	7.24
						₹	58.73
	Add for contractor's profit and overheads	@	15%			₹ ₹	8.81 67.54
	Add cess		1%			₹	0.68
		@	. 70			` ₹	68.21
	Rate per cutting Say					₹	68.20
							00.20
19.83	Labour for cutting C.I. pipe with steel saw.						
19.83.2	100 mm diametre C.I. pipe.		0 47		B. C.		
	100 mm diametre C.I. pipe. Description	Unit	Quantity		Rate		Amount
19.83.2	100 mm diametre C.I. pipe.	Unit	Quantity		Rate		Amount
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1)	Day	0.080	₹	440.00	₹	35.20
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder			₹		₹	35.20 24.80
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL	Day Day	0.080 0.080		440.00	₹ ₹	35.20 24.80 60.00
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder	Day	0.080		440.00	₹	35.20 24.80
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL	Day Day	0.080 0.080 11 %		440.00	₹ ₹ ₹	35.20 24.80 60.00 6.60 66.60
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc.	Day Day	0.080 0.080		440.00	₹ ₹	35.20 24.80 60.00 6.60
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL	Day Day @	0.080 0.080 11 % 3.0 %		440.00	₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 66.60 2.00 68.60
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges	Day Day @	0.080 0.080 11 %		440.00	₹ ₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 66.60 2.00 68.60 0.69
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	Day Day @	0.080 0.080 11 % 3.0 %		440.00	₹ ₹ ₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 66.60 2.00 68.60 0.69 69.28
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges	Day Day @	0.080 0.080 11 % 3.0 %		440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 66.60 2.00 68.60 0.69 69.28 9.73 79.02
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL	Day Day @	0.080 0.080 11 % 3.0 %		440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 66.60 2.00 68.60 0.69 69.28 9.73 79.02 11.85
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads	Day Day @ @	0.080 0.080 11 % 3.0 % 1 % 0.1405 15%		440.00	? ? ? ? ? ? ? ? ? ? ? ? ?	35.20 24.80 60.00 6.60 2.00 68.60 0.69 69.28 9.73 79.02 11.85 90.87
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	Day Day @ @	0.080 0.080 11 % 3.0 % 1 % 0.1405		440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 2.00 68.60 0.69 69.28 9.73 79.02 11.85 90.87 0.91
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Rate per cutting	Day Day @ @	0.080 0.080 11 % 3.0 % 1 % 0.1405 15%		440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 2.00 68.60 0.69 69.28 9.73 79.02 11.85 90.87 0.91
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	Day Day @ @	0.080 0.080 11 % 3.0 % 1 % 0.1405 15%		440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 66.60 2.00 68.60 0.69 69.28 9.73 79.02 11.85 90.87 0.91
19.83.2 Code	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Rate per cutting	Day Day @ @	0.080 0.080 11 % 3.0 % 1 % 0.1405 15%		440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 2.00 68.60 0.69 69.28 9.73 79.02 11.85 90.87 0.91
19.83.2 Code 0215 0203	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Rate per cutting Say Labour for cutting C.I. pipe with steel saw.	Day Day @ @	0.080 0.080 11 % 3.0 % 1 % 0.1405 15%		440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 2.00 68.60 0.69 69.28 9.73 79.02 11.85 90.87 0.91
19.83.2 Code 0215 0203	100 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour: Fitter (grade-1) Belder TOTAL Add for cost of replacement of blades of steel saw etc. TOTAL Add for Sundries and contingencies TOTAL Add for water charges TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Rate per cutting Say	Day Day @ @	0.080 0.080 11 % 3.0 % 1 % 0.1405 15%		440.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	35.20 24.80 60.00 6.60 2.00 68.60 0.69 69.28 9.73 79.02 11.85 90.87 0.91

	Detail of cost for one cut.						
	Labour:		0.440	_	440.00	_	40.40
0215 0203	Fitter (grade-1) Belder	Day Day	0.110 0.110	₹	440.00 310.00	₹	48.40 34.10
0200	TOTAL	24,	00		0.0.00	₹	82.50
	Add for cost of replacement of blades of steel saw etc.	@	11.25 %			₹	9.28
	TOTAL					₹	91.78
	Add for Sundries and contingencies	@	3.0 %			₹	2.75
	TOTAL					₹	94.53
	Add for water charges	@	1 %			₹	0.95
	TOTAL Add GST (multiplying factor)		0.1405			₹	95.48 13.41
						₹	108.89
	Add for contractor's profit and overheads	@	15%			₹ ₹	16.33 125.23
	Add cess	@	1%			₹	1.25
	Rate per cutting	<u>u</u>				₹	126.48
	Say					₹	126.50
19.83 19.83 4	Labour for cutting C.I. pipe with steel saw. 150 mm diametre C.I. pipe.						
Code	Description	Unit	Quantity		Rate		Amount
	Detail of cost for one cut.						
0215	Labour: Fitter (grade-1)	Day	0.150	₹	440.00	₹	66.00
0203	Belder	Day	0.150	₹	310.00	₹	46.50
	TOTAL					₹	112.50
	Add for cost of replacement of blades of steel saw etc.	@	11.5 %			₹	12.94
	TOTAL					₹	125.44
	Add for Sundries and contingencies	@	3.0 %			₹	3.76
	TOTAL					₹	129.20
	Add for water charges TOTAL	@	1 %			₹	1.29 130.49
	Add GST (multiplying factor)		0.1405			₹ ₹	18.33
	Add for contractor's profit and overheads	@	15%			₹	148.83 22.32
	Add for contractor's profit and overneads	w w	15%			₹	171.15
	Add cess	@	1%			₹	1.71
	Rate per cutting					₹	172.86
	Say					₹	172.90
19.83 19.83.5	Labour for cutting C.I. pipe with steel saw. 200 mm diametre C.I. pipe.						
Code	Description Detail of cost for one cut.	Unit	Quantity		Rate		Amount
	Labour:	_		_	,	_	
0215 0203	Fitter (grade-1) Belder	Day Day	0.200 0.200	₹	440.00 310.00	₹	88.00 62.00
0200	TOTAL	,	0.200		0.0.00	₹	150.00
	Add for cost of replacement of blades of steel saw etc.	@	10.5 %			₹	15.75
	TOTAL					₹	165.75
	Add for Sundries and contingencies	@	3.0 %			₹	4.97
	TOTAL					₹	170.72
	Add for water charges	@	1 %			₹	1.71

	TOTAL Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Rate per cutting Say	@	0.1405 15% 1%			₹₹₹₹₹₹	172.43 24.23 196.66 29.50 226.15 2.26 228.42 228.42
19.83 19.83.6 Code	Labour for cutting C.I. pipe with steel saw. 250 mm diametre C.I. pipe. Description Detail of cost for one cut.	Unit	Quantity		Rate		Amount
	Labour:						
0215	Fitter (grade-1)	Day	0.250	₹		₹	110.00
0203	Belder	Day	0.250	₹		₹	77.50
	TOTAL					₹	187.50
	Add for cost of replacement of blades of steel saw etc.	@	9.5 %			₹	17.81
	TOTAL					₹	205.31
	Add for Sundries and contingencies	@	3.0 %			₹	6.16
	TOTAL					₹	211.47
	Add for water charges	@	1 %			₹	2.11
	TOTAL		0.1405			₹ =	213.59
	Add GST (multiplying factor)		0.1405			₹ ₹	30.01 243.60
	Add for contractor's profit and overheads	@	15%			₹	36.54
						₹	280.13
	Add cess	@	1%			₹	2.80
	Rate per cutting					₹	282.94
	Say					₹	282.90
19.83 19.83.7 Code	Labour for cutting C.I. pipe with steel saw. 300 mm diametre C.I. pipe. Description	Unit	Quantity		Rate		Amount
	Detail of cost for one cut. Labour:						
0215	Fitter (grade-1)	Day	0.300	₹	440.00	₹	132.00
0203	Belder	Day	0.300	₹		₹	93.00
	TOTAL					₹	225.00
	Add for cost of replacement of blades of steel saw etc.	@	9.25 %			₹	20.81
	TOTAL					₹	245.81
	Add for Sundries and contingencies	@	3.0 %			₹	7.37
	TOTAL					₹	253.19
	Add for water charges	@	1 %			₹	2.53
	TOTAL					₹	255.72
	Add GST (multiplying factor)		0.1405			₹ ₹	35.93 291.65
	Add for contractor's profit and overheads	@	15%			₹	43.75
						₹	335.39
	Add cess	@	1%			₹	3.35
	Rate per cutting					₹	338.75
	Say					₹	338.70
19.83	Labour for cutting C.I. pipe with steel saw.						
19.83.8							
Code	Description	Unit	Quantity		Rate		Amount

	Detail of cost for one cut.						
0215	Labour: Fitter (grade-1)	Day	0.350	₹	440.00	₹	154.00
0213	Belder	Day Day	0.350	₹	310.00	₹	108.50
	TOTAL	•				₹	262.50
	Add for cost of replacement of blades of steel saw etc.	@	9.0 %			₹	23.63
	TOTAL					₹	286.13
	Add for Sundries and contingencies	@	3.0 %			₹	8.58
	TOTAL					₹	294.71
	Add for water charges	@	1 %			₹	2.95
	TOTAL Add GST (multiplying factor)		0.1405			₹	297.66 41.82
	A116		450			₹	339.48
	Add for contractor's profit and overheads	@	15%			₹ ₹	50.92 390.40
	Add cess	@	1%			₹	3.90
	Rate per cutting					₹	394.30
	Say					₹	394.30
19.83	Labour for cutting C.I. pipe with steel saw.						
	400 mm diametre C.I. pipe.						
Code	Description Detail of cost for one cut.	Unit	Quantity		Rate		Amount
	Labour:						
0215	Fitter (grade-1)	Day	0.400	₹	440.00	₹	176.00
0203	Belder	Day	0.400	₹	310.00	₹	124.00
	TOTAL					₹	300.00
	Add for cost of replacement of blades of steel saw etc.	@	10.0 %			₹	30.00
	TOTAL	8	2.0.0/			₹	330.00
	Add for Sundries and contingencies TOTAL	@	3.0 %			₹	9.90 339.90
	Add for water charges	@	1 %			₹	3.40
	TOTAL					₹	343.30
	Add GST (multiplying factor)		0.1405			₹ ₹	48.23 391.53
	Add for contractor's profit and overheads	@	15%			₹	58.73
						₹	450.26
	Add cess	@	1%			₹	4.50
	Rate per cutting					₹	454.77
	Say					₹	454.80
40.00							
19.83 19.83.10	Labour for cutting C.I. pipe with steel saw. 450 mm diametre C.I. pipe.						
Code	Description	Unit	Quantity		Rate		Amount
	Detail of cost for one cut.						
0215	Labour: Fitter (grade-1)	Day	0.450	₹	440.00	₹	198.00
0203	Belder	Day	0.450	₹	310.00	₹	139.50
	TOTAL					₹	337.50
	Add for cost of replacement of blades of steel saw etc.	@	10.25 %			₹	34.59
	TOTAL					₹	372.09
	Add for Sundries and contingencies	@	3.0 %			₹	11.16
	TOTAL	@	4.0/			₹	383.26
	Add for water charges TOTAL	@	1 %			₹	3.83 387.09
	Add GST (multiplying factor)		0.1405			₹	54.39

	Details of cost for one no. Materials:						
19.84.1 Code	15 mm nominal bore Description	Unit	Quantity		Rate		Amount
19.84	Providing & fixing chrome plated brass battery based in technology	frared senso	r operated _l	pilla	r cock, ha	avin	g foam flow
	Rate per cutting Say					₹	677.50 677.50
	Add cess	@	1%			₹	6.71
	Add for contractor's profit and overheads	@	15%			₹ ₹	87.49 670.79
	Add GST (multiplying factor)		0.1405			₹	71.86 583.29
	Add for water charges TOTAL	@	1 %			₹ ₹	5.06 511.44
	Add for Sundries and contingencies TOTAL	<u>w</u>	J.U /0			₹	506.37
	TOTAL Add for Cundring and contingenting	@	3.0 %			₹	491.63 14.75
	Add for cost of replacement of blades of steel saw etc.	@	9.25 %			₹	41.63
0203	Belder TOTAL	Day	0.600	₹	310.00	₹ ₹	186.00 450.00
0215	Detail of cost for one cut. Labour: Fitter (grade-1)	Day	0.600	₹	440.00		264.00
	Labour for cutting C.I. pipe with steel saw. 600 mm diametre C.I. pipe. Description	Unit	Quantity		Rate		Amount
	Rate per cutting Say					₹	571.04
	Add cess	@	1%			₹	5.65 571.04
	Add for contractor's profit and overheads	@	15%			₹ ₹	73.75 565.39
	Add GST (multiplying factor)		0.1405			₹ ₹	60.57 491.64
	Add for water charges TOTAL	@	1 %			₹	4.27 431.07
	Add for Sundries and contingencies TOTAL	@	3.0 %			₹	12.43 426.81
	TOTAL	_				₹	414.38
	Add for cost of replacement of blades of steel saw etc.	@	10.5 %			₹	39.38
0215 0203	Fitter (grade-1) Belder TOTAL	Day Day	0.500 0.500	₹	440.00 310.00	₹ ₹	220.00 155.00 375.00
19.83.11 Code	500 mm diametre C.I. pipe. Description Detail of cost for one cut. Labour:	Unit	Quantity		Rate		Amount
19.83	Labour for cutting C.I. pipe with steel saw.					₹	512.80
	Rate per cutting					₹	512.77
	Add cess	@	1%			₹	507.70 5.08
	Add for contractor's profit and overheads	@	15%			₹ ₹	441.48 66.22

19254 15 mm Battery Based Sensor Pillar Cock	each	1.00	₹	7,000.00	₹	7,000.00
TOTAL					₹	7,000.00
Add for carriage of materials and fixing charges etc.	@	1.0%			₹	70.00
TOTAL					₹	7,070.00
Add for Sundries and contingencies	@	3.0%			₹	212.10
TOTAL					₹	7,282.10
Add GST (multiplying factor)		0.1405			₹	1,023.14
					₹	8,305.24
Add for contractor's profit and overheads	@	15%			₹	1,245.79
					₹	9,551.02
Add cess	@	1%			₹	95.51
Cost of one no. battery based infrared sensor operated pillar cock					₹	9,646.53
Say					₹	9,646.50

SUB HEAD: 20.0

SEWAGE AND DRAINAGE

20.1	Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing of				xture of c	em	ent mortar ir
20.1.1	100 mm diameter						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 30 metre						
	MATERIALS						
20030	(i)100 mm stone ware pipes 60 cm long	each	55.00	₹	55.00	₹	3,025.00
0447	(ii)Carriage of pipes	100 metre	0.33	₹	157.65	₹	52.02
	Added 10% allowance for breakage in items (I) & (II)						
03001	Cement of 50 joints = 0.019 tonne	tonne	0.019	₹	5,800.00	₹	110.20
0421	Carriage of cement	tonne	0.019	₹	102.47	₹	1.95
02003	Fine sand	cum	0.01	₹	560.00	₹	5.60
0425	Carriage of fine sand	cum	0.01	₹	131.75	₹	1.32
20036	Spun yarn or plain gaskin @ 0.09 kg per joint	kilogram	4.50	₹	50.00	₹	225.00
	= 0.09 x 50 = 4.50 kg						
	LABOUR						
0219	Mason (brick layer) 1st class	Day	1.00	₹	440.00	₹	440.00
0220	Mason (for plain stone work) 2nd class	Day	1.00	₹	395.00	₹	395.00
0203	Belder	Day	3.00	₹	310.00	₹	930.00
0205	Bhisti/Waterman	Day	1.00	₹	310.00	₹	310.00
	TOTAL (I)					₹	5,496.09
	Add 3% for sundries & contingencies on (I)	@	3%			₹	164.88
	TOTAL (II)					₹	5,660.97
	Add 1 % for water charges on (II)	@	1%			₹	56.61
	TOTAL (III)					₹	5,717.58
	Add GST (multiplying factor) on (III)		0.1405			₹	803.32
	TOTAL (IV)					₹	6,520.90
	Add for contractor's profit and overheads on (IV)	@	15%			₹	978.14
	TOTAL (V)					₹	7,499.04
	Add cess on (V)	@	1%			₹	74.9
	Total cost for 30 Mtr.					₹	7,574.03
	Total cost for 1 Mtr.			-		₹	252.4
	Rate per metre (Say)					₹	
	Kate per Hietre (Say)					<	252.50
20.1	Providing, laying and jointing glazed stoneware pitche of 1:1 (1 cement: 1 fine sand) including testing of				xture of c	em	ent mortar ir
20.1.2	150 mm diameter		T			1	
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 30 metre						
	MATERIALS						
20031	(i) 150 mn stone.ware pipes 60 cm long	each	55.00	₹	100.00	₹	5,500.00
0448	(ii) Carriage of pipes	100 metre	0.33	₹	307.42	₹	101.45
	Added 10% allowance for breakage in items (i) & (ii)						
03001	Cement of 50 joints = 0.036 tonne	tonne	0.036	₹	5,800.00	₹	208.80
0421	Carriage of cement	tonne	0.036	₹	102.47	₹	3.69
02003	Fine sand	cum	0.019	₹	560.00	₹	10.64
0425	Carriage of fine sand	cum	0.019	₹	131.75	₹	2.50
20036	Spun yarn or plain gaskin @ 0.18 kg per joint	kilogram	9.00	₹	50.00	₹	450.00
	= 0.18x50 = 9 kg						
	LABOUR						
0219	Mason (brick layer) 1st class	Day	1.50	₹	440.00	₹	660.00

0220	Mason (for plain stone work) 2nd class	Day	1 50	₹	395.00	₹	E02 E0
0203	Beldar	Day	1.50	₹		₹	592.50 1,240.00
0205		Day	4.00	₹	310.00 310.00	₹	310.00
0203	Bhisti/Waterman TOTAL (I)	Day	1.00	ζ.	310.00	₹	9,079.58
	Add 3% for sundries & contingencies on (I)	@	3%			₹	272.39
	TOTAL (II)	Ü	070			₹	9,351.97
	Add 1 % for water charges on (II)	@	1%			₹	93.52
	TOTAL (III)					₹	9,445.49
	Add GST (multiplying factor) on (III)		0.1405			₹	1,327.09
	TOTAL (IV)					₹	10,772.58
	Add for contractor's profit and overheads on (IV)	@	15%			₹	1,615.89
	TOTAL (V)					₹	12,388.47
	Add cess on (V)	@	1%			₹	123.88
	Total cost for 30 Mtr.					₹	12,512.35
	Total cost for 1 Mtr.					₹	417.08
	Rate per metre (Say)					₹	417.10
	inate per mene (eag)					<u> </u>	417.10
20.1	Providing, laying and jointing glazed stoneware pi	pes grade 'A'	with stiff	mi	xture of c	eme	nt mortar in
	the of 1:1 (1 cement: 1 fine sand) including testing						
20.1.3	200 mm diameter						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 30 metre						
	MATERIALS						
20032	(i) 200 mm stone ware pipes 60 cm long	each	55.00	₹	200.00	₹	11,000.00
0449	(ii) Carriage of pipes	100 metre	0.33	₹	512.37	₹	169.08
	Added 10% allowance for breakage in items (i) & (ii)						
03001	Cement of 50 joints = 0.053 tonne	tonne	0.053	₹	5,800.00	₹	307.40
0421	Carriage of cement	tonne	0.053	₹	102.47	₹	5.43
02003	Fine sand	cum	0.028	₹	560.00	₹	15.68
0425	Carriage of fine sand	cum	0.028	₹	131.75	₹	3.69
20036	Spun yarn or plain gaskin @ 0.24 kg per joint	Kilogram	12.00	₹	50.00	₹	600.00
	= 0.24 x 50 = 12.00 kg						
2010	LABOUR						
0219	Mason (brick layer) 1st class	Day	1.75	₹	440.00		770.00
0220	Mason (for plain stone work) 2nd class	Day	1.75	₹	395.00	₹	691.25
0203 0205	Beldar Bhishti	Day	4.50	₹	310.00	₹	1,395.00
0203		Day	1.25	₹	310.00	₹	387.50
	TOTAL (I)	@	3%			₹	15,345.03 460.35
	Add 3% for sundries & contingencies on (I) TOTAL (II)	е	370			₹	15,805.38
	Add 1 % for water charges on (II)	@	1%			₹	158.05
	TOTAL (III)		.,,			₹	15,963.43
	Add GST (multiplying factor) on (III)		0.1405			₹	2,242.86
	TOTAL (IV)					₹	18,206.29
	Add for contractor's profit and overheads on (IV)	@	15%			₹	2,730.94
	TOTAL (V)					₹	20,937.23
	Add cess on (V)	@	1%			₹	209.37
	Total cost for 30 Mtr.		1			₹	21,146.60
	Total cost for 1 Mtr.		1			₹	704.89
	Rate per metre (Say)					₹	704.90
20.1	Providing, laying and jointing glazed stoneware pi	pes grade 'A	with stiff	mi	xture of c	eme	nt mortar in
	the of 1:1 (1 cement: 1 fine sand) including testing	of joints etc.	complete				
20.1.4	230 mm diameter						
Code	Description	Unit	Quantity		Rate		Amount
	·		· ·	_	· · · · · · · · · · · · · · · · · · ·	_	

	Details of cost for 30 metre						
	MATERIALS						
20033	(i) 230 mm stone wacgpipes 60 cm long	each	55.00	₹	250.00	₹	13,750.00
0450	(ii) Carriage of pipes	100m.	0.33	₹	731.96	₹	241.55
	Added 10% allowance for breakage in items (I) & (ii)						
03001	Cement of 50 joints = 0.065 tonne	tonne	0.065	₹	5,800.00	₹	377.00
0421	Carriage of cement	tonne	0.065	₹	102.47	₹	6.66
02003	Fine sand	cum	0.036	₹	560.00	₹	20.16
0425	Carriage of fine sand	cum	0.036	₹	131.75	₹	4.74
20036	Spun yarn or plain gaskin @ 0.27 kg per joint	kilogram	13.50	₹	50.00	₹	675.00
	= 0.27 x 50 =13.50 kg						
	LABOUR						
0219	Mason (brick layer) 1st class	Day	2.00	₹	440.00	₹	880.00
0220	Mason (for plain stone work) 2nd class	Day	2.00	₹	395.00	₹	790.00
0203	Beldar	Day	5.00	₹	310.00	₹	1,550.00
0205	Bhishti	Day	1.50	₹	310.00	₹	465.00
	TOTAL (I)		20/			₹	18,760.11
	Add 3% for sundries & contingencies on (I)	@	3%			₹	562.80
	TOTAL (II)	@	1%			₹	19,322.91
	Add 1 % for water charges on (II) TOTAL (III)	<u> </u>	1 /0			₹	193.23 19,516.14
	Add GST (multiplying factor) on (III)		0.1405			₹	2,742.02
	TOTAL (IV)		0.1100			₹	22,258.16
	Add for contractor's profit and overheads on (IV)	@	15%			₹	3,338.72
	TOTAL (V)					₹	25,596.88
			1%			₹	255.97
	Add cess on (V)	@	1 /0				
	Add cess on (V) Total cost for 30 Mtr.	@	170				25.852.85
	Add cess on (V) Total cost for 30 Mtr. Total cost for 1 Mtr.	@	170			₹	
	Total cost for 30 Mtr.	@	170			₹	861.76
	Total cost for 30 Mtr. Total cost for 1 Mtr.	@	170			₹	
20.1	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pi	pes grade 'A	with stiff		xture of c	₹	861.76 861.80
20.1	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing	pes grade 'A	with stiff		xture of c	₹	
20.1.5	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter	oes grade 'A of joints etc.	with stiff			₹	861.76 861.80 ent mortar in
	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing	pes grade 'A	with stiff		xture of c	₹	861.76 861.80
20.1.5	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter	oes grade 'A of joints etc.	with stiff			₹	861.76 861.80 ent mortar in
20.1.5	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description	oes grade 'A of joints etc.	with stiff			₹	861.76 861.80 ent mortar in
20.1.5	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre	oes grade 'A of joints etc.	with stiff			₹	861.76 861.80 ent mortar in Amount
20.1.5 Code	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS	pes grade 'A of joints etc. Unit	with stiff complete Quantity		Rate	₹ ₹	861.76 861.80 ent mortar in Amount
20.1.5 Code	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long	pes grade 'A of joints etc. Unit each.	Quantity 55.00	₹	Rate 320.00	₹ ₹	861.76 861.80 ent mortar in
20.1.5 Code	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii)	oes grade 'A' of joints etc. Unit each. 100m.	Quantity 55.00 0.33	₹	Rate 320.00 878.34	₹ ₹ ₹	861.76 861.80 ent mortar in Amount 17,600.00 289.85
20.1.5 Code 20034 0451	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne	each. 100m.	Quantity 55.00 0.33	₹	Rate 320.00 878.34 5,800.00	₹ ₹ ₹ ₹	861.76 861.80 ent mortar in Amount 17,600.00 289.85
20.1.5 Code 20034 0451 03001 0421	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement	unit each. 100m. tonne tonne	Quantity 55.00 0.33 0.094 0.094	₹₹	Rate 320.00 878.34 5,800.00 102.47	₹ ₹ ₹ ₹ ₹	861.76 861.80 ent mortar in Amount 17,600.00 289.85 545.20 9.63
20.1.5 Code 20034 0451 03001 0421 02003	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement Fine sand	each. 100m.	Cwith stiff complete Quantity 55.00 0.33 0.094 0.094 0.095	₹ ₹ ₹ ₹	Rate 320.00 878.34 5,800.00 102.47 560.00	₹ ₹	861.76 861.80 Pent mortar in Amount 17,600.00 289.85 545.20 9.63 28.00
20.1.5 Code 20034 0451 03001 0421 02003 0425	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement	unit each. 100m. tonne tonne	Quantity 55.00 0.33 0.094 0.094	₹₹	Rate 320.00 878.34 5,800.00 102.47	₹ ₹ ₹ ₹ ₹	861.76 861.80 Pent mortar in Amount 17,600.00 289.85 545.20 9.63 28.00
20.1.5 Code 20034 0451 03001 0421 02003	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement Fine sand	each. 100m. tonne tonne cum	Cwith stiff complete Quantity 55.00 0.33 0.094 0.094 0.095	₹ ₹ ₹ ₹	Rate 320.00 878.34 5,800.00 102.47 560.00	₹ ₹	861.76 861.80 ent mortar in Amount 17,600.00 289.85 545.20 9.63 28.00 6.59
20.1.5 Code 20034 0451 03001 0421 02003 0425	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement Fine sand Carriage of fine sand	each. 100m. tonne tonne cum	Cwith stiff complete Quantity 55.00 0.33 0.094 0.094 0.05 0.05	₹₹₹₹₹	Rate 320.00 878.34 5,800.00 102.47 560.00 131.75	₹ ₹ ₹ ₹ ₹ ₹	861.76 861.80 ent mortar in Amount 17,600.00 289.85 545.20 9.63
20.1.5 Code 20034 0451 03001 0421 02003 0425	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement Fine sand Carriage of fine sand Spun yarn or plain gaskin @ 0.30 kg per joint	each. 100m. tonne tonne cum	Cwith stiff complete Quantity 55.00 0.33 0.094 0.094 0.05 0.05	₹₹₹₹₹	Rate 320.00 878.34 5,800.00 102.47 560.00 131.75	₹ ₹ ₹ ₹ ₹ ₹	861.76 861.80 ent mortar in Amount 17,600.00 289.85 545.20 9.63 28.00 6.59
20.1.5 Code 20034 0451 03001 0421 02003 0425	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement Fine sand Carriage of fine sand Spun yarn or plain gaskin @ 0.30 kg per joint = 0.30x50= 15.00 kg	each. 100m. tonne tonne cum	Cwith stiff complete Quantity 55.00 0.33 0.094 0.094 0.05 0.05	₹₹₹₹₹	Rate 320.00 878.34 5,800.00 102.47 560.00 131.75	₹ ₹ ₹ ₹ ₹ ₹	861.76 861.80 ent mortar in Amount 17,600.00 289.85 545.20 9.63 28.00 6.59 750.00
20.1.5 Code 20034 0451 03001 0421 02003 0425 20036	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement Fine sand Carriage of fine sand Spun yarn or plain gaskin @ 0.30 kg per joint = 0.30x50= 15.00 kg LABOUR	each. 100m. tonne tonne cum kilogram	55.00 0.33 0.094 0.095 0.05 15.00	₹₹₹₹₹	Rate 320.00 878.34 5,800.00 102.47 560.00 131.75 50.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	861.76 861.80 ent mortar in Amount 17,600.00 289.85 545.20 9.63 28.00 6.59 750.00
20.1.5 Code 20034 0451 03001 0421 02003 0425 20036	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement Fine sand Carriage of fine sand Spun yarn or plain gaskin @ 0.30 kg per joint = 0.30x50= 15.00 kg LABOUR Mason (brick layer) 1st class	each. 100m. tonne tonne cum kilogram Day Day	Ouantity	₹ ₹ ₹ ₹ ₹ ₹	Rate 320.00 878.34 5,800.00 102.47 560.00 131.75 50.00 440.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	861.76 861.80 ent mortar in Amount 17,600.00 289.85 545.20 9.63 28.00 6.59 750.00 990.00 888.75
20.1.5 Code 20034 0451 03001 0421 02003 0425 20036 0219 0220 0203	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement Fine sand Carriage of fine sand Spun yarn or plain gaskin @ 0.30 kg per joint = 0.30x50= 15.00 kg LABOUR Mason (brick layer) 1st class Mason (for plain stone work) 2nd class Beldar	each. 100m. tonne tonne cum kilogram Day Day Day	Cwith stiff complete Quantity	₹ ₹ ₹ ₹ ₹	Rate 320.00 878.34 5,800.00 102.47 560.00 131.75 50.00 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	861.76 861.80 Pent mortar in Amount 17,600.00 289.85 545.20 9.63 28.00 6.59 750.00 990.00 888.75 1,705.00
20.1.5 Code 20034 0451 03001 0421 02003 0425 20036	Total cost for 30 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing, laying and jointing glazed stoneware pithe of 1:1 (1 cement: 1 fine sand) including testing 250 mm diameter Description Details of cost for 30 metre MATERIALS (i) 250 mm stone ware pipes 60 cm long (ii) Carriage of pipes Added 10% allowance for breakage in items (i) & (ii) Cement of 50 joints = 0.094 tonne Carriage of cement Fine sand Carriage of fine sand Spun yarn or plain gaskin @ 0.30 kg per joint = 0.30x50= 15.00 kg LABOUR Mason (brick layer) 1st class Mason (for plain stone work) 2nd class	each. 100m. tonne tonne cum kilogram Day Day	Ouantity	₹ ₹ ₹ ₹ ₹ ₹	Rate 320.00 878.34 5,800.00 102.47 560.00 131.75 50.00 440.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	861.76 861.80 ent mortar in Amount 17,600.00 289.85 545.20 9.63 28.00 6.59

			I				
	Add 3% for sundries & contingencies on (I)	@	3%			₹	698.34
	TOTAL (II)					₹	23,976.36
	Add 1 % for water charges on (II)	@	1%			₹	239.76
	TOTAL (III)					₹	24,216.12
	Add GST (multiplying factor) on (III)		0.1405			₹	3,402.36
	TOTAL (IV)					₹	27,618.48
	Add for contractor's profit and overheads on (IV)	@	15%			₹	4,142.77
	TOTAL (V)					₹	31,761.25
	Add cess on (V)	@	1%			₹	317.61
	Total cost for 30 Mtr.					₹	32,078.86
	Total cost for 1 Mtr.					₹	1,069.30
	Rate per metre (Say)					₹	1,069.30
20.1	Providing, laying and jointing glazed stoneware	pipos grado /A	/ with ctiff	miy	ture of o	0000	nt martar in
20.1	the of 1:1 (1 cement: 1 fine sand) including testing				cture or c	eme	nt mortar in
20.1.6	300 mm diameter	.g c. j c					
Code	Description	Unit	Quantity		Rate	l	Amount
	Details of cost for 30 metre						7
	MATERIALS						
20035	(i) 300mm stoneware pipes 60 cm long	each	55.00	₹	478.00	₹	26,290.00
0452	(ii) Carriage of pipes	100m.	0.33	₹	1,097.93	₹	362.32
0.02	Added 10% allowance for breakage in items (i) & (ii)	100111.	0.33	`	1,077.73		302.32
03001	Cement of 50 joints = 0.125 tonne	tonne	0.125	₹	5,800.00	₹	725.00
0421	Carriage of cement	tonne	0.125	₹	102.47	₹	12.81
02003	Fine sand	cum	0.123	₹	560.00	₹	42.00
0425	Carriage of fine sand	cum	0.075	₹	131.75	₹	9.88
20036	Spun yarn or plain gaskin	kilogram	18.00	₹	50.00	₹	900.00
	= 0.36x50 =18.00 kg	Kilogram	10.00	`	30.00	`	700.00
	LABOUR						
0219	Mason (brick layer) 1st class	Day	2.50	₹	440.00	₹	1,100.00
0220	Mason (for plain stone work) 2nd class	Day	2.50	₹	395.00	₹	987.50
0203	Beldar	Day	6.00	₹	310.00	₹	1,860.00
0205	Bhishti	Dav	1.50	₹	310.00		465.00
	TOTAL (I)		1.00	Ì	0.0.00	₹	32,754.51
	Add 3% for sundries & contingencies on (I)	@	3%			₹	982.64
	TOTAL (II)					₹	33,737.15
	Add 1 % for water charges on (II)	@	1%			₹	337.37
	TOTAL (III)					₹	34,074.52
	Add GST (multiplying factor) on (III)		0.1405			₹	4,787.47
	TOTAL (IV)					₹	38,861.99
	Add for contractor's profit and overheads on (IV)	@	15%			₹	5,829.30
	TOTAL (V)					₹	44,691.29
	Add cess on (V)	@	1%			₹	446.91
	Total cost for 30 Mtr.					₹	45,138.20
	Total cost for 1 Mtr.					₹	1,504.61
	Rate per metre (Say)					₹	1,504.60
						È	1,55 1.66
20.2	Providing and laying cement concrete 1:5:10 (1 mm nominal size) alround S.W. pipes including b					ne a	iggregate 40
	min nominal size) allound s.w. pipes including b						
20.2.1	100 mm diameter S. W. pipe						
20.2.1 Code		Unit	Quantity		Rate		Amount
	100 mm diameter S. W. pipe		Quantity		Rate		Amount
	100 mm diameter S. W. pipe Description		Quantity		Rate		Amount

	Where $W = D + X$					
	D = 100 + 12 + 12 = 124 mm or 12.4 cm					
	X = 300 mm as trench depth is less than 1200 mm					
	Area = $(30.0 + 12.4)^2 (0.5 + \pi x \frac{1}{3}) - \pi/4 x (12.4)^2$					
	$= (42.4)^2 (0.5 + \pi/8) - \pi/4 \times (12.4)^2$					
	= (1797.76) (0.89) - 0.785 x 153.76					
	= 1604.5 - 120.7 = 1483.80 sq.cm.					
	= 0.1483 sqm Say 0.148 sqm					
	For 10 m length qty. of concrete reqd. = 1.48 cum					
	Rate as per item no 4.1.8 of SH : Concrete work	cum	1.48	₹ 8,704.50	₹	12,882.66
	Total cost for 10 Mtr.	cum	1.40	0,704.30	₹	12,882.66
	Total cost for 1 Mtr.				₹	1,288.27
	Rate per metre (Say)				₹	1,288.30
	inate per mene (eag)				<u> </u>	1,200.00
20.2	Providing and laying cement concrete 1:5:10 (1 mm nominal size) alround S.W. pipes including be				ne a	iggregate 40
20.2.2	150 mm diameter S.W, pipe			ı	1	
Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 10 metre					
	Area = W x (W/2) + $\frac{1}{2}$ x ($\frac{\pi}{4}$ x W ²) - ($\frac{\pi}{4}$ x d2)					
	$= W^{2} \times \{0.5 + \frac{1}{2} \times (\pi/4)\} - (\pi/4 \times d^{2})$					
	Where W = D + X					
	D = 150 + 16 + 16 = 182 mm or 18.2 cm					
	X = 300 mm as trench depth is less than 1200 mm					
	Area = $(30.0 + 18.2)^2 (0.5 + \pi x^{1/8}) - \pi/4 x (18.2)^2$					
	$= (48.2)^{2} (0.5 + \pi/8) - \pi/4 \times (18.2)^{2}$					
	= (2323.24) (0.89) - 260.02					
	= 2067.68 - 260.02 = 1807.66 sq.cm.					
	= 0.1808 sqm Say 0.181 sqm					
	For 10 m length qty. of concrete reqd. = 1.81 cum					
	Rate as per item no 4.1.8 of SH : Concrete work	cum	1.81	₹ 8,704.50	₹	15,755.15
	Total cost for 10 Mtr.				₹	15,755.15
	Total cost for 1 Mtr.				₹	1,575.52
	Rate per metre (Say)				₹	1,575.50
20.2	Providing and laying cement concrete 1:5:10 (1 mm nominal size) alround S.W. pipes including be				ne a	nggregate 40
	200 mm diameter S.W. pipe	1	T 0 111		T T	
Code	Description Details of cost for 10 metre	Unit	Quantity	Rate		Amount
	Area = W x (W/2) + $\frac{1}{2}$ x ($\frac{\pi}{4}$ x W ²) - ($\frac{\pi}{4}$ x d2)	+				
	Area = W X (W/2) + $\frac{1}{2}$ X ($\frac{\pi}{4}$ X W ⁻) - ($\frac{\pi}{4}$ X d2) = W ² X {0.5+ $\frac{1}{2}$ X ($\frac{\pi}{4}$)} - ($\frac{\pi}{4}$ X d ²)	+				
	$= W^{-}X \{0.5 + \frac{1}{2}X (\pi/4)\} - (\pi/4 X \pi^{-})$ Where W = D + X					
	D = 200 + 17 + 17 = 234 mm or 23.40 cm					
	X = 300 mm as trench depth is less than 1200 mm					
	-					
	Area = $(30.0 + 23.4)^2 (0.5 + \pi x^{1/4}) - \pi/4 x (23.4)^2$ = $(53.4)^2 (0.5 + \pi/8) - \pi/4 x (23.4)^2$	_				
	$= (53.4)^{2} (0.5 + \pi/8) - \pi/4 \times (23.4)^{2}$ $= (2851.56) (0.89) - 429.83$	+			1	
	= (2851.56) (0.89) - 429.83 = 2537.89 - 429.83 = 2108.06 sq.cm.	_				
	·					
	= 0.2108 sqm Say 0.211 sqm For 10 m length qty. of concrete reqd. = 2.11 cum					
	Rate as per item no 4.1.8 of SH : Concrete work	_				
	·	cum	2.11	₹ 8,704.50	₹	18,366.50
	Total cost for 10 Mtr.				₹	18,366.50
	Total cost for 1 Mtr.			<u>l</u>	₹	1,836.65

	Rate per metre (Say)				₹	1,836.70
20.2	Providing and laying cement concrete 1:5:10 (1 mm nominal size) alround S.W. pipes including b				ne a	ggregate 40
20.2.4	230 mm diameter S.W, pipe					
Code	Description	Unit	Quantity	Rate		Amount
	Details of cost for 10 metre					
	Area = W x (W/2) + $\frac{1}{2}$ x ($\pi/4$ x W ²) - ($\pi/4$ x d2)					
	$= W^{2} x \{0.5 + \frac{1}{2} x (\pi/4)\} - (\pi/4 x d^{2})$					
	Where W = D + X					
	D = 230 + 19 + 19 = 268 mm or 26.8 cm					
	X = 300 mm as trench depth is less than 1200 mm					
	Area = $(30.0 + 26.8)^2 (0.5 + \pi x \frac{1}{8}) - \frac{\pi}{4} x (26.8)^2$					
	$= (56.8)^{2} (0.5 + \pi/8) - \pi/4 \times (26.8)^{2}$					
	= (2871.35) (0.89) - 563.82				ļ	
	= 2871.35 - 563.82 = 2307.53 sq.cm.				ļ	
	= 0.2308 sqm Say 0.231 sqm					
	For 10 m length qty. of concrete reqd. = 2.31 cum Rate as per item no 4.1.8 of SH: Concrete work					
	'	cum	2.31	₹ 8,704.50	₹	20,107.40
	Total cost for 10 Mtr.				₹	20,107.40
	Total cost for 1 Mtr.				₹ -	2,010.7
	Rate per metre (Say)				₹	2,010.70
20.2	Providing and laying cement concrete 1:5:10 (1 mm nominal size) alround S.W. pipes including be 250 mm diameter S.W. pipe		s per standa		ne a	iggregate 4
	mm nominal size) alround S.W. pipes including be 250 mm diameter S.W. pipe Description				ne a	Amount
20.2.5	mm nominal size) alround S.W. pipes including by 250 mm diameter S.W. pipe Description Details of cost for 10 metre	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including by 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + $\frac{1}{2}$ x ($\frac{\pi}{4}$ x W ²) - ($\frac{\pi}{4}$ x d2)	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including by 250 mm diameter S.W. pipe Description Details of cost for 10 metre	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including by 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x ($\pi/4$ x W²) - ($\pi/4$ x d2) = W² x {0.5+ ½ x ($\pi/4$)} - ($\pi/4$ x d²)	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d2) = W² x {0.5+ ½ x (π /4)} - (π /4 x d²) Where W = D + X	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including by 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + $\frac{1}{2}$ x (π /4 x W ²) - (π /4 x d2) = W ² x {0.5+ $\frac{1}{2}$ x (π /4)} - (π /4 x d ²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including by 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d2) = W² x {0.5+ ½ x (π /4)} - (π /4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d2) = W² x {0.5+ ½ x (π /4)} - (π /4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ½) - π /4 x (29.0)²	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d2) = W² x {0.5+ ½ x (π /4}} - (π /4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ½) - π /4 x (29.0)² = (59.0)² (0.5 + π /8) - π /4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm.	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d2) = W² x {0.5+ ½ x (π /4}} - (π /4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ½) - π /4 x (29.0)² = (59.0)² (0.5 + π /8) - π /4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d2) = W² x {0.5+ ½ x (π /4)} - (π /4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ⅓) - π /4 x (29.0)² = (59.0)² (0.5 + π /8) - π /4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm For 10 m length qty. of concrete reqd. = 2.44 cum	ed concrete a	s per standa	rd design:	one a	
20.2.5	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d2) = W² x {0.5+ ½ x (π /4}} - (π /4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ½) - π /4 x (29.0)² = (59.0)² (0.5 + π /8) - π /4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm	ed concrete a	s per standa	rd design:	ene a	Amount
20.2.5	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d2) = W² x {0.5+ ½ x (π /4)} - (π /4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ⅓) - π /4 x (29.0)² = (59.0)² (0.5 + π /8) - π /4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm For 10 m length qty. of concrete reqd. = 2.44 cum	Unit	Quantity	Rate		Amount 21,238.9
20.2.5	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d2) = W² x {0.5+ ½ x (π /4)} - (π /4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ⅓) - π /4 x (29.0)² = (59.0)² (0.5 + π /8) - π /4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm For 10 m length qty. of concrete reqd. = 2.44 cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr.	Unit	Quantity	Rate	₹ ₹ ₹	21,238.98 21,238.98 21,238.98
20.2.5	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d2) = W² x {0.5+ ½ x (π /4)} - (π /4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ⅓) - π /4 x (29.0)² = (59.0)² (0.5 + π /8) - π /4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm For 10 m length qty. of concrete reqd. = 2.44 cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr.	Unit	Quantity	Rate	₹₹	21,238.9 21,238.9 21,238.9 2,123.9
20.2.5 Code	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π/4 x W²) - (π/4 x d²) = W² x {0.5+ ½ x (π/4)} - (π/4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ⅓) - π/4 x (29.0)² = (59.0)² (0.5 + π/8) - π/4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm For 10 m length qty. of concrete reqd. = 2.44 cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying cement concrete 1:5:10 (1 mm nominal size) upto haunches of S.W. pipes in	Unit cum	Quantity 2.44 ne sand : 1	Rate Rate ₹ 8,704.50	₹ ₹ ₹	21,238.98 21,238.98 21,238.90 2,123.90 2,123.90
20.2.5 Code	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π /4 x W²) - (π /4 x d²) = W² x {0.5+ ½ x (π /4}} - (π /4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = $(30.0 + 29.0)^2 (0.5 + \pi x ⅓) - \pi/4 x (29.0)^2$ = $(59.0)^2 (0.5 + \pi/8) - \pi/4 x (29.0)^2$ = $(3481.00) (0.89) - 660.18$ = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm For 10 m length qty. of concrete reqd. = 2.44 cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say)	Unit cum	Quantity 2.44 ne sand : 1	Rate Rate ₹ 8,704.50	₹ ₹ ₹	21,238.98 21,238.98 21,238.98 2,123.90 2,123.90
20.2.5 Code	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π/4 x W²) - (π/4 x d²) = W² x {0.5+ ½ x (π/4)} - (π/4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ⅓) - π/4 x (29.0)² = (59.0)² (0.5 + π/8) - π/4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm For 10 m length qty. of concrete reqd. = 2.44 cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying cement concrete 1:5:10 (1 mm nominal size) upto haunches of S.W. pipes in 100 mm diameter S.W. pipe	Unit cum	Quantity 2.44 ne sand : 1	Rate Rate ₹ 8,704.50	₹ ₹ ₹	21,238.96 21,238.96 2,123.90 2,123.90 aggregate 4
20.2.5 Code	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π/4 x W²) - (π/4 x d²) = W² x {0.5+ ½ x (π/4)} - (π/4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ⅓) - π/4 x (29.0)² = (59.0)² (0.5 + π/8) - π/4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm For 10 m length qty. of concrete reqd. = 2.44 cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying cement concrete 1:5:10 (1 mm nominal size) upto haunches of S.W. pipes in 100 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe	cement : 5 findluding bed concrete a	Quantity 2.44 ne sand : 1 oncrete as p	Rate Rate 8,704.50 O graded stoper standard	₹ ₹ ₹	21,238.90 21,238.90 21,238.90 2,123.90 2,123.90 aggregate 4
20.2.5 Code	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π/4 x W²) - (π/4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ⅓) - π/4 x (29.0)² = (59.0)² (0.5 + π/8) - π/4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm For 10 m length qty. of concrete reqd. = 2.44 cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying cement concrete 1:5:10 (1 mm nominal size) upto haunches of S.W. pipes in 100 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R²/2(π/2-Q)] - (π/2)R²	cement : 5 findluding bed concrete a	Quantity 2.44 ne sand : 1 oncrete as p	Rate Rate 8,704.50 O graded stoper standard	₹ ₹ ₹	21,238.96 21,238.96 21,238.96 2,123.96 2,123.96 aggregate 4
20.2.5 Code	mm nominal size) alround S.W. pipes including to 250 mm diameter S.W. pipe Description Details of cost for 10 metre Area = W x (W/2) + ½ x (π/4 x W²) - (π/4 x d²) = W² x {0.5+ ½ x (π/4)} - (π/4 x d²) Where W = D + X D = 250 + 20 + 20 = 290 mm or 29.0 cm X = 300 mm as trench depth is less than 1200 mm Area = (30.0 + 29.0)² (0.5 + π x ⅓) - π/4 x (29.0)² = (59.0)² (0.5 + π/8) - π/4 x (29.0)² = (3481.00) (0.89) - 660.18 = 3098.09 - 660.18 = 2437.90 sq.cm. = 0.24379 sqm Say 0.244 sqm For 10 m length qty. of concrete reqd. = 2.44 cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying cement concrete 1:5:10 (1 mm nominal size) upto haunches of S.W. pipes in 100 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R²/2(π/2-Q)] -	cement : 5 findluding bed concrete a	Quantity 2.44 ne sand : 1 oncrete as p	Rate Rate ** 8,704.50 O graded stoper standard	₹ ₹ ₹	21,238.96 21,238.96 21,238.96 2,123.96 2,123.96 aggregate 4

	Where Sin Q = [R / (W/2)] = 2R/W					
	W = D + X ; X = 300 mm, D = 100 + 12 + 12 = 124 mm					
	W = 124+ 300 = 424 mm					
	D1 = Depth = 100 + (½ x 124) = 162 mm					
	R = 62 mm					
	Sin Q = (2x62)/424 = 0.292 therefore Q = 17°0'					
	Hence Tan Q = 0.3057					
	Area = $424 \times 162 + (62)^2$ (Cot Q - π + Q)					
	= [68688 + 3844 (1/0.3057 - 180° + 17°0')] sqmm					
-	$= [68688 + 3844 (3.27 - 163°0' x \pi/180)] \text{ sqmm}$					
	= (68688 + 3844 x 0.43) sqmm		+			
	= (68688 + 1652.92) sqmm = 70340.92 sqmm					
	Say 70341 sqmm or 0.070341 sqm					
	For 10 m length qty. of concrete reqd. = 0.07034 x 10 =					
	0.7034 cum					
	Rate as per item no 4.1.8 of SH : Concrete work	cum	0.7034	₹ 8,704.50	₹	6,122.7
	Total cost for 10 Mtr.	Carri	0.7034	0,704.50	₹	6,122.7
	Total cost for 1 Mtr.		+		₹	612.2
	Rate per metre (Say)		+		₹	612.30
	nate per metre (say)		+		-	012.30
20.3	Providing and laying cement concrete 1:5:10 (1 ce					
20.3.2	mm nominal size) upto haunches of S.W. pipes inclu	uding bed c	oncrete as p	oer standard	desi	gn :
Code	150 mm diameter S.W. pipe Description	Unit	Quantity	Rate	l	Amount
Code	Details of cost for 10 metre length pipe	Onit	Quantity	Nate		Amount
	Area = W x D1 + 2 x ½ x R Cot Q x R- $[R^2/2(\pi/2-Q)]$ -					
	$(\pi/2)R^2$					
	= WD1 + R ² (Cot Q) - R ² (π /2 - Q) - (π /2)R ²					
	$= WD1 + R^2(Cot Q - \pi + Q)$					
	Where Sin Q = [R / (W/2)] = 2R/W					
	W = D + X; X = 300 mm, D = 150 + 16 + 16 = 182 mm					
	W = 182+ 300 = 482 mm					
	D1 = Depth = 150 + (½ x 182) = 241 mm					
	R = 91 mm					
	Sin Q = (2 x 91) / 482 = 0.3776 therefore Q = 22°12'					
	Hence Tan Q = 0.4081					
	Area = $482 \times 241 + (91)^2 (\text{Cot Q} - \pi + \text{Q})$					
	= [116162 + 8281 (1/0.4081-180° +22°12')] sqmm		+		1	
			1		1	
	= [116162 + 8281 (2.45-157°48′x3 14/180)] samm					
	= [116162 + 8281 (2.45-157°48′x3.14/180)] sqmm = [116162 + 8281 x (2.45-2.75)] samm					
	= [116162 + 8281 x (2.45-2.75)] sqmm					
	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm					
	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm					
	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm					
	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm For 10 m length qty. of concrete reqd. = 0.1136777 x 10 =					
	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm					
	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm For 10 m length qty. of concrete reqd. = 0.1136777 x 10 = 1.136777 cum	cum	1.14	₹ 8,704.50	₹	9,923.1
	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm For 10 m length qty. of concrete reqd. = 0.1136777 x 10 = 1.136777 cum Say 1.14 Cum	cum	1.14	₹ 8,704.50	₹	
	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm For 10 m length qty. of concrete reqd. = 0.1136777 x 10 = 1.136777 cum Say 1.14 Cum Rate as per item no 4.1.8 of SH : Concrete work	cum	1.14	₹ 8,704.50		9,923.1
	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm For 10 m length qty. of concrete reqd. = 0.1136777 x 10 = 1.136777 cum Say 1.14 Cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr. Total cost for 1 Mtr.	cum	1.14	₹ 8,704.50	₹	9,923.1 992.3
	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm For 10 m length qty. of concrete reqd. = 0.1136777 x 10 = 1.136777 cum Say 1.14 Cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr.	cum	1.14	₹ 8,704.50	₹	9,923.1 992.3
20.3	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm For 10 m length qty. of concrete reqd. = 0.1136777 x 10 = 1.136777 cum Say 1.14 Cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr. Total cost for 1 Mtr.	cum	1.14	₹ 8,704.50	₹	9,923.13 992.3
20.3	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm For 10 m length qty. of concrete reqd. = 0.1136777 x 10 = 1.136777 cum Say 1.14 Cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr. Total cost for 1 Mtr.	ement : 5 fi	ne sand : 1	0 graded sto	₹ ₹ •ne a	9,923.1 992.3 992.3 0 ggregate 4
20.3	= [116162 + 8281 x (2.45-2.75)] sqmm = [116162 + 8281 x (-0.30)] sqmm = (116162 - 2484.3) sqmm = 113677.7 sqmm Say 113677.7 sqmm or 0.1136777 sqm For 10 m length qty. of concrete reqd. = 0.1136777 x 10 = 1.136777 cum Say 1.14 Cum Rate as per item no 4.1.8 of SH : Concrete work Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying cement concrete 1:5:10 (1 ce	ement : 5 fi	ne sand : 1	0 graded sto	₹ ₹ •ne a	

	Details of cost for 10 metre length pipe					
	Area = W x D1 + 2 x $\frac{1}{2}$ x R Cot Q x R- [R ² /2(π /2-Q)] -					
	$(\pi/2)R^2$					
	= WD1 + R ² (Cot Q) - R ² ($\pi/2$ - Q) - ($\pi/2$)R ²					
	= WD1 + R^2 (Cot Q - π + Q) Where Sin Q = [R / (W/2)] = 2R/W					
	W = D + X; X = 300 mm, D = 200 + 17 + 17 = 234 mm					
	W = 234+ 300 = 534 mm					
	D1 = Depth = 150 + (½ x 234) = 267 mm				-	
	R = 117 mm					
	Sin Q = (2 x 117) / 534 = 0.4382 therefore Q = 26°0'					
	Hence Tan Q = 0.4877					
	Area = $534 \times 267 + (117)^2 (Cot Q - \pi + Q)$					
	= [142578 + 13689 (1/0.4877-180° + 26°0')] sqmm					
	= [142578 + 13689 (2.05-180°0′ x 3.14/180)] sqmm					
	= [142578 + 13689 x (2.05-2.69)] sqmm					
	= [142578 + 13689 x (-0.64)] sqmm					
	= (142578 - 8760.96) sqmm = 133817.04 sqmm					
	Say 133817 sqmm or 0.134 sqm					
	For 10 m length qty. of concrete reqd. = 0.134 x 10 = 1.34					
	cum Say 1.34 Cum		+			
	Rate as per item no 4.1.8 of SH : Concrete work	cum	1.34	₹ 8,704.50	₹	11,664.03
	Total cost for 10 Mtr.	Cum	1.54	(0,704.30	₹	11,664.03
	Total cost for 1 Mtr.				₹	1,166.40
					₹	1,166.40
	Rate per metre (Say)					.,
20.3:	Providing and laying cement concrete 1:5:10 (1 ce	ment : 5 fi	ne sand : 1	0 graded sto	ne a	agregate 40
20.3:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu					
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 230 mm diameter S.W. pipe	iding bed c	oncrete as p	per standard		gn :
	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 230 mm diameter S.W. pipe Description					
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 230 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 230 mm diameter S.W. pipe Description	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 230 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R²/2(π/2-Q)] -	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 230 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R²/2(π /2-Q)] - (π /2)R²	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 230 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R²/2(π /2-Q)] - (π /2)R² = WD1 + R²(Cot Q) - R²(π /2 - Q) - (π /2)R²	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclusion 230 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R²/2(π /2-Q)] - (π /2)R² = WD1 + R²(Cot Q) - R²(π /2 - Q) - (π /2)R² = WD1 + R²(Cot Q - π + Q)	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and diameter S.W. pipe	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and i	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and diameter S.W. pipe	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and i	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and i	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and i	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and i	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and i	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and image of S.W. pipes incl	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and image of S.W. pipes incl	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and i	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and i	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and pipes are supported by the size of the siz	iding bed c	oncrete as p	per standard		gn :
20.3.4:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and i	iding bed c	oncrete as p	per standard		gn :

	Say 1.47 Cum					
	Rate as per item no 4.1.8 of SH : Concrete work	cum	1.47	₹ 8,704.50	₹	12,795.62
	Total cost for 10 Mtr.	Carri	1.47	0,704.50	₹	12,795.62
	Total cost for 1 Mtr.				₹	1,279.56
	Rate per metre (Say)				₹	1,279.60
20.3:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu					
20.3.5:	250 mm diameter S.W. pipe		I a		T .	
Code	Description Details of cost for 10 metre length pipe	Unit	Quantity	Rate		Amount
	Area = W x D1 + 2 x ½ x R Cot Q x R- $[R^2/2(\pi/2-Q)]$ -					
	Area = W X D I + 2 X ½ X R COI Q X R- [R /2(π /2-Q)] - $(\pi$ /2)R ²					
	= WD1 + R ² (Cot Q) - R ² (π /2 - Q) - (π /2)R ²					
	$= WD1 + R^2 (Cot Q - \pi + Q)$					
	Where Sin Q = [R / (W/2)] = 2R/W					
	W = D + X; X = 300 mm, D = 250 + 20 + 20 = 290 mm					
	W = 290+ 300 = 590 mm					
	D1 = Depth = 150 + (½ x 290) = 295 mm					
	R = 145 mm					
	Sin Q = (2 x 145) / 590 = 0.49154 therefore Q = 29°26'		1			
	Hence Tan Q = 0.5635					
	Area = 590 x 295 + $(145)^2$ (Cot Q - π + Q)					
	= [174050 + 21025 (1/0.5635-180° + 29°26')] sqmm					
	= [174050 + 21025 (1.77-150°34′ x 3.14/180)] sqmm					
	= [174050 + 21025 x (1.77-2.63)] sqmm					
	= [174050 + 21025 x (-0.86)] sqmm					
	= (174050 - 18081.5) sqmm = 155968.5 sqmm					
	Say 155968 sqmm or 0.156 sqm For 10 m length qty. of concrete reqd. = 0.156 x 10 = 1.56					
	cum					
	Say 1.56 Cum					
	Rate as per item no 4.1.8 of SH : Concrete work	cum	1.56	₹ 8,704.50	₹	13,579.02
	Total cost for 10 Mtr.				₹	13,579.02
	Total cost for 1 Mtr.					4.057.00
					₹	1,357.90
	Rate per metre (Say)				₹	
20.3:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu				₹ ne a	
20.3.6:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 300 mm diameter S.W. pipe	uding bed c	oncrete as p	per standard	₹ ne a	1,357.90 aggregate 40 gn :
	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 300 mm diameter S.W. pipe Description				₹ ne a	1,357.90
20.3.6:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 300 mm diameter S.W. pipe	uding bed c	oncrete as p	per standard	₹ ne a	1,357.90 aggregate 40 gn:
20.3.6:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclusion 300 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R ² /2(π /2-Q)] - (π /2)R ²	uding bed c	oncrete as p	per standard	₹ ne a	1,357.90 aggregate 40 gn:
20.3.6:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclu 300 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R²/2(π/2-Q)] -	uding bed c	oncrete as p	per standard	₹ ne a	1,357.90 aggregate 40 gn:
20.3.6:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclusion 300 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R ² /2(π /2-Q)] - (π /2)R ²	uding bed c	oncrete as p	per standard	₹ ne a	1,357.90 aggregate 40 gn:
20.3.6:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclusion 300 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R²/2(π /2-Q)] - (π /2)R² = WD1 + R²(Cot Q) - R²(π /2 - Q) - (π /2)R²	uding bed c	oncrete as p	per standard	₹ ne a	1,357.90 aggregate 40 gn:
20.3.6:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclusion 300 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R²/2(π /2-Q)] - (π /2)R² = WD1 + R²(Cot Q) - R²(π /2 - Q) - (π /2)R² = WD1 + R²(Cot Q - π + Q)	uding bed c	oncrete as p	per standard	₹ ne a	1,357.90 aggregate 40 gn:
20.3.6:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes inclusion 300 mm diameter S.W. pipe Description Details of cost for 10 metre length pipe Area = W x D1 + 2 x ½ x R Cot Q x R- [R²/2(π /2-Q)] - (π /2)R² = WD1 + R²(Cot Q) - R²(π /2 - Q) - (π /2)R² = WD1 + R²(Cot Q - π + Q) Where Sin Q = [R / (W/2)] = 2R/W	uding bed c	oncrete as p	per standard	₹ ne a	1,357.90 aggregate 40 gn:
20.3.6:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included an included and size of S.W. pipes included an included and size of S.W. pipes included an included and size of S.W. pipes included an included and size of S.W. pipes included an included and size of S.W. pipes included an included and size of S.W. pipes included and size of S.	uding bed c	oncrete as p	per standard	₹ ne a	1,357.90 aggregate 40 gn:
20.3.6:	Providing and laying cement concrete 1:5:10 (1 cemm nominal size) upto haunches of S.W. pipes included and included an included and included an included and included an included and included an included and included an included and included an included and included an included and included an included and included an included an included and included an included and included an included	uding bed c	oncrete as p	per standard	₹ ne a	1,357.90 aggregate 40 gn:

	Hence Tan Q = 0.6387			I		1	
	Area = 650 x 325 + $(175)^2$ (Cot Q - π + Q)						
	= [211250 + 30625 (1/0.6387-180° + 32°34')] sqmm						
	= [211250 + 30625 (1.566 -147°26′ x 3.14/180)] sqmm						
	= [211250 + 30625 x (1.566 -2.571)] sqmm						
	= [211250 + 30625 x (-1.005)] sqmm						
	= (211250 - 30778.13) sqmm = 180471.87 sqmm						
	Say 180472 sqmm or 0.180 sqm						
	For 10 m length qty. of concrete reqd. = 0.180 x 10 = 1.80						
	cum						
	Say 1.80 Cum Rate as per item no 4.1.8 of SH : Concrete work						
		cum	1.80	₹	8,704.50	₹	15,668.10
	Total cost for 10 Mtr.		-			₹	15,668.10
	Total cost for 1 Mtr. Rate per metre (Say)					₹	1,566.81 1,566.80
	Rate per metre (Say)					`	1,300.00
20.4.1:	Dismantling of old S.W. pipes including breakin materials near the site within 50 m lead and d dumps: 100 mm diameter						
Code	Description	Unit	Quantity		Rate		Amount
Oode	·	Offic	Quantity		Rute		Amount
	Details of cost for 10 metre						
	LABOUR			-			
0203	Beldar	Day	0.49	₹	310.00	₹	151.90
0212	coolie	Day	0.36	₹	310.00	₹	111.60
	TOTAL (I)					₹	263.50
	Add 3% for sundries & contingencies on (I)	@	3%			₹	7.91
	TOTAL (II)					₹	271.41
	Add 1 % for water charges on (II)	@	1%			₹	2.71
	TOTAL (III)					₹	274.12
	Add GST (multiplying factor) on (III)		0.1405			₹	38.5
	TOTAL (IV) Add for contractor's profit and overheads on (IV)	@	15%			₹	312.6 46.8
	TOTAL (V)		1370			₹	359.5
	Add cess on (V)	@	1%			₹	3.6
	Total cost for 10 Mtr.					₹	363.1
	Total cost for 1 Mtr.					₹	36.3
	Rate per metre (Say)					₹	36.30
20.4:	Dismantling of old S.W. pipes including breaking materials near the site within 50 m lead and dumps:						
20.4.2:	150 mm diameter						
Code	Description	Unit	Quantity	_	Rate		Amount
	Details of cost for 10 metre						
0202	LABOUR	<u> </u>	0.40	x	240.00	*	454.00
0203	LABOUR Beldar	Day	0.49	₹	310.00	₹	
0203 0212	LABOUR Beldar coolie	Day Day	0.49	₹	310.00 310.00	₹	139.50
	LABOUR Beldar	·					151.90 139.50 291.40 8.74
	LABOUR Beldar coolie TOTAL (I)	Day	0.45			₹	139.50 291.40

	T	1		Г	1
	TOTAL (III)				₹ 303.14
	Add GST (multiplying factor) on (III)		0.1405		₹ 42.59
	TOTAL (IV)				₹ 345.73
	Add for contractor's profit and overheads on (IV)	@	15%		₹ 51.86
	TOTAL (V)				₹ 397.59
	Add cess on (V)	@	1%		₹ 3.98
	Total cost for 10 Mtr.				₹ 401.57
	Total cost for 1 Mtr.				₹ 40.16
	Rate per metre (Say)				₹ 40.20
20.4	Dismantling of old S.W. pipes including breamaterials near the site within 50 m lead and dumps:				
20.4.3	200 mm diameter	<u> </u>	1	ı	1
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metre				
	LABOUR				
0203	Beldar	Day	0.49	₹ 310.00	₹ 151.90
0212	Coolie	Day	0.51	₹ 310.00	₹ 158.10
	TOTAL (I)				₹ 310.00
	Add 3% for sundries & contingencies on (I)	@	3%		₹ 9.30
	TOTAL (II)				₹ 319.30
	Add 1 % for water charges on (II)	@	1%		₹ 3.19
	TOTAL (III)				₹ 322.49
	Add GST (multiplying factor) on (III)		0.1405		₹ 45.31
	TOTAL (IV)				₹ 367.80
	Add for contractor's profit and overheads on (IV)	@	15%		₹ 55.17
	TOTAL (V)				₹ 422.97
	Add cess on (V)	@	1%		₹ 4.23
	Total cost for 10 Mtr.				₹ 427.20
	Total cost for 1 Mtr.				₹ 42.72
	Rate per metre (Say)				₹ 42.70
	Rate per metre (say)				42.70
20.4	Dismantling of old S.W. pipes including breamaterials near the site within 50 m lead and dumps:				
	230 mm diameter	11-14	I 0	D-4-	A
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metre		+		
0202	LABOUR		0.10	T 010	, ,,,,,
0203	Beldar	Day	0.49	₹ 310.00	₹ 151.90
0212	Collie	Day	0.54	₹ 310.00	₹ 167.40
	TOTAL (I)	_	20:		₹ 319.30
	Add 3% for sundries & contingencies on (I)	@	3%		₹ 9.58
	TOTAL (II)	_	40:		₹ 328.88
	Add 1 % for water charges on (II)	@	1%		₹ 3.29
	TOTAL (III)				₹ 332.17
	Add GST (multiplying factor) on (III)		0.1405		₹ 46.67
	TOTAL (IV)				₹ 378.84
	Add for contractor's profit and overheads on (IV)	@	15%		₹ 56.83
	TOTAL (V)				₹ 435.67
	Add cess on (V)	@	1%		₹ 4.36
	Total cost for 10 Mtr.				₹ 440.03
	Total cost for 1 Mtr.				₹ 44.00

20.4	Dismantling of old S.W. pipes including breamaterials near the site within 50 m lead and dumps:						
20.4.5	250 mm diameter						
Code	Description	Unit	Quantity		Rate	-	Amount
	Details of cost for 10 metre						
	LABOUR						
0203	Beldar	Day	0.49	₹	310.00	₹	151.9
0212	Coolie	Day	0.57	₹	310.00	₹	176.7
	TOTAL (I)					₹	328.6
	Add 3% for sundries & contingencies on (I)	@	3%			₹	9.8
	TOTAL (II)					₹	338.4
	Add 1 % for water charges on (II)	@	1%			₹	3.3
	TOTAL (III)					₹	341.8
	Add GST (multiplying factor) on (III)		0.1405			₹	48.
	TOTAL (IV)					₹	389.
	Add for contractor's profit and overheads on (IV)	@	15%			₹	58.
	TOTAL (V)					₹	448.
	Add cess on (V)	@	1%			₹	4.
	Total cost for 10 Mtr.					₹	452.
	Total cost for 1 Mtr.					₹	45.
	Rate per metre (Say)					₹	45.3
	materials near the site within 50 m lead and						
20.4.6	dumps:						
	dumps: 300 mm diameter	· ·		1			
20.4.6 Code	dumps: 300 mm diameter Description	Unit	Quantity		Rate		Amount
20.4.6 Code	dumps: 300 mm diameter Description Details of cost for 10 metre	· ·					
Code	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR	Unit	Quantity		Rate	,	Amount
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar	Unit	Quantity 0.49	₹	Rate 310.00	₹	Amount 151.9
Code	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie	Unit	Quantity		Rate	₹ ₹	Amount 151.9 195.3
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I)	Unit	Ouantity 0.49 0.63	₹	Rate 310.00	₹ ₹ ₹	Amount 151.9 195.3 347.2
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I)	Unit Day Day	Quantity 0.49	₹	Rate 310.00	₹ ₹ ₹	Amount 151.9 195.3 347.2 10.4
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (II)	Unit Day Day	0.49 0.63	₹	Rate 310.00	₹ ₹ ₹ ₹	151.9 195.3 347.2 10.4 357.6
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (II) Add 3% for contingencies on (II)	Unit Day Day ©	Ouantity 0.49 0.63	₹	Rate 310.00	₹ ₹ ₹ ₹	151.9 195.3 347.2 10.4 357.6
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (II) Add 3% for contingencies on (II) TOTAL (III)	Unit Day Day ©	0.49 0.63	₹	Rate 310.00	₹ ₹ ₹ ₹	151.9 195.3 347.2 10.4 357.6 3.5 361.2
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (II) Add 3% for contingencies on (II) TOTAL (III) Add GST (multiplying factor) on (III)	Day Day	O.49 0.63 3%	₹	Rate 310.00	₹ ₹ ₹ ₹	151.9 195.3 347.2 10.4 357.6 3.5 361.2
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (III) Add 3% for contingencies on (III) TOTAL (IIII) Add GST (multiplying factor) on (III) TOTAL (IV)	Day Day	O.49 0.63 3%	₹	Rate 310.00	₹ ₹ ₹ ₹ ₹	151.9 195.3 347.2 10.4 357.6 3.5 361.2 50.
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (II) Add 3% for contingencies on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV)	Day Day @ @ @	0.49 0.63 3% 1%	₹	Rate 310.00	₹ ₹ ₹ ₹ ₹	151.9 195.3 347.2 10.4 357.6 3.5 361.2 50. 411.
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (II) Add 3% for contingencies on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V)	Day Day @ @ @	0.49 0.63 3% 1%	₹	Rate 310.00	₹ ₹ ₹ ₹ ₹	151.9 195.3 347.2 10.4 357.6 3.5 361.2 50. 411. 61.
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (III) Add 3% for contingencies on (III) TOTAL (IIII) Add GST (multiplying factor) on (IIII) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V)	Day Day @ @ @ @ @	0.49 0.63 3% 1% 0.1405	₹	Rate 310.00	₹ ₹ ₹ ₹ ₹ ₹	151.9 195.3 347.2 10.4 357.6 3.5 361.2 50. 411. 61. 473.
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (II) Add 3% for contingencies on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 10 Mtr.	Day Day @ @ @ @ @	0.49 0.63 3% 1% 0.1405	₹	Rate 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	151.9 195.3 347.2 10.4 357.6 3.5 361.2 50. 411. 61. 473. 4.
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (III) Add 3% for contingencies on (III) TOTAL (IIII) Add GST (multiplying factor) on (IIII) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr.	Day Day @ @ @ @ @	0.49 0.63 3% 1% 0.1405	₹	Rate 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 151.9 195.3 347.2 10.4 357.6 3.6 361.2 50. 411. 473. 4. 478.
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (II) Add 3% for contingencies on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 10 Mtr.	Day Day @ @ @ @ @	0.49 0.63 3% 1% 0.1405	₹	Rate 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 151.9 195.3 347.2 10.4 357.6 3.5 361.2 50. 411. 473. 4. 478.
Code 0203	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (III) Add 3% for contingencies on (III) TOTAL (IIII) Add GST (multiplying factor) on (IIII) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr.	Day Day @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	0.49 0.63 3% 1% 0.1405 15% 1% and bed	₹₹	310.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 151.9 195.3 347.2 10.4 357.6 3.8 361.2 50. 411. 473. 4. 478. 47.9
0203 0212	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (III) Add 3% for contingencies on (III) TOTAL (IIII) Add GST (multiplying factor) on (IIII) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including breamaterials near the site within 50 m lead and	Day Day @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	0.49 0.63 3% 1% 0.1405 15% 1% and bed	₹₹	310.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 151.9 195.3 347.2 10.4 357.6 3.8 361.2 50. 411. 473. 4. 478. 47.9
0203 0212	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (III) Add 3% for contingencies on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including breamaterials near the site within 50 m lead and dumps:	Day Day @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	0.49 0.63 3% 1% 0.1405 15% 1% and bed	₹₹	310.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 151.9 195.3 347.2 10.4 357.6 3.8 361.2 50. 411. 473. 4. 478. 47.9
0203 0212 20.4 20.4.7	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (III) Add 3% for contingencies on (II) TOTAL (IIII) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including breamaterials near the site within 50 m lead and dumps: 350 mm diameter	Day Day @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	0.49 0.63 3% 1% 0.1405 15% 1% s and bed unserviceal	₹₹	Rate 310.00 310.00 crete stamaterials	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 151.9 195.3 347.2 10.4 357.6 3.5 361.2 50. 411. 61. 473. 4. 478. 47.9
0203 0212 20.4	dumps: 300 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 1 % for water charges on (I) TOTAL (III) Add 3% for contingencies on (III) TOTAL (IIII) Add GST (multiplying factor) on (IIII) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including breamaterials near the site within 50 m lead and dumps: 350 mm diameter Description	Day Day @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	0.49 0.63 3% 1% 0.1405 15% 1% s and bed unserviceal	₹₹	Rate 310.00 310.00 crete stamaterials	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 151.9 195.3 347.2 10.9 357.0 3.9 411. 61. 473 4. 478. 47.9

0212	Coolie	Day	0.69	₹	310.00	₹	213.90
	TOTAL (I)					₹	399.90
	Add 3% for sundries & contingencies on (I)	@	3%			₹	12.00
	TOTAL (II)					₹	411.90
	Add 1 % for water charges on (II)	@	1%			₹	4.12
	TOTAL (III)					₹	416.02
	Add GST (multiplying factor) on (III)		0.1405			₹	58.4
	TOTAL (IV)					₹	474.4
	Add for contractor's profit and overheads on (IV)	@	15%			₹	71.1
	TOTAL (V)					₹	545.6
	Add cess on (V)	@	1%			₹	5.4
	Total cost for 10 Mtr.					₹	551.1
	Total cost for 1 Mtr.					₹	55.1
	Rate per metre (Say)					₹	55.10
20.4.8	Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 400 mm diameter						
Code	Description	Unit	Quantity		Rate	4	Amount
	Details of cost for 10 metre						
	LABOUR						
0203	Beldar	Day	0.66	₹	310.00	₹	204.60
0212	Coolie	Day	0.75	₹	310.00	₹	232.50
	TOTAL (I)					₹	437.10
	Add 3% for sundries & contingencies on (I)	@	3%			₹	13.11
	TOTAL (II)		10/			₹	450.21
	Add 1 % for water charges on (II)	@	1%			₹	4.50
	TOTAL (III) Add GST (multiplying factor) on (III)		0.1405			₹	454.71 63.8
			0.1403			₹	518.6
	TOTAL (IV) Add for contractor's profit and overheads on (IV)	@	15%				77.7
	rad for contractor's profit and overficads on (iv)		1370			7	77.7
	TOTAL (V)					₹	596.3
	TOTAL (V)		1%			₹	
	Add cess on (V)	@	1%			₹	5.9
	Add cess on (V) Total cost for 10 Mtr.		1%			₹	5.9 602.3
	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr.		1%			₹ ₹ ₹	5.9 602.3 60.2
	Add cess on (V) Total cost for 10 Mtr.		1%			₹	5.9 602.3 60.2
20.4	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps:	@ king of joints	and bed			₹ ₹ ₹ ₹	
20.4.9	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter	e king of joints disposal of	and bed unserviceat		materials	₹ ₹ ₹ ₹	602.3 60.2 60.20 g of useful municipa
	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description	@ king of joints	and bed			₹ ₹ ₹ ₹	5.9 602.3 60.20 60.20
20.4.9	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description Details of cost for 10 metre	e king of joints disposal of	and bed unserviceat		materials	₹ ₹ ₹ ₹	602.3 60.20 60.20 g of useful municipa
20.4.9 Code	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description Details of cost for 10 metre LABOUR	king of joints disposal of	and bed unserviceat	ole	materials Rate	₹ ₹ ₹	602.3 60.20 60.20 g of usefu municipa Amount
20.4.9 Code	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description Details of cost for 10 metre LABOUR Beldar	eking of joints disposal of Unit	Quantity 0.66	ole **	Rate 310.00	₹ ₹ ₹ Cking	5.9 602.3 60.20 60.20 g of useful municipal Amount
20.4.9 Code	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie	king of joints disposal of	and bed unserviceat	ole	materials Rate	₹ ₹ ₹ cking	5.9 602.3 60.20 60.20 g of usefu municipa Amount
20.4.9 Code	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I)	e king of joints disposal of Unit Day Day	Quantity 0.66 0.81	ole **	Rate 310.00	₹ ₹ ₹ Cking into	5.9 602.3 60.20 9 of useful municipal Amount 204.60 251.10 455.70
20.4.9 Code	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 3% for sundries & contingencies on (I)	eking of joints disposal of Unit	Quantity 0.66	ole **	Rate 310.00	₹ ₹ ₹ Cking into	5.9 602.3 60.20 60.20 9 of usefu municipal Amount 204.60 251.10 455.70
20.4.9 Code	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II)	wing of joints disposal of Unit Day Day Day @	Quantity 0.66 0.81	ole **	Rate 310.00	₹ ₹ Ecking into	5.9 602.3 60.20 9 of useful municipal Amount 204.6 251.1 455.7 13.6 469.3
20.4.9 Code	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II)	e king of joints disposal of Unit Day Day	Quantity 0.66 0.81	ole **	Rate 310.00	₹ ₹ cking into	5.9 602.3 60.20 9 of useful municipal Amount 204.6 251.10 455.7 13.6 469.3 4.6
20.4.9 Code	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (III) Add 1 % for water charges on (II) TOTAL (III)	wing of joints disposal of Unit Day Day Day @	Quantity O.66 O.81 1%	ole **	Rate 310.00	₹ ₹ ₹ cking into	5.9 602.3 60.20 g of usefu municipal Amount 204.6 251.1 455.7 13.6 469.3 4.6 474.0
20.4.9 Code	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Dismantling of old S.W. pipes including brea materials near the site within 50 m lead and dumps: 450 mm diameter Description Details of cost for 10 metre LABOUR Beldar Coolie TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II)	wing of joints disposal of Unit Day Day Day @	Quantity 0.66 0.81	ole **	Rate 310.00	₹ ₹ cking into	5.9 602.3 60.20 9 of useful municipal Amount 204.6 251.10 455.7 13.6 469.3 4.6

	TOTAL (V)					₹	621.77
	Add cess on (V)	@	1%			₹	6.22
	Total cost for 10 Mtr.		.,,			₹	627.99
	Total cost for 1 Mtr.					₹	62.80
	Rate per metre (Say)					₹	62.80
	Rate per metre (Jay)						02.00
20.5	Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete						
Code	100 mm dia. R.C.C. pipe Description	Unit	Ougntity	Π	Rate	l	Amount
Code	·	Unit	Quantity		каце		Amount
	Details of cost for 10 metre						
20004	MATERIALS		40.00	_	250.00	Ţ	2.500.00
20004	100 mm dia pipe (in 2 m. length = 5 nos.)	metre	10.00	₹	350.00	₹	3,500.00
	Collars 5 Nos.	each	5.00	₹	56.00	₹	280.00
0435	carriage of pipes Cement of 5 joints = 5 x 0.00065 = 0.00325 cum = 0.0048 t	100 metre	0.10	₹	251.98	₹	25.20
03001	say 0.005 tonne	tonne	0.005	₹	5,800.00	₹	29.00
0421	Carriage of cement	tonne	0.005	₹	102.47	₹	0.51
02003	Fine sand for 5 joint = 0.0013 x 5 = 0.0065 cum = 0.006						
	cum	cum	0.006	₹	560.00	₹	3.36
0425	Carriage of sand	cum	0.006	₹	131.75	₹	0.79
	LABOUR						
0219	Mason 1st class	Day	0.32	₹	440.00	₹	140.80
0220	Mason 2nd class	Day	0.32	₹	395.00	₹	126.40
0203	Beldar	Day	0.63	₹	310.00	₹	195.30
0205	Bhishti	Day	0.16	₹	310.00	₹	49.60
	TOTAL (I)					₹	4,350.96
	Add 3% for sundries & contingencies on (I)	@	3%			₹	130.53
	TOTAL (II)					₹	4,481.49
	Add 1 % for water charges on (II)	@	1%			₹	44.81
	TOTAL (III)					₹	4,526.30
	Add GST (multiplying factor) on (III)		0.1405			₹	635.95
	TOTAL (IV)					₹	5,162.25
	Add for contractor's profit and overheads on (IV)	@	15%			₹	774.34
	TOTAL (V)					₹	5,936.59
	Add cess on (V)	@	1%			₹	59.37
	Total cost for 10 Mtr.					₹	5,995.96
	Total cost for 1 Mtr.					₹	599.60
	Rate per metre (Say)					₹	599.60
20.5	Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete						
20.5.2	150mmdia. R.C.C. pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre						
20005	MATERIALS		10.55	<u> </u>	100 = 1	_	
20005	150 mm dia pipe (in 2 m. length = 5 nos.)	metre	10.00	₹	400.00	₹	4,000.00
20018 0439	Collars 5 Nos.	each	5.00	₹	72.00	₹	360.00
03001	carriage of pipes Cement of 5 joints = 5 x 0.0008 = 0.004 cum = 0.006 tonne	100metre	0.10	₹	5 800 00	₹	42.00
0421	Carriage of cement	tonne	0.006	₹	5,800.00 102.47	₹	34.80 0.61
02003	Fine sand for 5 joint = 0.0016 x 5 = 0.008 cum	tonne cum	0.008	₹	560.00	₹	4.48
0425	Carriage of sand	cum	0.008	₹	131.75	₹	1.05
	LABOUR		3.000	Ť		È	1.00

0220 0203 0205	Mason 1 st class Mason 2nd class	Day	0.39	₹	440.00	₹	171.60
		Day	0.39	₹	395.00	₹	154.05
0205	Beldar	Day	0.78	₹	310.00	₹	241.80
	Bhishti	Day	0.16	₹	310.00	₹	49.60
	TOTAL (I)					₹	5,059.99
	Add 3% for sundries & contingencies on (I)	@	3%			₹	151.80
	TOTAL (II)					₹	5,211.79
	Add 1 % for water charges on (II)	@	1%			₹	52.12
	TOTAL (III)					₹	5,263.91
	Add GST (multiplying factor) on (III)		0.1405			₹	739.5
	TOTAL (IV)					₹	6,003.4
	Add for contractor's profit and overheads on (IV)	@	15%			₹	900.5
	TOTAL (V)					₹	6,904.0
	Add cess on (V)	@	1%			₹	69.0
	Total cost for 10 Mtr.					₹	6,973.0
	Total cost for 1 Mtr.					₹	697.3
	Rate per metre (Say)					₹	697.30
20.5.3	etc. complete 250 mm dia. R.C.C. pipe		.				
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre						
	MATERIALS						
20006	250 mm dia pipe (in 2 m. length = 5 nos.)	metre	10.00	₹	475.00	₹	4,750.00
20019	Collars 5 Nos.	each	5.00	₹	117.00	₹	585.00
0440	carriage of pipes	100metre	0.10	₹	969.17	₹	96.92
03001							
03001	Cement of 5 joints = 5 x 0.0012 = 0.006 cum = 0.009 tonne	tonne	0.009	₹	5,800.00	₹	52.20
0421	Carriage of cement	tonne	0.009	₹	102.47	₹	0.92
02003	Fine sand for 5 joint = 0.0024 x 5 = 0.012 cum	cum	0.012	₹	560.00	₹	6.72
0425	Carriage of sand	cum	0.012	₹	131.75	₹	1.58
	LABOUR						
0219	Mason 1st class	Day	0.54	₹	440.00	₹	237.60
0220	Mason 2nd class	Day	0.54	₹	395.00	₹	213.30
0203	Beldar	Day	1.50	₹	310.00	₹	465.00
0205	Bhishti	Day	0.23	₹	310.00	₹	71.30
	TOTAL (I)					₹	6,480.54
	Add 3% for sundries & contingencies on (I)	@	3%			₹	194.42
	TOTAL (II)					₹	6,674.96
	Add 1 % for water charges on (II)	@	1%			₹	66.75
	TOTAL (III)		0.1.105			₹	6,741.71
	Add GST (multiplying factor) on (III)		0.1405			₹	947.2
	TOTAL (IV)		450/			₹	7,688.9
	Add for contractor's profit and overheads on (IV)	@	15%			₹	1,153.3
	TOTAL (V)		4.07			₹	8,842.2
	Add cess on (V)	@	1%			₹	88.4
				l		₹	8,930.6
	Total cost for 10 Mtr.						
	Total cost for 10 Mtr. Total cost for 1 Mtr.					₹	893.0

Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre						
	MATERIALS						
20007	300 mm dia pipe (in 2.5 m. length = 4 nos.)	metre	10.00	₹	698.00	₹	6,980.00
20020	Collars 4 Nos.	each	4.00	₹	143.00	₹	572.00
0441							
03001	carriage of pipes Cement of 4 joints = 4x0.00185 = 0.0074 cum = 0.011 tonne	100 metre	0.10	₹	1,199.92		119.99 63.80
0421	Carriage of cement	tonne	0.011	₹	5,800.00	₹	1.13
02003	Carriage of cernent	torine	0.011	`	102.47	`	1.13
	Fine sand for 4 joint = 0.0037x4 = 0.0148, say 0.015 cum	cum	0.015	₹	560.00	₹	8.40
0425	Carriage of sand	cum	0.015	₹	131.75	₹	1.98
	LABOUR						
0219	Mason 1st class	Day	0.59	₹	440.00	₹	259.60
0220	Mason 2nd class	Day	0.59	₹	395.00	₹	233.05
0203	Beldar	Day	1.16	₹	310.00	₹	359.60
0205	Bhishti	Day	0.20	₹	310.00	₹	62.00
	TOTAL (I)					₹	8,661.55
	Add 3% for sundries & contingencies on (I)	@	3%			₹	259.85
	TOTAL (II)					₹	8,921.40
	Add 1 % for water charges on (II)	@	1%			₹	89.21
	TOTAL (III)					₹	9,010.61
	Add GST (multiplying factor) on (III)		0.1405			₹	1,265.99
	TOTAL (IV)					₹	10,276.60
	Add for contractor's profit and overheads on (IV)	@	15%			₹	1,541.49
						₹	11,818.09
-	TOTAL (V)						
	TOTAL (V) Add cess on (V)	@	1%			₹	118.18
		@	1%			₹	
	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr.	@	1%			₹	11,936.2 1,193.63
	Add cess on (V) Total cost for 10 Mtr.	@	1%			₹	118.18 11,936.27 1,193.63 1,193.60
20.5	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete	nt duty) R.C.	C. pipes w			₹ ₹	11,936.2 1,193.60 1,193.60 ed with stif
	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2	nt duty) R.C.	C. pipes w			₹ ₹	11,936.2 1,193.60 1,193.60 ed with stif
20.5.5	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description	nt duty) R.C.	C. pipes weent: 2 fine		including	₹ ₹	11,936.2 1,193.60 1,193.60 ed with stifting of joints
20.5.5	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (ligmixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre	nt duty) R.C.	C. pipes weent: 2 fine		including	₹ ₹	11,936.2 1,193.60 1,193.60 ed with stifting of joints
20.5.5	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS	of duty) R.C. 2 (1 sand:cem Unit	C. pipes whent: 2 find	e) i	Rate	₹ ₹	11,936.2 1,193.60 1,193.60 ed with stifting of joints
20.5.5 Code	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (ligmixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre	nt duty) R.C.	C. pipes weent: 2 fine		including	₹ ₹	11,936.2 1,193.60 1,193.60 ed with stifting of joints
20.5.5 Code 20008	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 450 mmdiampe (in 2.5 m. length = 4 nos.)	Unit	C. pipes whent: 2 find	e) i	Rate	₹ ₹	11,936.2 1,193.60 1,193.60 ed with stifting of joints
20.5.5 Code 20008 20021	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 450 mmdiampe (in 2.5 m. length = 4 nos.) Collars 4 Nos.	Unit metre each	C. pipes whent: 2 find Quantity 10.00 4.00	₹ ₹	Rate 1,485.00 354.00	₹ ₹ coint test	11,936.2 1,193.60 1,193.60 ed with stiffing of joints Amount
20.5.5 Code 20008 20021 0442	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (ligmixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 450 mmdiampe (in 2.5 m. length = 4 nos.) Collars 4 Nos. carriage of pipes	Unit metre each 100 metre	C. pipes whent: 2 find Quantity 10.00 4.00 0.10	₹ ₹	Rate 1,485.00 354.00 2,799.82	₹ ₹ test	11,936.2 1,193.60 1,193.60 ed with stifting of joints ing of joints Amount 14,850.00 1,416.00 279.98
20.5.5 Code 20008 20021 0442 03001	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (ligmixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 450 mmdiampe (in 2.5 m. length = 4 nos.) Collars 4 Nos. carriage of pipes Cement of 4 joints = 4 x 0.0041 = 0.0164 cum = 0.024 t	Unit metre each 100 metre tonne	C. pipes whent: 2 find Quantity 10.00 4.00 0.10 0.024	₹ ₹	Rate 1,485.00 354.00 2,799.82 5,800.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	11,936.2 1,193.60 1,193.60 ed with stifting of joints ting of joints Amount 14,850.00 1,416.00 279.98
20.5.5 Code 20008 20021 0442 03001 0421	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 450 mmdiampe (in 2.5 m. length = 4 nos.) Collars 4 Nos. carriage of pipes Cement of 4 joints = 4 x 0.0041 = 0.0164 cum = 0.024 t Carriage of cement	Unit metre each 100 metre tonne tonne	C. pipes whent: 2 find the control of the control o	₹ ₹ ₹ ₹	Rate 1,485.00 354.00 2,799.82 5,800.00 102.47	₹ ₹ ₹ ₹ ₹ ₹	11,936.2 1,193.60 1,193.60 ed with stifting of joints 2,100 1,416.00 279.98 139.20 2.46
20.5.5 Code 20008 20021 0442 03001 0421 02003	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 450 mmdiampe (in 2.5 m. length = 4 nos.) Collars 4 Nos. carriage of pipes Cement of 4 joints = 4 x 0.0041 = 0.0164 cum = 0.024 t Carriage of cement Fine sand for 4 joint = 0.0082 x 4 = 0.033 cum	Unit metre each 100 metre tonne tonne cum	C. pipes when: 2 find Quantity 10.00 4.00 0.10 0.024 0.024 0.033	₹ ₹ ₹ ₹ ₹	1,485.00 354.00 2,799.82 5,800.00 102.47 560.00	₹ ₹ ₹ ₹ ₹	11,936.2 1,193.60 1,193.60 ed with stifting of joint Amount 14,850.00 1,416.00 279.98 139.20 2.46
20.5.5 Code 20008 20021 0442 03001 0421 02003	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 450 mmdiampe (in 2.5 m. length = 4 nos.) Collars 4 Nos. carriage of pipes Cement of 4 joints = 4 x 0.0041 = 0.0164 cum = 0.024 t Carriage of cement Fine sand for 4 joint = 0.0082 x 4 = 0.033 cum Carriage of sand	Unit metre each 100 metre tonne tonne cum	C. pipes when: 2 find Quantity 10.00 4.00 0.10 0.024 0.024 0.033	₹ ₹ ₹ ₹ ₹	1,485.00 354.00 2,799.82 5,800.00 102.47 560.00	₹ ₹ ₹ ₹ ₹	11,936.2 1,193.60 1,193.60 1,193.60 ed with stifting of joint Amount 14,850.00 1,416.00 279.98 139.20 2.46 4.35
20.5.5 Code 20008 20021 0442 03001 0421 02003 0425	Add cess on (V) Total cost for 10 Mtr. Total cost for 1 Mtr. Rate per metre (Say) Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete 450 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 450 mmdiampe (in 2.5 m. length = 4 nos.) Collars 4 Nos. carriage of pipes Cement of 4 joints = 4 x 0.0041 = 0.0164 cum = 0.024 t Carriage of cement Fine sand for 4 joint = 0.0082 x 4 = 0.033 cum Carriage of sand LABOUR	Unit Metre each 100 metre tonne cum cum	C. pipes when: 2 find Quantity 10.00 4.00 0.10 0.024 0.024 0.033 0.033	₹ ₹ ₹ ₹	Rate 1,485.00 354.00 2,799.82 5,800.00 102.47 560.00 131.75	₹ ₹ ₹ ₹ ₹ ₹	11,936.2 1,193.60 1,193.60 ed with stifting of joints ting of joints 14,850.00 1,416.00 279.98 139.20 2.46 18.48

0205	Dhishai	Devi	0.00	_	210.00	_	102.20
0203	Bhishti	Day	0.33	₹	310.00	₹	102.30
	TOTAL (I)					₹	17,904.02
	Add 3% for sundries & contingencies on (I)	@	3%			₹	537.12
	TOTAL (II)					₹	18,441.14
	Add 1 % for water charges on (II)	@	1%			₹	184.41
	TOTAL (III)					₹	18,625.55
	Add GST (multiplying factor) on (III)		0.1405			₹	2,616.89
	TOTAL (IV)					₹	21,242.44
	Add for contractor's profit and overheads on (IV)	@	15%			₹	3,186.37
	TOTAL (V)	_				₹	24,428.81
	Add cess on (V)	@	1%			₹	244.29
	Total cost for 10 Mtr.					₹	24,673.10
	Total cost for 1 Mtr.					₹ -	2,467.3
	Rate per metre (Say)					₹	2,467.30
20.5.6	Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete 500 mm dia. R.C.C. pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre						
20009	MATERIALS					_	
	500 mm dia pipe (in 2.5 m. length = 4)	metre	10.00	₹	1,700.00	₹	17,000.00
20022	Collars 4 Nos.	each	4.00	₹	415.00	₹	1,660.00
0442	carriage of pipe	100 metre	0.10	₹	2,799.82	₹	279.98
03001	Cement of 4 joints = 4 x 0.00185 = 0.0074 cum = 0.011 t	tonne	0.026	₹	5,800.00	₹	150.80
0421	Carriage of cement	tonne	0.026	₹	102.47	₹	2.66
02003	Fine sand for 4 joint = 0.0089 x 4 = 0.0356 cum = 0.036 cum	cum	0.036	₹	560.00	₹	20.16
0425	Carriage of sand	cum	0.036	₹	131.75	-	4.74
						₹	
	LABOUR					₹	
0219	LABOUR Mason 1 st class	Day	0.81	₹	440.00		356.40
0219	Mason 1 st class	Day		₹	440.00	₹	
0220	Mason 1 st class Mason 2nd class	Day	0.81	₹	440.00 395.00	₹	319.95
0220 0203	Mason 1 st class Mason 2nd class Beldar	Day Day	0.81	₹	440.00 395.00 310.00	₹	319.95 502.20
0220	Mason 1 st class Mason 2nd class Beldar Bhishti	Day	0.81	₹	440.00 395.00	₹ ₹ ₹	319.95 502.20 102.30
0220 0203	Mason 1 st class Mason 2nd class Beldar	Day Day Day	0.81 1.62 0.33	₹	440.00 395.00 310.00	₹	319.95 502.20 102.30
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti	Day Day	0.81	₹	440.00 395.00 310.00	₹ ₹ ₹	319.95 502.20 102.30 20,399.19
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I)	Day Day Day	0.81 1.62 0.33	₹	440.00 395.00 310.00	₹ ₹ ₹	319.95 502.20 102.30 20,399.19 611.98
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II)	Day Day Day	0.81 1.62 0.33	₹	440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹	319.95 502.20 102.30 20,399.19 611.98 21,011.17
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III)	Day Day Day @	0.81 1.62 0.33 3%	₹	440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹	319.95 502.20 102.30 20,399.19 611.98 21,011.17 210.11 21,221.28
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III)	Day Day Day @	0.81 1.62 0.33 3%	₹	440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	319.95 502.20 102.30 20,399.19 611.98 21,011.17 210.11 21,221.28 2,981.59
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV)	Day Day Day @ @	0.81 1.62 0.33 3% 1% 0.1405	₹	440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	319.95 502.20 102.30 20,399.19 611.98 21,011.17 210.11 21,221.28 2,981.59 24,202.87
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV)	Day Day Day @	0.81 1.62 0.33 3%	₹	440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹	319.95 502.20 102.30 20,399.19 611.98 21,011.17 210.11 21,221.28 2,981.59 24,202.87 3,630.43
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V)	Day Day Day @ @ @ @ @ @	0.81 1.62 0.33 3% 1% 0.1405	₹	440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	319.95 502.20 102.30 20,399.19 611.98 21,011.17 210.11 21,221.28 2,981.59 24,202.87 3,630.43 27,833.30
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V)	Day Day Day @ @	0.81 1.62 0.33 3% 1% 0.1405	₹	440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	319.95 502.20 102.30 20,399.19 611.98 21,011.17 210.11 21,221.28 2,981.59 24,202.87 3,630.43 27,833.30 278.33
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 10 Mtr.	Day Day Day @ @ @ @ @ @	0.81 1.62 0.33 3% 1% 0.1405	₹	440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	356.40 319.95 502.20 102.30 20,399.19 611.98 21,011.17 210.11 21,221.28 2,981.59 24,202.87 3,630.43 27,833.30 278.33 28,111.63
0220 0203	Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V)	Day Day Day @ @ @ @ @ @	0.81 1.62 0.33 3% 1% 0.1405	₹	440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	319.95 502.20 102.30 20,399.19 611.98 21,011.17 210.11 21,221.28 2,981.59 24,202.87 3,630.43 27,833.30 278.33

	Providing and laying non-pressure NP2 class (ligh mixture of cement mortar in the proportion of 1:2 etc. complete						
20.5.7	600 mm dia. R.C.C. pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre						
	MATERIALS						
20010	600 mm dia pipe (in 2.5 m. length = 4 nos.)	metre	10.00	₹	2,306.00	₹	23,060.00
20023	Collars 4 Nos	each	4.00	₹	520.00	₹	2,080.00
0443	carriage of pipes	100 metre	0.10	₹	4,199.73	₹	419.97
03001	Cement of 4 joints = 4 x 0.0054 = 0.0216 cum = 0.032 tonne		0.032	₹	5,800.00	₹	185.60
0421	Carriage of cement	tonne	0.032	₹	102.47	₹	3.28
02003	Fine sand for 4 joint = 0.0108 x 4 = 0.043 cum	cum	0.043	₹	560.00	₹	24.08
0425	Carriage of sand	cum	0.043	₹	131.75	₹	5.67
	LABOUR		0.0.0				
0219	Mason 1 st class	Day	0.92	₹	440.00	₹	404.80
0220	Mason 2nd class	Day	0.92	₹	395.00	₹	363.40
0203	Beldar	,	1.83	₹	310.00	₹	567.30
0205	Bhishti	Day		₹		₹	
0203		Day	0.33	<	310.00		102.30
	TOTAL (I)	@	3%			₹ -	27,216.40
	Add 3% for sundries & contingencies on (I)	<u>w</u>	3%			₹	816.49
	TOTAL (II)		40/			₹	28,032.89
	Add 1 % for water charges on (II)	@	1%			₹	280.33
	TOTAL (III)					₹	28,313.22
	Add GST (multiplying factor) on (III)		0.1405			₹	3,978.01
	TOTAL (IV)					₹	32,291.23
	Add for contractor's profit and overheads on (IV)	@	15%			₹	4,843.68
	TOTAL (V)					₹	37,134.91
	Add cess on (V)	@	1%			₹	371.35
	Total cost for 10 Mtr.					₹	37,506.26
	Total cost for 1 Mtr.					₹	3,750.63
	Rate per metre (Say)					₹	3,750.60
						Ť	0,,,,,,,,
20.5	Providing and laying non-pressure NP2 class (ligh mixture of cement mortar in the proportion of 1:2 etc. complete						
20.5.8	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe	(1 sand:cem	nent: 2 find				
	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description						
20.5.8 Code	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS	(1 sand:cem	nent: 2 find		Rate		ing of joints
20.5.8 Code	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.)	(1 sand:cem	Quantity		Rate 2,610.00		Amount 26,100.00
20.5.8 Code	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos	(1 sand:cem	Quantity	e)	Rate 2,610.00 525.00	test	Amount 26,100.00
20.5.8 Code 20011 20024 0443	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.)	Unit metre	Quantity	₹	Rate 2,610.00	test	Amount 26,100.00 2,100.00
20.5.8 Code 20011 20024	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos	Unit metre each	Quantity 10.00 4.00	₹ ₹	Rate 2,610.00 525.00	test	Amount 26,100.00 2,100.00 419.97
20.5.8 Code 20011 20024 0443 03001 0421	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos carriage of pipes	Unit metre each 100 meire	Quantity 10.00 4.00 0.10	₹ ₹	Rate 2,610.00 525.00 4,199.73	test	Amount 26,100.00 2,100.00 419.97
20.5.8 Code 20011 20024 0443 03001 0421 02003	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos carriage of pipes Cement of 4 joints = 4 x 0.0062 = 0.0248 cum = 0.037 t Carriage of cement Fine sand for 4 joint = 0.0124 x 4 = 0.0496 cum= 0.05 cum	Unit metre each 100 meire tonne tonne cum	Quantity 10.00 4.00 0.10 0.037 0.037	₹ ₹ ₹ ₹	Rate 2,610.00 525.00 4,199.73 5,800.00 102.47 560.00	₹ ₹ ₹ ₹ ₹	Amount 26,100.00 2,100.00 419.97 214.60 3.79
20.5.8 Code 20011 20024 0443 03001 0421	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos carriage of pipes Cement of 4 joints = 4 x 0.0062 = 0.0248 cum = 0.037 t Carriage of cement Fine sand for 4 joint = 0.0124 x 4 = 0.0496 cum= 0.05 cum Carriage of sand	Unit metre each 100 meire tonne tonne	Quantity 10.00 4.00 0.10 0.037 0.037	₹ ₹ ₹	Rate 2,610.00 525.00 4,199.73 5,800.00 102.47	test ₹ ₹	Amount 26,100.00 2,100.00 419.97 214.60 3.79
20.5.8 Code 20011 20024 0443 03001 0421 02003 0425	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos carriage of pipes Cement of 4 joints = 4 x 0.0062 = 0.0248 cum = 0.037 t Carriage of cement Fine sand for 4 joint = 0.0124 x 4 = 0.0496 cum= 0.05 cum Carriage of sand LABOUR	Unit Metre each 100 meire tonne tonne cum cum	10.00 4.00 0.10 0.037 0.037 0.05	₹ ₹ ₹ ₹ ₹	Rate 2,610.00 525.00 4,199.73 5,800.00 102.47 560.00 131.75	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 26,100.00 2,100.00 419.97 214.60 3.79 28.00 6.59
20.5.8 Code 20011 20024 0443 03001 0421 02003 0425	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos carriage of pipes Cement of 4 joints = 4 x 0.0062 = 0.0248 cum = 0.037 t Carriage of cement Fine sand for 4 joint = 0.0124 x 4 = 0.0496 cum= 0.05 cum Carriage of sand LABOUR Mason 1 st class	Unit Metre each 100 meire tonne tonne cum cum Day	Ouantity 10.00 4.00 0.10 0.037 0.037 0.05 0.05 1.03	₹ ₹ ₹ ₹ ₹	Rate 2,610.00 525.00 4,199.73 5,800.00 102.47 560.00 131.75	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 26,100.00 2,100.00 419.97 214.60 3.79 28.00 6.59
20.5.8 Code 20011 20024 0443 03001 0421 02003 0425 0219 0220	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos carriage of pipes Cement of 4 joints = 4 x 0.0062 = 0.0248 cum = 0.037 t Carriage of cement Fine sand for 4 joint = 0.0124 x 4 = 0.0496 cum= 0.05 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class	Unit metre each 100 meire tonne tonne cum cum Day Day	10.00 4.00 0.10 0.037 0.037 0.05 0.05 1.03 1.03	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 2,610.00 525.00 4,199.73 5,800.00 102.47 560.00 131.75 440.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 26,100.00 2,100.00 419.97 214.60 3.79 28.00 6.59 453.20 406.85
20.5.8 Code 20011 20024 0443 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos carriage of pipes Cement of 4 joints = 4 x 0.0062 = 0.0248 cum = 0.037 t Carriage of cement Fine sand for 4 joint = 0.0124 x 4 = 0.0496 cum = 0.05 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar	Unit metre each 100 meire tonne cum cum Day Day Day	Ouantity 10.00 4.00 0.10 0.037 0.037 0.05 0.05 1.03 1.03 2.06	₹ ₹ ₹ ₹ ₹	Rate 2,610.00 525.00 4,199.73 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 26,100.00 2,100.00 419.97 214.60 3.79 28.00 6.59 453.20 406.85 638.60
20.5.8 Code 20011 20024 0443 03001 0421 02003 0425 0219 0220	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos carriage of pipes Cement of 4 joints = 4 x 0.0062 = 0.0248 cum = 0.037 t Carriage of cement Fine sand for 4 joint = 0.0124 x 4 = 0.0496 cum= 0.05 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti	Unit metre each 100 meire tonne tonne cum cum Day Day	10.00 4.00 0.10 0.037 0.037 0.05 0.05 1.03 1.03	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 2,610.00 525.00 4,199.73 5,800.00 102.47 560.00 131.75 440.00 395.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 26,100.00 2,100.00 419.97 214.60 3.79 28.00 6.59 453.20 406.85 638.60 130.20
20.5.8 Code 20011 20024 0443 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1:2 etc. complete 700 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 700 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos carriage of pipes Cement of 4 joints = 4 x 0.0062 = 0.0248 cum = 0.037 t Carriage of cement Fine sand for 4 joint = 0.0124 x 4 = 0.0496 cum = 0.05 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar	Unit metre each 100 meire tonne cum cum Day Day Day	Ouantity 10.00 4.00 0.10 0.037 0.037 0.05 0.05 1.03 1.03 2.06	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Rate 2,610.00 525.00 4,199.73 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 26,100.00 2,100.00 419.97 214.60 3.79 28.00 6.59

	,	T					
	Add 1 % for water charges on (II)	@	1%			₹	314.17
	TOTAL (III)					₹	31,731.02
	Add GST (multiplying factor) on (III)		0.1405			₹	4,458.21
	TOTAL (IV)					₹	36,189.23
	Add for contractor's profit and overheads on (IV)	@	15%			₹	5,428.38
	TOTAL (V)					₹	41,617.61
	Add cess on (V)	@	1%			₹	416.18
	Total cost for 10 Mtr.					₹	42,033.79
	Total cost for 1 Mtr.					₹	4,203.38
	Rate per metre (Say)					₹	4,203.40
	, , , , ,						.,
20.5	Providing and laying non-pressure NP2 class (lig						
	mixture of cement mortar in the proportion of 1:	2 (1 sand:cem	nent: 2 fin	e)	including	test	<mark>ing of joints</mark>
	etc. complete						
20.5.9	800 mm dia. R.C.C. pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre						
	MATERIALS						
20012	800 mm dia pipe (in 2.5 m. length = 4 nos.)	metre	10.00	₹	3,050.00	₹	30,500.00
20025	Collars 4 Nos.	each	4.00	₹	750.00	₹	3,000.00
0443	carriage of pipes	100 metre	0.10	₹	4,199.73	₹	419.97
00001	-						
03001	Cement of 4 joints = 4 x 0.0072 = 0.0288 cum = 0.042 t	tonne	0.042	₹	5,800.00	₹	243.60
0421	Carriage of cement	tonne	0.042	₹	102.47	₹	4.30
02003	Fine sand for 4 joint = 0.0143 x 4 = 0.0572 cum = 0.057						
	cum	cum	0.057	₹	560.00	₹	31.92
0425	Carriage of sand	cum	0.057	₹	131.75	₹	7.51
	LABOUR						
0219	Mason 1st class	Day	1.14	₹	440.00	₹	501.60
0220	Mason 2nd class	Day	1.14	₹	395.00	₹	450.30
0203	Beldar	Day	2.28	₹	310.00	₹	706.80
0205	Bhishti	Day	0.42	₹	310.00	₹	130.20
	TOTAL (I)					₹	35,996.20
	Add 3% for sundries & contingencies on (I)	@	3%			₹	1,079.89
	TOTAL (II)					₹	37,076.09
	Add 1 % for water charges on (II)	@	1%			₹	370.76
	TOTAL (III)					₹	37,446.85
	Add GST (multiplying factor) on (III)		0.1405			₹	5,261.28
	TOTAL (IV)					₹	42,708.13
	Add for contractor's profit and overheads on (IV)	@	15%			₹	6,406.22
	TOTAL (V)					₹	49,114.35
	Add cess on (V)	@	1%			₹	491.14
	Total cost for 10 Mtr.					₹	49,605.49
	Total cost for 1 Mtr.					₹	4,960.55
	Rate per metre (Say)					₹	4,960.60
20.5	Providing and laying non-pressure NP2 class (lig	ht duty) R.C.	C. pipes v	/ith	collars j	ointe	ed with stiff
	mixture of cement mortar in the proportion of 1:						
	etc. complete						
20.5.10	900 mm dia. R.C.C. pipe	T	1				
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre						
_	MATERIALS			_			
20013	900 mm dia pipe (in 2.5 m. length = 4 nos.)	metre	10.00	₹	3,710.00	₹	37,100.00
20026	Collars 4 Nos.	each	4.00	₹	953.00	₹	3,812.00
0444	Carriage of pipes	100 melre	0.10	₹	6,299.59	₹	629.96

03001	Cement of 4 joints = 4 x 0.0082 = 0.0328 cum = 0.049 t	tonne	0.049	₹	5,800.00	₹	284.20
0421	Carriage of cement	tonne	0.049	₹	102.47	₹	5.02
02003	Fine sand for 4 joint = 0.0164 x 4 = 0.066 cum	cum	0.066	₹	560.00	₹	36.96
0425	Carriage of sand	cum	0.066	₹	131.75	₹	8.70
	LABOUR						
0219	Mason 1 st class	Day	1.25	₹	440.00	₹	550.00
0220	Mason 2nd class	Day	1.25	₹	395.00	₹	493.75
0203	Beldar	Day	3.00	₹	310.00	₹	930.00
0205	Bhishti	Day	0.50	₹	310.00	₹	155.00
	TOTAL (I)	@	20/			₹	44,005.59
	Add 3% for sundries & contingencies on (I) TOTAL (II)	<u>w</u>	3%			₹	1,320.17
	• •	@	1%				45,325.76
	Add 1 % for water charges on (II)		1 /0			₹	453.26
	TOTAL (III) Add GST (multiplying factor) on (III)		0.1405			₹	45,779.02 6,431.95
	, , , , , ,		0.1405			₹	52,210.97
	TOTAL (IV)	@	15%			₹	7,831.65
	Add for contractor's profit and overheads on (IV)	<u> </u>	13%			₹	
	TOTAL (V)	_					60,042.62
	Add cess on (V)	@	1%			₹	600.43
	Total cost for 10 Mtr.					₹	60,643.05
	Total cost for 1 Mtr.					₹	6,064.31
	Rate per metre (Say)					₹	6,064.30
		1					
20.5	Providing and Javing non-pressure NP2 class (light						
20.5	Providing and laying non-pressure NP2 class (ligmixture of cement mortar in the proportion of 1: etc. complete			e) i		test	ing or joints
20.5.11	mixture of cement mortar in the proportion of 1:			e) i		test	ing or joints
	mixture of cement mortar in the proportion of 1: etc. complete			e) i		test	Amount
20.5.11	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe	2 (1 sand:cem	nent: 2 find	e) i	including	test	
20.5.11	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description	2 (1 sand:cem	nent: 2 find	e) i	including	test	
20.5.11	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre	2 (1 sand:cem	nent: 2 find	e) i	including	test	
20.5.11 Code	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos.	2 (1 sand:cem	Quantity		Rate		Amount
20.5.11 Code	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.)	Unit metre	Quantity	₹	Rate	₹	Amount 47,000.00 3,940.00
20.5.11 Code 20014 20027	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos.	Unit metre each	Quantity 10.00 4.00	₹	Rate 4,700.00 985.00	₹	Amount 47,000.00 3,940.00 839.95
20.5.11 Code 20014 20027 0436	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes	Unit metre each 100 metre	Quantity 10.00 4.00 0.10	₹₹	Rate 4,700.00 985.00 8,399.45	₹ ₹	Amount 47,000.00
20.5.11 Code 20014 20027 0436 03001	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t	Unit metre each 100 metre tonne	Quantity 10.00 4.00 0.10 0.055	₹₹₹	Rate 4,700.00 985.00 8,399.45 5,800.00	₹₹₹	47,000.00 3,940.00 839.95 319.00 5.64
20.5.11 Code 20014 20027 0436 03001	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement	Unit metre each 100 metre tonne tonne	Quantity 10.00 4.00 0.055 0.055	₹₹₹₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47	₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44
20.5.11 Code 20014 20027 0436 03001 0421 02003	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum	Unit Metre each 100 metre tonne cum	10.00 4.00 0.10 0.055 0.074	₹₹₹₹₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00	₹ ₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44
20.5.11 Code 20014 20027 0436 03001 0421 02003	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand	Unit Metre each 100 metre tonne cum	10.00 4.00 0.10 0.055 0.074	₹₹₹₹₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00	₹ ₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR	Unit metre each 100 metre tonne cum cum	10.00 4.00 0.10 0.055 0.074 0.074	₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75	₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class	Unit Wetre each 100 metre tonne cum cum Day	10.00 4.00 0.10 0.055 0.074 0.074	₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75	₹ ₹ ₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class	Unit Wetre each 100 metre tonne cum cum Day Day	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00	₹ ₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar	Unit metre each 100 metre tonne cum cum Day Day Day	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36 4.33	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30 155.00
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti	Unit metre each 100 metre tonne cum cum Day Day Day	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36 4.33	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I)	Unit Wetre each 100 metre tonne cum cum Day Day Day Day Day Day	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36 4.33 0.50	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30 155.00 54,788.68
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I)	Unit Wetre each 100 metre tonne cum cum Day Day Day Day Day Day	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36 4.33 0.50	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30 155.00 54,788.68 1,643.66 56,432.34
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II)	Unit Metre each 100 metre tonne cum cum Day Day Day Day Day Day Day Day Day	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36 4.33 0.50	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30 155.00 54,788.68 1,643.66
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II)	Unit Metre each 100 metre tonne cum cum Day Day Day Day Day Day Day Day Day	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36 4.33 0.50	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30 155.00 54,788.68 1,643.66 56,432.34 564.32
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (III) Add 1 % for water charges on (II) TOTAL (III)	Unit Metre each 100 metre tonne cum cum Day Day Day Day Day Day Day Day Day	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36 4.33 0.50 3%	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30 155.00 54,788.68 1,643.66 56,432.34 564.32 56,996.66
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (III) Add 1 % for water charges on (III) TOTAL (IIII) Add GST (multiplying factor) on (IIII)	Unit Metre each 100 metre tonne cum cum Day Day Day Day Day Day Day Day Day	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36 4.33 0.50 3%	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30 155.00 54,788.68 1,643.66 56,432.34 564.32 56,996.66 8,008.03
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (III) Add 1 % for water charges on (III) TOTAL (III) Add GST (multiplying factor) on (IIII) TOTAL (IV)	Unit metre each 100 metre tonne cum cum Day Day Day Day Day Day @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36 4.33 0.50 3%	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30 155.00 54,788.68 1,643.66 56,432.34 564.32 56,996.66 8,008.03 65,004.69
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (II) Add 3% for sundries & contingencies on (I) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV)	Unit metre each 100 metre tonne cum cum Day Day Day Day Day Day @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	10.00 4.00 0.10 0.055 0.074 0.074 1.36 1.36 4.33 0.50 3%	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	Amount 47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30 155.00 54,788.68 1,643.66 56,432.34 564.32 56,996.66 8,008.03 65,004.69 9,750.70 74,755.39
20.5.11 Code 20014 20027 0436 03001 0421 02003 0425 0219 0220 0203	mixture of cement mortar in the proportion of 1: etc. complete 1000 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1000 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos. Carriage of pipes Cement of 4 joints = 4 x 0.0092 = 0.0368 cum = 0.055 t Carriage of cement Fine sand for 4 joint = 0.0185 x 4 = 0.074 cum Carriage of sand LABOUR Mason 1 st class Mason 2nd class Beldar Bhishti TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V)	Unit Hetre each 100 metre tonne cum cum Day Day Day Day Day Day @ @ @ @ @ @ @ @ @ @ @ @ @	10.00 4.00 0.10 0.055 0.055 0.074 0.074 1.36 1.36 4.33 0.50 3% 1% 0.1405	₹ ₹ ₹ ₹ ₹ ₹	Rate 4,700.00 985.00 8,399.45 5,800.00 102.47 560.00 131.75 440.00 395.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	47,000.00 3,940.00 839.95 319.00 5.64 41.44 9.75 598.40 537.20 1,342.30 155.00 54,788.68 1,643.66 56,432.34 564.32 56,996.66 8,008.03 65,004.69

	Rate per metre (Say)					₹	7,550.30
20.5	Providing and laying non-pressure NP2 class (light mixture of cement mortar in the proportion of 1:2 etc. complete						
20.5.12	1100 mm dia. R.C.C. pipe						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for 10 metre						
	MATERIALS						
20015	1100 mm dia pipe (in 2.5m.length = 4 Nos.)	metre	10.00	₹	5,500.00	₹	55,000.00
20028	Collars 4 Nos.	each	4.00	₹	1,110.00	₹	4,440.00
0437	carnage of pipes	100 metre	0.10	₹	8,399.45	₹	839.95
03001	Cement of 4 joints = 4 x 0.0103 = 0.0412 cum = 0.061 t	tonne	0.061	₹	5,800.00	₹	353.80
0421	Carriage of cement	tonne	0.061	₹	102.47	₹	6.25
02003	Fine sand for 4 joint = 0.0206 x 4 = 0.0824 cum = 0.082 cum	cum	0.082	₹	560.00	₹	45.92
0425	Carriage of sand	cum	0.082	₹	131.75	₹	10.80
	LABOUR						
0219	Mason 1st class	Day	1.47	₹	440.00	₹	646.80
0220	Mason 2nd class	Day	1.47	₹	395.00	₹	580.65
0203	Beldar	Day	6.30	₹	310.00	₹	1,953.00
0205	Bhishti	Day	0.60	₹	310.00	₹	186.00
	TOTAL (I)					₹	64,063.17
	Add 3% for sundries & contingencies on (I)	@	3%			₹	1,921.90
	TOTAL (II)					₹	65,985.07
	Add 1 % for water charges on (II)	@	1%			₹	659.85
	TOTAL (III)					₹	66,644.92
	Add GST (multiplying factor) on (III)		0.1405			₹	9,363.61
	TOTAL (IV)					₹	76,008.53
	Add for contractor's profit and overheads on (IV)	@	15%			₹	11,401.28
	TOTAL (V)					₹	87,409.81
	Add cess on (V)	@	1%			₹	874.10
	Total cost for 10 Mtr.					₹	88,283.91
	Total cost for 1 Mtr.					₹	8,828.39
	Rate per metre (Say)					₹	8,828.40
20.5	Providing and laying non-pressure NP2 class (ligh	at duty) R.C					
20 F 12	mixture of cement mortar in the proportion of 1:2 etc. complete						
20.5.13	etc. complete 1200 mm dia. R.C.C. pipe	(1 sand:cem	ent: 2 fine		including		ng of joints
20.5.13 Code	etc. complete 1200 mm dia. R.C.C. pipe Description						
	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre	(1 sand:cem	ent: 2 fine		including		ng of joints
Code	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS	Unit	Quantity	e) i	Rate	testi	ng of joints Amount
Code 20016	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1200 mm dia pipe (in 2.5 m. length = 4 nos.)	Unit metre	Quantity 10.00	₹	Rate 5,838.00	testi	Amount 58,380.00
20016 20029	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1200 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos	Unit metre each	Quantity 10.00 4.00	₹ ₹	Rate 5,838.00 1,294.00	testi	Amount 58,380.00 5,176.00
Code 20016	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1200 mm dia pipe (in 2.5 m. length = 4 nos.)	Unit metre	Quantity 10.00	₹	Rate 5,838.00	testi	Amount 58,380.00
20016 20029	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1200 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos	Unit metre each	Quantity 10.00 4.00	₹ ₹	Rate 5,838.00 1,294.00	testi	Amount 58,380.00 5,176.00
20016 20029 0438	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1200 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos Carriage of pipes	Unit metre each 100 metre	Quantity 10.00 4.00 0.10	₹ ₹	Rate 5,838.00 1,294.00 8,399.45	testi	Amount 58,380.00 5,176.00 839.95
20016 20029 0438 03001	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1200 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos Carriage of pipes Cement of 4 joints = 4 x 0.0114 = 0.0456 cum = 0.068 t	Unit metre each 100 metre tonne	Quantity 10.00 4.00 0.10	₹ ₹	Rate 5,838.00 1,294.00 8,399.45 5,800.00	testi	Amount 58,380.00 5,176.00 839.95
20016 20029 0438 03001	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1200 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos Carriage of pipes Cement of 4 joints = 4 x 0.0114 = 0.0456 cum = 0.068 t Carriage of cement	Unit metre each 100 metre tonne	Quantity 10.00 4.00 0.10 0.068 0.068	₹ ₹ ₹	Rate 5,838.00 1,294.00 8,399.45 5,800.00 102.47	testi ₹ ₹ ₹	Amount 58,380.00 5,176.00 839.95 394.40 6.97
20016 20029 0438 03001 0421 02003	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1200 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos Carriage of pipes Cement of 4 joints = 4 x 0.0114 = 0.0456 cum = 0.068 t Carriage of cement Fine sand for 4 joint = 0.0229 x 4 = 0.0916 cum = 0.092 cur	Unit Metre each 100 metre tonne tonne cum	Quantity 10.00 4.00 0.10 0.068 0.068 0.092	₹ ₹ ₹ ₹	Rate 5,838.00 1,294.00 8,399.45 5,800.00 102.47 560.00	₹ ₹ ₹ ₹ ₹ ₹	Amount 58,380.00 5,176.00 839.95 394.40 6.97 51.52
20016 20029 0438 03001 0421 02003	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1200 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos Carriage of pipes Cement of 4 joints = 4 x 0.0114 = 0.0456 cum = 0.068 t Carriage of cement Fine sand for 4 joint = 0.0229 x 4 = 0.0916 cum = 0.092 cur Carriage of sand	Unit Metre each 100 metre tonne tonne cum	Quantity 10.00 4.00 0.10 0.068 0.068 0.092	₹ ₹ ₹ ₹	Rate 5,838.00 1,294.00 8,399.45 5,800.00 102.47 560.00	₹ ₹ ₹ ₹ ₹ ₹	Amount 58,380.00 5,176.00 839.95 394.40 6.97 51.52 12.12
20016 20029 0438 03001 0421 02003	etc. complete 1200 mm dia. R.C.C. pipe Description Details of cost for 10 metre MATERIALS 1200 mm dia pipe (in 2.5 m. length = 4 nos.) Collars 4 Nos Carriage of pipes Cement of 4 joints = 4 x 0.0114 = 0.0456 cum = 0.068 t Carriage of cement Fine sand for 4 joint = 0.0229 x 4 = 0.0916 cum = 0.092 cur Carriage of sand LABOUR	Unit metre each 100 metre tonne tonne cum cum	Quantity 10.00 4.00 0.10 0.068 0.068 0.092 0.092	₹ ₹ ₹ ₹	5,838.00 1,294.00 8,399.45 5,800.00 102.47 560.00 131.75	₹ ₹ ₹ ₹ ₹	Amount 58,380.00 5,176.00 839.95 394.40 6.97 51.52

0005	<u></u>	T _		1		1	
0205	Bhishti	Day	0.67	₹	310.00	₹	207.70
	TOTAL (I)		20/			₹	69,084.01
	Add 3% for sundries & contingencies on (I)	@	3%			₹	2,072.52
	TOTAL (II)	@	10/			₹	71,156.53
	Add 1 % for water charges on (II)	w	1%			₹	711.57
	TOTAL (III)		0.1405			₹	71,868.10
	Add GST (multiplying factor) on (III)		0.1405			₹	10,097.47
	TOTAL (IV) Add for contractor's profit and overheads on (IV)	@	1 = 0/			₹	81,965.57 12,294.84
	, , ,	8	15%			₹	94,260.4
	TOTAL (V)		4.0/				•
	Add cess on (V)	@	1%			₹	942.60
	Total cost for 10 Mtr.					₹	95,254.5
	Total cost for 1 Mtr.					₹	9,525.4
	Rate per metre (Say)					₹	9,525.50
20.6.1	Providing M.S. foot rests including fixing in manho (1 cement: 3 fine sand : 6 graded stone aggregate 2 With 20 x 20 mm square bar						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one M.S foot rests						
	MATERIALS						
05042	M.S. 20 mm square bar 0.75 m @ 3.137 Kg/m	quintal	0.024	₹	4,600.00	₹	110.40
	LABOUR for fabrication						
0207	Black smith (2 nd class)	Day	0.10	₹	395.00	₹	39.50
0203	Beldar	Day	0.10	₹	310.00	₹	31.00
	Cement concrete 1:3:6 (1 cement: 3 fine sand : 6 graded stone aggregate 20 mm nominal size)						
	0.20 x 0.20 x 0.10 m = 0.004 cum						
	Rate as per item no 4.2.5 of SH: Concrete work (A)	cum	0.004	₹	11,075.80	₹	44.30
	LABOUR for fixing M.S. foot rests						
0219	Mason (for ornamental stone work) 1st class	Day	0.02	₹	440.00	₹	8.80
0220	Mason (for plain stone work) 2nd class	Day	0.02	₹	395.00	₹	7.90
0203	Beldar	Day	0.05	₹	310.00	₹	15.50
	TOTAL (I)					₹	257.40
	Add 3% for sundries & contingencies on (I) ex/ (A)	@	3%			₹	6.39
	TOTAL (II)					₹	263.79
	Add 1 % for water charges on (II) ex/ (A)	@	1%			₹	2.19
	TOTAL (III)					₹	265.98
	Add GST (multiplying factor) on (III) ex/ (A)		0.1405			₹	31.1!
	TOTAL (IV)					₹	297.13
	Add for contractor's profit and overheads on (IV) ex/ (A)	@	15%			₹	37.92
	TOTAL (IV)					₹	335.0
	Add cess on (IV)	@	1%			₹	2.91
	Total cost for 1 (one) No.					₹	382.20
	Rate per each (Say)					₹	382.30
20.6	Providing M.S. foot rests including fixing in manho (1 cement: 3 fine sand : 6 graded stone aggregate 2						
20.6.2	With 20 mm diameter round bar		I o	ı	D-:	ı	A :
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one M.S foot rests		1	_			
	MATERIALS						

05039	M.S. round brar 20 mm dia 0.75 m @ 2.47kg / m = 0.018 q.	quintal	0.018	3	4,620.00	₹	83.16
	Labour for fabrication	quiittai	0.010	<u> </u>	4,020.00		03.10
0207	Black smith (2nd class)	Day	0.10	₹	395.00	₹	39.50
0203	Beldar	Day	0.10	₹	310.00	₹	31.00
	Cement concrete 1:3:6 (1 cement: 3 fine sand : 6 graded stone aggregate 20 mm nominal size)	Day	0.10	`	010.00	`	01.00
	0.20 x 0.20 x 0.10 m = 0.004 cum						
	Rate as per item no 4.2.5 of SH: Concrete work (A)	cum	0.004	₹	11,075.80	₹	44.30
	LABOUR for fixing M.S. foot rests						
0219	Mason (for ornamental stone work) 1st class	Day	0.02	₹	440.00	₹	8.80
0220	Mason (for plain stone work) 2nd class	Day	0.02	₹	395.00	₹	7.90
0203	Beldar	Day	0.05	₹	310.00	₹	15.50
	TOTAL (I)					₹	230.16
	Add 3% for sundries & contingencies on (I) ex/ (A)	@	3%			₹	5.58
	TOTAL (II)					₹	235.74
	Add 1 % for water charges on (II) ex/ (A)	@	1%			₹	1.91
	TOTAL (III)					₹	237.65
	Add GST (multiplying factor) on (III) ex/ (A)		0.1405			₹	27.17
	TOTAL (IV)					₹	264.82
	Add for contractor's profit and overheads on (IV) ex/ (A)	@	15%			₹	33.08
	TOTAL (IV)					₹	297.90
	Add cess on (IV)	@	1%			₹	2.54
	Total cost for 1 (one) No.					₹	344.74
	Rate per each (Say)					₹	344.70
20.7	Supplying and fixing C.I. cover without frame for n	nanholes :					
	11 3 0 0						
20.7.1	455 x 610 mm rectangular C.I. cover (light duty)the we	eight of the	cover to be	not	less than	23 k	q.
20.7.1 Code	455 x 610 mm rectangular C.I. cover (light duty)the wo	<mark>eight of the c</mark> Unit	Ouantity	<mark>not</mark>	less than Rate	<mark>23 k</mark>	g. Amount
	Description Details of cost for one cover		1	<mark>not</mark>		<mark>23 k</mark>	_
Code	Description Details of cost for one cover MATERIALS	Unit	Quantity		Rate		Amount
	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame		1	not ≀ ₹		23 k	_
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR	Unit each	Quantity 1.00	₹	950.00	₹	Amount 950.00
Code	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar	Unit	Quantity		Rate		Amount
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR	Unit each	Quantity 1.00	₹	950.00	₹	950.00 37.20 987.20
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I)	Unit each Day	1.00 0.12	₹	950.00	₹	950.00 37.20 987.20 29.62
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I)	Unit each Day	1.00 0.12	₹	950.00	₹₹₹	950.00 37.20 987.20 29.62
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III)	Unit each Day	1.00 0.12 3%	₹	950.00	₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II)	Unit each Day	1.00 0.12 3%	₹	950.00	₹₹₹₹₹₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV)	each Day @	1.00 0.12 3% 1%	₹	950.00	₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV)	Unit each Day	1.00 0.12 3% 1%	₹	950.00	₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V)	each Day @	1.00 0.12 3% 1% 0.1405	₹	950.00	₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV)	each Day @	1.00 0.12 3% 1% 0.1405	₹	950.00	₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V)	Unit each Day @ @ @ @ @ @	1.00 0.12 3% 1% 0.1405	₹	950.00	₹ ₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97
Code 20002	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V)	Unit each Day @ @ @ @ @ @	1.00 0.12 3% 1% 0.1405	₹	950.00	₹ ₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97
20002 0203	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say)	each Day @ @ @ @ @ @	1.00 0.12 3% 1% 0.1405	₹	950.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97 13.47
20002 0203	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (III) Add 1 % for water charges on (II) TOTAL (IIII) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Supplying and fixing C.I. cover without frame for m	Unit each Day @ @ @ @ ananholes:	1.00 0.12 3% 1% 0.1405 15%	₹	950.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97 1,360.44 1,360.44
20.7 20.7.2	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Supplying and fixing C.I. cover without frame for medium duty) the wei	each Day @ @ @ ananholes: ght of the co	1.00 0.12 3% 1% 0.1405 15% 1%	₹	950.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97 13.47 1,360.44 1,360.40
20002 0203	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Supplying and fixing C.I. cover without frame for most of the source of the second of the weil and the second of the weil and the second of the weil and the second of the weil and the second of the weil and the second of the weil and the second of the weil and the second of the weil and the second of the weil and the second of the weil and the second of th	Unit each Day @ @ @ @ ananholes:	1.00 0.12 3% 1% 0.1405 15%	₹	950.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97 13.47 1,360.44 1,360.40
20002 0203 2007 20.7	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (III) Add 1 % for water charges on (II) TOTAL (IIII) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Supplying and fixing C.I. cover without frame for m 500 mm diameter C.I. cover (medium duty) the wei Description Details of cost for one cover	each Day @ @ @ ananholes: ght of the co	1.00 0.12 3% 1% 0.1405 15% 1%	₹	950.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97 1,360.44 1,360.40
20002 0203 20.7 20.7.2 Code	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (III) Add 1 % for water charges on (II) TOTAL (IIII) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Supplying and fixing C.I. cover without frame for m 500 mm diameter C.I. cover (medium duty) the wei Description Details of cost for one cover MATERIALS	each Day @ @ @ ananholes: ght of the co	1.00 0.12 3% 1% 0.1405 15% 1%	₹	950.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97 1,360.44 1,360.40
20002 0203 2007 20.7	Description Details of cost for one cover MATERIALS C.I. Man-hole cover without frame LABOUR Beldar TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (III) Add 1 % for water charges on (II) TOTAL (IIII) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Supplying and fixing C.I. cover without frame for m 500 mm diameter C.I. cover (medium duty) the wei Description Details of cost for one cover	each Day @ @ @ ananholes: ght of the co	1.00 0.12 3% 1% 0.1405 15% 1%	₹	950.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	950.00 37.20 987.20 29.62 1,016.82 10.17 1,026.99 144.29 1,171.28 175.69 1,346.97 13.47

TOTAL (I)			_	T		т —	
Add 3% for sundries & contingencies on (i)	0203		Day	0.12	₹ 310.00	-	37.20
TOTAL (II)						!	-,
Add 1 % for water charges on (II)			@	3%		!	
TOTAL (III)				4.0/			
Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) Add for contractor's profit and overheads on (IV) Add cess on (V) Add cess on (V) Rate per each (Say) 20.7 Supplying and fixing C.I. cover without frame for manholes: 20.7.3 560 mm diameter C.I. cover (Heavy duty) the weight of the cover to be not less than 108 kg. Code Description Unit Quantity Rate Amount Details of cost for one cover MATERIALS 20.37 I.I. Man-hole cover without frame (heavy duty) 560 mm Internal diameter) LABOUR 20.39 Beldar Day Day 0.12 2 310.00 2 5,100.00 2 5,102.00 2 5,103.00 3 7,107.01 Add 3% for sundries & contingencies on (I) Add 3% for sundries & contingencies on (II) TOTAL (IV) Add GST (multiplying factor) on (III) On 10% Add GST (multiplying factor) on (III) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 Total cost for 1 (one) No. Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1.3 (1 cement: fine sand) C.I. cover with frame (ight duty) 455x61 mg and plastering 12 mm thick with cement mortar 1.3 (1 cement: fine sand) control cement on walls and bed concrete etc. complete as per standard design:		9	@	1%		1	36.43
TOTAL (IV)						 	
Add for contractor's profit and overheads on (IV) Add cess on (V) Add cess on (V) Total cost for 1 (one) No. Supplying and fixing C.I. cover without frame for manholes: 20.7.3 Supplying and fixing C.I. cover without frame for manholes: 20.7.3 S60 mm diameter C.I. cover (Heavy duty) the weight of the cover to be not less than 108 kg. Code Description Unit Quantity Rate Amount Details of cost for one cover MATERIALS LABOUR LABOUR LABOUR LABOUR Day 0.12 TOTAL (II) Add 3% for sundries & contingencies on (I) TOTAL (III) Add 1% for water charges on (III) TOTAL (III) Add 6ST (multiplying factor) on (III) TOTAL (IV) Add 6ST (multiplying factor) on (III) TOTAL (IV) Add cess on (V) Rate per each (Say) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1.4 (1 cement: 4 fine sand) C.I. cover with frame (light duty) 455x6 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover with frame (light duty) 455x6 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover with frame (light duty) 455x6 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover with frame (light duty) 455x6 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover with frame (light duty) 455x6 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover with frame (light duty) 455x6 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover with frame (light duty) 455x6 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover with frame (light duty) 455x6 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover with frame 15 kg) R.C.C. top slab with 1:24 mix (1 cement: 5 fine sand: 4 graded stor aggregate 20 mm nominal				0.1405			517.00
TOTAL (V)		` '		1		 	
Add cess on (V) Rate per each (Say) 20.7. Supplying and fixing C.I. cover (Heavy duty) the weight of the cover to be not less than 108 kg. Code Description Unit Quantity Rate Amount Details of cost for one cover MATERIALS 20037 LABOUR LABOUR DAY 1.00 1.			@	15%		 	629.51
Total cost for 1 (one) No. Rate per each (Say) Supplying and fixing C.I. cover without frame for manholes: 20.7. Supplying and fixing C.I. cover (Heavy duty) the weight of the cover to be not less than 108 kg. Code Description Unit Quantity Rate Amount Details of cost for one cover MATERIALS C.I. Man-hole cover without frame (heavy duty) 560 mm internal diameter LABOUR Day Day Day Day Day Day Day Da						l	4,826.26
Rate per each (Say) 20.73 Supplying and fixing C.I. cover without frame for manholes: Code Description Details of cost for one cover MATERIALS 20037 C.I. Man-hole cover without frame (heavy duty) 560 mm internal diameter diameter without frame (heavy duty) 560 mm each 1.00 \$ 5,100.00 \$ 5,		Add cess on (V)	@	1%		₹	48.26
20.7 Supplying and fixing C.I. cover without frame for manholes: 20.7.3 560 mm diameter C.I. cover (Heavy duty) the weight of the cover to be not less than 108 kg. Code Description Unit Quantity Rate Amount Details of cost for one cover MATERIALS 20037 C.I. Man-hole cover without frame (heavy duty) 560 mm internal diameter LABOUR 0203 Beldar Day 0.12 ₹ 310.00 ₹ 5,100.00 TOTAL (I) ₹ 5,137.2 Add 3% for sundries & contingencies on (I) © 3% ₹ 154.1 TOTAL (III) * ₹ 5,291.3 Add 1% for water charges on (III) © 1% ₹ 5,291.3 Add GST (multiplying factor) on (III) 0.1405 ₹ 7,009.3 Add for contractor's profit and overheads on (IV) © 15% ₹ 7,009.3 Add cess on (V) © 15% ₹ 7,009.3 Rate per each (Say) ₹ 7,079.44 20.8 Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C. c. top slab with 1:24 mix (1 cement : 5 fine sand : 10 graded stor aggregate 20 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. compleas per standard design :		` '				₹	4,874.52
20.7.3 560 mm diameter C.I. cover (Heavy duty) the weight of the cover to be not less than 108 kg. Code Description Unit Quantity Rate Amount Details of cost for one cover MATERIALS 20037 C.I. Man-hole cover without frame (heavy duty) 560 mm internal diameter LABOUR Day 0.12 ₹ 310.00 ₹ 5,100.00 TOTAL (I) ₹ 5,137.2 Add 3% for sundries & contingencies on (I) Ø 3% ₹ 154.1 TOTAL (II) Ø 1% ₹ 5,291.3 Add 1% for water charges on (II) Ø 1% ₹ 5,344.2 Add GST (multiplying factor) on (III) Ø 1.15% ₹ 75.0 Add GST (multiplying factor) on (III) Ø 1.5% ₹ 70.0 Add contractor's profit and overheads on (IV) Ø 15% ₹ 70.0 TOTAL (IV) Ø 1% ₹ 70.095. Rate per each (Say) ₹ 70.095. Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1.4 (1 cement: 4 fine sand) C.I. cover with frame (light duty) 455x67 mignregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1.3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complease per standard design:		Rate per each (Say)				₹	4,874.50
20.7.3 560 mm diameter C.I. cover (Heavy duty) the weight of the cover to be not less than 108 kg. Code Description Unit Quantity Rate Amount Details of cost for one cover MATERIALS 20037 C.I. Man-hole cover without frame (heavy duty) 560 mm internal diameter LABOUR Day 0.12 ₹ 310.00 ₹ 5,100.00 TOTAL (I) ₹ 5,137.2 Add 3% for sundries & contingencies on (I) Ø 3% ₹ 154.1 TOTAL (II) Ø 1% ₹ 5,291.3 Add 1% for water charges on (II) Ø 1% ₹ 5,344.2 Add GST (multiplying factor) on (III) Ø 1.15% ₹ 75.0 Add GST (multiplying factor) on (III) Ø 1.5% ₹ 70.0 Add contractor's profit and overheads on (IV) Ø 15% ₹ 70.0 TOTAL (IV) Ø 1% ₹ 70.095. Rate per each (Say) ₹ 70.095. Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1.4 (1 cement: 4 fine sand) C.I. cover with frame (light duty) 455x67 mignregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1.3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complease per standard design:							
Code Description Unit Quantity Rate Amount Details of cost for one cover	20.7	Supplying and fixing C.I. cover without frame for n	nanholes :				
Details of cost for one cover MATERIALS C.I. Man-hole cover without frame (heavy duty) 560 mm internal diameter LABOUR 0203 Beldar Day O12 ₹ 310.00 ₹ 5,100.00	20.7.3	560 mm diameter C.I. cover (Heavy duty) the weigh	nt of the cov	er to be no	t less than 10)8 kı	a.
Details of cost for one cover MATERIALS 20037 C1. Man-hole cover without frame (heavy duty) 560 mm internal diameter LABOUR 0203 Beldar Day 0.12 ₹ 310.00 ₹ 5,100.00 ₹ 5,100.00 ₹ 5,100.00 ₹ 37.2 TOTAL (I) Add 3% for sundries & contingencies on (I) Add 1% for water charges on (II) Add 1% for water charges on (III) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add GST (multiplying factor) on (IV) Add for contractor's profit and overheads on (IV) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement: 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement: 2 fine sand: 4 graded stor aggregate 20 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complea sper standard design:	Code		ı	T	1		_
MATERIALS 20037 C.I. Man-hole cover without frame (heavy duty) 560 mm internal diameter LABOUR 0203 Beldar Day 0.12 ₹ 310.00 ₹ 5,100.00 ₹ 7,000.00 ¶ 1%		Details of cost for one cover				1	
C.I. Man-hole cover without frame (heavy duty) 560 mm internal diameter LABOUR Day O.12 TOTAL (I) Add 3% for sundries & contingencies on (I) TOTAL (II) Add 1 % for water charges on (II) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 fine sand : 4 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 5 fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complease per standard design :						1	
Internal diameter each 1.00 ₹ 5,100.00 ₹ 5,100.00 LABOUR Day 0.12 ₹ 310.00 ₹ 37.20 TOTAL (I) ② 3% ₹ 5,137.20 Add 3% for sundries & contingencies on (I) ② 3% ₹ 5,137.20 Add 1% for water charges on (II) ② 1% ₹ 5,291.30 Add 1% for water charges on (III) ② 1% ₹ 5,291.30 Add GST (multiplying factor) on (III) ③ 0.1405 ₹ 750.30 TOTAL (IV) ③ 15% ₹ 914.30 Add for contractor's profit and overheads on (IV) ② 15% ₹ 7,009.30 Add cess on (V) ③ 1% ₹ 7,009.30 Add cess on (V) ③ 1% ₹ 7,009.30 Add cess on (V) ③ 1% ₹ 7,009.30 Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stor aggregate 20 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. compleas per standard design :	00007	C.I. Man-hole cover without frame (heavy duty) 560 mm					
Day Day Day Day Day Day Day Day	20037		each	1.00	₹ 5,100.00	₹	5,100.00
TOTAL (I) Add 3% for sundries & contingencies on (I) Add 1% for water charges on (II) Add 1% for water charges on (III) Add 1% for water charges on (III) Add GST (multiplying factor) on (III) Add GST (multiplying factor) on (III) Add for contractor's profit and overheads on (IV) Add for contractor's profit and overheads on (IV) Add cess on (V) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 fine sand : 4 graded stor aggregate 20 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. comple as per standard design :		LABOUR					
Add 3% for sundries & contingencies on (I) @ 3% \$\frac{1}{3}\$ 154.1 TOTAL (II)	0203	Beldar	Day	0.12	₹ 310.00	₹	37.20
TOTAL (II) Add 1 % for water charges on (II) Protection (III) Add 1 % for water charges on (III) TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complet as per standard design :		TOTAL (I)				₹	5,137.20
Add 1 % for water charges on (II) © 1% ₹ 52.9 TOTAL (III) Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) Add cost for 1 (one) No. Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 fine sand : 4 graded stor aggregate 20 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. compleas per standard design :		Add 3% for sundries & contingencies on (I)	@	3%		₹	154.12
TOTAL (III) Add GST (multiplying factor) on (III) Double Standard Standa		TOTAL (II)				₹	5,291.32
Add GST (multiplying factor) on (III) TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. compleas per standard design :		Add 1 % for water charges on (II)	@	1%		₹	52.91
TOTAL (IV) Add for contractor's profit and overheads on (IV) TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. compleas per standard design :		TOTAL (III)				₹	5,344.23
Add for contractor's profit and overheads on (IV) TOTAL (V) ₹ 7,009.3 Add cess on (V) ② 1% ₹ 7,009.3 Total cost for 1 (one) No. ₹ 7,079.4 Rate per each (Say) ₹ 7,079.4 Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. compleas per standard design :		Add GST (multiplying factor) on (III)		0.1405		₹	750.86
TOTAL (V) Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. compleas per standard design :		TOTAL (IV)				₹	6,095.09
Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. compleas per standard design :		Add for contractor's profit and overheads on (IV)	@	15%		₹	914.26
Total cost for 1 (one) No. ₹ 7,079.40 Rate per each (Say) ₹ 7,079.40 Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. comple as per standard design :		TOTAL (V)				₹	7,009.35
20.8 Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. comple as per standard design :		Add cess on (V)	@	1%		₹	70.09
Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1 class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. compleas per standard design :		Total cost for 1 (one) No.				₹	7,079.44
class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. comple as per standard design :		Rate per each (Say)				₹	7,079.40
class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x61 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 fine sand : 4 graded stor aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stor aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. comple as per standard design :							
	20.8	class bricks in cement mortar 1:4 (1 cement : 4 firmm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab w aggregate 20 mm nominal size) foundation concreaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of respectively.	ne sand) C.I. th frame to b ith 1:2:4 mix ete 1:5:10 (1 12 mm thicl	cover with be not less (1 cement cement: 5 k with cen	h frame (ligh than 38 kg t:2 fine sand fine sand : nent mortar	nt du (weig : 4 g 10 g 1:3 (ty) 455x610 ght of cover graded stone graded stone (1 cement: 3
20.8.1: Inside dimensions 455x610 mm and 45 cm deep for single pipe line :	20.8.1:	Inside dimensions 455x610 mm and 45 cm deep fo	<mark>r single pipe</mark>	line :			
Code Description Unit Quantity Rate Amount	Code	·	Unit	Quantity	Rate	_	Amount
Details of cost for one chamber						<u> </u>	
Cement concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 1.22 m x 1.065 m x 0.15 m = 0.195 cum Say 0.20 cum		stone aggregate 40 mm nominal size)					
			0	0.00	x 0.704.50		4.740.00
Rate as per item no 4.1.8 SH: conerete work (A) Cum 0.20 ₹ 8,704.50 ₹ 1,740.9 1st Class Brick work in cement mortar 1:4(1 cement: 4 fine				0.20	8,704.50	₹	1,740.90
sand)		l · · · · · · · · · · · · · · · · · · ·				L	
3.05 m x 0.23 m x 0.30 m = 0.210 cum		3.05 m x 0.23 m x 0.30 m = 0.210 cum					
Less pipe Less pipe		Less pipe					
$2 \times \pi/4 \times (0.10)^2 \times 0.23 \text{ m} = (-) 0.004 \text{ cum}$							

	Net qty = 0.206 cum, Say 0.21 cum					
	Rate as per item no 6.1.3 of SH : Brick Work (A)	Cum	0.21	₹ 8,888.40	₹	1,866.56
	12 mm cement plaster 1:3 (1 cement: 3 fine sand) finished	34.11	0.2.	7,000,10	,	.,,000.00
	with floating coat of neat cement					
	Wall: 2.13 x 0.30 m = 0.639 sqm					
	Bed : 0.61 x 0.455 m = 0.278 sqm					
	Total = 0.917 sqm					
	Less pipe $2 \times \pi/4 \times (0.10)^2 = (-) 0.016 \text{ sqm}$					
	Net qty = 0.901 sqm Say 0.90 sqm					
	Rate as per item 12.1.1 & 12.5 of SH: Finishing Work (A)	Sqm	0.90	₹ 235.10	₹	211.59
	RCC 1:1.5:3 (1 cement: 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size)					
	3.05 x 0.23 x 0.15 = 0.105 cum, say 0.11 cum					
	Rate as per item no. 5.3.2 of SH: RCC work (A)	cum	0.11	₹ 12,104.70	₹	1,331.52
	Form work					
	Outer periphery 3.73 x 0.15 m = 0.56 sqm					
	Rate as per item no 5.8.3 of SH: RCC work (A)	sqm	0.56	₹ 370.00	₹	207.20
20001	C.I. Cover with frame 455 x 610 mm	each	1.00	₹ 1,500.00	₹	1,500.00
	TOTAL (I) except (A)				₹	1,500.00
	Add 3% for sundries & contingencies on (I) ex/ (A)	@	3%		₹	45.00
	TOTAL (II)				₹	1,545.00
	Add 1 % for water charges on (II) ex/ (A)	@	1%		₹	15.45
	TOTAL (III)				₹	1,560.45
	Add GST (multiplying factor) on (III) ex/ (A)		0.1405		₹	219.24
	TOTAL (III)				₹	1,779.69
	Add for contractor's profit and overheads on (IV) ex/ (A)	@	15%		₹	266.95
	TOTAL (V)				₹	2,046.64
	Add cess on (V)	@	1%		₹	20.4
		@	1%		₹	7,424.88
	Add cess on (V)	@	1%			7,424.88
20.8	Add cess on (V) Total cost for 1 (one) No.	round C.I. ir ne sand) C.I. h frame to l ith 1:2:4 mix ete 1:5:10 (1 12 mm thic	nspection of cover with oe not less a (1 cement cement: 5 k with cen	h frame (ligh than 38 kg t:2 fine sand fine sand: ment mortar	t du (weig : 4 g 10 g 1:3 (7,424.86 7,424.90 ands with 1sty) 455x610 ght of coverly graded stone graded stone (1 cement: 3
20.8	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergr class bricks in cement mortar 1:4 (1 cement : 4 fir mm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab wit aggregate 20 mm nominal size) foundation concreaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of notestical contents.	round C.I. in ne sand) C.I. h frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement o	espection of cover with oe not less (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand: nent mortar nd bed concre	t du (weig : 4 g 10 g 1:3 (7,424.86 7,424.90 ands with 1sty) 455x610 ght of coverly graded stone graded stone (1 cement: 3
	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergr class bricks in cement mortar 1:4 (1 cement : 4 fir mm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab wi aggregate 20 mm nominal size) foundation concreaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of n as per standard design:	round C.I. in ne sand) C.I. h frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement o	espection of cover with oe not less (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand: nent mortar nd bed concre	t du (weig : 4 g 10 g 1:3 (7,424.86 7,424.90 ands with 1sty) 455x610 ght of coverly graded stone graded stone (1 cement: 3
20.8.2	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergr class bricks in cement mortar 1:4 (1 cement : 4 fir mm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab wit aggregate 20 mm nominal size) foundation concretaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of mas per standard design: Inside dimensions 500x700 mm and 45 cm deep fo	round C.I. ir ne sand) C.I. h frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement o	nspection of cover with oe not less c (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand: ment mortar nd bed concre	t du (weig : 4 g 10 g 1:3 (7,424.88 7,424.90 ands with 1sty) 455x610 ght of cover graded stone graded stone (1 cement: 3 tc. complete
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20.8.2	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergr class bricks in cement mortar 1:4 (1 cement : 4 fir mm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab wit aggregate 20 mm nominal size) foundation concretaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of mas per standard design: Inside dimensions 500x700 mm and 45 cm deep for Description Details of cost for one chamber Cement concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40 mm nominal size)	round C.I. ir ne sand) C.I. h frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement o	nspection of cover with oe not less c (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand: ment mortar nd bed concre	t du (weig : 4 g 10 g 1:3 (7,424.86 7,424.90 ands with 1s ty) 455x610 ght of cover graded stone graded stone (1 cement: 3 tc. complete
20.8.2	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergr class bricks in cement mortar 1:4 (1 cement : 4 fir mm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab wit aggregate 20 mm nominal size) foundation concretaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of mas per standard design: Inside dimensions 500x700 mm and 45 cm deep for Description Details of cost for one chamber Cement concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40 mm nominal size) 1.31 m x 1.11 m x 0.15 m = 0.22 cum	round C.I. in the sand) C.I. in the sand) C.I. in the frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement of the company of the comp	nspection of cover with be not less (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand : nent mortar nd bed concre two inlets : Rate	berrt du (wei, : 4 cg 10 g 1:3 (ete e	7,424.88 7,424.90 ands with 1s ty) 455x610 ght of cover graded stone (1 cement: 3 tc. complete Amount
20.8.2	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergrelass bricks in cement mortar 1:4 (1 cement: 4 firmm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab witaggregate 20 mm nominal size) foundation concreaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of mas per standard design: Inside dimensions 500x700 mm and 45 cm deep for Description Details of cost for one chamber Cement concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40 mm nominal size) 1.31 m x 1.11 m x 0.15 m = 0.22 cum Rate as per item no 4.1.8 SH: concrete work (A)	round C.I. ir ne sand) C.I. h frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement o	nspection of cover with oe not less c (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand: ment mortar nd bed concre	berrt du (wei, : 4 cg 10 g 1:3 (ete e	7,424.86 7,424.90 ands with 1s ty) 455x610 ght of cover graded stone (1 cement: 3 tc. complete Amount
20.8.2	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergr class bricks in cement mortar 1:4 (1 cement : 4 fir mm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab wit aggregate 20 mm nominal size) foundation concretaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of mas per standard design: Inside dimensions 500x700 mm and 45 cm deep for Description Details of cost for one chamber Cement concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40 mm nominal size) 1.31 m x 1.11 m x 0.15 m = 0.22 cum	round C.I. in the sand) C.I. in the sand) C.I. in the frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement of the company of the comp	nspection of cover with be not less (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand : nent mortar nd bed concre two inlets : Rate	berrt du (wei, : 4 cg 10 g 1:3 (ete e	7,424.88 7,424.90 ands with 1s ty) 455x610 ght of cover graded stone (1 cement: 3 tc. complete Amount
20.8.2	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergrelass bricks in cement mortar 1:4 (1 cement: 4 firmm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab witaggregate 20 mm nominal size) foundation concretaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of nas per standard design: Inside dimensions 500x700 mm and 45 cm deep for Description Details of cost for one chamber Cement concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40 mm nominal size) 1.31 m x 1.11 m x 0.15 m = 0.22 cum Rate as per item no 4.1.8 SH: conerete work (A) 1st Class Brick work in cement mortar 1:4(1 cement: 4 fine)	round C.I. in the sand) C.I. in the sand) C.I. in the frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement of the company of the comp	nspection of cover with be not less (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand : nent mortar nd bed concre two inlets : Rate	berrt du (wei, : 4 cg 10 g 1:3 (ete e	7,424.88 7,424.90 ands with 1s ty) 455x610 ght of cover graded stone (1 cement: 3 tc. complete Amount
20.8.2	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergrelass bricks in cement mortar 1:4 (1 cement: 4 firmm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab witaggregate 20 mm nominal size) foundation concreaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of nas per standard design: Inside dimensions 500x700 mm and 45 cm deep for Description Details of cost for one chamber Cement concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40 mm nominal size) 1.31 m x 1.11 m x 0.15 m = 0.22 cum Rate as per item no 4.1.8 SH: conerete work (A) 1st Class Brick work in cement mortar 1:4(1 cement: 4 fine sand)	round C.I. in the sand) C.I. in the sand) C.I. in the frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement of the company of the comp	nspection of cover with be not less (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand : nent mortar nd bed concre two inlets : Rate	berrt du (wei, : 4 cg 10 g 1:3 (ete e	7,424.88 7,424.90 ands with 1s ty) 455x610 ght of cover graded stone (1 cement: 3 tc. complete Amount
20.8.2	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergr class bricks in cement mortar 1:4 (1 cement : 4 fir mm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab wit aggregate 20 mm nominal size) foundation concretaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of notation as per standard design: Inside dimensions 500x700 mm and 45 cm deep for Description Details of cost for one chamber Cement concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 1.31 m x 1.11 m x 0.15 m = 0.22 cum Rate as per item no 4.1.8 SH: concrete work (A) 1st Class Brick work in cement mortar 1:4(1 cement: 4 fine sand) 3.22 m x 0.23 m x 0.30 m = 0.229 cum	round C.I. in the sand) C.I. in the sand) C.I. in the frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement of the company of the comp	nspection of cover with be not less (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand : nent mortar nd bed concre two inlets : Rate	berrt du (wei, : 4 cg 10 g 1:3 (ete e	7,424.88 7,424.90 ands with 1s ty) 455x610 ght of cover graded stone (1 cement: 3 tc. complete Amount
20.8.2	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergr class bricks in cement mortar 1:4 (1 cement : 4 fir mm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab wit aggregate 20 mm nominal size) foundation concretaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of mas per standard design: Inside dimensions 500x700 mm and 45 cm deep for Description Details of cost for one chamber Cement concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 1.31 m x 1.11 m x 0.15 m = 0.22 cum Rate as per item no 4.1.8 SH: conerete work (A) 1st Class Brick work in cement mortar 1:4(1 cement: 4 fine sand) 3.22 m x 0.23 m x 0.30 m = 0.229 cum Less pipe 3 x π/4 x (0.10)² x 0.23 m = (-) 0.005 cum Net qty = 0.224 cum, say 0.22 cum	round C.I. in the sand) C.I. in the sand) C.I. in the frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement of the company of the comp	nspection of cover with be not less (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand : nent mortar nd bed concre two inlets : Rate	berrt du (wei, : 4 cg 10 g 1:3 (ete e	7,424.88 7,424.90 ands with 1s ty) 455x610 ght of cover graded stone (1 cement: 3 tc. complete Amount
20.8.2	Add cess on (V) Total cost for 1 (one) No. Rate per each (Say) Constructing brick masonry chamber for undergr class bricks in cement mortar 1:4 (1 cement : 4 fir mm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab wit aggregate 20 mm nominal size) foundation concretaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of mas per standard design: Inside dimensions 500x700 mm and 45 cm deep for Description Details of cost for one chamber Cement concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 1.31 m x 1.11 m x 0.15 m = 0.22 cum Rate as per item no 4.1.8 SH: concrete work (A) 1st Class Brick work in cement mortar 1:4(1 cement: 4 fine sand) 3.22 m x 0.23 m x 0.30 m = 0.229 cum Less pipe 3 x π/4 x (0.10)² x 0.23 m = (-) 0.005 cum	round C.I. in the sand) C.I. in the sand) C.I. in the frame to I ith 1:2:4 mix ete 1:5:10 (1 12 mm thic eat cement of the company of the comp	nspection of cover with be not less (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand : nent mortar nd bed concre two inlets : Rate	berrt du (wei, : 4 cg 10 g 1:3 (ete e	7,424.88 7,424.90 ands with 1sty) 455x610 ght of cover graded stone graded stone (1 cement: 3 tc. complete

	Wall: 2.40 x 0.30 m = 0.72 sqm					
	Bed : 0.70 x 0.50 m = 0.35 sqm					
	Total = 1.07 sqm					
	Less pipe $3 \times \pi/4 \times (0.10)^2 = (-) 0.02 \text{ sqm}$					
	Net qty = 1.05 sqm					
	Rate as per item 12.1.1 & 12.5 of SH : Finishing Work (A)	Sqm	1.05	₹ 235.10	₹	246.86
	RCC 1:1.5:3 (1 cement: 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size)					
	1.16 x 0.96 x 0.15 = 0.167 cum					
	Deduct cover					
	0.61 x 0.45 x 0.15 m = (-) 0.042 cum					
	Net qty = 0.125 cum, Say 0.13 cum					
	Rate as per item no. 5.3.2 of SH: RCC work (A)	cum	0.13	₹ 12,104.70	₹	1,573.61
	Form work					
	Inside area of chamber : 0.70 x 0.50 m = 0.35 sqm					
	Outer periphery 4.00 x 0.15 m = 0.60 sqm					
	Deduct cover : 0.61 x 0.455 m = (-) 0.278 sqm					
	= 0.672 sqm, Say 0.67 sqm					
	Rate as per item no 5.8.3 of SH : RCC work (A)	sqm	0.67	₹ 370.00	₹	247.90
	M.S.reinforcement for slab					
	0.13 cum @ 48.06 kg/cum = 6.25 kg					
	Rate as per item no. 5.19.1 of SH : RCC work (A)	kg	6.25	₹ 77.90	₹	486.88
20001	C.I. Cover with frame 455 x 610 mm	each	1.00	₹ 1,500.00	₹	1,500.00
	TOTAL (I) except (A)				₹	1,500.00
	Add 3% for sundries & contingencies on (I) ex/ (A)	@	3%		₹	45.00
	TOTAL (II)				₹	1,545.00
	Add 1 % for water charges on (II) ex/ (A)	@	1%		₹	15.45
	TOTAL (III)				₹	1,560.45
	Add GST (multiplying factor) on (III) ex/ (A)		0.1405		₹	219.24
	TOTAL (III)				₹	1,779.69
	Add for contractor's profit and overheads on (IV) ex/ (A)	@	15%		₹	266.95
	TOTAL (V)				₹	2,046.64
	Add cess on (V)	@	1%		₹	20.47
	Total cost for 1 (one) No.				₹	8,492.80
	Rate per each (Say)				₹	8,492.80
20.8	Constructing brick masonry chamber for undergr class bricks in cement mortar 1:4 (1 cement : 4 fir mm internal dimensions, total weight of cover wit 23 kg and weight of frame 15 kg) R.C.C. top slab wit aggregate 20 mm nominal size) foundation concretaggregate 40 mm nominal size), inside plastering fine sand) finished smooth with a floating coat of nas per standard design:	ne sand) C.I. h frame to lith 1:2:4 min ete 1:5:10 (1 12 mm thic eat cement	cover with be not less (1 cement cement: 5 k with cer on walls ar	h frame (ligh than 38 kg t:2 fine sand fine sand : nent mortar nd bed concr	nt du (wei : 4 (10 (1:3 ete e	aty) 455x610 ght of cover graded stone graded stone (1 cement: 3
20.8.3	Inside dimensions 600x 850 mm and 45 cm deep fo		1		S:	_
Code	Description Details of cost for one chamber	Unit	Quantity	Rate	-	Amount
	Details of cost for one chamber					
	Cement concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size)					
	1.46 m x l.21 m x 0.15 m = 0.26 cum					
	Rate as per item no 4.1.8 SH: conerete work (A)	Cum	0.26	₹ 8,704.50	₹	2,263.17
	1st Class Brick work in cement mortar 1:4(1 cement: 4 fine	Cuili	0.20	0,704.30		Z,203.17
	sand)					
	3.82 m x 0.23m x0.30 m = 0.26 cum					
	Less pipe					

	$5 \times \pi/4 \times (0.10)^2 \times 0.23 \text{ m} = (-) 0.009 \text{ cum}$						
	Net qty = 0.251 cum, Say 0.26 cum			-			
	Rate as per item no 6.1.3 of SH : Brick Work (A)	Course	0.27	_	0.000.40	x	2 210 00
	12 mm cement plaster 1:3 (1 cement: 3 fine sand) finished	Cum	0.26	₹	8,888.40	₹	2,310.98
	with floating coat of neat cement						
	Wall: 2.90 x 0.30 m = 0.87 sqm						
	Bed: 0.85 x 0.60 m = 0.51 sqm						
	Total = 1.38 sqm						
	Less pipe $5 \times \pi/4 \times (0.10)^2 = (-) 0.04 \text{ sqm}$						
	Net qty = 1.34 sqm						
	Rate as per item 12.1.1 & 12.5 of SH: Finishing Work (A)						
		Sqm	1.34	₹	235.10	₹	315.03
	RCC 1:1.5:3 (1 cement: 1.5 fine sand: 3 graded stone aggregate 20 mm nominal size)						
	1.31 x 1.06 x 0.15 = 0.208 cum						
	Deduct cover			-			
	0.61 x 0.45 x 0.15 m = (-) 0.042 cum						
	Net qty = 0.166 cum, Say 0.17 cum						
	Rate as per item no. 5.3.2 of SH: RCC work (A)		0.17	-	10 10 4 70	x	2.057.00
		cum	0.17	₹	12,104.70	₹	2,057.80
	Form work Inside area of chamber: 0.85 x 0.60 m = 0.511 sqm		+			\vdash	
	Outer periphery 4.50 x 0.15 m = 0.675 sqm						
	Deduct cover : 0.61 x 0.455 m = (-) 0.278 sqm						
	= 0.908 sqm Say 0.91 Sqm						
	Rate as per item no 5.8.3 of SH : RCC work (A)	sqm	0.91	₹	370.00	3	336.70
	M.S.reinforcement for slab	эчн	0.71		370.00	\	330.70
	0.17 cum @ 48.06 kg/cum = 8.17 kg						
	Rate as per item no. 5.19.1 of SH : RCC work (A)	kg	8.17	₹	77.90	₹	636.44
20001	C.I. Cover with frame 455 x 610 mm				1,500.00	₹	
20001		each	1.00	ζ.	1,500.00	₹	1,500.00
	TOTAL (I) except (A)	@	3%				1,500.00
	Add 3% for sundries & contingencies on (I) ex/ (A)		370			₹	45.00
	TOTAL (II)	@	1%			₹	1,545.00
	Add 1 % for water charges on (II) ex/ (A)		1 70				15.45
	TOTAL (III) Add GST (multiplying factor) on (III) ex/ (A)		0.1405			₹	1,560.45 219.24
	TOTAL (III)		0.1403	-		₹	1,779.69
						_	
	Add for contractor's profit and overheads on (IV) ex/ (A)	@	15%			₹	266.95
	TOTAL (V)					₹	2,046.64
	Add cess on (V)	@	1%			₹	20.47
	Total cost for 1 (one) No.					₹	9,987.23
	Rate per each (Say)					₹	9,987.20
	land per sam (e-g)					Ì	7/707.20
20.9	Extra for depth beyond 450 mm of brick masonry with same specification as mentioned in item no 20						ion chamber
20.9.1	For 455x610 mm size						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one metre						
	1st Class Brick work in cement mortar 1:4(1 cement: 4 fine						_
	sand)		1			<u> </u>	
	3.05 m x 0.23 m x 1.00 m = 0.70 cum						
	Rate as per item no 6.1.3 of SH : Brick Work (A)	cum	0.70	₹	8,888.40	₹	6,221.88
	12mm cement plaster1:3 (1 cement: 3 fine sand finished with floating coat of neat cement		1				
-			+			+	
	Wall: 2.13 m x1.00 m = 2.13 sqm						
	Wall: 2.13 m x1.00 m = 2.13 sqm Rate as per item 12.1.1 & 12.5 of SH: Finishing Work (A)						
	·	sqm	2.13	₹	235.10	₹	500.76

	Rate per metre (Say)					₹	6,722.60
20.9	Extra for depth beyond 450 mm of brick masonry	chamber fo	o <mark>r underar</mark> a	oun	d C.I. insi	oecti	on chambe
	with same specification as mentioned in item no 20						
20.9.2	For 500x700 mm size						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one metre						
	1st Class Brick work in cement mortar 1:4(1 cement: 4 fine sand)						
	3.32 m x 0.23 m x 1.00m = 0.76 cum						
	Rate as per item no 6.1.3 of SH : Brick Work (A)	cum	0.76	₹	8,888.40	₹	6,755.18
	12mm cement plaster1:3 (1 cement: 3 fine sand) finished with floating coat of neat cement						·
	Wall: 2.40 m x 1.00 m = 2.40 sqm						
	Rate as per item 12.1.1 & 12.5 of SH: Finishing Work (A)	sqm	2.40	₹	235.10	₹	564.24
	Total cost for 1 (one) metre	<u> </u>		Ť	2000	₹	7,319.42
	Rate per metre (Say)					₹	7,319.40
							· ·
20.9	Extra for depth beyond 450 mm of brick masonry	chamber fo	or undergro	oun	d C.I. ins	oecti	<mark>on chamb</mark> e
	with same specification as mentioned in item no 20	.30 complet	e as per sta	and	ard desig	n :	
20.9.3	For 600x850 mm size						
Code	Description	Unit	Quantity		Rate		Amount
	Details of cost for one metre						
	1st Class Brick work in cement mortar 1:4(1 cement: 4 fine sand)						
	3.82 m x 0.23 m x 1.00 m = 0.88 cum						
	Rate as per item no 6.1.3 of SH : Brick Work (A)	cum	0.88	Ŧ	8,888.40	₹	7,821.79
	12 mm cement plaster 1:3(1 cement: 3 fine sand finished with floating coat of neat cement	Cum	0.88	`	0,000.40	`	7,021.7
	Wall : 2.90 m x 1.00 m = 2.90 sqm						
	Rate as per item 12.1.1 & 12.5 of SH: Finishing Work (A)	sqm	2.90	₹	235.10	₹	681.79
	Total cost for 1 (one) metre					₹	8,503.58
	Rate per metre (Say)					₹	8,503.60
			1				
20.10	Making soak pit 2.5 m diameter 3.0 metre deep wit						
20.10	Making soak pit 2.5 m diameter 3.0 metre deep wit burnt 2nd class bricks and S.W. drain pipe 100 m design.						
20.10 Code	burnt 2nd class bricks and S.W. drain pipe 100 m						
	burnt 2nd class bricks and S.W. drain pipe 100 mdesign. Description Details of cost for one soak pit	ım diametei	² , 1.8 m lo		complete		er standar
	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus	ım diametei	² , 1.8 m lo		complete		er standar
	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth	ım diametei	² , 1.8 m lo		complete		er standar
	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$	Unit	Quantity	ng (Rate	as p	er standar Amount
	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH : Earth work (A)	ım diametei	² , 1.8 m lo		complete		Amount
	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH: Earth work (A) $\pi/4 \times (2.5)^2 \times 1.5 \text{m} = 7.37 \text{cum}$	Unit cum	Quantity 14.73	ng (Rate 152.40	as p	Amount 2,244.85
	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH : Earth work (A)	Unit	Quantity	ng ∮	Rate	as p	er standar
	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH: Earth work (A) $\pi/4 \times (2.5)^2 \times 1.5 \text{m} = 7.37 \text{cum}$ Rate as per item no. 2.18 of SH: Earth work (A) 2nd class bricks perimetre = $4 \times 0.35 = 1.40 \text{m}$	Unit cum	Quantity 14.73	ng ∮	Rate 152.40	as p	Amount 2,244.85
	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH: Earth work (A) $\pi/4 \times (2.5)^2 \times 1.5 \text{m} = 7.37 \text{cum}$ Rate as per item no. 2.18 of SH: Earth work (A) 2nd class bricks perimetre = $4 \times 0.35 = 1.40 \text{m}$ Area = $1.40 \times 2.925 \text{m} = 4.10 \text{sqm}$	Unit cum	Quantity 14.73	ng ∮	Rate 152.40	as p	Amount 2,244.8
	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH : Earth work (A) $\pi/4 \times (2.5)^2 \times 1.5 \text{m} = 7.37 \text{cum}$ Rate as per item no. 2.18 of SH : Earth work (A) 2nd class bricks perimetre = $4 \times 0.35 = 1.40 \text{m}$ Area = $1.40 \times 2.925 \text{m} = 4.10 \text{sqm}$ Number of brick = $4.1 \times 487 \times 0.066 = 131.78 \text{Nos}$	Unit cum	Quantity 14.73	ng ∮	Rate 152.40	as p	Amount 2,244.8
	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH: Earth work (A) $\pi/4 \times (2.5)^2 \times 1.5 \text{m} = 7.37 \text{cum}$ Rate as per item no. 2.18 of SH: Earth work (A) 2nd class bricks perimetre = $4 \times 0.35 = 1.40 \text{m}$ Area = $1.40 \times 2.925 \text{m} = 4.10 \text{sqm}$ Number of brick = $4.1 \times 487 \times 0.066 = 131.78 \text{Nos}$ Wastage $10\% = 13.178 \text{Nos}$	Unit cum cum	14.73 7.37	ng ∮	152.40 49.80	as p	2,244.85 367.03
Code	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH: Earth work (A) $\pi/4 \times (2.5)^2 \times 1.5 \text{m} = 7.37 \text{cum}$ Rate as per item no. 2.18 of SH: Earth work (A) 2nd class bricks perimetre = $4 \times 0.35 = 1.40 \text{m}$ Area = $1.40 \times 2.925 \text{m} = 4.10 \text{sqm}$ Number of brick = $4.1 \times 487 \times 0.066 = 131.78 \text{Nos}$ Wastage $10\% = 13.178 \text{Nos}$ Total = $144.958 \text{Say} 145 \text{Nos}$	Unit cum	Quantity 14.73	ng ∮	Rate 152.40	as p	2,244.85 367.03
Code	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH: Earth work (A) $\pi/4 \times (2.5)^2 \times 1.5 \text{m} = 7.37 \text{cum}$ Rate as per item no. 2.18 of SH: Earth work (A) 2nd class bricks perimetre = $4 \times 0.35 = 1.40 \text{m}$ Area = $1.40 \times 2.925 \text{m} = 4.10 \text{sqm}$ Number of brick = $4.1 \times 487 \times 0.066 = 131.78 \text{Nos}$ Wastage $10\% = 13.178 \text{Nos}$ Total = $144.958 \text{Say} 145 \text{Nos}$ Brick bats = $\pi/4 \times (1.2)^2 \times 2.925 \text{m} = 3.33 \text{cum}$	Unit cum cum	14.73 7.37	ng ∮	152.40 49.80	as p	2,244.85 367.03
Code 06002	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH: Earth work (A) $\pi/4 \times (2.5)^2 \times 1.5 \text{m} = 7.37 \text{cum}$ Rate as per item no. 2.18 of SH: Earth work (A) 2nd class bricks perimetre = $4 \times 0.35 = 1.40 \text{m}$ Area = $1.40 \times 2.925 \text{m} = 4.10 \text{sqm}$ Number of brick = $4.1 \times 487 \times 0.066 = 131.78 \text{Nos}$ Wastage $10\% = 13.178 \text{Nos}$ Total = $144.958 \text{Say } 145 \text{Nos}$ Brick bats = $\pi/4 \times (1.2)^2 \times 2.925 \text{m} = 3.33 \text{cum}$ Deduct = $0.45 \times 0.45 \times 2.925 \text{m} = 0.59 \text{cum}$	Unit Cum Cum 1000 Nos	14.73 7.37 145.00	₹ ₹	152.40 49.80	as p	2,244.85 367.03
Code	burnt 2nd class bricks and S.W. drain pipe 100 m design. Description Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $\pi/4 \times (2.5)^2 \times 3 \text{m} = 14.73 \text{cum}$ Rate as per item no. 2.13 of SH: Earth work (A) $\pi/4 \times (2.5)^2 \times 1.5 \text{m} = 7.37 \text{cum}$ Rate as per item no. 2.18 of SH: Earth work (A) 2nd class bricks perimetre = $4 \times 0.35 = 1.40 \text{m}$ Area = $1.40 \times 2.925 \text{m} = 4.10 \text{sqm}$ Number of brick = $4.1 \times 487 \times 0.066 = 131.78 \text{Nos}$ Wastage $10\% = 13.178 \text{Nos}$ Total = $144.958 \text{Say} 145 \text{Nos}$ Brick bats = $\pi/4 \times (1.2)^2 \times 2.925 \text{m} = 3.33 \text{cum}$	Unit cum cum	14.73 7.37	ng ∮	152.40 49.80	as p	Amount 2,244.85

	Brick aggregate 40 mm nominal size						
20041	$= \pi \times 2.15 \times 0.35 \times 2.925 \text{ m} = 6.91 \text{ cum}$	cum	6.91	₹	2,750.00	₹	19,002.50
20030	100 mm diametre S.W. pipes (60 cm long)	each	3.00	₹	55.00	₹	165.00
	Carriage of brick bats and aggregate	CGGIT	0.00	Ì	00.00	Ì	100.00
0404	(2.74 + 4.13 + 6.91) cum = 6.25 sqm	cum	13.78	₹	159.56	₹	2,198.74
0406	Carriage of bricks	1000 Nos	0.145	₹	307.42	₹	44.58
	Precast R.C.C.slabs 7.5 cm thick in cement concrete 1:1.5:3						
	(1 cement: 1.5 fine sand : 3 graded stone aggregate 20 mm						
	nominal size) 0.45 x 0.45 x 0.075 m = 0.02 cum						
	Rate as per item no 5.14 of SH : RCC work (A)		0.00	~	45.4/4.50	7	202.00
		cum	0.02	₹	15,164.50	₹	303.29
	Reinforcement @ 80 kg/cum = 0.02 x 80 = 1.60 Kg Rate as per item no. 5.19.1 of SH : RCC work (A)	kg	1.60	₹	77.90	₹	124.64
		<u> </u>	1.00	(77.90	(124.04
	2nd class brick edging laid length wise with half brick depth.						
06002	3.14 x 2.6 m = 8.17 m @ 4 Nos/Mtr = 32.68 Nos, Say 33 Nos	1000 Nos	33.00	₹	10,480.00	₹	345.84
0406	Carriage of bricks	1000 Nos	33.00	₹	307.42	₹	10.14
	LABOUR		,,,,,,	Ì		Ė	
0219	Mason (brick layer) 1st class	Day	0.50	₹	440.00	₹	220.00
0220	Mason (brick layer) 2nd class	Day	0.50	₹	395.00	₹	197.50
0203	Belder	Day	3.00	₹	310.00	₹	930.00
0212	Coolie/Helper	Day	3.00	₹	310.00	₹	930.00
	TOTAL (I)					₹	46,124.21
	Add 3% for sundries & contingencies on (I) ex/ (A)	@	3%			₹	1,292.53
	TOTAL (II)					₹	47,416.74
	Add 1 % for water charges on (II) ex/ (A)	@	1%			₹	443.77
	TOTAL (III)					₹	47,860.51
	Add GST (multiplying factor) on (III) ex/ (A)		0.1405			₹	6,297.31
	TOTAL (IV)					₹	54,157.82
	Add for contractor's profit and overheads on (IV) ex/ (A)	@	15%			₹	5,806.98
	TOTAL (V)					₹	59,964.80
	Add cess on (V) except (A)	@	1%			₹	445.20
	Total cost for 01 (one) soak pit					₹	60,410.00
	Rate per each (Say)					₹	60,410.00
	the production of the producti						,
20.11	Constructing soak pit 1.20x1.20x1.20m filled will diameter and 1.20 m long complete as per standard		s includin	g :	S.W. drair	pi	pe 100 mm
Code	Description	Unit	Quantity	Π	Rate		Amount
	Details of cost for one soak pit						
	Earth work in excavation including disposal of surplus earth	<u>I</u>					
	1.2 x 1.2 x 1.2 m = 1.73 cum	İ					
	Rate as per item no. 2.13 of SH: Earth work (A)	cum	1.73	₹	152.40	₹	263.65
	Brick bats						
20039	1.2 x 12 x 1.2 m = 1.73 cum	cum	1.73	₹	2,400.00	₹	4,152.00
0404	Carriage of brickbats	cum	1.73	₹	159.56	₹	276.04
	2nd class brick edging laid length wise with half brick depth						
06002	= 5.20 m @ 4 Nos/Mtr = 20.80 Nos , Say 21 Nos	1000 Nos	21.00	₹	10,480.00	₹	220.08
0406	Carriage of bricks	1000 Nos	21.00	₹	307.42	₹	6.46
20030	S.W. pipe 100 mm diameter (60 cm long)	each	2.00	₹	55.00	₹	110.00
		ì	Ī				
	LABOUR						
	LABOUR For filling brick bats						
0203		Day	0.50	₹	310.00	₹	155.00

Add 3% for sundries & contingencies on (I) ex/ (A)	@	3%	₹	147.59
TOTAL (II)			₹	5,067.17
Add 1 % for water charges on (II) ex/ (A)	@	1%	₹	50.67
TOTAL (III)			₹	5,117.84
Add GST (multiplying factor) on (III) ex/ (A)		0.1405	₹	719.06
TOTAL (IV)			₹	5,836.90
Add for contractor's profit and overheads on (IV) ex/ (A)	@	15%	₹	875.54
TOTAL (V)			₹	6,712.44
Add cess on (V) except (A)	@	1%	₹	67.12
Total cost for 01 (one) soak pit			₹	7,043.21
Rate per each (Say)			₹	7,043.20

SUB HEAD : 21.0

21.1	Providing and fixing roof frame with muli ba centre to centre, including a layer of bambo mm G.I. wire complete as per specification.						
Code	Description	Unit	Quantity		Rate	1	Amount
	Details of cost for 9.20 sqm						
	LABOUR:						
0224	Mate	Day	0.08	₹	310.00	₹	24.80
0231	Thatcher	Day	1.00	₹	355.00	₹	355.00
0212	Coolie/Helper	Day	1.00	₹	310.00	₹	310.00
21001	MATERIAL Muli bamboo 25 mm to 40mm dia	m	136.00	₹	5.00	₹	680.00
21001	G.I wire 1.0 mm	M Kg	0.34	₹	60.00	₹	20.40
21002	Bamboo dhari mat	Sqm	9.75	₹	55.00	₹	536.25
21003	TOTAL	Sqiii	7.75	_	55.00	₹	1,926.45
	Add for Sundries and contingencies	@	3%			₹	57.79
	Add for Sundries and contingencies		370			₹	1,984.24
	Add GST (multiplying factor)		0.1405			₹	278.79
	rida 651 (marriprying factor)		0.1403			₹	2,263.03
	Add for contractor's profit and overheads	@	15%			₹	339.46
						₹	2,602.49
	Add cess	@	1%			₹	26.02
	Cost for 9.20 sqm.					₹	2,628.51
	Cost for 1 sqm.					₹	285.71
	Rate per sqm (Say)					₹	285.70
21.2	Providing and fixing roof frame with muli ba centre to centre, including a layer of bambo mm G.I. wire complete as per specification.						
Code	Description	Unit	Quantity		Rate	ŀ	Amount
	Details of cost for 9.20 sqm						
	LABOUR:						
0224	Mate	Day	0.08	₹	310.00	₹	24.80
0231	Thatcher	Day	1.00	₹	355.00	₹	355.00
0212	Coolie/Helper	Day	1.00	₹	310.00	₹	310.00
	MATERIAL						
21001	Muli bamboo 25 mm to 40mm dia	m	93.00	₹	5.00	₹	465.00
21002	G.I wire 1.0 mm	Kg	0.34	₹	60.00	₹	20.40
21003	Bamboo dhari mat	Sqm	9.75	₹	55.00	₹	536.25
	TOTAL					₹	1,711.45
	Add for Sundries and contingencies	@	3%			₹	51.34
						₹	1,762.79
	Add GST (multiplying factor)	1	0.1405			₹	247.67
	, , ,					₹	2,010.46
	Add for contractor's profit and overheads	@	15%			₹	301.57
						₹	2,312.03
	Add cess	@	1%			₹	23.12
	Cost for 9.20 sqm.					₹	2,335.15
	Cost for 1 sqm.					₹	253.82
	Rate per sqm (Say)					₹	253.80

21.3	Providing and fixing ceiling frame with mul mm centre to centre, tied with 1.0 mm G.I. v					olac	ed at 600
Code	Description	Unit	Quantity		Rate	-	Amount
	Details of cost for 9.20 sqm						
	LABOUR:						
0224	Mate	Day	0.10	₹	310.00	₹	31.00
0231	Thatcher	Day	1.00	₹	355.00	₹	355.00
0212			1.50	₹	310.00	₹	465.00
0212	Coolie/Helper	Day	1.50	`	310.00	_	403.00
	MATERIAL						
21001	Muli bamboo 25 mm to 40mm dia	m	40.00	₹	5.00	₹	200.00
21002	G.I wire 1.0 mm	Kg	0.34	₹	60.00	₹	20.40
	TOTAL					₹	1,071.40
	Add for Sundries and contingencies	@	3%			₹	32.14
						₹	1,103.54
	Add GST (multiplying factor)		0.1405			₹	155.05
						₹	1,258.59
	Add for contractor's profit and overheads	@	15%			₹	188.79
						₹	1,447.38
	Add cess	@	1%			₹	14.47
	Cost for 9.20 sqm.					₹	1,461.85
	Cost for 1 sqm.					₹	158.90
21.4	Rate per sqm (Say) Providing and fixing muli bamboo shingle	roofing w	ith 100 mm	s cn	ocing of	₹	158.90
	bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification.	with roof f					
Code	Description	Unit	Quantity		Rate	-	Amount
	Details of cost for 9.20 sqm						
0224	LABOUR: Mate	Day	0.36	₹	310.00	₹	111.60
0231	Thatcher	Day	3.00	₹	355.00		1,065.00
0212	Coolie/Helper	Day	6.00	₹	310.00		1,860.00
	MATERIAL			<u> </u>			
21001 21002	Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm	M Kg	200.00 0.45	₹	5.00	₹	1,000.00 27.00
21002	TOTAL	Ng	0.45	`	00.00	₹	4,063.60
	Add for Sundries and contingencies	@	3%			₹	121.91
	Ŭ					₹	4,185.51
	Add GST (multiplying factor)		0.1405			₹	588.06
						₹	4,773.57
	Add for contractor's profit and overheads	@	15%			₹	716.04
						₹	5,489.61
	Add cess	@	1%			₹	54.90
	Cost for 9.20 sqm.					₹	5,544.51
	Cost for 1 sqm.					₹	602.66
24 5	Rate per sqm (Say)	roofin	ith 100		ooina -f	₹	602.70
21.5	Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v	_			-		-
24.5.4	separately) as per specification.						
21.5.1	225 mm thick thatching	11. 11	0		D-t-		\
Code	Description 0.00	Unit	Quantity	_	Rate		Amount
	Details of cost for 9.20 sqm LABOUR:						
		•	1				

0224 0231	Mate	Day	0.16	₹	310.00	₹	49.60
ロフイエ	Thatcher	Day	2.00	₹	355.00	₹	710.00
0212	Coolie/Helper	Day	2.00	₹	310.00	₹	620.00
OLIZ	MATERIAL	Day	2.00	Ì	010.00	`	020.00
21004	Thatch (sungrass) 300 mm dia bundle	Bundle	37.50	₹	60.00	₹	2,250.00
21001	Muli bamboo 25 mm to 40mm dia	m	15.00	₹	5.00	₹	75.00
21002	G.I wire 1.0 mm	Kg	0.23	₹	60.00	₹	13.80
2.002	TOTAL	g	0.20	,	00.00	₹	3,718.40
	Add for Sundries and contingencies	@	3%			₹	111.55
	riad for Sandries and Contingencies		370			₹	3,829.95
	Add GST (multiplying factor)		0.1405			₹	538.11
	riad cor (marriprying factor)		0.1.100				4,368.06
	Add for contractor's profit and overheads	@	15%			₹	655.21
	Add for contractor's profit and overfleads		1370				
	Add see		10/			₹	5,023.27
	Add cess	@	1%			₹	50.23
	Cost for 9.20 sqm.					₹	5,073.50
	Cost for 1 sqm.					₹	551.47
	Rate per sqm (Say)					₹	551.50
21.5.2	Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification. 150 mm thick thatching						
Code	Description	Unit	Quantity		Rate	1	Amount
oouc	Details of cost for 9.20 sqm	Onit	Quartity		ituto		unount
	LABOUR:						
0224	Mate	Day	0.13	₹	310.00	₹	40.30
0231	Thatcher	Day	1.25	₹	355.00	₹	443.75
0212	Coolie/Helper	Day	2.00	₹	310.00	₹	620.00
	MATERIAL						
21004	Thatch (sungrass) 300 mm dia bundle	Bundle	25.00	₹	60.00	₹	1,500.00
21001	Muli bamboo 25 mm to 40mm dia	m	15.00	₹	5.00	₹	75.00
21002	G.I wire 1.0 mm	Kg	0.23	₹	60.00	₹	13.80
	TOTAL					₹	2,692.85
	Add for Sundries and contingencies	@	3%			₹	80.79
	-					₹	2,773.64
	Add GST (multiplying factor)		0.1405			₹	389.70
						₹	3,163.34
	Add for contractor's profit and overheads	@	15%			₹	474.50
	Т						
	Add cocc	@	1%			₹	3,637.84
	Add cess	@	1%			₹	36.38
	Cost for 9.20 sqm.					₹	3,674.22
						_	
	Cost for 1 sqm.					₹	399.37
	Rate per sqm (Say)					₹	399.40
21.5	Rate per sqm (Say) Providing and fixing muli bamboo shingle					₹ shir	399.40 ngles and
21.5	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v					₹ shir	399.40 ngles and
	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification.					₹ shir	399.40 ngles and
21.5	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v					₹ shir	399.40 ngles and
	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification.					₹ shir ne t	399.40 ngles and
21.5.3	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification. 100 mm thick thatching	with roof fr	ame comple		roof fran	₹ shir ne t	399.40 ngles and o be paid
21.5.3 Code	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification. 100 mm thick thatching Description Details of cost for 9.20 sqm LABOUR:	Unit	Quantity	ete (roof fran Rate	₹ shir ne t	399.40 ngles and o be paid Amount
21.5.3 Code	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification. 100 mm thick thatching Description Details of cost for 9.20 sqm LABOUR: Mate	Unit Day	Quantity 0.08	ete (Rate	₹ shirne t	399.40 ngles and to be paid Amount 24.80
21.5.3 Code 0224 0231	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification. 100 mm thick thatching Description Details of cost for 9.20 sqm LABOUR: Mate Thatcher	Unit Day Day	Quantity 0.08 0.50	ete (Rate 310.00 355.00	₹ shir ne t	399.40 ngles and o be paid Amount 24.80 177.50
21.5.3 Code	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification. 100 mm thick thatching Description Details of cost for 9.20 sqm LABOUR: Mate Thatcher Coolie/Helper	Unit Day	Quantity 0.08	ete (Rate	₹ shirne t	399.40 ngles and to be paid Amount 24.80
21.5.3 Code 0224 0231 0212	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification. 100 mm thick thatching Description Details of cost for 9.20 sqm LABOUR: Mate Thatcher Coolie/Helper MATERIAL	Unit Day Day Day Day	Quantity 0.08 0.50 1.50	ete (Rate 310.00 355.00 310.00	₹ shirne t	399.40 ngles and o be paid Amount 24.80 177.50 465.00
21.5.3 Code 0224 0231 0212 21004	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification. 100 mm thick thatching Description Details of cost for 9.20 sqm LABOUR: Mate Thatcher Coolie/Helper MATERIAL Thatch (sungrass) 300 mm dia bundle	Unit Day Day Day Bundle	O.08 0.50 1.50	ete (Rate 310.00 355.00 310.00 60.00	₹ shirne t	399.40 ngles and o be paid Amount 24.80 177.50 465.00
21.5.3 Code 0224 0231 0212 21004 21001	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification. 100 mm thick thatching Description Details of cost for 9.20 sqm LABOUR: Mate Thatcher Coolie/Helper MATERIAL Thatch (sungrass) 300 mm dia bundle Muli bamboo 25 mm to 40mm dia	Unit Day Day Day Bundle m	O.08 0.50 1.50 16.00 15.00	ete (Rate 310.00 355.00 310.00 60.00 5.00	₹ shirne t	399.40 ngles and o be paid Amount 24.80 177.50 465.00 960.00 75.00
21.5.3 Code 0224 0231 0212 21004	Rate per sqm (Say) Providing and fixing muli bamboo shingle bamboo battens tied with G.I. wire 1.0 mm v separately) as per specification. 100 mm thick thatching Description Details of cost for 9.20 sqm LABOUR: Mate Thatcher Coolie/Helper MATERIAL Thatch (sungrass) 300 mm dia bundle	Unit Day Day Day Bundle	O.08 0.50 1.50	ete (Rate 310.00 355.00 310.00 60.00	₹ shirne t	399.40 ngles and o be paid Amount 24.80 177.50 465.00

	Add for Sundries and contingencies	@	3%			₹	51.48
	Add for Surfaciles and contingencies	w	3 /0				1,767.58
	Add CST (multiplying factor)		0.1405			₹	248.35
	Add GST (multiplying factor)		0.1403				2,015.93
						_	2,013.93
	Add for contractor's profit and overheads	@	15%			₹	302.39
						₹	2,318.32
	Add cess	@	1%			₹	23.18
	Cost for 9.20 sqm.					₹	2,341.50
	Cost for 1 sqm.					₹	254.51
	Rate per sqm (Say)					₹	254.50
21.5	Providing and fixing muli bamboo shingle r	oofing w	ith 100 mm	sp	acing of	shir	igles and
	bamboo battens tied with G.I. wire 1.0 mm w	th roof fr	rame comple	ete (roof fran	ne t	o be paid
	separately) as per specification.						
21.5.4	75 mm thick thatching						
Code	Description	Unit	Quantity		Rate	1	Amount
	Details of cost for 9.20 sqm						
	LABOUR:						
0224	Mate	Day	0.08	₹	310.00	₹	24.80
0231	Thatcher	Day	0.50	₹	355.00	₹	177.50
0212	Coolie/Helper	Day	1.50	₹	310.00	₹	465.00
	MATERIAL					_	
21004	Thatch (sungrass) 300 mm dia bundle	Bundle	12.75	₹	60.00	₹	765.00
21001	Muli bamboo 25 mm to 40mm dia	m	15.00	₹	5.00	₹	75.00
21002	G.I wire 1.0 mm	Kg	0.23	₹	60.00	₹	13.80
	TOTAL					₹	1,521.10
	Add for Sundries and contingencies	@	3%			₹	45.63
						₹	1,566.73
	Add GST (multiplying factor)		0.1405			₹	220.13
						₹	1,786.86
	Add for contractor's profit and overheads	@	15%			₹	268.03
						₹	2,054.89
	Add cess	@	1%			₹	20.55
	Cost for 9.20 sqm.					₹	2,075.44
	Cost for 1 sqm.					₹	225.59
	Rate per sqm (Say)					₹	225.60
21.6	Providing and fixing 600 mm wide ridges & hi layer with one layer bamboo tarja, tied with G frame to be paid separately) as per specificat	.l. wire 1.					•
Code	Description	Unit	Quantity		Rate	1	Amount
	Details of cost for 6.00 metre						
	LABOUR:						
0224	Mate	Day	0.08	₹	310.00	₹	24.80
0231	Thatcher	Day	1.00	₹	355.00	₹	355.00
0212	Coolie/Helper	Day	1.00	₹	310.00	₹	310.00
	MATERIAL					_	
21003	Bamboo dhari mat	Sqm	3.96	₹	55.00	₹	217.80
21001	Muli bamboo 25 mm to 40mm dia	m	63.00	₹	5.00	₹	315.00
21002	G.I wire 1.0 mm	Kg	0.08	₹	60.00	₹	4.80
	TOTAL					₹	1,227.40
	Add for Sundries and contingencies	@	3%			₹	36.82
						₹	1,264.22
	Add GST (multiplying factor)		0.1405			₹	177.62
						₹	1,441.84
	Add for contractor's profit and overheads	@	15%			₹	216.28

	Add cess	@	1%			₹	16.58
	Cost for 6.00 metre					₹	1,674.70
	Cost for 1.00 metre					₹	279.12
	Rate per metre (Say)	+				₹	279.10
21.7	Providing and fixing 600 mm wide ridges &	hine with	cuparace t	iod v	with C L		
21.7	with roof frame complete (roof frame to be p						e 1.0 mm
Code	Description	Unit	Quantity		Rate	P	Amount
	Details of cost for 6.00 metre						
	LABOUR:			_	040.00	_	10.10
0224	Mate	Day	0.04	₹	310.00	₹	12.40
0231	Thatcher	Day	0.50	₹	355.00	₹	177.50
0212	Coolie/Helper	Day	0.50	₹	310.00	₹	155.00
21004	MATERIAL The state of the state	D III.	15.00	-	(0.00	_	000.00
21004	Thatch (sungrass) 300 mm dia bundle	Bundle	15.00	₹	60.00	₹	900.00
21001	Muli bamboo 25 mm to 40mm dia	m	12.00	₹	5.00	₹	60.00
21002	G.I wire 1.0 mm	Kg	0.08	₹	60.00	₹	4.80
	TOTAL					₹	1,309.70
	Add for Sundries and contingencies	@	3%			₹	39.29
						₹	1,348.99
	Add GST (multiplying factor)		0.1405			₹	189.53
						₹	1,538.52
	Add for contractor's profit and overheads	@	15%			₹	230.78
						₹	1,769.30
							17.10
	Add cess	@	I 1%			₹	17.69
	Add cess Cost for 6.00 metre	@	1%			₹	17.69 1.786.99
	Cost for 6.00 metre	@	1%			₹	1,786.99
21.8	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling	, strengthe	ening with s			₹ ₹ nbo	1,786.99 297.83 297.80 o battens
	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep	, strengthe	ening with si	red I	beams or	₹ ₹ nbo	1,786.99 297.83 297.80 o battens
21.8.1	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep with batten at 150 mm centre to centre	, strengthe complete (parately) as	ening with si (over requi s per specifi	red I	beams or on.	₹ ₹ nbo	1,786.99 297.83 297.80 o battens ed with a
	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep with batten at 150 mm centre to centre Description	, strengthe	ening with si	red I	beams or	₹ ₹ nbo	1,786.99 297.83 297.80 o battens
21.8.1	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep with batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm.	, strengthe complete (parately) as	ening with si (over requi s per specifi	red I	beams or on.	₹ ₹ nbo	1,786.99 297.83 297.80 o battens ed with a
21.8.1 Code	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep with batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR:	J, strengthe complete (parately) as	ening with si (over requi s per specifi Quantity	red I	beams or on. Rate	₹ Thoo fixe	1,786.99 297.83 297.80 o battens ed with a
21.8.1 Code	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep with batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate	Unit	ening with significant control of the control of th	red catio	Rate	₹ nbo fixe	1,786.99 297.83 297.80 o battens ed with a
21.8.1 Code 0224 0231	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep with batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher	Unit Day Day	ening with si (over required per specifical contractions) Quantity 0.10 0.50	red catio	Rate 310.00 355.00	₹ ₹ mbor fixe	1,786.99 297.83 297.80 o battens ed with a Amount 31.00 177.50
21.8.1 Code	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper	Unit	ening with significant control of the control of th	red catio	Rate	₹ nbo fixe	1,786.99 297.83 297.80 o battens ed with a Amount 31.00 177.50
21.8.1 Code 0224 0231 0212	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL	Unit Day Day Day	Quantity 0.10 0.50 2.00	red catio	Rate 310.00 355.00 310.00	₹ ₹ mbo fixe	1,786.99 297.83 297.80 o battens ed with a Amount 31.00 177.50 620.00
21.8.1 Code 0224 0231 0212	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat	Unit Day Day Day Sqm	Quantity 0.10 0.50 2.00	red I catio	310.00 355.00 350.00	₹ mboo fixe	1,786.99 297.83 297.80 o battensed with a Amount 31.00 177.50 620.00
21.8.1 Code 0224 0231 0212 21003 21001	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep with batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia	Unit Day Day Day Sqm m	Quantity 0.10 0.50 2.00 9.75 136.00	red catio	310.00 355.00 310.00 55.00	₹ mboo fixe	1,786.99 297.83 297.80 o battens ed with a 31.00 177.50 620.00 536.25 680.00
21.8.1 Code 0224 0231 0212	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep with batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm	Unit Day Day Day Sqm	Quantity 0.10 0.50 2.00	red I catio	310.00 355.00 350.00	₹ ₹ mboor fixe	1,786.99 297.80 o battens ed with a 31.00 177.50 620.00 536.25 680.00 13.80
21.8.1 Code 0224 0231 0212 21003 21001	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL	Unit Day Day Day Sqm m Kg	Quantity 0.10 0.50 2.00 9.75 136.00 0.23	red catio	310.00 355.00 310.00 55.00	₹ mbon fixe	1,786.99 297.83 297.80 o battens ed with a 31.00 177.50 620.00 536.25 680.00 13.80 2,058.55
21.8.1 Code 0224 0231 0212 21003 21001	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep with batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm	Unit Day Day Day Sqm m	Quantity 0.10 0.50 2.00 9.75 136.00	red catio	310.00 355.00 310.00 55.00	₹ ₹ mboo fixe ₹ ₹ ₹ ₹	1,786.99 297.83 297.80 o battensed with a Amount 31.00 177.50 620.00 536.25 680.00 13.80 2,058.55 61.76
21.8.1 Code 0224 0231 0212 21003 21001	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies	Unit Day Day Day Sqm m Kg	Quantity O.10 O.50 2.00 9.75 136.00 O.23	red catio	310.00 355.00 310.00 55.00	₹ ₹ mboofixe	1,786.99 297.80 o battensed with a Amount 31.00 177.50 620.00 536.25 680.00 13.80 2,058.55 61.76 2,120.31
21.8.1 Code 0224 0231 0212 21003 21001	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL	Unit Day Day Day Sqm m Kg	Quantity 0.10 0.50 2.00 9.75 136.00 0.23	red catio	310.00 355.00 310.00 55.00	₹ ₹ mboor fixe	1,786.99 297.83 297.80 o battensed with a Amount 31.00 177.50 620.00 536.25 680.00 13.80 2,058.55 61.76 2,120.31 297.90
21.8.1 Code 0224 0231 0212 21003 21001	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies	Unit Day Day Day Sqm m Kg	Quantity O.10 O.50 2.00 9.75 136.00 O.23	red catio	310.00 355.00 310.00 55.00	₹ ₹ mboofixe	1,786.99 297.80 297.80 o battensed with a 31.00 177.50 620.00 536.25 680.00 13.80 2,058.55 61.76 2,120.31
21.8.1 Code 0224 0231 0212 21003 21001	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor)	Unit Day Day Day Kg Rg	0.10 0.50 2.00 9.75 136.00 0.23 3%	red catio	310.00 355.00 310.00 55.00	₹ ₹ mbor fixe	1,786.99 297.80 297.80 o battensed with a Amount 31.00 177.50 620.00 536.25 680.00 13.80 2,058.55 61.76 2,120.31 297.90 2,418.21
21.8.1 Code 0224 0231 0212 21003 21001	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads	Unit Day Day Day Kg Rg	0.10 0.50 2.00 9.75 136.00 0.23 3%	red catio	310.00 355.00 310.00 55.00	₹ ₹ mboorfixe ₹ ₹ ₹ ₹ ₹ ₹	1,786.99 297.80 297.80 o battensed with a 31.00 177.50 620.00 536.25 680.00 13.80 2,058.55 61.76 2,120.31 297.90 2,418.21 362.73
21.8.1 Code 0224 0231 0212 21003 21001	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	Unit Day Day Day Kg @ @ @	0.10 0.50 2.00 9.75 136.00 0.23 3%	red catio	310.00 355.00 310.00 55.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	1,786.99 297.80 297.80 o battensed with a Amount 31.00 177.50 620.00 536.25 680.00 13.80 2,058.55 61.76 2,120.31 297.90 2,418.21 362.73 2,780.94 27.81
21.8.1 Code 0224 0231 0212 21003 21001	Cost for 6.00 metre Cost for 1.00 metre Rate per metre (Say) Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sepwith batten at 150 mm centre to centre Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Bamboo dhari mat Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads	Unit Day Day Day Kg @ @ @	0.10 0.50 2.00 9.75 136.00 0.23 3%	red catio	310.00 355.00 310.00 55.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	1,786.99 297.80 297.80 o battensed with a 31.00 177.50 620.00 536.25 680.00 13.80 2,058.55 61.76 2,120.31 297.90 2,418.21 362.73

21.8	Providing and fixing double dhari mat ceiling (both side) and tied with G.I. wire 1.0 mm frame of suitable type, which will be paid sep	complete	(over requi	red	beams or		
21.8.2	with batten at 225 mm centre to centre						
Code	Description	Unit	Quantity		Rate	A	Amount
	Details of cost for 9.20 Sqm.						
	LABOUR:						
0224	Mate	Day	0.08	₹	310.00	₹	24.80
0231	Thatcher	Day	0.50	₹	355.00	₹	177.50
0212	Coolie/Helper	Day	1.50	₹	310.00	₹	465.00
21003	MATERIAL Bamboo dhari mat	Sqm	9.75	₹	55.00	₹	536.25
21003	Muli bamboo 25 mm to 40mm dia	m	93.00	₹	5.00	₹	465.00
21002	G.I wire 1.0 mm	Kg	0.19	₹	60.00	₹	11.40
	TOTAL	1.9				₹	1,679.95
	Add for Sundries and contingencies	@	3%			₹	50.40
						₹	1,730.35
	Add GST (multiplying factor)		0.1405			₹	243.11
						₹	1,973.46
	Add for contractor's profit and overheads	@	15%			₹	296.02
						₹	2,269.48
	Add cess	@	1%			₹	22.69
	Cost for 9.20 sqm.					₹	2,292.17
	Cost for 1 sqm.					₹	249.15
	Rate per sqm (Say)					₹	249.20
21.8.3	with batten at 300 mm centre to centre		1			<u> </u>	
Code	Description	Unit	Quantity		Rate	F	Amount
	Details of cost for 9.20 Sqm.						
0004	LABOUR:		0.07	_	010.00	_	10.40
0224	Mate	Day	0.06	₹	310.00	₹	18.60
0231 0212	Thatcher Coolie/Helper	Day Day	0.50 1.00	₹	355.00 310.00	₹	177.50 310.00
0212	MATERIAL	Day	1.00		310.00	_	310.00
21003	Bamboo dhari mat	Sqm	9.75	₹	55.00	₹	536.25
21001	Muli bamboo 25 mm to 40mm dia	m	71.00	₹	5.00	₹	355.00
21002	G.I wire 1.0 mm	Kg	0.15	₹	60.00	₹	9.00
	TOTAL					₹	1,406.35
	Add for Sundries and contingencies	@	3%			₹	42.19
						₹	1,448.54
	Add GST (multiplying factor)		0.1405			₹	203.52
						₹	1,652.06
	Add for contractor's profit and overheads	@	15%			₹	247.81
				ļ		₹	1,899.87
	Add cess	@	1%			₹	19.00
	Cost for 9.20 sqm.			<u> </u>		₹	1,918.87
	Cost for 1 sqm.					₹	208.57
24.0	Rate per sqm (Say)		/ 75	<u> </u>	00111-0	₹	208.60
21.9	Providing and fixing muli bamboo champaka with single split bamboo battens (both side wire 1.0 mm complete (over required beam will be paid separately) as per specification.) at 300 r	nm centre to	cei	ntre and	tied	with G.I.

Code	Description	Unit	Quantity		Rate	1	Amount
	Details of cost for 9.20 Sqm.						
	LABOUR:						
0224	Mate	Day	0.20	₹	310.00	₹	62.00
0231	Thatcher	Day	1.00	₹	355.00	₹	355.00
0212	Coolie/Helper	Day	4.00	₹	310.00	₹	1,240.00
	MATERIAL						
21001	Muli bamboo 25 mm to 40mm dia	m	335.00	₹	5.00	₹	1,675.00
21002	G.I wire 1.0 mm	Kg	0.45	₹	60.00	₹	27.00
	TOTAL					₹	3,359.00
	Add for Sundries and contingencies	@	3%			₹	100.77
						₹	3,459.77
	Add GST (multiplying factor)		0.1405			₹	486.10
						₹	3,945.87
	Add 6-a - a the decide of the add and a decide of		4 = 0/			_	F01.00
	Add for contractor's profit and overheads	@	15%			₹	591.88
						₹	4,537.75
	Add cess	@	1%			₹	45.38
	Cost for 9.20 sqm.	1				₹	4,583.13
	Cost for 1 sqm.					₹	498.17
	Rate per sqm (Say)					₹	498.20
21.10	Providing and fixing muli bamboo champakan	na taria	(75 mm wid	lo) '	walling c	_ •	
	with single split bamboo battens (both side) wire 1.0 mm complete as per specification.						
Code	Description	Unit	Quantity		Rate	1	Amount
	'		,				
	Details of cost for 9.20 Sam						
	Details of cost for 9.20 Sqm.						
	LABOUR:						
0224	LABOUR: LABOUR:	Day	0.16	₹	310.00	₹	49.60
0224 0231	LABOUR: LABOUR: Mate	Day Day	0.16	₹	310.00 355.00	₹	
0231	LABOUR: LABOUR: Mate Thatcher	Day	1.00	₹	355.00	₹	355.00
	LABOUR: LABOUR: Mate Thatcher Coolie/Helper						355.00
0231 0212	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL	Day Day	1.00 3.00	₹	355.00 310.00	₹	355.00 930.00
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia	Day Day m	1.00 3.00 335.00	₹ ₹	355.00 310.00 5.00	₹ ₹	355.00 930.00 1,675.00
0231 0212	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm	Day Day	1.00 3.00	₹	355.00 310.00	₹ ₹	355.00 930.00 1,675.00 21.00
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.l wire 1.0 mm TOTAL	Day Day m Kg	1.00 3.00 335.00 0.35	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm	Day Day m	1.00 3.00 335.00	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies	Day Day m Kg	1.00 3.00 335.00 0.35	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.l wire 1.0 mm TOTAL	Day Day m Kg	1.00 3.00 335.00 0.35	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹ ₹	21.00 3,030.60 90.92 3,121.52 438.57
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies	Day Day m Kg	1.00 3.00 335.00 0.35	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies	Day Day m Kg	1.00 3.00 335.00 0.35	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor)	Day Day m Kg	1.00 3.00 335.00 0.35 3% 0.1405	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads	Day Day m Kg @	1.00 3.00 335.00 0.35 3% 0.1405	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	Day Day m Kg	1.00 3.00 335.00 0.35 3% 0.1405	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm.	Day Day m Kg @	1.00 3.00 335.00 0.35 3% 0.1405	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm.	Day Day m Kg @	1.00 3.00 335.00 0.35 3% 0.1405	₹ ₹	355.00 310.00 5.00	₹ ₹ ₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46
0231 0212 21001 21002	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say)	Day Day m Kg @ @ @ @ @	1.00 3.00 335.00 0.35 3% 0.1405 15%	₹₹	355.00 310.00 5.00 60.00	₹ ₹ ₹ ₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46 449.50
0231 0212 21001	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm.	Day Day m Kg @ @ apa tarja at 300 n	1.00 3.00 335.00 0.35 3% 0.1405 15% 1%	₹ ₹ ₹	355.00 310.00 5.00 60.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ trer	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46 449.50 agthening
0231 0212 21001 21002	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo champakan with single split bamboo battens (both side)	Day Day m Kg @ @ apa tarja at 300 n	1.00 3.00 335.00 0.35 3% 0.1405 15% 1%	₹ ₹ ₹	355.00 310.00 5.00 60.00	₹ ₹ ₹ ₹ ₹ ₹ trertied	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46 449.50 agthening
0231 0212 21001 21002	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo champakan with single split bamboo battens (both side) wire 1.0 mm including one layer of dhari mat I	Day Day M Kg @ @ @ mpa tarja at 300 mining con	1.00 3.00 335.00 0.35 3% 0.1405 15% 1% (75 mm widnm centre tomplete as per	₹ ₹ ₹	355.00 310.00 5.00 60.00 walling, s	₹ ₹ ₹ ₹ ₹ ₹ trertied	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46 449.50 agthening with G.I.
0231 0212 21001 21002	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo champakan with single split bamboo battens (both side) wire 1.0 mm including one layer of dhari mat I Description Details of cost for 9.20 Sqm.	Day Day M Kg @ @ @ mpa tarja at 300 mining con	1.00 3.00 335.00 0.35 3% 0.1405 15% 1% (75 mm widnm centre tomplete as per	₹ ₹ ₹	355.00 310.00 5.00 60.00 walling, s	₹ ₹ ₹ ₹ ₹ ₹ trertied	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46 449.50 agthening with G.I.
0231 0212 21001 21002 21.11	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo champakan with single split bamboo battens (both side) wire 1.0 mm including one layer of dhari mat I Description Details of cost for 9.20 Sqm. LABOUR:	Day Day M Kg @ @ @ @ pa tarja at 300 n ining con	1.00 3.00 335.00 0.35 3% 0.1405 15% 1% (75 mm widen centre to applete as per	₹ ₹	355.00 310.00 5.00 60.00 walling, s htre and secification	₹ ₹ ₹ ₹ ₹ ₹ ₹ trer tied n.	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46 449.50 19thening with G.I.
0231 0212 21001 21002 21.11 Code	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo champakan with single split bamboo battens (both side) wire 1.0 mm including one layer of dhari mat I Description Details of cost for 9.20 Sqm. LABOUR: Mate	Day Day M Kg @ @ @ mpa tarja at 300 n ining con Unit Day	1.00 3.00 335.00 0.35 3% 0.1405 15% 1% (75 mm widen centre templete as per Quantity 0.16	₹ ₹ ₹	355.00 310.00 5.00 60.00 walling, s htre and secification Rate	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46 449.50 agthening with G.I.
0231 0212 21001 21002 21.11 Code	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo champakan with single split bamboo battens (both side) wire 1.0 mm including one layer of dhari mat I Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher	Day Day M Kg @ @ pa tarja at 300 n ining con Unit Day Day	1.00 3.00 335.00 0.35 3% 0.1405 15% 1% (75 mm widner centre to applete as per Quantity 0.16 1.00	₹ ₹	355.00 310.00 5.00 60.00 walling, s htre and ecification Rate	₹ ₹ ₹ ₹ ₹ ₹ ₹ trer tied n.	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46 449.50 agthening with G.I.
0231 0212 21001 21002 21.11 Code	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo champakan with single split bamboo battens (both side) wire 1.0 mm including one layer of dhari mat I Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper	Day Day M Kg @ @ @ mpa tarja at 300 n ining con Unit Day	1.00 3.00 335.00 0.35 3% 0.1405 15% 1% (75 mm widen centre templete as per Quantity 0.16	₹ ₹ ₹ Ocerrspe	355.00 310.00 5.00 60.00 walling, s htre and secification Rate	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46 449.50 gthening with G.I.
0231 0212 21001 21002 21.11 Code	LABOUR: LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo champakan with single split bamboo battens (both side) wire 1.0 mm including one layer of dhari mat I Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher	Day Day M Kg @ @ pa tarja at 300 n ining con Unit Day Day	1.00 3.00 335.00 0.35 3% 0.1405 15% 1% (75 mm widner centre to applete as per Quantity 0.16 1.00	₹ ₹ ₹ Ocerrspe	355.00 310.00 5.00 60.00 walling, s htre and ecification Rate	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	355.00 930.00 1,675.00 21.00 3,030.60 90.92 3,121.52 438.57 3,560.09 534.01 4,094.10 40.94 4,135.04 449.46 449.50 agthening with G.I.

21002	G.I wire 1.0 mm	Kg	0.35	₹ 60.00	₹ 21.00
	TOTAL				₹ 3,566.85
	Add for Sundries and contingencies	@	3%		₹ 107.01
	<u> </u>				₹ 3,673.86
	Add GST (multiplying factor)		0.1405		₹ 516.18
	, and the first fi				₹ 4,190.04
	Add for contractor's profit and overheads	@	15%		₹ 628.51
					₹ 4,818.55
	Add cess	@	1%		₹ 48.19
	Cost for 9.20 sqm.		170		₹ 4,866.74
	Cost for 1 sqm.				₹ 528.99
	Rate per sqm (Say)	 			₹ 529.00
21.12	Providing and fixing muli bamboo plain ove	n taria (75 mm wid	e) walling s	•
	with single split bamboo battens (both side) wire 1.0 mm including one layer of dhari mat) at 300 r	nm centre to	centre and	tied with G.I.
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 9.20 Sqm.		Ī		
	LABOUR:				
0224	Mate	Day	0.12	₹ 310.00	₹ 37.20
0231	Thatcher	Day	1.00	₹ 355.00	₹ 355.00
0212	Coolie/Helper	Day	2.00	₹ 310.00	₹ 620.00
	MATERIAL				
21001	Muli bamboo 25 mm to 40mm dia	m	222.00	₹ 5.00	₹ 1,110.00
21003	Bamboo dhari mat	Sqm	9.75	₹ 55.00	₹ 536.25
21002	G.I wire 1.0 mm	Kg	0.35	₹ 60.00	₹ 21.00
	TOTAL				₹ 2,679.45
	Add for Sundries and contingencies	@	3%		₹ 80.38
					₹ 2,759.83
	Add GST (multiplying factor)		0.1405		₹ 387.76
					₹ 3,147.59
	Add for contractor's profit and overheads	@	15%		₹ 472.14
	rida for contractor a promi and evernous		1070		
					₹ 3,619.73
	Add cess	@	1%		₹ 36.20
	Cost for 9.20 sqm.				₹ 3,655.93
	Cost for 1 sqm.				₹ 397.38
	Rate per sqm (Say)				₹ 397.40
21.13	Providing and fixing double layer dhari mat v	walling, s	trengthening	with single	split bamboo
	battens (both side) at 300 mm centre to cen	tre and t	ied with G.I.	wire 1.0 mm	n complete as
	per specification.				
Code	Description	Unit	Quantity	Rate	Amount
2240	Details of cost for 9.20 Sqm.	1		1.2.0	
	LABOUR:		1	1	
0224	Mate	Day	0.10	₹ 310.00	₹ 31.00
0231	Thatcher	Day	1.00	₹ 355.00	₹ 355.00
0212	Coolie/Helper	Day	1.50	₹ 310.00	₹ 465.00
	MATERIAL				
21001	Muli bamboo 25 mm to 40mm dia	m	71.00	₹ 5.00	₹ 355.00
21003	Bamboo dhari mat	Sqm	19.50	₹ 55.00	₹ 1,072.50
21002	G.I wire 1.0 mm	Kg	0.35	₹ 60.00	₹ 21.00
	TOTAL				₹ 2,299.50
	Add for Sundries and contingencies	@	3%		₹ 68.99
					₹ 2,368.49
	Add GST (multiplying factor)		0.1405		₹ 332.77
					₹ 2,701.26
	Add for contractoric profit and averbands	@	1 = 0/		
	Add for contractor's profit and overheads	@	15%	1	₹ 405.19
	I	1	L	1	

						₹	3,106.45
	Add cess	@	1%			₹	31.06
	Cost for 9.20 sqm.					₹	3,137.51
	Cost for 1 sqm.					₹	341.03
	Rate per sqm (Say)					₹	341.00
21.14	Providing and fixing muli bamboo (tarja) jafri, str	engthening	with	single s	split	
	battens (both side) at 450 mm centre to ce						
	per specification.						•
Code	Description	Unit	Quantity		Rate		Amount
0000	Details of cost for 9.20 Sqm.		Quartity		rtuto		
	LABOUR:						
0224	Mate	Day	0.12	₹	310.00	₹	37.20
0231	Thatcher	Day	1.00	₹	355.00	₹	355.00
0212	Coolie/Helper	Day	2.00	₹	310.00	₹	620.00
-	MATERIAL						
21001	Muli bamboo 25 mm to 40mm dia	m	190.00	₹	5.00	₹	950.00
21002	G.I wire 1.0 mm	Kg	0.20	₹	60.00	₹	12.00
	TOTAL					₹	1,974.20
	Add for Sundries and contingencies	@	3%			₹	59.23
						₹	2,033.43
	Add GST (multiplying factor)		0.1405			₹	285.70
						₹	2,319.13
	Add for contractor's profit and overheads	@	15%			₹	347.87
	rad for contractor 5 profit and overheads		1070				
			40/			_	2,667.00
	Add cess	@	1%			₹	26.67
	0 15 000					₹	2,693.67
	Cost for 9.20 sqm.			1			
	Cost for 1 sqm.					₹	292.79
21.15	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair					₹ 1d 1	292.79 292.80 fencing ,
	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s	ens (both pecification	side) at 450 n.		n centre t	₹ nd 1 to ce	292.79 292.80 fencing , entre and
21.15 Code	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description	ens (both	side) at 450			₹ nd 1 to ce	292.79 292.80 fencing ,
	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm.	ens (both pecification	side) at 450 n.		n centre t	₹ nd 1 to ce	292.79 292.80 fencing , entre and
Code	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR:	ens (both pecification Unit	side) at 450 n. Quantity	0 mn	Rate	₹ nd 1 to ce	292.79 292.80 fencing , entre and
Code 0224	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate	ens (both pecification Unit	side) at 450 n. Quantity	0 mn	Rate 310.00	₹ nd fico ce	292.79 292.80 fencing , entre and Amount
Code 0224 0231	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher	ens (both pecification Unit Day Day	Side) at 450 n. Quantity 0.10 1.00) mn	Rate 310.00 355.00	₹ nd fi to ce	292.79 292.80 fencing , entre and Amount 31.00 355.00
Code 0224	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper	ens (both pecification Unit	side) at 450 n. Quantity	0 mn	Rate 310.00	₹ nd fico ce	292.79 292.80 fencing , entre and Amount 31.00 355.00
0224 0231 0212	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL	ens (both pecification Unit Day Day Day Day	Ouantity 0.10 1.00 1.50	7 mn	Rate 310.00 355.00 310.00	₹ nd fi to ce	292.79 292.80 fencing , entre and Amount 31.00 355.00 465.00
Code 0224 0231	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia	ens (both pecification Unit Day Day Day Day m	O.10 1.50 222.00) mn	Rate 310.00 355.00 310.00	₹ nd 1 to ce	292.79 292.80 fencing , entre and Amount 31.00 355.00 465.00
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm	ens (both pecification Unit Day Day Day Day	Ouantity 0.10 1.00 1.50	7 mn	Rate 310.00 355.00 310.00	₹ nd 1 1 to ccc	292.79 292.80 fencing , entre and Amount 31.00 355.00 465.00 1,110.00 12.00
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia	ens (both pecification Unit Day Day Day Day m	O.10 1.50 222.00	7 mn	Rate 310.00 355.00 310.00	₹ nd 1 1 to ccc	292.79 292.80 fencing , entre and Amount 31.00 355.00 465.00 1,110.00 12.00 1,973.00
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL	ens (both pecification Unit Day Day Day M Kg	0.10 1.50 222.00 0.20	7 mn	Rate 310.00 355.00 310.00	₹ nd 1 in o ce	292.79 292.80 fencing , entre and Amount 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies	ens (both pecification Unit Day Day Day M Kg	0.10 1.50 222.00 0.20	7 mn	Rate 310.00 355.00 310.00	₹ nd 1 1 co cc	292.79 292.80 fencing , entre and 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL	ens (both pecification Unit Day Day Day M Kg	0.10 1.50 222.00 0.20	7 mn	Rate 310.00 355.00 310.00	₹ nd 1 nd co ccc	292.79 292.80 fencing , entre and 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor)	ens (both pecification Unit Day Day Day Kg @	0.10 1.50 222.00 0.20 3% 0.1405	7 mn	Rate 310.00 355.00 310.00	₹ nd 1 nd co ccc	292.79 292.80 fencing , entre and Amount 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52 2,317.71
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies	ens (both pecification Unit Day Day Day M Kg	0.10 1.50 222.00 0.20	7 mn	Rate 310.00 355.00 310.00	₹	292.79 292.80 fencing , entre and Amount 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52 2,317.71 347.66
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads	ens (both pecification Unit Day Day Day Kg @ @ @ @	0.10 1.50 222.00 0.20 3% 0.1405	7 mn	Rate 310.00 355.00 310.00	₹ # # # # # # # # # # # # # # # # # # #	292.79 292.80 fencing , entre and Amount 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52 2,317.71 347.66 2,665.37
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add cess	ens (both pecification Unit Day Day Day Kg @	0.10 1.50 222.00 0.20 3% 0.1405	7 mn	Rate 310.00 355.00 310.00	₹ nd 1 nd nd nd nd nd nd nd nd nd nd nd nd nd	292.79 292.80 fencing , entre and Amount 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52 2,317.71 347.66 2,665.37 26.65
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add cess Cost for 9.20 sqm.	ens (both pecification Unit Day Day Day Kg @ @ @ @	0.10 1.50 222.00 0.20 3% 0.1405	7 mn	Rate 310.00 355.00 310.00	₹ nd 1 nd nd nd nd nd nd nd nd nd nd nd nd nd	292.79 292.80 fencing , entre and 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 285.52 2,317.71 347.66 2,665.37 26.65 2,692.02
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add cess Cost for 9.20 sqm. Cost for 9.20 sqm. Cost for 1 sqm.	ens (both pecification Unit Day Day Day Kg @ @ @ @	0.10 1.50 222.00 0.20 3% 0.1405	7 mn	Rate 310.00 355.00 310.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	292.79 292.80 fencing , entre and 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52 2,317.71 347.66 2,665.37 26.65 2,692.02 292.61
0224 0231 0212 21001 21002	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say)	ens (both pecification Unit Day Day Day M Kg @ @ @ @ @	0.10 1.00 1.50 222.00 0.20 3% 0.1405	₹ ₹ ₹ ₹	310.00 355.00 310.00 60.00	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	292.79 292.80 fencing , entre and 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52 2,317.71 347.66 2,665.37 26.65 2,692.02 292.61 292.60
0224 0231 0212 21001	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing whole muli bamboo (p	ens (both pecification Unit Day Day Day May 3% 0.1405 1.5% 1.5% 1.5%	O mn	310.00 355.00 310.00 60.00	₹	292.79 292.80 fencing , entre and 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52 2,317.71 347.66 2,665.37 26.65 2,692.02 292.61 292.60 ith whole	
0224 0231 0212 21001 21002	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing whole muli bamboo (p muli bamboo battens (both side) at 600 mili	ens (both pecification Unit Day Day Day May 3% 0.1405 1.5% 1.5% 1.5%	O mn	310.00 355.00 310.00 60.00	₹	292.79 292.80 fencing , entre and 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52 2,317.71 347.66 2,665.37 26.65 2,692.02 292.61 292.60 ith whole	
21.16	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing whole muli bamboo (p	ens (both pecification Unit Day Day Day May 3% 0.1405 1.5% 1.5% 1.5%	O mn	310.00 355.00 310.00 60.00	₹	292.79 292.80 fencing , entre and 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52 2,317.71 347.66 2,665.37 26.65 2,692.02 292.61 292.60 ith whole	
0224 0231 0212 21001 21002	Cost for 1 sqm. Rate per sqm (Say) Providing and fixing muli bamboo plair strengthening with single split bamboo batt tied with G.I. wire 1.0 mm complete as per s Description Details of cost for 9.20 Sqm. LABOUR: Mate Thatcher Coolie/Helper MATERIAL Muli bamboo 25 mm to 40mm dia G.I wire 1.0 mm TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.20 sqm. Cost for 1 sqm. Rate per sqm (Say) Providing and fixing whole muli bamboo (p muli bamboo battens (both side) at 600 mili	ens (both pecification Unit Day Day Day May 3% 0.1405 1.5% 1.5% 1.5%	O mn	310.00 355.00 310.00 60.00	₹	292.79 292.80 fencing , entre and 31.00 355.00 465.00 1,110.00 12.00 1,973.00 59.19 2,032.19 285.52 2,317.71 347.66 2,665.37 26.65 2,692.02 292.61 292.60 ith whole	

	LABOUR:						
0224	Mate	Day	0.04	₹	310.00	₹	12.40
0231	Thatcher	Day	0.50	₹	355.00	₹	177.50
0212	Coolie/Helper	Day	0.50	₹	310.00	₹	155.00
02.2	MATERIAL	24,	0.00	Ì	0.0.00	Ì	
21001	Muli bamboo 25 mm to 40mm dia	m	472.00	₹	5.00	₹	2,360.00
21002	G.I wire 1.0 mm	Kg	0.40	₹	60.00	₹	24.00
	TOTAL	J				₹	2,728.90
	Add for Sundries and contingencies	@	3%			₹	81.87
						₹	2,810.77
	Add GST (multiplying factor)		0.1405			₹	394.91
	riad co. (marrip.)mg ractor,		011100			₹	3,205.68
	Add for contractor's profit and overheads	@	15%			₹	480.85
						₹	3,686.53
	Add cess	@	1%			₹	36.87
	Cost for 9.20 sqm.	Ü	170			₹	3,723.40
	Cost for 1 sqm.					₹	404.72
	•					₹	404.72
21.17	Rate per sqm (Say) Providing and fixing whole muli bamboo ma	ochan oa	sh hambaa t	iod	with coir		
21.17	mm centre to centre, with one layer of champ						
	structure properly tied with coir rope as per			j co	inplete of	/er a	Sultable
		i		1		1	
Code	Description	Unit	Quantity		Rate	-	Amount
	Details of cost for 15.20 Sqm.						
	LABOUR:						
0224	Mate	Day	0.20	₹	310.00	₹	62.00
0231	Thatcher	Day	1.00	₹	355.00	₹	355.00
0212	Coolie/Helper	Day	4.00	₹	310.00	₹	1,240.00
	MATERIAL						
21001	Muli bamboo 25 mm to 40mm dia	m	798.00	₹	5.00	₹	3,990.00
21002	G.I wire 1.0 mm	Kg	5.00	₹	60.00	₹	300.00
	TOTAL					₹	5,947.00
	Add for Sundries and contingencies	@	3%			₹	178.41
						₹	6,125.41
	Add GST (multiplying factor)		0.1405			₹	860.62
						₹	6,986.03
	Add for contractor's profit and overheads	@	15%			₹	1,047.90
	rida for contractor a promi and evernous		1070				
						₹	8,033.93
	Add cess	@	1%			₹	80.34
	Cost for 15.20 sqm.			<u> </u>		₹	8,114.27
<u> </u>	Cost for 1 sqm.	<u> </u>	<u> </u>	L		₹	533.83
	Rate per sqm (Say)					₹	533.80
21.18	Providing and fixing barak bamboo 75 mm to				olates, tie	s, ki	ng posts,
	rafters, runners etc. tied with coir rope comple	ete as per	specification	n.			
Code	Description	Unit	Quantity		Rate	-	Amount
	Details of cost for 9.00 metre.		ĺ				
	LABOUR:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0231	Thatcher	Day	0.10	₹	355.00	₹	35.50
0212	Coolie/Helper	Day	0.10	₹	310.00	₹	31.00
	MATERIAL						
21005	Barak bamboo 75 mm to 100mm dia	m	10.00	₹	22.00	₹	220.00
21002	G.I wire 1.0 mm	Kg	1.00	₹	60.00	₹	60.00
	TOTAL					₹	349.60
	Add for Sundries and contingencies	@	3%			₹	10.49
	, and the second					₹	360.09
	Add GST (multiplying factor)		0.1405			₹	50.59
	, , , , , ,					₹	410.68
	<u> </u>	1	1	<u> </u>		<u> </u>	5.50

•							
	Add for contractor's profit and overheads	@	15%			₹	61.60
	'						
						₹	472.28
	Add cess	@	1%			₹	4.72
	Cost for 9.00 metre					₹	477.00
	Cost for 1.00 metre					₹	53.00
	Rate per metre (Say)					₹	53.00
21.19	Providing and fixing barak bamboo 75 mm	to 100 mi	m dia nosts	run	nore etri		
21.17	collars etc. fixed with MS nails complete as pe			ıuıı	11013, 3110	113, L	n acirigs,
	condits etc. Tixed with his hans complete as pe	s specific	Jation.				
Code	Description	Unit	Quantity		Rate	Α	mount
	Details of cost for 9.00 metre.						
	LABOUR:						
0224	Mate	Day	0.005	₹	310.00	₹	1.55
0231	Thatcher	Day	0.05	₹	355.00	₹	17.75
0212	Coolie/Helper	Day	0.05	₹	310.00	₹	15.50
	MATERIAL						
21005	Barak bamboo 75 mm to 100mm dia	m	10.00	₹	22.00	₹	220.00
21002	G.I wire 1.0 mm	Kg	0.50	₹	60.00	₹	30.00
21002	TOTAL	Ng	0.30	<u> </u>	00.00	₹	284.80
			20/				
	Add for Sundries and contingencies	@	3%	1		₹	8.54
						₹	293.34
	Add GST (multiplying factor)		0.1405			₹	41.21
						₹	334.55
	Add for contractorio profit and quarkands		1 50/			-	FO 10
	Add for contractor's profit and overheads	@	15%			₹	50.18
						₹	384.73
	Add cess	@	1%			₹	3.85
			170			₹	388.58
	I('ost for 9 ()() metre						
	Cost for 9.00 metre						
	Cost for 1.00 metre					₹	43.18
	Cost for 1.00 metre Rate per metre (Say)					₹	43.18 43.20
21.20	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge					₹ g pos	43.18 43.20 sts, then
21.20	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes	in layers	not excee	ding	200 mi	₹ g pos m in	43.18 43.20 sts, then depth,
21.20	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri	in layers ng and ra	not excee mming, disp	ding osal	200 mi	₹ g pos m in	43.18 43.20 sts, then depth,
21.20	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes	in layers ng and ra	not excee mming, disp	ding osal	200 mi	₹ g pos m in	43.18 43.20 sts, then depth,
21.20	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri	in layers ng and ra	not excee mming, disp	ding osal	200 mi	₹ g pos m in	43.18 43.20 sts, then depth,
	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple	in layers ng and ra te as per	not excee imming, disp specification	ding osal	200 mi of surpl	₹ g pos m in us ex	43.18 43.20 sts, then depth, ccavated
21.20 Code	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description	in layers ng and ra	not excee mming, disp	ding osal	200 mi	₹ g pos m in us ex	43.18 43.20 sts, then depth,
	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes	in layers ng and ra te as per	not excee imming, disp specification	ding osal	200 mi of surpl	₹ g pos m in us ex	43.18 43.20 sts, then depth, ccavated
Code	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR:	in layers ng and ra te as per Unit	not exceed mming, disposed specification Quantity	ding posal n.	200 mi of surpl Rate	₹ g pos m in us e>	43.18 43.20 sts, then depth, ccavated
Code 0224	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate	in layers ng and ra te as per Unit Day	not exceed mming, dispose specification Quantity 0.08	ding posal n.	200 mi of surpl Rate	₹ g pos m in us e>	43.18 43.20 sts, then depth, ccavated mount
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar	in layers ng and ra te as per Unit Day Day	not exceed mming, dispose specification Quantity 0.08 1.00	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g pos m in us ex	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00
Code 0224	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper	in layers ng and ra te as per Unit Day	not exceed mming, dispose specification Quantity 0.08	ding posal n.	200 mi of surpl Rate	₹ g pos m in us ex A	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00 310.00
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL	in layers ng and ra te as per Unit Day Day	not exceed mming, disputations of the control of th	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us ex	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00 644.80
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper	in layers ng and ra te as per Unit Day Day	not exceed mming, dispose specification Quantity 0.08 1.00	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g pos m in us ex A	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00 310.00
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL	in layers ng and ra te as per Unit Day Day Day Day	not exceed mming, disputations of the control of th	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us ex	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00 644.80
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies	in layers ng and ra te as per Unit Day Day Day Day	not exceed mming, dispose specification Quantity 0.08 1.00 1.00 3%	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us e>	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00 310.00 644.80 19.34 664.14
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL	in layers ng and ra te as per Unit Day Day Day Day	not exceed mming, disputations of the control of th	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us e>	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor)	in layers ng and ra te as per Unit Day Day Day Day	not exceed mming, disp specification Quantity 0.08 1.00 1.00 3% 0.1405	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us e>	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31 757.45
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies	in layers ng and ra te as per Unit Day Day Day Day	not exceed mming, dispose specification Quantity 0.08 1.00 1.00 3%	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us e>	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor)	in layers ng and ra te as per Unit Day Day Day @	not exceed mming, disp specification Quantity 0.08 1.00 1.00 3% 0.1405	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us ex	43.18 43.20 sts, then depth, cavated mount 24.80 310.00 644.80 19.34 664.14 93.31 757.45 113.62
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads	in layers ng and ra te as per Unit Day Day Day @ @ @ @	not exceed mming, disp specification Quantity 0.08 1.00 1.00 3% 0.1405	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us e>	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31 757.45 113.62
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	in layers ng and ra te as per Unit Day Day Day @	not exceed mming, disp specification Quantity 0.08 1.00 1.00 3% 0.1405	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us e>	43.18 43.20 sts, then depth, cavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31 757.45 113.62 871.07 8.71
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 15 Nos. holes	in layers ng and ra te as per Unit Day Day Day @ @ @ @	not exceed mming, disp specification Quantity 0.08 1.00 1.00 3% 0.1405	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us ex	43.18 43.20 sts, then depth, cavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31 757.45 113.62 871.07 8.71 879.78
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	in layers ng and ra te as per Unit Day Day Day @ @ @ @	not exceed mming, disp specification Quantity 0.08 1.00 1.00 3% 0.1405	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us e>	43.18 43.20 sts, then depth, ccavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31 757.45 113.62
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 15 Nos. holes Cost for 1 No. hole	in layers ng and ra te as per Unit Day Day Day @ @ @ @	not exceed mming, disp specification Quantity 0.08 1.00 1.00 3% 0.1405	ding posal n. ₹	200 mil of surpl Rate 310.00 310.00	₹ g posm in us ex	43.18 43.20 sts, then depth, cavated mount 24.80 310.00 644.80 19.34 664.14 93.31 757.45 113.62 871.07 8.71 879.78 58.65
0224 0203 0212	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 15 Nos. holes Cost for 1 No. hole Rate per each hole (Say)	in layers ng and ra te as per Unit Day Day Day @ @ @ @ @ @	not exceed mming, disp specification Quantity 0.08 1.00 1.00 3% 0.1405 15%	ding posal n. ₹ ₹	200 mil of surpl	₹ g posm in us ex	43.18 43.20 sts, then depth, cavated mount 24.80 310.00 644.80 19.34 664.14 93.31 757.45 113.62 871.07 8.71 879.78 58.65 58.70
Code 0224 0203	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 15 Nos. holes Cost for 1 No. hole Rate per each hole (Say) Dismantling all types of thatch roofing wi	in layers ng and ra te as per Unit Day Day Day @ @ @ th sungra	not exceed mming, dispose specification Quantity 0.08 1.00 1.00 3% 0.1405 15% 1%	ding posalin. ₹ ₹	200 mil of surpl Rate 310.00 310.00 310.00	₹ g posm in us ex	43.18 43.20 sts, then depth, cavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31 757.45 113.62 871.07 8.71 879.78 58.65 58.70 viceable
0224 0203 0212	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 15 Nos. holes Cost for 1 No. hole Rate per each hole (Say) Dismantling all types of thatch roofing wi materials and unserviceable materials separate	in layers ng and ra te as per Unit Day Day Day @ @ @ th sungra	not exceed mming, dispose specification Quantity 0.08 1.00 1.00 3% 0.1405 15% 1%	ding posalin. ₹ ₹	200 mil of surpl Rate 310.00 310.00 310.00	₹ g posm in us ex	43.18 43.20 sts, then depth, cavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31 757.45 113.62 871.07 8.71 879.78 58.65 58.70 viceable
Code 0224 0203 0212 21.21	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 15 Nos. holes Cost for 1 No. hole Rate per each hole (Say) Dismantling all types of thatch roofing wi materials and unserviceable materials separadirected by the Engineer-in-charge.	in layers ng and ra te as per Unit Day Day Day @ @ @ th sungra ately with	not exceed mming, dispose specification Quantity 0.08 1.00 1.00 3% 0.1405 15% 1% ass including all lifts an	ding posalin. ₹ ₹	Rate 310.00 310.00 310.00 acking of to a lead	₹ g posm in us ex ex ex ex ex ex ex ex ex ex ex ex ex	43.18 43.20 sts, then depth, cavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31 757.45 113.62 871.07 8.71 879.78 58.65 58.70 viceable 50 m as
0224 0203 0212	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 15 Nos. holes Cost for 1 No. hole Rate per each hole (Say) Dismantling all types of thatch roofing wi materials and unserviceable materials separadirected by the Engineer-in-charge. Description	in layers ng and ra te as per Unit Day Day Day @ @ @ th sungra	not exceed mming, dispose specification Quantity 0.08 1.00 1.00 3% 0.1405 15% 1%	ding posalin. ₹ ₹	200 mil of surpl Rate 310.00 310.00 310.00	₹ g posm in us ex ex ex ex ex ex ex ex ex ex ex ex ex	43.18 43.20 sts, then depth, cavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31 757.45 113.62 871.07 8.71 879.78 58.65 58.70 viceable
Code 0224 0203 0212 21.21	Cost for 1.00 metre Rate per metre (Say) Excavating holes upto 0.10 cum including ge returning the soil as required in holes consolidating each deposited layer by wateri soil as directed with all leads and lifts comple Description Details of cost for 15 Nos holes LABOUR: Mate Beldar Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 15 Nos. holes Cost for 1 No. hole Rate per each hole (Say) Dismantling all types of thatch roofing wi materials and unserviceable materials separadirected by the Engineer-in-charge.	in layers ng and ra te as per Unit Day Day Day @ @ @ th sungra ately with	not exceed mming, dispose specification Quantity 0.08 1.00 1.00 3% 0.1405 15% 1% ass including all lifts an	ding posalin. ₹ ₹	Rate 310.00 310.00 310.00 acking of to a lead	₹ g posm in us ex ex ex ex ex ex ex ex ex ex ex ex ex	43.18 43.20 sts, then depth, cavated mount 24.80 310.00 310.00 644.80 19.34 664.14 93.31 757.45 113.62 871.07 8.71 879.78 58.65 58.70 viceable 50 m as

0224	Mate	Day	0.04	₹	310.00	₹	12.40
0231	Thetcher	Day	0.50	₹	355.00	₹	177.50
0212	Coolie/Helper	Day	0.50	₹	310.00	₹	155.00
	TOTAL					₹	344.90
	Add for Sundries and contingencies	@	3%			₹	10.35
						₹	355.25
	Add GST (multiplying factor)		0.1405			₹	49.91
						₹	405.16
	Add for contractor's profit and overheads	@	15%			₹	60.77
						₹	465.93
	Add cess	@	1%			₹	4.66
	Cost for 9.00 sqm.					₹	470.59
	Cost for 1 sqm.					₹	52.29
	Rate per sqm (Say)					₹	52.30
21.22	Dismantling bamboo roof frame including unserviceable materials separately with all littengineer-in-charge.	fts and u	pto a lead o				
Code	Description	Unit	Quantity		Rate	Α	mount
	Details of cost for 9.00 sqm.						
	LABOUR:						
0224	Mate	Day	0.06	₹	310.00	₹	18.60
0231	Thetcher	Day	0.80	₹	355.00	₹	284.00
0212	Coolie/Helper	Day	0.80	₹	310.00	₹	248.00
	TOTAL					₹	550.60
	Add for Sundries and contingencies	@	3%	ļ		₹	16.52
						₹	567.12
	Add GST (multiplying factor)		0.1405			₹	79.68
				ļ		₹	646.80
		@	15%			₹	97.02
	Add for contractor's profit and overheads	•					
		•				₹	
	Add cess	@	1%			₹	743.82 7.44
						₹	743.82 7.44 751.26
	Add cess					₹	743.82 7.44 751.26 83.47
	Add cess Cost for 9.00 sqm.					₹	743.82 7.44 751.26

Dismantling bamboo shingle roofing including stacking of serviceable materials and unserviceable materials separately with all lifts and upto a lead of 50 m as directed by the Engineer-in-charge.

Code	Description	Unit	Quantity	Rate		Α	mount
	Details of cost for 9.00metre.						
	LABOUR:						
0224	Mate	Day	0.07	₹	310.00	₹	21.70
0231	Thetcher	Day	0.90	₹	355.00	₹	319.50
0212	Coolie/Helper	Day	0.90	₹	310.00	₹	279.00
	TOTAL					₹	620.20
	Add for Sundries and contingencies	@	3%			₹	18.61
						₹	638.81
	Add GST (multiplying factor)		0.1405			₹	89.75
						₹	728.56
	Add for contractor's profit and overheads	@	15%			₹	109.28
						₹	837.84
	Add cess	@	1%			₹	8.38
	Cost for 9.00 sqm.					₹	846.22
	Cost for 1 sqm.					₹	94.02
	Rate per sqm (Say)					₹	94.00

Dismantling bamboo ridges & hips including stacking of serviceable materials and unserviceable materials separately with all lifts and upto a lead of 50 m as directed by the Engineer-in-charge.

Code	Description	Unit	Quantity		Rate	A	mount
	Details of cost for 9.00 metre.						
	LABOUR:						
0224	Mate	Day	0.01	₹	310.00	₹	3.10
0231	Thetcher	Day	0.15	₹	355.00	₹	53.25
0212	Coolie/Helper	Day	0.15	₹	310.00	₹	46.50
	TOTAL					₹	102.85
	Add for Sundries and contingencies	@	3%			₹	3.09
						₹	105.94
	Add GST (multiplying factor)		0.1405			₹	14.88
						₹	120.82
	Add for contractor's profit and overheads	@	15%			₹	18.12
						₹	138.94
	Add cess	@	1%			₹	1.39
	Cost for 9.00 sqm.					₹	140.33
	Cost for 1 sqm.					₹	15.59
	Rate per sqm (Say)					₹	15.60
	Dismantling all kinds of bamboo ceiling						
21.25	serviceable materials and unserviceable mat 50 m as directed by the Engineer-in-charge.		rately with			pto a	a lead of
21.25 Code	serviceable materials and unserviceable mat					pto a	
	serviceable materials and unserviceable mat 50 m as directed by the Engineer-in-charge.	terials sepa	rately with		fts and u	pto a	a lead of
Code	serviceable materials and unserviceable mat 50 m as directed by the Engineer-in-charge. Description Details of cost for 9.00 sqm. LABOUR:	terials sepa	Quantity		fts and u	pto a	n lead of
Code 0224	serviceable materials and unserviceable materials and unserviceable materials of mass directed by the Engineer-in-charge. Description Details of cost for 9.00 sqm. LABOUR: Mate	Unit Day	Quantity 0.08	all li1	Rate 310.00	pto a	mount 24.80
0224 0231	serviceable materials and unserviceable mat 50 m as directed by the Engineer-in-charge. Description Details of cost for 9.00 sqm. LABOUR: Mate Thetcher	Unit Day Day	Quantity 0.08 1.00	all lif	Rate 310.00 355.00	pto a	24.80 355.00
Code 0224	serviceable materials and unserviceable mat 50 m as directed by the Engineer-in-charge. Description Details of cost for 9.00 sqm. LABOUR: Mate Thetcher Coolie/Helper	Unit Day	Quantity 0.08	all li1	Rate 310.00	pto a	24.80 355.00 310.00
0224 0231	serviceable materials and unserviceable mat 50 m as directed by the Engineer-in-charge. Description Details of cost for 9.00 sqm. LABOUR: Mate Thetcher Coolie/Helper TOTAL	Unit Day Day Day Day	O.08 1.00 1.00	all lif	Rate 310.00 355.00	Pto a	24.80 355.00 310.00 689.80
0224 0231	serviceable materials and unserviceable mat 50 m as directed by the Engineer-in-charge. Description Details of cost for 9.00 sqm. LABOUR: Mate Thetcher Coolie/Helper	Unit Day Day	Quantity 0.08 1.00	all lif	Rate 310.00 355.00	Pto a	24.80 355.00 310.00 689.80 20.69
0224 0231	serviceable materials and unserviceable materials and unserviceable materials and unserviceable materials of materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Add for Sundries and contingencies	Unit Day Day Day Day	Ouantity 0.08 1.00 1.00 3%	all lif	Rate 310.00 355.00	Pto a	24.80 355.00 310.00 689.80 20.69 710.49
0224 0231	serviceable materials and unserviceable mat 50 m as directed by the Engineer-in-charge. Description Details of cost for 9.00 sqm. LABOUR: Mate Thetcher Coolie/Helper TOTAL	Unit Day Day Day Day	O.08 1.00 1.00	all lif	Rate 310.00 355.00	Pto a	24.80 355.00 310.00 689.80 20.69 710.49 99.82
0224 0231	serviceable materials and unserviceable materials and unserviceable materials and unserviceable materials of materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Add for Sundries and contingencies	Unit Day Day Day Day	Ouantity 0.08 1.00 1.00 3%	all lif	Rate 310.00 355.00	Pto a	24.80 355.00 310.00 689.80 20.69 710.49
0224 0231	serviceable materials and unserviceable materials and unserviceable materials and unserviceable materials of materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Add for Sundries and contingencies	Unit Day Day Day Day	Ouantity 0.08 1.00 1.00 3%	all lif	Rate 310.00 355.00	Pto a	24.80 355.00 310.00 689.80 20.69 710.49 99.82 810.31 121.55
0224 0231	serviceable materials and unserviceable materials and unserviceable materials of masterials and unserviceable materials of masterials of cost for 9.00 sqm. LABOUR: Materials of cost for 9.00 sqm. LABOUR: Add of cooling for 9.00 sqm. Add for Sundries and contingencies Add for Contractor's profit and overheads	Unit Day Day Day @ @	0.08 1.00 1.00 3% 0.1405	all lif	Rate 310.00 355.00	Pto a	24.80 355.00 310.00 689.80 20.69 710.49 99.82 810.31 121.55
0224 0231	serviceable materials and unserviceable materials of mass directed by the Engineer-in-charge. Description Details of cost for 9.00 sqm. LABOUR: Mate Thetcher Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	Unit Day Day Day Day ©	0.08 1.00 1.00 3%	all lif	Rate 310.00 355.00	Pto a	24.80 355.00 310.00 689.80 20.69 710.49 99.82 810.31 121.55 931.86
0224 0231	serviceable materials and unserviceable materials of mass directed by the Engineer-in-charge. Description Details of cost for 9.00 sqm. LABOUR: Mate Thetcher Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess Cost for 9.00 sqm.	Unit Day Day Day @ @	0.08 1.00 1.00 3% 0.1405	all lif	Rate 310.00 355.00	Pto a	24.80 355.00 310.00 689.80 20.69 710.49 99.82 810.31 121.55 931.86 9.32 941.18
0224 0231	serviceable materials and unserviceable materials of mass directed by the Engineer-in-charge. Description Details of cost for 9.00 sqm. LABOUR: Mate Thetcher Coolie/Helper TOTAL Add for Sundries and contingencies Add GST (multiplying factor) Add for contractor's profit and overheads Add cess	Unit Day Day Day @ @	0.08 1.00 1.00 3% 0.1405	all lif	Rate 310.00 355.00	Pto a	24.80 355.00 310.00 689.80 20.69 710.49 99.82 810.31 121.55 931.86

1

SUB HEAD : 22.0

RAIN WATER HARVESTING & TUBEWELLS

22.1	Boring/drilling bore well of required prescribed in IS: 2800 (part I), includin and submitting strata chart/ bore log, tools, plants & machineries required fin-charge, upto 90 metre depth below (ig collecting including h or the job,	y samples fro nire & runnir all complete	om different ng charges o	strata, preparing f all equipments,
22.1.1	All types of soil				
22.1.1.1	300 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 35 metre				
	MACHINERY:				
0118	Hydraulic Excavator (3D) with driver and fuel.	day	1.00	₹ 7,200.00	₹ 7,200.00
0116	Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site	day	0.4286	₹ 2,250.00	₹ 964.35
	(assume 140m of bore for one shifting) (2x30)/140				
	Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0203	Beldar	day	4.00	₹ 310.00	₹ 1,240.00
0225	Mistry	day	1.00	₹ 395.00	₹ 395.00
22020	Water supply tanker of 5000 litre Extra labour to assist M/C operator &	each	1.00	₹ 1,000.00	₹ 1,000.00 ₹ 0.00
0203	Beldar	day	2.00	₹ 310.00	₹ 620.00
0203	Chowkidar	day	1.00	₹ 310.00	₹ 310.00
0211	TOTAL	uay	1.00	(010.00	₹ 11,729.35
	Add for Water charges	@	1.0%		₹ 117.29 ₹ 11,846.64
	Add GST (multiplying factor)		0.1405		₹ 1,664.45 ₹ 13,511.09
	Add for contractor's profit and	@	15%		₹ 2,026.66 ₹ 15,537.75
	Add cess	@	1%		₹ 155.38
	Cost of 35 metre				₹ 15,693.13
	Cost of 1 metre				₹ 448.38
	Rate per metre (Say)				₹ 448.40
22.1	Boring/drilling bore well of required prescribed in IS: 2800 (part I), includin and submitting strata chart/ bore log, tools, plants & machineries required fin-charge, upto 90 metre depth below	ig collecting including h or the job,	y samples fro nire & runnir all complete	om different ng charges o	strata, preparing f all equipments,
22.1.1	All types of soil				
22.1.1.2	350 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 32 metre				
	MACHINERY:				
0118	Hydraulic Excavator (3D) with driver and fuel.	day	1.00	₹ 7,200.00	₹ 7,200.00

0116	Hire charges of Diesel Truck - 9 tonne	day	0.4286	₹ 2,250.00	₹ 964.35
	Transportation charges for to and fro to site				
	(assume 140m of bore for one shifting) (2x30)/140				
	Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0203	Beldar	day	4.00	₹ 310.00	₹ 1,240.00
0225	Mistry	day	1.00	₹ 395.00	₹ 395.00
22020	Water supply tanker of 5000 litre capacity	each	1.00	₹ 1,000.00	₹ 1,000.00
	Extra labour to assist M/C operator & security				₹ 0.00
0203	Beldar	day	2.00	₹ 310.00	₹ 620.00
0211	Chowkidar	day	1.00	₹ 310.00	₹ 310.00
	TOTAL				₹ 11,729.35
	Add for Water charges	@	1.0%		₹ 117.29
	111007 (11111 (1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.1.105		₹ 11,846.64
	Add GST (multiplying factor)		0.1405		₹ 1,664.45
	A dal 6 an a sustant and a margin and 6th and 1		4 = 0/		₹ 13,511.09
	Add for contractor's profit and	@	15%		₹ 2,026.66
	Add cocc	@	10/		₹ 15,537.75 ₹ 155.38
	Add cess Cost for 32 metre	w	1%		₹ 15,693.13
	Cost of 1 metre				₹ 15,693.13
					₹ 490.40
	IRate per metre (Sav)				(170.10
22.1	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grants.	g collecting including l or the job,	g samples fro hire & runnii all complete	om different ng charges of	<mark>strata, preparing</mark> f all equipments,
	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, itools, plants & machineries required foin-charge, upto 90 metre depth below g	g collecting including l or the job,	g samples fro hire & runnii all complete	om different ng charges of	<mark>strata, preparing</mark> f all equipments,
22.1.1	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, itools, plants & machineries required foin-charge, upto 90 metre depth below g	g collecting including l or the job,	g samples fro hire & runnii all complete	om different ng charges of	<mark>strata, preparing</mark> f all equipments,
22.1.1 22.1.1.3	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below guinest and sold types of soil	g collecting including or the job, iround leve	g samples fro hire & runnii all complete el.	om different ng charges of as per direc	strata, preparing f all equipments, tion of Engineer-
22.1.1	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, itools, plants & machineries required for in-charge, upto 90 metre depth below good All types of soil 400 mm dia Description	g collecting including l or the job,	g samples fro hire & runnii all complete	om different ng charges of	<mark>strata, preparing</mark> f all equipments,
22.1.1 22.1.1.3	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below good All types of soil 400 mm dia Description Details of cost for 25 metre	g collecting including or the job, iround leve	g samples fro hire & runnii all complete el.	om different ng charges of as per direc	strata, preparing f all equipments, tion of Engineer-
22.1.1 22.1.1.3 Code	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below good All types of soil 400 mm dia Description Details of cost for 25 metre MACHINERY:	g collecting including or the job, pround leve	g samples from the samples of the sa	om differenting charges of as per direct	strata, preparing f all equipments, tion of Engineer-
22.1.1 22.1.1.3 Code	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below good and tools, plants & machineries required for in-charge, upto 90 metre depth below good and tools are straightful to be some straightful to	g collecting including for the job, round level	g samples from the samp	Rate	strata, preparing f all equipments, tion of Engineer- Amount ₹ 7,200.00
22.1.1 22.1.1.3 Code	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below government. All types of soil 400 mm dia Description Details of cost for 25 metre MACHINERY: Hydraulic Excavator (3D) with driver	g collecting including or the job, pround leve	g samples from the samples of the sa	om differenting charges of as per direct	strata, preparing f all equipments, tion of Engineer- Amount ₹ 7,200.00
22.1.1 22.1.1.3 Code	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grand submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grand submitted in process of soil 400 mm dia Description Details of cost for 25 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro	g collecting including for the job, round level	g samples from the samp	Rate	strata, preparing f all equipments, tion of Engineer- Amount ₹ 7,200.00
22.1.1 22.1.1.3 Code	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grade in-charge, upto 90 metre depth below grade in-charge, upto 90 metre depth below grade in-charge, upto 90 metre depth below grade in-charge, upto 90 metre depth below grade in-charge of cost for 25 metre in including including includi	g collecting including for the job, round level	g samples from the samp	Rate	strata, preparing f all equipments, tion of Engineer- Amount ₹ 7,200.00
22.1.1 22.1.1.3 Code 0118	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, itools, plants & machineries required for in-charge, upto 90 metre depth below good and a submitting strata chart/ bore log, itools, plants & machineries required for in-charge, upto 90 metre depth below good and a submitted so with a submitted so with a submitted so with a submitted so with a submitted so with a submitted submitted so with a s	unit	g samples from the samp	Rate ₹ 7,200.00	strata, preparing f all equipments, tion of Engineer- Amount ₹ 7,200.00
22.1.1 22.1.1.3 Code 0118 0116	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, itools, plants & machineries required for in-charge, upto 90 metre depth below good and a submitting strata chart/ bore log, itools, plants & machineries required for in-charge, upto 90 metre depth below good and a submitted strategy of soil. 400 mm dia Description Details of cost for 25 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar	unit day day	g samples from the samp	Rate ₹ 7,200.00 ₹ 2,250.00	strata, preparing f all equipments, tion of Engineer- Amount ₹ 7,200.00 ₹ 964.35
22.1.1 22.1.1.3 Code 0118 0116 0203 0225	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, itools, plants & machineries required for in-charge, upto 90 metre depth below good and a submitting strata chart/ bore log, itools, plants & machineries required for in-charge, upto 90 metre depth below good and a submitted so in-charge, upto 90 metre depth below good and submitted so in-charges of soil and submitted so in-charges of cost for 25 metre submitted so it in the submitted submitted so it in the submitted submi	day day day	g samples from the second seco	Rate ₹ 7,200.00 ₹ 2,250.00 ₹ 310.00 ₹ 395.00	strata, preparing f all equipments, tion of Engineer- Amount ₹ 7,200.00 ₹ 964.35
22.1.1 22.1.1.3 Code 0118 0116	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, itools, plants & machineries required for in-charge, upto 90 metre depth below good and a submitting strata chart/ bore log, itools, plants & machineries required for in-charge, upto 90 metre depth below good and a submitting and submitted in-charges of soil. 400 mm dia Description Details of cost for 25 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre	unit day day	g samples from the samp	Rate ₹ 7,200.00 ₹ 2,250.00	strata, preparing f all equipments, tion of Engineer- Amount ₹ 7,200.00 ₹ 964.35 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00
22.1.1 22.1.1.3 Code 0118 0116 0203 0225 22020	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading. All types of soil 400 mm dia Description Details of cost for 25 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre Extra labour to assist M/C operator &	day day each	Quantity 1.00 0.4286 4.00 1.00 1.00	Rate ₹ 7,200.00 ₹ 2,250.00 ₹ 310.00 ₹ 395.00 ₹ 1,000.00	* 1,240.00 ₹ 1,000.00 ₹ 0.00
22.1.1 22.1.1.3 Code 0118 0116 0203 0225 22020 0203	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading. All types of soil 400 mm dia Description Details of cost for 25 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre Extra labour to assist M/C operator & Beldar	day day each day	Quantity 1.00 0.4286 4.00 1.00 1.00 2.00	Rate ₹ 7,200.00 ₹ 310.00 ₹ 310.00 ₹ 310.00	* 7,200.00 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00 ₹ 0.00 ₹ 620.00
22.1.1 22.1.1.3 Code 0118 0116 0203 0225 22020	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading. All types of soil 400 mm dia Description Details of cost for 25 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre Extra labour to assist M/C operator & Beldar Chowkidar	day day each	Quantity 1.00 0.4286 4.00 1.00 1.00	Rate ₹ 7,200.00 ₹ 2,250.00 ₹ 310.00 ₹ 395.00 ₹ 1,000.00	* 7,200.00 ₹ 7,200.00 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00 ₹ 0.00 ₹ 310.00
22.1.1 22.1.1.3 Code 0118 0116 0203 0225 22020 0203	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading. All types of soil 400 mm dia Description Details of cost for 25 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre Extra labour to assist M/C operator & Beldar Chowkidar TOTAL	day day each day day	Quantity 1.00 1.0	Rate ₹ 7,200.00 ₹ 310.00 ₹ 310.00 ₹ 310.00	* 1,240.00 ₹ 1,240.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00
22.1.1 22.1.1.3 Code 0118 0116 0203 0225 22020 0203	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading. All types of soil 400 mm dia Description Details of cost for 25 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre Extra labour to assist M/C operator & Beldar Chowkidar	day day each day	Quantity 1.00 0.4286 4.00 1.00 1.00 2.00	Rate ₹ 7,200.00 ₹ 310.00 ₹ 310.00 ₹ 310.00	* 1,240.00 * 395.00 * 1,000.00 * 620.00 * 11,729.35 * 117.29
22.1.1 22.1.1.3 Code 0118 0116 0203 0225 22020 0203	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading and submitting strata chart/ bore log, it tools, plants & machineries required for in-charge, upto 90 metre depth below grading. All types of soil 400 mm dia Description Details of cost for 25 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre Extra labour to assist M/C operator & Beldar Chowkidar TOTAL	day day each day day	Quantity 1.00 1.0	Rate ₹ 7,200.00 ₹ 310.00 ₹ 310.00 ₹ 310.00	* 1,240.00 ₹ 1,240.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00 ₹ 1,000.00

	Add for contractor's profit and	@	15%		₹ 2,026.66
			40/		₹ 15,537.75
	Add cess	@	1%		₹ 155.38
	Cost for 25 metre Cost of 1 metre				₹ 15,693.13 ₹ 627.73
	Rate per metre (Say)				₹ 627.70
22.1	Boring/drilling bore well of required	dia for c	ocina/ ctrain	or pipe by	
	prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, upto 90 metre depth below g	g collecting including or the job,	g samples fro hire & runnio all complete	om different ng charges o	<mark>strata, preparing</mark> f all equipments,
22.1.2	Rocky strata including Boulders				
22.1.2.1	300 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 16 metre				
	MACHINERY:				
0118	Hydraulic Excavator (3D) with driver and fuel.	day	0.90	₹ 7,200.00	₹ 6,480.00
01001	Diesel oil	litre	6.00	₹ 68.75	₹ 412.50
	Extra diesel required for boring in rocky strata				
0116	Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site	day	0.4286	₹ 2,250.00	₹ 964.35
	(assume 140m of bore for one shifting) (2x30)/140				
	Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0203	Beldar	day	4.00	₹ 310.00	₹ 1,240.00
0225 22020	Mistry Water supply tanker of 5000 litre capacity	day each	1.00	₹ 395.00 ₹ 1,000.00	₹ 395.00 ₹ 1,000.00
	Extra labour to assist M/C operator & security				₹ 0.00
0238	Rock Hole Driller	day	0.75	₹ 500.00	₹ 375.00
0203	Beldar	day	3.00	₹ 310.00	₹ 930.00
0207	Blacksmith 2nd class	day	0.75	₹ 395.00	₹ 296.25
0211	Chowkidar	day	1.00	₹ 310.00	₹ 310.00
	TOTAL				₹ 12,403.10
	Add for Water charges	@	1.0%		₹ 124.03
					₹ 12,527.13
	Add GST (multiplying factor)		0.1405	ļ	₹ 1,760.06
			4.50:	ļ	₹ 14,287.19
	Add for contractor's profit and	@	15%	 	₹ 2,143.08
	Add cess	@	1%	 	₹ 16,430.27 ₹ 164.30
	Cost for 16 metre	<u>w</u>	1 /0	 	₹ 16,594.57
	Cost of 1 metre			1	₹ 1,037.16
	Rate per metre (Say)			1	₹ 1,037.20
22.1	Boring/drilling bore well of required	dia for c	asing/ strain	er pine by	
	prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, upto 90 metre depth below g	g collecting including or the job,	g samples fro hire & runnio all complete	om different ng charges o	<mark>strata, preparing</mark> f all equipments,

22.1.2	Rocky strata including Boulders				
22.1.2.2	350 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 16 metre				
	MACHINERY:				
0118	Hydraulic Excavator (3D) with driver and fuel.	day	0.90	₹ 7,200.00	₹ 6,480.00
01001	Diesel oil	litre	8.00	₹ 68.75	₹ 550.00
	Extra diesel required for boring in rocky strata				
0116	Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site	day	0.4286	₹ 2,250.00	₹ 964.35
	(assume 140m of bore for one shifting) (2x30)/140				
	Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0203 0225	Beldar	day	4.00	₹ 310.00	₹ 1,240.00
22020	Mistry Water supply tanker of 5000 litre	<u>day</u> each	1.00 1.00	₹ 395.00 ₹ 1,000.00	₹ 395.00 ₹ 1,000.00
22020	capacity	еасп	1.00	X 1,000.00	·
	Extra labour to assist M/C operator & security				₹ 0.00
0238	Rock Hole Driller	day	1.00	₹ 500.00	₹ 500.00
0203	Beldar	day	4.00	₹ 310.00	₹ 1,240.00
0207	Blacksmith 2nd class	day	0.75	₹ 395.00	₹ 296.25
0211	Chowkidar TOTAL	day	1.00	₹ 310.00	₹ 310.00
	Add for Water charges	@	1.0%		₹ 12,975.60 ₹ 129.76
	rida rei matei emangee		1.070		₹ 13,105.36
	Add GST (multiplying factor)		0.1405		₹ 1,841.30
	Add Company of the second		450/		₹ 14,946.66 ₹ 2.242.00
	Add for contractor's profit and	@	15%		₹ 2,242.00 ₹ 17,188.66
	Add cess	@	1%		₹ 17,188.89
	Cost for 16 metre		. ,,,		₹ 17,360.55
	Cost of 1 metre				₹ 1,085.03
	Rate per metre (Say)				₹ 1,085.00
22.1	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, upto 90 metre depth below g	g collecting including l or the job,	g samples froning all complete	om different ng charges o	strata, preparing f all equipments,
22.1.2	Rocky strata including Boulders				
22.1.2.3	400 mm dia	11!*	Overstite	Date	A res = 1 = 1
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 16 metre				
0118	MACHINERY: Hydraulic Excavator (3D) with driver and fuel.	day	0.90	₹ 7,200.00	₹ 6,480.00
01001	Diesel oil	litre	16.00	₹ 68.75	₹ 1,100.00
	Extra diesel required for boring in rocky strata				

0116	Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site	day	0.4286	₹ 2,250.00	₹ 964.35
	(assume 140m of bore for one shifting) (2x30)/140				
	Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0203	Beldar	day	4.00	₹ 310.00	₹ 1,240.00
0225	Mistry	day	1.00	₹ 395.00	₹ 395.00
22020	Water supply tanker of 5000 litre capacity	each	1.00	₹ 1,000.00	₹ 1,000.00
	Extra labour to assist M/C operator & security				₹ 0.00
0238	Rock Hole Driller	day	1.20	₹ 500.00	₹ 600.00
0203	Beldar	day	8.00	₹ 310.00	₹ 2,480.00
0207	Blacksmith 2nd class	day	0.75	₹ 395.00	₹ 296.25
0211	Chowkidar	day	1.00	₹ 310.00	₹ 310.00
	TOTAL	•			₹ 14,865.60
	Add for Water charges	@	1.0%		₹ 148.66
					₹ 15,014.26
	Add GST (multiplying factor)		0.1405		₹ 2,109.50
					₹ 17,123.76
	Add for contractor's profit and	@	15%		₹ 2,568.56
					₹ 19,692.32
	Add cess	@	1%		₹ 196.92
	Cost for 16 metre				₹ 19,889.24
	Cost of 1 metre				₹ 1,243.08
					3 4 2 4 2 4 2
22.2	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for	g collecting including l or the job, a	g samples froning samples fron a line & running sall complete	om different ng charges o as per direct	suitable method strata, preparing f all equipments,
22.2	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log,	g collecting including l or the job, a	g samples froning samples fron a line & running sall complete	om different ng charges o as per direct	<mark>strata, preparing</mark> f all equipments,
22.2	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for	g collecting including l or the job, a	g samples froning samples fron a line & running sall complete	om different ng charges o as per direct	suitable method strata, preparing f all equipments,
22.2.1	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150	g collecting including l or the job, a	g samples froning samples fron a line & running sall complete	om different ng charges o as per direct	suitable method strata, preparing f all equipments,
	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia	g collecting including l or the job, a	g samples fronire & running all complete oth below gro	om different ng charges o as per direct	suitable method strata, preparing f all equipments,
22.2.1 22.2.1.1	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia Description	g collecting including I or the job, a metre dep	g samples froning samples fron a line & running sall complete	om different ng charges o as per direct ound level.	suitable method strata, preparing f all equipments, ion of Engineer -
22.2.1 22.2.1.1	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia Description Details of cost for 30 metre	g collecting including I or the job, a metre dep	g samples fronire & running all complete oth below gro	om different ng charges o as per direct ound level.	suitable method strata, preparing f all equipments, ion of Engineer -
22.2.1 22.2.1.1	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY: Hydraulic Excavator (3D) with driver	g collecting including I or the job, a metre dep	g samples fronire & running all complete oth below gro	om different ng charges o as per direct ound level.	suitable method strata, preparing f all equipments, ion of Engineer - Amount
22.2.1 22.2.1.1 Code	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY:	g collecting including I or the job, a metre dep	g samples from the samples of the sa	om differenting charges of as per directound level. Rate	suitable method strata, preparing f all equipments, ion of Engineer - Amount
22.2.1 22.2.1.1 Code	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro	g collecting including her the job, a metre dep	Q samples from the all complete of the below growth growth below growth below growth below growth below growth	Rate ₹ 7,200.00	suitable method strata, preparing f all equipments, ion of Engineer - Amount
22.2.1 22.2.1.1 Code	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine	g collecting including her the job, a metre dep	Q samples from the all complete of the below growth growth below growth below growth below growth below growth	Rate ₹ 7,200.00	suitable method strata, preparing f all equipments, ion of Engineer - Amount
22.2.1.1 Code 0118	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR	g collecting including her the job, a metre deporture day day	Quantity 1.00 0.4286	Rate ₹ 7,200.00	suitable method strata, preparing f all equipments, ion of Engineer - Amount ₹ 7,200.00
22.2.1.1 Code 0118 0116	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar	g collecting including her the job, a metre deporture day day	Quantity 1.00 0.4286	Rate ₹ 2,250.00	suitable method strata, preparing f all equipments, ion of Engineer - Amount ₹ 7,200.00
22.2.1.1 Code 0118	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre	g collecting including her the job, a metre deporture day day	Quantity 1.00 0.4286	Rate ₹ 7,200.00	suitable method strata, preparing f all equipments, ion of Engineer - ₹ 7,200.00 ₹ 964.35
22.2.1 22.2.1.1 Code 0118 0116	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator &	g collecting including her the job, a metre deporture day day day	Quantity 1.00 0.4286 4.00 1.00	Rate ₹ 310.00 ₹ 395.00	suitable method strata, preparing f all equipments, ion of Engineer - ₹ 7,200.00 ₹ 964.35 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00
22.2.1 22.2.1.1 Code 0118 0116 0203 0225 22020	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 1500 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	day each	Quantity 1.00 0.4286 4.00 1.00 1.00	Rate ₹ 7,200.00 ₹ 310.00 ₹ 1,000.00	suitable method strata, preparing f all equipments, ion of Engineer - ₹ 7,200.00 ₹ 964.35 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00
22.2.1 22.2.1.1 Code 0118 0116 0203 0225 22020	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 1500 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security Beldar	day day each	Quantity 1.00 0.4286 4.00 1.00 1.00 2.00	Rate ₹ 310.00 ₹ 310.00 ₹ 310.00	* 1,240.00 * 1,000.00 * 0.00 * 620.00
22.2.1 22.2.1.1 Code 0118 0116 0203 0225 22020	Rate per metre (Say) Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 1500 All types of soil 300 mm dia Description Details of cost for 30 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	day each	Quantity 1.00 0.4286 4.00 1.00 1.00	Rate ₹ 7,200.00 ₹ 310.00 ₹ 1,000.00	Suitable method strata, preparing f all equipments ion of Engineer • ₹ 7,200.00 ₹ 7,200.00 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00

	Add for Water charges	@	1.0%		₹ 117.29
	<u> </u>				₹ 11,846.64
	Add GST (multiplying factor)		0.1405		₹ 1,664.45
					₹ 13,511.09
	Add for contractor's profit and	@	15%		₹ 2,026.66
					₹ 15,537.75
	Add cess	@	1%		₹ 155.38
	Cost for 30 metre				₹ 15,693.13
	Cost of 1 metre				₹ 523.10
	Rate per metre (Say)				₹ 523.10
22.2	Boring/drilling bore well of required prescribed in IS: 2800 (part I), includin and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150	g collecting including or the job,	g samples fro hire & runni all complete	om different ng charges o as per direct	<mark>strata, preparing</mark> f all equipments,
22.2.1	All types of soil				
22.2.1.2	350 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 27 metre				
			+	1	
0110	MACHINERY:	-1	1.00	7 7 000 00	7 7 000 00
0118	Hydraulic Excavator (3D) with driver and fuel.	day	1.00	₹ 7,200.00	₹ 7,200.00
0116	Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site	day	0.4286	₹ 2,250.00	₹ 964.35
	(assume 140m of bore for one shifting) (2x30)/140				
	Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR		1.00	7.010.00	7.1.0.10.00
0203	Beldar	day	4.00	₹ 310.00	₹ 1,240.00
0225	Mistry	day	1.00	₹ 395.00	₹ 395.00
22020	Water supply tanker of 5000 litre capacity	each	1.00	₹ 1,000.00	₹ 1,000.00
	Extra labour to assist M/C operator & security				₹ 0.00
0203	Beldar	day	2.00	₹ 310.00	₹ 620.00
0211	Chowkidar	day	1.00	₹ 310.00	₹ 310.00
0211	TOTAL	auy	1.00	(010.00	₹ 11,729.35
	Add for Water charges	@	1.0%		₹ 117.29
	riad re. Trater enal gee		1.070		₹ 11,846.64
	Add GST (multiplying factor)		0.1405		₹ 1,664.45
	riad es : (mannpr) mg raster)		000		₹ 13,511.09
	Add for contractor's profit and	@	15%	1	₹ 2,026.66
	co		1.570	1	₹ 15,537.75
	Add cess	@	1%		₹ 155.38
	Cost for 27 metre		1		₹ 15,693.13
	Cost of 1 metre				₹ 581.23
	Rate per metre (Say)		1		₹ 581.20
22.2	Boring/drilling bore well of required prescribed in IS: 2800 (part I), includin and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150	g collecting including or the job,	g samples fro hire & runni all complete	om different ng charges o as per direct	suitable method strata, preparing f all equipments,
22.2.1	All types of soil				
22.Z. I	All types of soll				

22.2.1.3	400 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 20 metre				
	MACHINERY:				
0118	Hydraulic Excavator (3D) with driver and fuel.	day	1.00	₹ 7,200.00	₹ 7,200.00
0116	Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting)	day	0.4286	₹ 2,250.00	₹ 964.35
	(2x30)/140 Loading, unloading & Errection charges				
	of drilling Rig Machine				
0202	LABOUR	-l	4.00	¥ 210 00	¥ 1 0 4 0 0 0
0203 0225	Beldar Mistry	day	4.00 1.00	₹ 310.00 ₹ 395.00	₹ 1,240.00
22020	Water supply tanker of 5000 litre capacity	day each	1.00	₹ 1,000.00	₹ 395.00 ₹ 1,000.00
	Extra labour to assist M/C operator & security				₹ 0.00
0203	Beldar	day	2.00	₹ 310.00	₹ 620.00
0211	Chowkidar	day	1.00	₹ 310.00	₹ 310.00
	TOTAL		1.00/		₹ 11,729.35
	Add for Water charges	@	1.0%		₹ 117.29
	Add CCT (southing being a factor)		0.1.105		₹ 11,846.64
	Add GST (multiplying factor)		0.1405		₹ 1,664.45
	Add for contractor's profit and	@	15%		₹ 13,511.09 ₹ 2,026.66
	Add for contractor's profit and	<u> </u>	1376		₹ 2,020.00 ₹ 15,537.75
	Add cess	@	1%		₹ 155.38
	Cost for 20 metre		170		₹ 15,693.13
	Cost of 1 metre				₹ 784.66
	Rate per metre (Say)		1		₹ 784.70
	prescribed in IS: 2800 (part I), includin and submitting strata chart/ bore log, tools, plants & machineries required for in-charge, beyond 90 metre & upto 150	including or the job,	hire & running all complete	<mark>ng charges o</mark> as per direct	f all equipments,
22.2.2	Rocky strata including Boulders				
22.2.2.1	300 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 16 metre		<u> </u>		
	MACHINERY :				
0118	Hydraulic Excavator (3D) with driver and fuel.	day	0.90	₹ 7,200.00	₹ 6,480.00
01001	Diesel oil	litre	10.00	₹ 68.75	₹ 687.50
	Extra diesel required for boring in rocky strata				
0116	Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro	day	0.4286	₹ 2,250.00	₹ 964.35
	to site				
	,				
	to site (assume 140m of bore for one shifting)				

0203	Beldar	day	4.00	₹ 310.00	₹ 1,240.00
0205	Mistry	day	1.00	₹ 395.00	₹ 395.00
22020	Water supply tanker of 5000 litre capacity	each	1.00	₹ 1,000.00	₹ 1,000.00
	Extra labour to assist M/C operator & security				₹ 0.00
0238	Rock Hole Driller	day	1.00	₹ 500.00	₹ 500.00
0203	Beldar	day	5.00	₹ 310.00	₹ 1,550.00
0207	Blacksmith 2nd class	day	0.70	₹ 395.00	₹ 276.50
0211	Chowkidar	day	1.00	₹ 310.00	₹ 310.00
	TOTAL				₹ 13,403.35
	Add for Water charges	@	1.0%		₹ 134.03
	1		0.1.105		₹ 13,537.38
	Add GST (multiplying factor)		0.1405		₹ 1,902.00
	Add for contractorio profit and		1		₹ 15,439.38
	Add for contractor's profit and	@	15%		₹ 2,315.91 ₹ 17,755.29
	Add cess	@	1%		₹ 17,755.29 ₹ 177.55
	Cost for 16 metre	<u> </u>	1 70		₹ 17,932.84
	Cost of 1 metre				₹ 1,120.80
	Rate per metre (Say)				₹ 1,120.80
22.2	Boring/drilling bore well of required prescribed in IS: 2800 (part I), includin				
	and submitting strata chart/ bore log,				
	tools, plants & machineries required for				ion of Engineer -
	in-charge, beyond 90 metre & upto 150	metre dep	th below gro	ound level.	
22.2.2	Rocky strata including Boulders				
22.2.2 22.2.2.2	Rocky strata including Boulders 350 mm dia				
		Unit	Quantity	Rate	Amount
22.2.2.2	350 mm dia	Unit	Quantity	Rate	Amount
22.2.2.2	350 mm dia Description Details of cost for 16 metre	Unit	Quantity	Rate	Amount
22.2.2.2 Code	350 mm dia Description Details of cost for 16 metre MACHINERY:				
22.2.2.2	350 mm dia Description Details of cost for 16 metre	Unit day	Quantity 0.90	Rate ₹ 7,200.00	Amount ₹ 6,480.00
22.2.2.2 Code 0118	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel.	day	0.90	₹ 7,200.00	₹ 6,480.00
22.2.2.2 Code	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil				
22.2.2.2 Code 0118	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata	day	0.90	₹ 7,200.00	₹ 6,480.00
22.2.2.2 Code 0118	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne	day	0.90	₹ 7,200.00	₹ 6,480.00
22.2.2.2 Code 0118	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro	day litre	0.90	₹ 7,200.00 ₹ 68.75	₹ 6,480.00
22.2.2.2 Code 0118	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne	day litre	0.90	₹ 7,200.00 ₹ 68.75	₹ 6,480.00
22.2.2.2 Code 0118	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting)	day litre	0.90	₹ 7,200.00 ₹ 68.75	₹ 6,480.00
22.2.2.2 Code 0118	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140	day litre	0.90	₹ 7,200.00 ₹ 68.75	₹ 6,480.00
22.2.2.2 Code 0118	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges	day litre	0.90	₹ 7,200.00 ₹ 68.75	₹ 6,480.00
22.2.2.2 Code 0118	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine	day litre	0.90	₹ 7,200.00 ₹ 68.75	₹ 6,480.00
22.2.2.2 Code 0118 01001	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR	day litre day	0.90 12.00 0.4286	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35
22.2.2.2 Code 0118 01001 0116	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar	day litre day	0.90 12.00 0.4286	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35
22.2.2.2 Code 0118 01001 0116	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry	day litre day day day	0.90 12.00 0.4286 4.00 1.00	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00 ₹ 310.00 ₹ 395.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35
22.2.2.2 Code 0118 01001 0116	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre	day litre day	0.90 12.00 0.4286	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35
22.2.2.2 Code 0118 01001 0116	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity	day litre day day day	0.90 12.00 0.4286 4.00 1.00	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00 ₹ 310.00 ₹ 395.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00
22.2.2.2 Code 0118 01001 0116	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator &	day litre day day day	0.90 12.00 0.4286 4.00 1.00	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00 ₹ 310.00 ₹ 395.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35
0203 0203 0205 22020	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	day litre day day day each	0.90 12.00 0.4286 4.00 1.00	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00 ₹ 310.00 ₹ 395.00 ₹ 1,000.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00
22.2.2.2 Code 0118 01001 0116	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator &	day litre day day day	0.90 12.00 0.4286 4.00 1.00	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00 ₹ 310.00 ₹ 395.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00
0118 01001 0116 0203 0225 22020	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	day litre day day day each	0.90 12.00 0.4286 4.00 1.00	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00 ₹ 310.00 ₹ 395.00 ₹ 1,000.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00
0118 01001 0116 0203 0225 22020	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security Rock Hole Driller	day litre day day day each	0.90 12.00 0.4286 4.00 1.00 1.00	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00 ₹ 310.00 ₹ 395.00 ₹ 1,000.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00 ₹ 500.00 ₹ 500.00 ₹ 1,860.00 ₹ 296.25
22.2.2.2 Code 0118 01001 0116 0203 0225 22020 0238 0203	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security Rock Hole Driller Beldar Blacksmith 2nd class Chowkidar	day litre day day day each day	0.90 12.00 0.4286 4.00 1.00 1.00	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00 ₹ 310.00 ₹ 395.00 ₹ 1,000.00 ₹ 500.00 ₹ 310.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00 ₹ 0.00 ₹ 500.00 ₹ 1,860.00 ₹ 296.25 ₹ 310.00
22.2.2.2 Code 0118 01001 0116 0203 0225 22020 0238 0203 0207	Description Details of cost for 16 metre MACHINERY: Hydraulic Excavator (3D) with driver and fuel. Diesel oil Extra diesel required for boring in rocky strata Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2x30)/140 Loading, unloading & Errection charges of drilling Rig Machine LABOUR Beldar Mistry Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security Rock Hole Driller Beldar Blacksmith 2nd class	day litre day day each day day day day day	0.90 12.00 0.4286 4.00 1.00 1.00 1.00 6.00 0.75	₹ 7,200.00 ₹ 68.75 ₹ 2,250.00 ₹ 310.00 ₹ 395.00 ₹ 1,000.00 ₹ 310.00 ₹ 395.00	₹ 6,480.00 ₹ 825.00 ₹ 964.35 ₹ 1,240.00 ₹ 395.00 ₹ 1,000.00 ₹ 500.00 ₹ 500.00

	1		1] ₹	14,009.3
	Add GST (multiplying factor)		0.1405		₹	1,968.3
	riad Got (marriprymig radioly		0.1100		₹	15,977.6
	Add for contractor's profit and	@	15%		₹	2,396.6
					₹	18,374.2
	Add cess	@	1%		₹	183.7
	Cost for 16 metre					₹ 18,558.0
	Cost of 1 metre					₹ 1,159.8
	Rate per metre (Say)					₹ 1,159.90
22.2	Boring/drilling bore well of required prescribed in IS: 2800 (part I), including and submitting strata chart/ bore log, tools, plants & machineries required fo in-charge, beyond 90 metre & upto 150	g collecting including r the job,	g samples fro hire & runni all complete	om different ng charges o as per direct	strat f all	ta, preparing equipments
22.2.2	Rocky strata including Boulders					
22.2.2.3	400 mm dia					
Code	Description	Unit	Quantity	Rate	Π	Amount
	Details of cost for 14 metre		- Cuarring	rato		711104111
0110	MACHINERY:	-l	0.05	3.7.000.00		3 (0.40 0)
0118	Hydraulic Excavator (3D) with driver and fuel.	day	0.95	₹ 7,200.00		₹ 6,840.00
01001	Diesel oil	litre	16.00	₹ 68.75		₹ 1,100.00
	Extra diesel required for boring in rocky strata					
0116	Hire charges of Diesel Truck - 9 tonne Transportation charges for to and fro to site	day	0.4286	₹ 2,250.00		₹ 964.3!
	(assume 140m of bore for one shifting) (2x30)/140					
	Loading, unloading & Errection charges of drilling Rig Machine					
	LABOUR					
0203	Beldar	day	4.00	₹ 310.00		₹ 1,240.00
0225	Mistry	day	1.00	₹ 395.00		₹ 395.00
22020	Water supply tanker of 5000 litre capacity	each	1.00	₹ 1,000.00		₹ 1,000.00
	Extra labour to assist M/C operator & security					₹ 0.00
0238	Rock Hole Driller	day	1.20	₹ 500.00		₹ 600.00
0203	Beldar	day	8.00	₹ 310.00		₹ 2,480.00
0207	Blacksmith 2nd class	day	1.00	₹ 395.00		₹ 395.00
0207	Chowkidar	day	1.00	₹ 310.00		₹ 310.00
	TOTAL	aa y	1.00	. 5 . 5 . 5 . 5		₹ 15,324.3
	Add for Water charges	@	1.0%		₹	153.2
	1 1 1 1 1 1				₹	15,477.5
	Add GST (multiplying factor)		0.1405		₹	2,174.6
	Add for contractor's profit and	@	15%	1	₹	17,652.1 2,647.8
	Add for contractor's profit and	w	13/0		₹	20,300.0
	Add cess	@	1%		₹	20,300.0
	Cost for 14 metre	<u> </u>	1 /0	 	H	₹ 20,503.0
	Cost for 14 metre Cost of 1 metre			+		
	Rate per metre (Say)		+	-		₹ 1,464.5 ₹ 1,464.5

22.3	Supplying, assembling, lowering and f PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge.	f required	l dia, confori	ming to IS:	12818, including
22.3.1	100 mm nominal size dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 metres		<u> </u>		
	MATERIAL:				
22015	uPVC blind pipe 100 mm dia as per IS: 12818	metre	100.00	₹ 480.00	₹ 48,000.00
0456	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	0.50	₹ 251.98	₹ 125.99
	Qty = 50 to consider 50% of carriage as per 2321				
	LABOUR:				
0203	Beldar	day	0.50	₹ 310.00	₹ 155.00
0212	Coolie	day	0.50	₹ 310.00	₹ 155.00
	TOTAL				₹ 48,435.99
	Add for Water charges	@	1.0%		₹ 484.36
					₹ 48,920.35
	Add GST (multiplying factor)		0.1405		₹ 6,873.31
			1		₹ 55,793.66
	Add for contractor's profit and	@	15%		₹ 8,369.05
					₹ 64,162.71
		@	1%		₹ 641.63
	Add cess				
	Cost for 100 metre				₹ 64,804.34
22.3	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of the control of the co	ixing in ve	l dia, confori	ming to IS:	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including
22.3	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f	ixing in ve	l dia, confori	ming to IS:	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including
22.3	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f PVC medium well casing (CM) pipe of required hire and labour charges, fitting	ixing in ve	l dia, confori	ming to IS:	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including
22.3.2	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia	ixing in ve of required ngs & acce	I dia, confori ssories etc. a	ming to IS:	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as
	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description	ixing in ve	l dia, confori	ming to IS:	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including
22.3.2	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres	ixing in ve of required ngs & acce	I dia, confori ssories etc. a	ming to IS:	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as
22.3.2 Code	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL:	ixing in ventor required ags & accessor	Quantity	Rate	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as
22.3.2 Code 22003	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818	ixing in verif required ngs & access Unit	Quantity 100.00	Rate ₹ 555.00	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as Amount
22.3.2 Code	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia	ixing in ventor required ags & accessor	Quantity	Rate	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as Amount
22.3.2 Code 22003	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Qty = 50 to consider 50% of carriage as per 2321	Unit metre	Quantity 100.00	Rate ₹ 555.00	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR:	Unit metre 100 metre	Quantity 100.00 0.50	Rate ₹ 555.00	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as Amount ₹ 55,500.00
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: Beldar	Unit metre 100 metre	Quantity 100.00 0.50	Rate ₹ 555.00 ₹ 419.97	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as Amount ₹ 55,500.00 ₹ 209.99
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: Beldar Coolie	Unit metre 100 metre	Quantity 100.00 0.50	Rate ₹ 555.00	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as Amount ₹ 55,500.00 ₹ 209.99
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: Beldar Coolie TOTAL	Unit metre 100 metre day day	Quantity 100.00 0.50 0.50 0.50	Rate ₹ 555.00 ₹ 419.97	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as Amount ₹ 55,500.00 ₹ 155.00 ₹ 155.00 ₹ 56,019.99
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: Beldar Coolie	Unit metre 100 metre	Quantity 100.00 0.50	Rate ₹ 555.00 ₹ 419.97	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as Amount ₹ 55,500.00 ₹ 209.99 ₹ 155.00 ₹ 155.00 ₹ 56,019.99 ₹ 560.20
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: Beldar Coolie TOTAL	Unit metre 100 metre day day	Quantity 100.00 0.50 0.50 0.50	Rate ₹ 555.00 ₹ 419.97	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as ₹ 55,500.00 ₹ 209.99 ₹ 155.00 ₹ 155.00 ₹ 56,019.99 ₹ 560.20 ₹ 56,580.19 ₹ 7,949.52
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: Beldar Coolie TOTAL Add for Water charges Add GST (multiplying factor)	Unit metre 100 metre day day	Quantity 100.00 0.50 0.50 1.0%	Rate ₹ 555.00 ₹ 419.97	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as ₹ 55,500.00 ₹ 209.99 ₹ 155.00 ₹ 155.00 ₹ 56,019.99 ₹ 560.20 ₹ 56,580.19 ₹ 7,949.52 ₹ 64,529.71
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: Beldar Coolie TOTAL Add for Water charges	Unit metre 100 metre day day @	Quantity 100.00 0.50 0.50 1.0% 0.1405	Rate ₹ 555.00 ₹ 419.97	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as ₹ 55,500.00 ₹ 209.99 ₹ 155.00 ₹ 155.00 ₹ 56,019.99 ₹ 56,020 ₹ 56,580.19 ₹ 7,949.52 ₹ 64,529.71 ₹ 9,679.46
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: Beldar Coolie TOTAL Add for Water charges Add GST (multiplying factor)	Unit metre 100 metre day day @	Quantity 100.00 0.50 0.50 1.0% 0.1405	Rate ₹ 555.00 ₹ 419.97	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as ₹ 55,500.00 ₹ 209.99 ₹ 155.00 ₹ 155.00 ₹ 155.00 ₹ 56,019.99 ₹ 56,020 ₹ 56,580.19 ₹ 7,949.52 ₹ 64,529.71 ₹ 9,679.46
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: UPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Oty = 50 to consider 50% of carriage as per 2321 LABOUR: Beldar Coolie TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and	Unit Metre day day @ @	Quantity 100.00 0.50 0.50 1.0% 0.1405 15%	Rate ₹ 555.00 ₹ 419.97	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as ₹ 55,500.00 ₹ 55,500.00 ₹ 155.00 ₹ 155.00 ₹ 56,019.99 ₹ 56,019.99 ₹ 56,580.19 ₹ 7,949.52 ₹ 64,529.71 ₹ 9,679.46 ₹ 74,209.17
22.3.2 Code 22003 0458	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge. 150 mm nominal size dia Description Details of cost for 100 metres MATERIAL: UPVC blind pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 150 mm dia Oty = 50 to consider 50% of carriage as per 2321 LABOUR: Beldar Coolie TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and	Unit Metre day day @ @	Quantity 100.00 0.50 0.50 1.0% 0.1405 15%	Rate ₹ 555.00 ₹ 419.97	₹ 648.04 ₹ 648.00 ell, unplasticized 12818, including for all depths, as ₹ 55,500.00 ₹ 55,500.00 ₹ 155.00 ₹ 155.00 ₹ 56,019.99 ₹ 56,019.99 ₹ 56,580.19 ₹ 7,949.52 ₹ 64,529.71 ₹ 9,679.46 ₹ 74,209.17 ₹ 742.09

22.3	Supplying, assembling, lowering and for PVC medium well casing (CM) pipe of required hire and labour charges, fitting per direction of Engineer -in-charge.	of required	dia, confort	ming to IS:	12818, including
22.3.3	200 mm nominal size dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 100 metres				
	MATERIAL :				
22004	uPVC blind pipe 200 mm dia as per IS: 12818	metre	100.00	₹ 855.00	₹ 85,500.00
0459	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	0.50	₹ 681.03	₹ 340.52
	Qty = 50 to consider 50% of carriage as per 2321				
	LABOUR :				
0203	Beldar	day	0.50	₹ 310.00	₹ 155.00
0212	Coolie	day	0.50	₹ 310.00	₹ 155.00
	TOTAL		4.00/		₹ 86,150.52
	Add for Water charges	@	1.0%		₹ 861.51
	Add GST (multiplying factor)		0.1405		₹ 87,012.03 ₹ 12,225.19
	Add G31 (multiplying factor)		0.1405		₹ 99,237.22
	Add for contractor's profit and	@	15%		₹ 14,885.58
	Add for contractor 3 profit and		1070		₹ 1,14,122.80
	Add cess	@	1%		₹ 1,141.23
	Aud cess				
					1,10,204.03
	Cost for 100 metre Cost of 1 metre				₹ 1,15,264.03 ₹ 1,152.64
22.4	Cost for 100 metre				₹ 1,152.64 ₹ 1,152.60 rell unplasticized
22.4	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and to	with ribs, o	conforming t	o IS: 12818,	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire &
	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia	with ribs, o	conforming t	o IS: 12818,	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire &
22.4.1	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and 1 PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description	with ribs, o	conforming t	o IS: 12818, II depths, as	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of
22.4.1	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and 1 PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres	with ribs, o	conforming t	o IS: 12818, II depths, as	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of
22.4.1	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and 1 PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description	with ribs, o	conforming t	o IS: 12818, II depths, as	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of
22.4.1 Code	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per	with ribs, of etc. all cor	Quantity	Rate	₹ 1,152.64 ₹ 1,152.60 yell unplasticized including hire & per direction of Amount ₹ 51,500.00
22.4.1 Code 22016	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100	Unit metre	Quantity 100.00	Rate ₹ 515.00	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount
22.4.1 Code 22016	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as	Unit metre	Quantity 100.00	Rate ₹ 515.00	₹ 1,152.64 ₹ 1,152.60 yell unplasticized including hire & per direction of Amount ₹ 51,500.00
22.4.1 Code 22016	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321	Unit metre	Quantity 100.00	Rate ₹ 515.00	₹ 1,152.64 ₹ 1,152.60 yell unplasticized including hire & per direction of Amount ₹ 51,500.00
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie	Unit metre 100 metre	Quantity 100.00 0.50	Rate ₹ 515.00	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 125.99
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.)	Unit metre 100 metre	Quantity 100.00 0.50	Rate ₹ 515.00 ₹ 251.98	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 155.00 ₹ 155.00 ₹ 30.00
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and pyc medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL	Unit metre 100 metre day day L.S.	Quantity 100.00 0.50 0.50 0.50	Rate ₹ 515.00 ₹ 251.98	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 155.00 ₹ 155.00 ₹ 30.00 ₹ 51,965.99
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.)	Unit metre 100 metre day day	Quantity 100.00 0.50	Rate ₹ 515.00 ₹ 251.98	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 125.99 ₹ 155.00 ₹ 30.00 ₹ 51,965.99 ₹ 519.66
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges	Unit metre 100 metre day day L.S.	Quantity 100.00 0.50 0.50 1.0%	Rate ₹ 515.00 ₹ 251.98	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 125.99 ₹ 155.00 ₹ 30.00 ₹ 51,965.99 ₹ 51,966.99
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and pyc medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL	Unit metre 100 metre day day L.S.	Quantity 100.00 0.50 0.50 0.50	Rate ₹ 515.00 ₹ 251.98	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 125.99 ₹ 155.00 ₹ 30.00 ₹ 51,965.99 ₹ 51,966.99 ₹ 52,485.65 ₹ 7,374.23
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges Add GST (multiplying factor)	unit Unit metre 100 metre day day L.S.	Quantity 100.00 0.50 0.50 1.0% 0.1405	Rate ₹ 515.00 ₹ 251.98	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 125.99 ₹ 155.00 ₹ 155.00 ₹ 30.00 ₹ 51,965.99 ₹ 51,965.99 ₹ 52,485.65 ₹ 7,374.23 ₹ 59,859.88
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges	Unit metre 100 metre day day L.S.	Quantity 100.00 0.50 0.50 1.0%	Rate ₹ 515.00 ₹ 251.98	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 125.99 ₹ 155.00 ₹ 155.00 ₹ 155.00 ₹ 51,965.99 ₹ 519.66 ₹ 52,485.65 ₹ 7,374.23 ₹ 59,859.88 ₹ 8,978.98
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges Add GST (multiplying factor)	unit Unit metre 100 metre day day L.S.	Quantity 100.00 0.50 0.50 1.0% 0.1405	Rate ₹ 515.00 ₹ 251.98	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 125.99 ₹ 155.00 ₹ 155.00 ₹ 30.00 ₹ 51,965.99 ₹ 52,485.65 ₹ 7,374.23 ₹ 59,859.88 ₹ 8,978.98
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and a PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and	with ribs, of etc. all corrected and the etc. al	Quantity 100.00 0.50 0.50 1.0% 0.1405	Rate ₹ 515.00 ₹ 251.98	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 125.99 ₹ 155.00 ₹ 155.00 ₹ 30.00 ₹ 51,965.99 ₹ 52,485.65 ₹ 7,374.23 ₹ 59,859.88 ₹ 8,978.98 ₹ 68,838.86
22.4.1 Code 22016 0456	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 100 mm nominal size dia Description Details of cost for 100 metres MATERIAL: UPVC slotted pipe 100 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 100 mm dia Oty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess	with ribs, of etc. all corrected and the etc. al	Quantity 100.00 0.50 0.50 1.0% 0.1405	Rate ₹ 515.00 ₹ 251.98	₹ 1,152.64 ₹ 1,152.60 rell unplasticized including hire & per direction of Amount ₹ 51,500.00 ₹ 125.99 ₹ 155.00 ₹ 155.00 ₹ 155.00 ₹ 30.00 ₹ 51,965.99 ₹ 52,485.65 ₹ 7,374.23 ₹ 59,859.88 ₹ 8,978.98 ₹ 68,838.86 ₹ 688.39

22.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.						
22.4.2	150 mm nominal size dia						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 100 metres						
	MATERIAL :						
22009	uPVC slotted pipe 150 mm dia as per IS: 12818	metre	100.00	₹ 585.00	₹ 58,500.00		
0458	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	0.50	₹ 419.97	₹ 209.99		
	Qty = 50 to consider 50% of carriage as per 2321						
	LABOUR : For Lowering						
0203	Beldar	day	0.50	₹ 310.00	₹ 155.00		
0212	Coolie	day	0.50	₹ 310.00	₹ 155.00		
	Sundries (Adhesive etc.)	L.S.			₹ 50.040.00		
	TOTAL Add for Water charges	@	1.0%		₹ 59,049.99 ₹ 590.50		
	Add for water charges	w	1.0%		₹ 59,640.49		
	Add GST (multiplying factor)		0.1405		₹ 8,379.49		
	rtaa eer (martierynig raeter)		011100		₹ 68,019.98		
	Add for contractor's profit and	@	15%		₹ 10,203.00		
					₹ 78,222.98		
	Add 2000	@	1%		₹ 782.23		
	Add cess				I ₹ 70 ∩∩ 5 21		
	Cost for 100 metre				₹ 79,005.21		
22.4	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and 1 PVC medium well screen (RMS) pipes	with ribs,	conforming t	o IS: 12818,	₹ 790.05 ₹ 790.10 rell unplasticized including hire &		
	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge.	with ribs,	conforming t	o IS: 12818,	₹ 790.05 ₹ 790.10 rell unplasticized including hire &		
22.4.3	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia	with ribs, etc. all cor	conforming t	o IS: 12818, II depths, as	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of		
	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description	with ribs,	conforming t	o IS: 12818,	₹ 790.05 ₹ 790.10 rell unplasticized including hire &		
22.4.3	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres	with ribs, etc. all cor	conforming t	o IS: 12818, II depths, as	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of		
22.4.3	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description	with ribs, etc. all cor	conforming t	o IS: 12818, II depths, as	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of		
22.4.3 Code	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per	etc. all con	Conforming to mplete, for a Quantity	Rate	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00		
22.4.3 Code	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200	Unit metre	Quantity 100.00	Rate ₹ 820.00	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering	Unit metre 100 metre	Quantity 100.00 0.50	Rate ₹ 820.00	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar	Unit metre 100 metre	Quantity 100.00 0.50	Rate ₹ 820.00 ₹ 681.03	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 340.52		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and powering as accessories and powering accessories and powering accessories and powering accessories and powering accessories and powering accessories and powering accessories and powering accessories and powering accessories ac	Unit metre 100 metre day day	Quantity 100.00 0.50	Rate ₹ 820.00	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 340.52		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.)	Unit metre 100 metre	Quantity 100.00 0.50	Rate ₹ 820.00 ₹ 681.03	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 340.52 ₹ 155.00 ₹ 155.00 ₹ 40.00		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL	Unit metre 100 metre day day L.S.	Quantity 100.00 0.50 0.50	Rate ₹ 820.00 ₹ 681.03	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 155.00 ₹ 155.00 ₹ 40.00 ₹ 82,690.52		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.)	Unit metre 100 metre day day	Quantity 100.00 0.50	Rate ₹ 820.00 ₹ 681.03	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 340.52 ₹ 155.00 ₹ 40.00 ₹ 82,690.52 ₹ 826.91		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL	Unit metre 100 metre day day L.S.	Quantity 100.00 0.50 0.50	Rate ₹ 820.00 ₹ 681.03	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 340.52 ₹ 155.00 ₹ 155.00 ₹ 40.00 ₹ 82,690.52 ₹ 826.91 ₹ 83,517.43		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges Add GST (multiplying factor)	unit Unit metre 100 metre day day L.S.	Ouantity 100.00 0.50 0.50 1.0% 0.1405	Rate ₹ 820.00 ₹ 681.03	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 340.52 ₹ 155.00 ₹ 155.00 ₹ 40.00 ₹ 82,690.52 ₹ 826.91 ₹ 83,517.43 ₹ 11,734.20 ₹ 95,251.63		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and of PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges	Unit metre 100 metre day day L.S.	Quantity 100.00 0.50 0.50 1.0%	Rate ₹ 820.00 ₹ 681.03	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 340.52 ₹ 155.00 ₹ 155.00 ₹ 155.00 ₹ 82,690.52 ₹ 826.91 ₹ 83,517.43 ₹ 11,734.20 ₹ 95,251.63 ₹ 14,287.74		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and 1 PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and	unit Unit metre 100 metre day day L.S. @	Ouantity 100.00 0.50 0.50 1.0% 0.1405 15%	Rate ₹ 820.00 ₹ 681.03	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 340.52 ₹ 155.00 ₹ 155.00 ₹ 155.00 ₹ 40.00 ₹ 82,690.52 ₹ 82,690.52 ₹ 83,517.43 ₹ 11,734.20 ₹ 95,251.63 ₹ 14,287.74 ₹ 1,09,539.37		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and pyc medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess	unit Unit metre 100 metre day day L.S.	Ouantity 100.00 0.50 0.50 1.0% 0.1405	Rate ₹ 820.00 ₹ 681.03	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 340.52 ₹ 155.00 ₹ 155.00 ₹ 155.00 ₹ 40.00 ₹ 82,690.52 ₹ 82,691 ₹ 83,517.43 ₹ 11,734.20 ₹ 95,251.63 ₹ 14,287.74 ₹ 1,09,539.37		
22.4.3 Code 13016 0459	Cost for 100 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and 1 PVC medium well screen (RMS) pipes labour charges, fittings & accessories Engineer-in-charge. 200 mm nominal size dia Description Details of cost for 100 metres MATERIAL: uPVC slotted pipe 200 mm dia as per IS: 12818 Carriage of Spun iron S & S pipes 200 mm dia Qty = 50 to consider 50% of carriage as per 2321 LABOUR: For Lowering Beldar Coolie Sundries (Adhesive etc.) TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and	unit Unit metre 100 metre day day L.S. @	Ouantity 100.00 0.50 0.50 1.0% 0.1405 15%	Rate ₹ 820.00 ₹ 681.03	₹ 790.05 ₹ 790.10 rell unplasticized including hire & per direction of Amount ₹ 82,000.00 ₹ 340.52 ₹ 155.00 ₹ 155.00 ₹ 155.00 ₹ 40.00 ₹ 82,690.52 ₹ 826.91 ₹ 83,517.43 ₹ 11,734.20 ₹ 95,251.63 ₹ 14,287.74 ₹ 1,09,539.37		

22.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 1 cum							
	MATERIAL :							
22010	Boulder 50 mm to 200 mm including	cum	1.00	₹ 3,150.00	₹ 3,150.00			
	carriage							
	LABOUR:							
0203	Beldar	day	0.25	₹ 310.00	₹ 77.50			
0200	Sundries (Adhesive etc.)	L.S.			₹ 3.00			
	TOTAL				₹ 3,230.50			
	Add for Water charges	@	1.0%		₹ 32.31			
					₹ 3,262.81			
	Add GST (multiplying factor)		0.1405		₹ 458.42			
			4.50/		₹ 3,721.23			
	Add for contractor's profit and	@	15%		₹ 558.18			
	Add cess	@	1%		₹ 4,279.41 ₹ 42.79			
	Cost for 1 cum	<u>w</u>	1 /0		₹ 4,322.20			
	Rate per cum (Say)				₹ 4,322.20			
22.6	Supplying, filling, spreading & level	ing gravels	of size ran	ge 5 mm to				
	recharge pit, over the existing layer o all complete as per direction of Engine			:hickness, foi	all leads & lifts,			
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 1 cum							
	MATERIAL :							
22011	Gravel 5 mm to 10 mm including	cum	1.00	₹ 3,150.00	₹ 3,150.00			
22011	carriage	Jan	1.00	(0, 100.00	(0,100.00			
	LABOUR :							
0203	Beldar	day	0.25	₹ 310.00	₹ 77.50			
0203	Sundries (Adhesive etc.)	L.S.	0.23	X 310.00	₹ 3.00			
	TOTAL	2.0.			₹ 3,230.50			
	Add for Water charges	@	1.0%		₹ 32.31			
	, , , , , , , , , , , , , , , , , , ,				₹ 3,262.81			
	Add GST (multiplying factor)		0.1405		₹ 458.42			
					₹ 3,721.23			
	Add for contractor's profit and	@	15%		₹ 558.18			
					₹ 4,279.41			
	Add cess	@	1%		₹ 42.79			
	Cost for 1 cum				₹ 4,322.20			
	Rate per cum (Say)				₹ 4,322.20			
22.7	Supplying, filling, spreading & leveling recharge pit, in required thickness of per direction of Engineer -in- charge.							
Code	Description	Unit	Quantity	Rate	Amount			
	Details of cost for 1 cum							
	MATERIAL :							
22012				1	₹ 3,150.00			
22012	Gravel 1.5 mm to 2 mm including	cum	1.00	I ₹ 3,150.00				
22012	Gravel 1.5 mm to 2 mm including carriage	cum	1.00	₹ 3,150.00				
	carriage LABOUR :							
0203	carriage LABOUR: Beldar	day	0.25	₹ 3,150.00 ₹ 310.00	₹ 77.50			
	carriage LABOUR: Beldar Sundries (Adhesive etc.)				₹ 77.50 ₹ 3.00			
	carriage LABOUR: Beldar Sundries (Adhesive etc.) TOTAL	day L.S.	0.25		₹ 77.50 ₹ 3.00 ₹ 3,230.50			
	carriage LABOUR: Beldar Sundries (Adhesive etc.)	day			₹ 77.50 ₹ 3.00 ₹ 3,230.50 ₹ 32.31			
	carriage LABOUR: Beldar Sundries (Adhesive etc.) TOTAL Add for Water charges	day L.S.	0.25		₹ 77.50 ₹ 3.00 ₹ 3,230.50 ₹ 32.31 ₹ 3,262.81			
	carriage LABOUR: Beldar Sundries (Adhesive etc.) TOTAL	day L.S.	0.25		₹ 77.50 ₹ 3.00 ₹ 3,230.50 ₹ 32.31			

					₹ 4,279.4°
	Add cess	@	1%		₹ 42.79
	Cost for 1 cum	C	170		₹ 4,322.20
	Rate per cum (Say)				₹ 4,322.20
22.8	Gravel packing in tubewell construct	ion in acco	rdance with	S: 4097, inc	
	gravel fine/ medium/ coarse, in requestion of Engineers	uired gradii -in-charge.	ng & sizes a	s per actual	requirement, al
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 cum				
	MATERIAL :				
22024	Pea Gravel including carriage	cum	1.00	₹ 3,390.00	₹ 3,390.00
	LABOUR:				
0203	Beldar	day	0.30	₹ 310.00	₹ 93.00
	Sundries (Adhesive etc.)	L.S.		101010	₹ 3.00
	TOTAL				₹ 3,486.00
	Add for Water charges	@	1.0%		₹ 34.86
					₹ 3,520.86
	Add GST (multiplying factor)		0.1405		₹ 494.68
					₹ 4,015.54
	Add for contractor's profit and	@	15%		₹ 602.33
					₹ 4,617.87
	Add cess	@	1%		₹ 46.18
	Cost for 1 cum				₹ 4,664.05
22.9	Rate per cum (Say) Providing and fixing factory made p				₹ 4,664.10
	perforations @ 100 to 125 mm c/c, in				M.S. flats of size
	50 mm x 1.6 mm complete, all as per	direction of	Engineer- in-	charge.	
Code					Amount
Code	Description Details of cost for 1 No. R.C.C. Drain	direction of	Engineer- in-	charge.	
Code	50 mm x 1.6 mm complete, all as per of Description	direction of	Engineer- in-	charge.	
Code	Description Details of cost for 1 No. R.C.C. Drain	direction of	Engineer- in-	charge.	
Code 22019	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL:	direction of	Engineer- in-	charge.	
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab	Unit	Engineer- in Quantity	Rate	Amount
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR:	Unit	Quantity 1.00	Rate	Amount ₹ 950.00
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab	Unit each	Engineer- in Quantity	Rate	Amount ₹ 950.00
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges	Unit each	Quantity 1.00	Rate	Amount ₹ 950.00
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL	Unit each	Quantity 1.00 3.0%	Rate	Amount ₹ 950.00 ₹ 28.50 ₹ 978.50
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL	Unit each	Quantity 1.00 3.0%	Rate	₹ 950.00 ₹ 28.50 ₹ 978.50 ₹ 9.70 ₹ 988.20 ₹ 138.85
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges Add GST (multiplying factor)	Unit each	1.00 3.0% 1.0% 0.1405	Rate	₹ 950.00 ₹ 28.50 ₹ 978.50 ₹ 9.70 ₹ 988.20 ₹ 138.80 ₹ 1,127.14
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges	Unit each	Quantity 1.00 3.0% 1.0%	Rate	₹ 950.00 ₹ 28.50 ₹ 978.50 ₹ 9.70 ₹ 988.20 ₹ 138.80 ₹ 1,127.14 ₹ 169.00
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and	Unit each @ @ @	1.00 3.0% 1.0% 0.1405	Rate	₹ 950.00 ₹ 28.50 ₹ 978.50 ₹ 9.70 ₹ 988.20 ₹ 138.85 ₹ 1,127.14 ₹ 169.00 ₹ 1,296.20
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and	Unit each @	1.00 3.0% 1.0% 0.1405	Rate	₹ 950.00 ₹ 28.50 ₹ 978.50 ₹ 978.50 ₹ 988.20 ₹ 138.85 ₹ 1,127.14 ₹ 169.00 ₹ 1,296.20
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges Add GST (multiplying factor) Add cess Cost for 1 No.	Unit each @ @ @	1.00 3.0% 1.0% 0.1405	Rate	₹ 950.00 ₹ 28.50 ₹ 978.50 ₹ 978.20 ₹ 138.89 ₹ 1,127.14 ₹ 169.07 ₹ 1,296.20 ₹ 1,309.17
22019	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges Add GST (multiplying factor) Add cess Cost for 1 No. Rate per each (Say)	Unit each @ @ @ @ @	1.00 1.00 3.0% 1.0% 0.1405 15% 1%	Rate ₹ 950.00	₹ 28.50 ₹ 950.00 ₹ 978.50 ₹ 978.50 ₹ 988.20 ₹ 1,127.14 ₹ 169.00 ₹ 1,296.20 ₹ 1,309.10 ₹ 1,309.10
	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges Add GST (multiplying factor) Add cess Cost for 1 No.	each each	1.00 1.00 3.0% 1.0% 0.1405 15% 1% ertical position of approved paint of approved paint of approved to the control of appro	Rate ₹ 950.00 on in bore work /plain endection make, include oved brand a	* 950.00
22019	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess Cost for 1 No. Rate per each (Say) Supplying, assembling, lowering and Resistance Welded) FE 410 mild stee required dia, conforming to IS: 4270, outside surface with two coats of ant including required hire & labour cl depths, as per direction of Engineer-in	Unit each each @ @ interpretation of the control of the contr	1.00 1.00 3.0% 1.0% 0.1405 1% 1% ertical position of approved paint of approved on a part of approved on a part of approved on a paint of approved on a paint of approved on a part of approved on a paint of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of a p	Rate ₹ 950.00 on in bore w /plain endec make, include oved brand a	* 950.00
22019	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges Add GST (multiplying factor) Add r contractor's profit and Add cess Cost for 1 No. Rate per each (Say) Supplying, assembling, lowering and Resistance Welded) FE 410 mild stee required dia, conforming to IS: 4270, outside surface with two coats of ant including required hire & labour cl	Unit each each @ @ interpretation of the control of the contr	1.00 1.00 3.0% 1.0% 0.1405 1% 1% ertical position of approved paint of approved on a part of approved on a part of approved on a paint of approved on a paint of approved on a part of approved on a paint of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of approved on a part of a p	Rate ₹ 950.00 on in bore w /plain endec make, include oved brand a	* 950.00
22.10	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess Cost for 1 No. Rate per each (Say) Supplying, assembling, lowering and Resistance Welded) FE 410 mild stee required dia, conforming to IS: 4270, outside surface with two coats of ant including required hire & labour cl depths, as per direction of Engineer-in Description	each each	1.00 1.00 1.00 1.00 1.0%	Rate ₹ 950.00 in bore w/plain endection ender a sories, all comm	* 950.00
22.10	Description Details of cost for 1 No. R.C.C. Drain Cover MATERIAL: Precast R.C.C. perforated slab LABOUR: Carriage and fixing charges TOTAL Add for Water charges Add GST (multiplying factor) Add ress Cost for 1 No. Rate per each (Say) Supplying, assembling, lowering and Resistance Welded) FE 410 mild stee required dia, conforming to IS: 4270, outside surface with two coats of ant including required hire & labour cl depths, as per direction of Engineer-ir	each each	1.00 1.00 1.00 1.00 1.0%	Rate ₹ 950.00 in bore w/plain endection ender a sories, all comm	* 950.00

22014	M.S. pipe 100 mm dia. Casing pipe	metre	30.00	₹ 905.00	₹ 27,150.00
22021	M.S. socket 100 mm dia.	each	5.00	₹ 131.00	₹ 655.00
0423	Carriage of ductile iron pipes (k7) 100 mm dia	100 metre	0.30	₹ 251.98	₹ 75.59
	including loading and unloading				
	painting with anti corrosive paint				
	3.14x0.11x30.0=10.36				
	Rate as per Item No. 13.65.1 of SH: Finishing (A)	sqm	10.36	₹ 67.50	₹ 699.30
	LABOUR:				
0203	Beldar	day	1.35	₹ 310.00	₹ 418.50
0225	Mistry	day	0.50	₹ 395.00	₹ 197.50
	TOTAL				₹ 29,195.89
	Add for Water charges on all excluding A	@	1.0%		₹ 284.97
					₹ 29,480.86
	Add GST (multiplying factor) on all		0.1405		- 1 0 10 01
	excluding A				₹ 4,043.81
	Add Conservation to the conservation of the co				₹ 33,524.66
	Add for contractor's profit and	@	15%		₹ 4,923.80
	overheads on all excluding A				7 20 440 47
	Add Cess on all excluding A	@	1%		₹ 38,448.47 ₹ 377.49
	Add Cess on all excluding A	<u> </u>	1 /0		₹ 38,825.96
	Cost for 30 metre				₹ 1 294 20
22.10	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, o outside surface with two coats of antic	screwed a of reputed corrosive p	and socketed & approved paint of appro	<mark>/plain ended</mark> make, includ oved brand a	casing pipes of ing painted with nd manufacture,
22.10	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, or	screwed a of reputed corrosive p arges, fitti	and socketed & approved paint of appro	<mark>/plain ended</mark> make, includ oved brand a	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture,
22.10	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, o outside surface with two coats of antic including required hire & labour ch	screwed a of reputed corrosive p arges, fitti charge.	and socketed & approved paint of appro ings & acces	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture,
	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, o outside surface with two coats of antio including required hire & labour ch depths, as per direction of Engineer-in-	screwed a of reputed corrosive p arges, fitti charge.	and socketed & approved paint of appro ings & acces	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture,
22.10.2	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, o outside surface with two coats of antio including required hire & labour ch depths, as per direction of Engineer-in-	screwed a of reputed corrosive p arges, fitti charge.	and socketed & approved paint of appro- ings & access hickness 5.0	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all
22.10.2	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and fresistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, controlled surface with two coats of anticincluding required hire & labour chedepths, as per direction of Engineer-in- 150 mm nominal size dia having minimal description Description Details of cost for 30 metre	screwed a of reputed corrosive p arges, fitti charge.	and socketed & approved paint of appro- ings & access hickness 5.0	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all
22.10.2	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, o outside surface with two coats of antio including required hire & labour ch depths, as per direction of Engineer-in-	screwed a of reputed corrosive p arges, fitti charge.	and socketed & approved paint of appro- ings & access hickness 5.0	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all
22.10.2 Code	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, controlled surface with two coats of anticincluding required hire & labour characteristic depths, as per direction of Engineer-information. 150 mm nominal size dia having minimal depths of cost for 30 metre MATERIAL:	screwed a of reputed corrosive p arges, fitti charge.	and socketed & approved paint of appro- ngs & access hickness 5.0 Quantity	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all
22.10.2 Code 22001	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and f Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, o outside surface with two coats of antio including required hire & labour ch depths, as per direction of Engineer-in- 150 mm nominal size dia having minir Description Details of cost for 30 metre MATERIAL: M.S. pipe 150 mm dia. Casing pipe	screwed and freputed corrosive parges, fittiecharge. num wall the Unit	hickness 5.0 Quantity 30.00	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all Amount ₹ 36,150.00
22.10.2 Code 22001 22022	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, controlled to the surface with two coats of anticincluding required hire & labour chat depths, as per direction of Engineer-in- 150 mm nominal size dia having minimal depths of cost for 30 metre MATERIAL: M.S. pipe 150 mm dia. Casing pipe M.S. socket 150 mm dia.	screwed a of reputed corrosive parges, fittiecharge. num wall to Unit metre each	hickness 5.0 Quantity 30.00	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all Amount
22.10.2 Code 22001 22022	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, coutside surface with two coats of anticincluding required hire & labour chat depths, as per direction of Engineer-in- 150 mm nominal size dia having minimal Description Details of cost for 30 metre MATERIAL: M.S. pipe 150 mm dia. Casing pipe M.S. socket 150 mm dia. Carriage of cast iron pipes 150 mm dia including loading and unloading painting with anti corrosive paint	screwed a of reputed corrosive parges, fittiecharge. num wall to Unit metre each	hickness 5.0 Quantity 30.00	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all Amount ₹ 36,150.00 ₹ 1,075.00
22.10.2 Code 22001 22022	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, coutside surface with two coats of anticincluding required hire & labour chance depths, as per direction of Engineer-in- 150 mm nominal size dia having minimal depths, as per direction of Engineer-in- Description Details of cost for 30 metre MATERIAL: M.S. pipe 150 mm dia. Casing pipe M.S. socket 150 mm dia. Carriage of cast iron pipes 150 mm dia including loading and unloading painting with anti corrosive paint 3.14x0.16x30.0=15.07 Rate as per Item No. 12.52 of SH: Finishing (A)	screwed a of reputed corrosive parges, fitticharge. mum wall to Unit metre each 100 metre	hickness 5.00 Quantity 30.00 5.00	/plain ended make, includ oved brand a ssories, all c 0 mm Rate ₹ 1,205.00 ₹ 215.00	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all Amount ₹ 36,150.00 ₹ 1,075.00
22.10.2 Code 22001 22022 0409	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, coutside surface with two coats of anticincluding required hire & labour chance depths, as per direction of Engineer-in- 150 mm nominal size dia having minimal depths, as per direction of Engineer-in- MATERIAL: M.S. pipe 150 mm dia. Casing pipe M.S. socket 150 mm dia. Carriage of cast iron pipes 150 mm dia including loading and unloading painting with anti corrosive paint 3.14x0.16x30.0=15.07 Rate as per Item No. 12.52 of SH: Finishing (A) LABOUR:	screwed a of reputed corrosive parges, fitticharge. The mum wall to the metre each square sq	hickness 5.00 Quantity 30.00 5.00 0.30	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all Amount ₹ 36,150.00 ₹ 1,075.00 ₹ 1,077.23
22.10.2 Code 22001 22022	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, coutside surface with two coats of anticincluding required hire & labour chance depths, as per direction of Engineer-in- 150 mm nominal size dia having minimal depths, as per direction of Engineer-in- Description Details of cost for 30 metre MATERIAL: M.S. pipe 150 mm dia. Casing pipe M.S. socket 150 mm dia. Carriage of cast iron pipes 150 mm dia including loading and unloading painting with anti corrosive paint 3.14x0.16x30.0=15.07 Rate as per Item No. 12.52 of SH: Finishing (A)	screwed a of reputed corrosive parges, fitticharge. mum wall to Unit metre each 100 metre	hickness 5.00 Quantity 30.00 5.00	/plain ended make, includ oved brand a ssories, all c 0 mm Rate ₹ 1,205.00 ₹ 215.00	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all Amount ₹ 36,150.00 ₹ 1,075.00 ₹ 1,077.23
22.10.2 Code 22001 22022 0409	Cost for 30 metre Cost of 1 metre Rate per metre (Say) Supplying, assembling, lowering and for Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, coutside surface with two coats of anticincluding required hire & labour chat depths, as per direction of Engineer-in- 150 mm nominal size dia having minimal Description Details of cost for 30 metre MATERIAL: M.S. pipe 150 mm dia. Casing pipe M.S. socket 150 mm dia. Carriage of cast iron pipes 150 mm dia including loading and unloading painting with anti corrosive paint 3.14x0.16x30.0=15.07 Rate as per Item No. 12.52 of SH: Finishing (A) LABOUR: Beldar	screwed a of reputed corrosive parges, fitticharge. num wall to Unit metre each 100 metre sqm day	hickness 5.00 Quantity 30.00 5.00 0.30	/plain ended make, includ oved brand a ssories, all c	₹ 1,294.20 ell, ERW (Electric casing pipes of ing painted with nd manufacture, omplete, for all Amount ₹ 36,150.00

					₹ 39,379.54
	Add GST (multiplying factor) on all		0.1405		
	excluding A		0.1405		₹ 5,389.91
					₹ 44,769.45
	Add for contractor's profit and		1 = 0/		₹ 6,562.83
	overheads on all excluding A	@	15%		
	· ·				₹ 51,332.28
	Add Cess on all excluding A	@	1%		₹ 503.15
	Cost for 30 metre				₹ 51,835.43
	Cost of 1 metre				₹ 1,727.85
	Rate per metre (Say)				₹ 1,727.80
22.10	Supplying, assembling, lowering and f Resistance Welded) FE 410 mild steel required dia, conforming to IS: 4270, of outside surface with two coats of antic including required hire & labour ch depths, as per direction of Engineer-in-	screwed a of reputed corrosive p arges, fitt	and socketed & approved paint of appr	/plain ended make, includ oved brand a	casing pipes of ing painted with nd manufacture
22.10.3	200 mm nominal size dia having minir	num wall t	hickness 5.0	0 mm	
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 metre				
	MATERIAL :				
22002	M.S. pipe 200 mm dia. Casing pipe	metre	30.00	₹ 1,480.00	₹ 44,400.00
22023	M.S. socket 200 mm dia.	each	5.00	₹ 278.00	₹ 1,390.00
0410	Carriage of cast iron pipes 200 mm dia	100 metre	0.30	₹ 681.03	₹ 204.31
	including loading and unloading painting with anti corrosive paint 3.14x0.21x30.0= 19.78				
	Rate as per Item No. 12.52 of SH: Finishing (A)	sqm	19.78	₹ 67.50	₹ 1,335.15
	LABOUR:				
0203	Beldar	day	1.35	₹ 310.00	₹ 418.50
0225	Mistry	day	0.50	₹ 395.00	₹ 197.50
	TOTAL	•			₹ 47,945.46
	Add for Water charges on all excluding A	@	1.0%		₹ 466.10
					₹ 48,411.56
	Add GST (multiplying factor) on all excluding A		0.1405		₹ 6,614.24
	, and the second				₹ 55,025.8C
	Add for contractor's profit and		4.50/		₹ 8,053.60
	overheads on all excluding A	@	15%		
					₹ 63,079.40
	Add Cess on all excluding A	@	1%		₹ 617.44
	Cost for 30 metre				₹ 63,696.84
	Cost of 1 metre				₹ 2,123.23
	Rate per metre (Say)				₹ 2,123.20

Code Det MA 22014 M.S 22021 M.S 0423 Car mm incl pair 3.14 Rat Fini LAE 0203 Beld 0225 Mis TO Add all d Add A Add A Add exc Add ove Add ove Add ove Add ove Cos Cos Cos Rat 22.11 Sup Res three AMA	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer -in-charge.						
Code Det MA 22014 M.S 22021 M.S 0423 Car mm incl pair 3.14 Rat Fini LAE 0203 Beld 0225 Mis TO Add all d Add A Add A Add exc Add ove Add ove Add ove Add ove Cos Cos Cos Rat 22.11 Sup Res three AMA	00 mm nominal size dia						
Det MA 22014 M.S 22021 M.S 0423 Car mm incl pair 3.14 Rat Fini LAE 0203 Beld 0225 Mis TO Add all d Add A Add A Add A Add Exc Add Ove Add Ove Add Ove Add Ove Add A Cos Cos Rat 22.11 Sur Res thr	Description	Unit	Quantity	Rate	Amount		
MA 22014 M.S 22021 M.S 0423 Car mm incl pair 3.14 Rat Fini LAE 0203 Beld 0225 Mis TO Add all d Add A Add exc Add ove Add ove Add ove Cos Rat 22.11 Sup Res thr	· •	Onit	Quantity	Nate	Amount		
22014 M.S 22021 M.S 0423 Car mm incl pair 3.14 Rat Fini LAE 0203 Beld 0225 Mis TO Add all d Add A Add exc Add ove Add ove Add cove	Details of cost for 30 metre		<u> </u>				
22021 M.S 0423 Car mm incl pair 3.14 Rat Fini LAE 0203 Beld 0225 Mis TO Add all d Add A Add A Add A Add A Add A Add A Add A Add A Add A Add A Add A Add A A	MATERIAL:	mastra	20.00	₹ 00F 00	₹ 07 1F0 00		
0423 Carmm incl pair 3.14 Rat Fini LAE 0203 Beld 0225 Mis TO Add all d Add A A Add exc Add ove Add cove	M.S. pipe 100 mm dia. Casing pipe	metre	30.00	₹ 905.00	₹ 27,150.00		
mm incl pair 3.14 Rat Fini LAE 0203 Beld 0225 Mis TO Add all d Add A Add A Add exc Add ove Add ove Add cove A.S. socket 100 mm dia.	each	5.00	₹ 131.00	₹ 655.00			
Pairing 3.14 Rat Fini LAE 0203 Beld 0225 Miss TO Add all d Add A A Add exc Add ove Add cove	Carriage of ductile iron pipes (k7) 100 nm dia	100 metre	0.30	₹ 251.98	₹ 75.59		
Add ove	ncluding loading and unloading painting with anti corrosive paint 3.14x0.11x30.0=10.36 sqm.						
O203 Beld O225 Mis TO Add all d Add A A Add exc Add ove Add Cos Cos Rat 22.11 Sup Res	Rate as per Item No. 12.52 of SH: Finishing (A)	sqm	10.36	₹ 67.50	₹ 699.30		
Add Add Add Add Add Add Add Add Add Add	ABOUR :						
Add Add Ove Add Cose Cose Rat 22.11 Sup Res	Beldar	day	1.35	₹ 310.00	₹ 418.50		
Add Add Add Add Add Add Add Add Add Add	Mistry	day	0.50	₹ 395.00	₹ 197.50		
Add exc Add ove Add Cos Add Cos Rat 22.11 Sur Res three	OTAL				₹ 29,195.89		
Adde exc Adde ove Adde Cos Cos Rat 22.11 Sur Res	Add for Sundries & contingencies on III excluding A	@	3.0%		₹ 854.90		
Adde exc Adde ove Adde Cos Cos Rat 22.11 Sur Res	Add for Water charges on all evaluding				₹ 30,050.79 ₹ 284.97		
Add Ove	Add for Water charges on all excluding	@	1.0%				
Add Ove					₹ 30,335.75		
Add Cos Cos Rat 22.11 Sup Res three	Add GST (multiplying factor) on all excluding A		0.1405		₹ 4,163.92		
Add Cos Cos Rat 22.11 Sup Res three					₹ 34,499.68		
Cos Cos Rat 22.11 Sup Res three	Add for contractor's profit and overheads on all excluding A	@	15%		₹ 5,070.06		
Cos Cos Rat 22.11 Sup Res three		_	101		₹ 39,569.73		
Cos Rat 22.11 Sup Res three	Add Cess on all excluding A	@	1%		₹ 388.70		
22.11 Sup Res thre	Cost for 30 metre Cost of 1 metre		+		₹ 39,958.44 ₹ 1,331.95		
22.11 Sup Res thre	Rate per metre (Say)		†		₹ 1,331.90		
inc app	Supplying, assembling, lowering and Resistance Welded) FE 410 plain slowering and hreaded and socketed/ plain bevel en all 110, of reputed and approved maincluding painted with outside surfact approved brand and manufacture, including painted with outside surfact approved brand and manufacture, including painted with outside surfact approved brand and manufacture, including the surfacture, and the surfacture will complete, for all depths, as per directions.	otted (havi nded pipe (ke, having e with two cluding hire	ng slot of s type A) of re wall thickne coats of anti & & labour ch	size 1.6/3.2 quired dia, c ess not less corrosive bit arges, fitting	mm) mild steel conforming to IS: than 5.40 mm, umestic paint of		
22.11.2 150	50 mm nominal size dia						
Code	Description	Unit	Quantity	Rate	Amount		
	Details of cost for 30 metre		†				
	MATERIAL:		+				

22001	M.S. pipe 150 mm dia. Casing pipe	metre	30.00	₹ 1,205.00	₹ 36,150.00
22022	M.S. socket 150 mm dia.	each	5.00	₹ 215.00	₹ 1,075.00
0409	Carriage of cast iron pipes 150 mm dia	100 metre	0.30	₹ 419.97	₹ 125.99
	including loading and unloading painting with anti corrosive paint 3.14x0.16x30.0=15.07 sqm				
	Rate as per Item No. 12.52 of SH: Finishing (A)	sqm	15.07	₹ 67.50	₹ 1,017.23
	LABOUR:				
0203	Beldar	day	1.40	₹ 310.00	₹ 434.00
0225	Mistry	day	0.50	₹ 395.00	₹ 197.50
	TOTAL Add for Sundries & contingencies on all excluding A	@	3.0%		₹ 38,999.72 ₹ 1,139.47
					₹ 40,139.19
	Add for Water charges on all excluding A	@	1.0%		₹ 391.22
					₹ 40,530.41
	Add GST (multiplying factor) on all excluding A		0.1405		₹ 5,551.60 ₹ 46,082.02
	Add for contractor's profit and overheads on all excluding A	@	15%		₹ 6,759.72
					₹ 52,841.73
	Add Cess on all excluding A	@	1%		₹ 518.25
	Cost for 30 metre				₹ 53,359.98
	Cost of 1 metre Rate per metre (Say)				₹ 1,778.67 ₹ 1,778.70
	Resistance Welded) FE 410 plain slot threaded and socketed/ plain bevel er 8110, of reputed and approved makincluding painted with outside surface approved brand and manufacture, incall complete, for all depths, as per directions.	nded pipe (ke, having e with two luding hire	type A) of rewall thicknoon coats of antice & labour ch	equired dia, c ess not less corrosive bit narges, fitting	onforming to IS: than 5.40 mm, umestic paint of
22.11.3	200 mm nominal size dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 30 metre		† · · · · · · ·		-
	MATERIAL :				
22002	M.S. pipe 200 mm dia. Casing pipe	metre	30.00	₹ 1,480.00	₹ 44,400.00
22023	M.S. socket 200 mm dia.	each	5.00	₹ 278.00	₹ 1,390.00
0410	Carriage of cast iron pipes 150 mm dia	100 metre	0.30	₹ 681.03	₹ 204.31
				1	
	including loading and unloading painting with anti corrosive paint 3.14x0.21x30.0=19.78 sqm				
	painting with anti corrosive paint	sqm	19.78	₹ 67.50	₹ 1,335.15

	Doldor	dov	1 40	¥ 210 00	¥ 121 OC
0203	Beldar	day	1.40	₹ 310.00	₹ 434.00
0225	Mistry	day	0.50	₹ 395.00	₹ 197.50
	TOTAL				₹ 47,960.96
	Add for Sundries & contingencies on	@	3.0%		₹ 1,398.77
	all excluding A	G	3.0%		
					₹ 49,359.73
	Add for Water charges on all excluding				₹ 466.26
	A	@	1.0%		(100.20
					₹ 40 02E 00
	And CCT (southbalance fortes) and all				₹ 49,825.99
	Add GST (multiplying factor) on all		0.1405		- / 040 0
	excluding A				₹ 6,812.96
					₹ 56,638.96
	Add for contractor's profit and	@	15%		₹ 8,295.57
	overheads on all excluding A		1370		
					₹ 64,934.53
	Add Cess on all excluding A	@	1%		₹ 635.99
	Cost for 30 metre				₹ 65,570.52
	Cost of 1 metre				₹ 2,185.68
	Rate per metre (Say)				₹ 2,185.70
22.12	Development of tube well in accordan	ce with IS	· 2800 (part	I) and IS: 11	
	tubewell, all complete, including his accessories etc., all as per requirement				
Code	Description	Unit	Quantity	Rate	Amount
Code	Description	Unit	Quantity	Rate	Amount
Code	Description Details of cost for 8 hours	Unit	Quantity	Rate	Amount
Code	Details of cost for 8 hours	Unit	Quantity	Rate	Amount
	Details of cost for 8 hours MACHINERY:				
Code 0146	Details of cost for 8 hours	Unit	Quantity 1.00	Rate ₹ 2,000.00	
	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers.				
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL:	day		₹ 2,000.00	₹ 2,000.00
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil				₹ 2,000.00
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL	day	1.00	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil	day	1.00	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 53.00
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges	day	1.00 48.00 1.0%	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 53.00 ₹ 5,353.00
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL	day	1.00	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 53.00 ₹ 5,353.00 ₹ 752.10
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor)	day	1.00 48.00 1.0% 0.1405	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 53.00 ₹ 5,353.00 ₹ 752.10 ₹ 6,105.10
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges	day	1.00 48.00 1.0%	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 53.00 ₹ 5,353.00 ₹ 752.10 ₹ 6,105.10 ₹ 915.77
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and	day litre @	1.00 48.00 1.0% 0.1405	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 5,353.00 ₹ 752.10 ₹ 6,105.10 ₹ 915.71 ₹ 7,020.85
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess	day litre @	1.00 48.00 1.0% 0.1405	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 5,353.00 ₹ 752.10 ₹ 6,105.10 ₹ 915.77 ₹ 7,020.87
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and	day litre @ @	1.00 48.00 1.0% 0.1405	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 53.00 ₹ 752.10 ₹ 6,105.10 ₹ 915.71 ₹ 7,020.81 ₹ 70.20
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess	day litre @ @	1.00 48.00 1.0% 0.1405	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 53.00 ₹ 5,353.00 ₹ 752.10 ₹ 6,105.10 ₹ 915.73 ₹ 7,020.83 ₹ 7,091.08
	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess Cost for 8 hours	day litre @ @	1.00 48.00 1.0% 0.1405	₹ 2,000.00	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 53.00 ₹ 5,353.00 ₹ 7,021 ₹ 7,020.87 ₹ 7,091.08 ₹ 886.39
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess Cost for 8 hours Cost for 1 hour	litre @ @ @ aded mild	1.00 48.00 1.0% 0.1405 15% 1%	₹ 2,000.00 ₹ 68.75	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 5,353.00 ₹ 7,02.10 ₹ 6,105.10 ₹ 915.77 ₹ 7,020.87 ₹ 7,021 ₹ 7,091.08 ₹ 886.39 ₹ 886.40 Plate to the top
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess Cost for 8 hours Cost for 1 hour Rate per hour (Say) Providing and fixing suitable size three of bore well housing/ casing pipe, rem	litre @ @ @ aded mild	1.00 48.00 1.0% 0.1405 15% 1%	₹ 2,000.00 ₹ 68.75	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 5,353.00 ₹ 7,020.81 ₹ 7,020.81 ₹ 7,020.81 ₹ 7,091.08 ₹ 886.40 Plate to the top
0146	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess Cost for 8 hours Cost for 1 hour Rate per hour (Say) Providing and fixing suitable size three of bore well housing/ casing pipe, remof:	litre @ @ @ aded mild	1.00 48.00 1.0% 0.1405 15% 1%	₹ 2,000.00 ₹ 68.75	₹ 2,000.00 ₹ 3,300.00 ₹ 5,300.00 ₹ 5,353.00 ₹ 7,210 ₹ 6,105.10 ₹ 915.77 ₹ 7,020.87 ₹ 7,021.08 ₹ 886.39 ₹ 886.40 Plate to the top
0146 01001 22.13	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add for contractor's profit and Add cess Cost for 8 hours Cost for 1 hour Rate per hour (Say) Providing and fixing suitable size three of bore well housing/ casing pipe, rem of: 100 mm dia	litre @ @ @ aded mild ovable as p	1.00 48.00 1.0% 0.1405 15% 1% steel cap or per requirem	₹ 2,000.00 ₹ 68.75 spot welded ent, all comp	₹ 3,300.00 ₹ 5,300.00 ₹ 5,300.00 ₹ 5,353.00 ₹ 7,52.10 ₹ 6,105.10 ₹ 7,020.87 ₹ 7,020.87 ₹ 7,091.08 ₹ 886.30 ₹ 886.40 Uplate to the topolete for borewel
22.13	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add cess Cost for 8 hours Cost for 1 hour Rate per hour (Say) Providing and fixing suitable size threof bore well housing/ casing pipe, remof: 100 mm dia Description Details of cost for 1 No.	litre @ @ @ aded mild ovable as p	1.00 48.00 1.0% 0.1405 15% 1% steel cap or per requirem	₹ 2,000.00 ₹ 68.75 spot welded ent, all comp	₹ 3,300.00 ₹ 5,300.00 ₹ 5,353.00 ₹ 5,353.00 ₹ 752.10 ₹ 6,105.10 ₹ 7,020.81 ₹ 7,020.81 ₹ 7,091.08 ₹ 886.30 ₹ 886.40 I plate to the topolete for borewel
0146 01001 22.13	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add cess Cost for 8 hours Cost for 1 hour Rate per hour (Say) Providing and fixing suitable size thre of bore well housing/ casing pipe, rem of: 100 mm dia Description Details of cost for 1 No. MATERIAL:	litre @ @ @ aded mild ovable as p	1.00 48.00 1.0% 0.1405 15% 1% steel cap or per requirem	₹ 2,000.00 ₹ 68.75 spot welded ent, all comp	₹ 3,300.00 ₹ 5,300.00 ₹ 5,300.00 ₹ 5,353.00 ₹ 7,52.10 ₹ 6,105.10 ₹ 7,020.87 ₹ 7,020.87 ₹ 7,091.08 ₹ 886.39 ₹ 886.40 Uplate to the topolete for borewell
22.13	Details of cost for 8 hours MACHINERY: Air compressor 250 cfm with two leads for pneumatic cutters/ hammers. MATERIAL: Diesel oil TOTAL Add for Water charges Add GST (multiplying factor) Add cess Cost for 8 hours Cost for 1 hour Rate per hour (Say) Providing and fixing suitable size threof bore well housing/ casing pipe, remof: 100 mm dia Description Details of cost for 1 No.	litre @ @ @ aded mild ovable as p	1.00 48.00 1.0% 0.1405 15% 1% steel cap or per requirem	₹ 2,000.00 ₹ 68.75 spot welded ent, all comp	₹ 3,300.00 ₹ 5,300.00 ₹ 5,353.00 ₹ 5,353.00 ₹ 752.10 ₹ 6,105.10 ₹ 7,020.81 ₹ 7,020.81 ₹ 7,091.08 ₹ 886.30 ₹ 886.40 I plate to the topolete for borewel

22.14	Providing and fixing M.S. clamp of tubewell as per IS: 2800 (part I),				housing pipe of
22 14		required di	a to the ton	of casing/	
	Legia nor ogen (NgVI)	-			. 2 20U 10
	Cost for 1 No. Rate per each (Say)		1		₹ 309.06 ₹ 309.10
	Add cess	@	1%		₹ 3.06
					₹ 306.00
	Add for contractor's profit and	@	15%		₹ 39.91
	Add GST (multiprying factor)		0.1405		₹ 32.78
	Add GST (multiplying factor)		0.1405		₹ 233.31 ₹ 32.78
	Add for Water charges	@	1.0%		₹ 2.31
	TOTAL				₹ 231.00
	Add 5% labour factor on (A)	@	5%		₹ 11.00
22006	M.S. cap 200 mm dia (A)	each	1.00	₹ 220.00	₹ 220.00
	locking arrangement				
	100 mm dia MS screwed cap with				
	MATERIAL :		1		
	Details of cost for 1 No.				
Code	Description	Unit	Quantity	Rate	Amount
22.13.3	200 mm dia				
	of:	movable as	per requireme	ent, all comp	Diete for boreweit
22.13	Providing and fixing suitable size the of bore well housing/casing pipe, relatively				
22.42	Rate per each (Say)				₹ 231.80
	Cost for 1 No.		ļ		₹ 231.78
	Add cess	@	1%		₹ 2.29
	p. one dia		. 575		₹ 229.49
	Add for contractor's profit and	@	15%		₹ 199.56
	Add GST (multiplying factor)		0.1405		₹ 24.58 ₹ 199.56
	Add CCT (multiplying forter)		0.1405		₹ 174.98
	Add for Water charges	@	1.0%		₹ 1.73
	TOTAL				₹ 173.25
	Add 5% labour factor on (A)	@	5%		₹ 8.25
22005	M.S. cap 150 mm dia (A)	each	1.00	₹ 165.00	₹ 165.00
	locking arrangement				
	100 mm dia MS screwed cap with				
	MATERIAL:				
	Details of cost for 1 No.		†		
Code	Description	Unit	Quantity	Rate	Amount
22.13.2	150 mm dia				
	of:	novable us	per requirem	orit, an comp	note for Bo rewen
22.13	of bore well housing/ casing pipe, rea			•	
22.13	Rate per each (Say) Providing and fixing suitable size th	readed mild	steel can or	spot welder	₹ 231.80
	Cost for 1 No.				₹ 231.78
	Add cess	@	1%		₹ 2.29
					₹ 229.49
	Add for contractor's profit and	@	15%		₹ 29.93
	Add GST (multiplying factor)		0.1405		₹ 199.56
	Add CCT (resulting tribers for etc.)		0.1405		₹ 174.98 ₹ 24.58
	Add for Water charges	@	1.0%		₹ 1.73
	TOTAL				₹ 173.25

	MATERIAL :				
	Clamps made of MS flat of size 100x10				
	mm thick 1x2mt.x7.80 kg per mt.= 15.60 kg.				
	Rate as per Item No. 9.1 of SH: Steel Work (A)	kg	15.60	₹ 82.30	₹ 1,283.88
#REF!	Sundries, nuts and bolts etc.	@	5.0%		₹ 64.19
	TOTAL				₹ 1,348.07
	Add for Water charges on all excluding A	@	1.0%		₹ 0.64
					₹ 1,348.72
	Add GST (multiplying factor) on all excluding A		0.1405		₹ 9.11
					₹ 1,357.83
	Add for contractor's profit and overheads on all excluding A	@	15%		₹ 11.09
	And Coop on all evaluation A		10/		₹ 1,368.92
	Add Cess on all excluding A Cost for 1 No.	@	1%		₹ 0.85 ₹ 1,369.77
	Rate per each (Say)				₹ 1,369.80
22.14	Providing and fixing M.S. clamp of r	equired di	a to the top	of casing/	•
	tubewell as per IS: 2800 (part I), ir complete.				
22.14.2	150 mm clamp				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	MATERIAL :				
	Clamps made of MS flat of size 100x10 mm thick 1x2.10mt.x7.80 kg per mt.= 16.38 kg.				
	Rate as per Item No. 9.1 of SH: Steel Work (A)	kg	16.38	₹ 82.30	₹ 1,348.07
#REF!	Sundries, nuts and bolts etc.	@	5.0%		₹ 67.40
	TOTAL				₹ 1,415.47
	Add for Water charges on all excluding A	@	1.0%		₹ 0.67
	1 1 1 00 7 (111 1 1 6 1)				₹ 1,416.15
	Add GST (multiplying factor) on all excluding A		0.1405		₹ 9.56
					₹ 1,425.71
	Add for contractor's profit and overheads on all excluding A	@	15%		₹ 11.65
			401		₹ 1,437.36
	Add Cess on all excluding A Cost for 1 No.	@	1%		₹ 0.89 ₹ 1,438.25
	Rate per each (Say)				₹ 1,438.30
22.14	Providing and fixing M.S. clamp of r tubewell as per IS: 2800 (part I), ir complete.				housing pipe of
22.14.3	200 mm clamp				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.	-		-	-
	MATERIAL :		1		
	Clamps made of MS flat of size 100x10 mm thick 1x2.40mt.x7.80 kg per mt.= 18.72 kg.				
	<u> </u>				

	Rate as per Item No. 9.1 of SH: Steel Work (A)	kg	18.72	₹ 82.30	₹ 1,540.66
#REF!	Sundries, nuts and bolts etc.	@	5.0%		₹ 77.03
	TOTAL				₹ 1,617.69
	Add for Water charges on all excluding A	@	1.0%		₹ 0.77
					₹ 1,618.46
	Add GST (multiplying factor) on all excluding A		0.1405		₹ 10.93
					₹ 1,629.39
	Add for contractor's profit and overheads on all excluding A	@	15%		₹ 13.31
	Add Coop on all avaluding A	@	1%		₹ 1,642.70
	Add Cess on all excluding A Cost for 1 No.	<u> </u>	1 70		₹ 1.02 ₹ 1,643.73
	Rate per each (Say)				₹ 1,643.70
22.15	Providing and fixing Bail plug/ Bottom of tubewell as per IS:2800 (part I).	plug of re	quired dia to	the bottom	
22.15.1	100 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	MATERIAL :				
22018	M.S. bail plug 100 mm dia	each	1.00	₹ 190.00	₹ 190.00
#REF!	Sundries	@	3.0%		₹ 5.70
"TKEI"	TOTAL		0.070		₹ 195.70
	Add for Water charges	@	1.0%		₹ 1.96
	A LLOCT (LLL LL C LL)		0.1.105		₹ 197.66
	Add GST (multiplying factor)		0.1405		₹ 27.77 ₹ 225.43
	Add for contractor's profit and	@	15%		₹ 33.81
	Add cess	@	1%		₹ 259.24 ₹ 2.59
	Cost for 1 No.		1 70		₹ 261.83
	Rate per each (Say)				₹ 261.80
22.15	Providing and fixing Bail plug/ Bottom of tubewell as per IS:2800 (part I).	plug of re	quired dia to	the bottom	of pipe assembly
22.15.2	150 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	MATERIAL :				
22007	M.S. bail plug 150 mm dia	each	1.00	₹ 220.00	₹ 220.00
#REF!	Sundries	@	3.0%		₹ 6.60
	TOTAL				₹ 226.60
	Add for Water charges	@	1.0%		₹ 2.27
	Add GST (multiplying factor)		0.1405		₹ 228.87 ₹ 32.16
	Add 031 (martiplying factor)		0.1403		₹ 261.03
	Add for contractor's profit and	@	15%		₹ 39.15
	Add cess	@	1%		₹ 300.18 ₹ 3.00
	Cost for 1 No.	<u> </u>	1 70		₹ 303.18
	Rate per each (Say)				₹ 303.20
22.15	Providing and fixing Bail plug/ Bottom of tubewell as per IS:2800 (part I).	plug of re	quired dia to	the bottom	of pipe assembly
22.15.3	200 mm dia				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 1 No.				
	MATERIAL :				
			1		

22008	M.S. bail plug 200 mm dia	each	1.00	₹ 240.00		₹ 240.00
#REF!	Sundries	@	3.0%			₹ 7.20
	TOTAL					₹ 247.20
	Add for Water charges	@	1.0%		₹	2.47
					₹	249.67
	Add GST (multiplying factor)		0.1405		₹	35.08
					₹	284.75
	Add for contractor's profit and	@	15%		₹	42.71
					₹	327.46
	Add cess	@	1%		₹	3.27
	Cost for 1 No.					₹ 330.73
	Rate per each (Say)					₹ 330.70