



सत्यमेव जयते

**GOVERNMENT OF TRIPURA
PUBLIC WORKS DEPARTMENT**



TRIPURA SCHEDULE OF RATES 2017 (BUILDING WORKS)

Published under the Authority of Chief Engineer, PWD (Buildings), Tripura

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GOVERNMENT OF TRIPURA

FOREWORD

Tripura Schedule of Rates [SoR], time to time being published by Public Works Department, Government of Tripura is a very comprehensive document and useful for execution of works. Apart from PWD, this Schedule of Rates is being used as a reference of rates by various State Government Departments, Public Sector Undertakings, Private Sector Builders etc.

The SoR, Tripura, was first compiled in the year 1972, followed by publication or revisions from time to time in order to update the same with the prevailing technology and market rates in 1985, 1990, 1995, 1998, 2002, 2008 and 2011.

Since publication of SoR-2011 [Building Works], prices of labour and materials have registered substantial increase. Besides the increase in cost and change in specification on present need basis, there has been a spurt of new construction materials and introduction of mechanized construction techniques for speedier construction. This has necessitated revision of existing SoR-2011 [Building Works] to incorporate and for introduction of the above changes. Accordingly, SoR-2017 [Building Works] has been prepared incorporating element of machinery and prefabricated building components, Green building technology, wherever applicable.

Although SoR-2017 [Building Works] contains most of the items of SoR-2011 [Building Works], analysis of many items have been modified corresponding to items of CPWD, DSR- 2016 following CPWD specifications with updated corrections. Several new items pertaining to new materials and new technologies in the construction sector have also been included.

I do hope that PWD(Buildings), Tripura will continue to get feedback on the application of SoR-2017 [Building Works], so that we can look forward to improve the same further.

I am sure that SoR-2017 [Building Works] will be quite useful to all concerned Engineers & Architects in the infrastructure development of State in general at large and P.W.D. in particular.

Agartala, Tripura
February, 2017


[A BHAUMIK] 23/2/17
CHIEF ENGINEER
PWD(BUILDINGS), TRIPURA

PREFACE

1. Schedule of Rates 2017 for Building Works, Public Works Department, Government of Tripura will be read along with CPWD Specification, 2009 Vol. I to VI with up-to-date correction slips.
2. SoR-2017 [Building works] incorporates most of the items of SoR-2011 with deletion of few obsolete items, merger of similar items and addition of new items in line with emerging trends in construction industry.
3. Many new items using new materials and latest technology have also been added. Efforts have been made to introduce items pertaining to execution of different works by using various electrical and mechanical equipments i.e. excavators, tower cranes, mobile cranes, Batch Mix Plant, Transit mixers and concrete pumps, piling rigs, hammers etc. Built-in provision has been taken in the analysis of rates for new construction technology/ mechanization.
4. Special emphasis has been given to adopt of green building concept in SoR 2017 which will help in the construction of different structures. Several items related to the green building parameters have been introduced so to minimize the consumption of energy during construction stage as well as during occupancy of buildings. This can be achieved by using low energy consuming materials, thermal insulating materials, advanced building technology with eco-friendly materials, optimum design, minimizing wastages and minimizing use of water, while ensuring optimum comfort to the users.
5. Brand names of materials have not been considered in the nomenclature of items to make them generic in nature.
6. The Schedule of Rates is based on the study and consideration of current market rates of materials and labour at Agartala, collected during the period of September 2016 to October 2016.
7. The following are the salient features of SoR-2017:
 - 7.1. Generally, the basic materials, incorporated in the schedule, are pertaining to materials conforming to BIS standard/CPWD Specifications/Materials of best quality available in the market which includes all duties, levies, octroi charges, toll tax, sale tax, VAT, municipal tax and other local taxes etc. including surcharges if any.
 - 7.2. In addition to materials & labour, the contractor has to spend amounts towards machinery, T&P, scaffolding, nails bolts etc. Hence, additional percentage over and above the cost of materials and labour is proposed in each item as per requirements observed at construction sites.
 - 7.3. These days due to shortage of skilled labour in Tripura, for all-important works, labours are required to be imported and stationed at site of work. Hence, the contractor has to incur expenditure towards labour import, hutments, labour license, P.F. account, safety

belts, helmets, medical etc. In addition, sometimes he has to incur the expenditure towards overtime wages, break down of machinery etc. and to cover all these expenditures 3% cost of item is added in each item towards sundries and contingencies.

- 7.4. It is proposed to add 1% towards water supply in items where no electricity is used, 0.5% towards electricity in items where no water is used and 1.5% if both water and electricity is used. However, it is pertinent to note that some Department/Clients allow free use of water and/or electricity and in that case the addition towards water charges and /or electricity (as the case may be) shall be excluded while working out the rate for the item.
- 7.5. At the end of each item 15% of the cost of item is added towards overheads (5%) and contractor's profit (10%). This provision covers apart from contractor's profit the expenditure towards the salaries and other expenses of staff right from project manager, store keeper, site engineers to office attendant, the expenditure on construction of site office etc.
- 7.6. The description of items is given briefly and linked with relevant Sections and Clauses of CPWD Specification.
- 7.7. Basic rates of relevant/related materials are provided sub-head wise at the start of each sub-head for convenience of the users.
- 7.8. Provision of Coarse sand has not been kept in all relevant items, because the same is not generally available in Tripura. However, if design dictates for use of coarse sand, then separate analysis may be made as per site condition.

8. Sub-head wise salient features are as follows:

- 8.1. **Carriage of Materials:** The rate analyzed for both Mechanical transport and manual carrying including loading, unloading and stacking which also includes contractor's profit and overheads. However, the basic rates for Carriage codes (used for analysis of respective items) are exclusive of contractor's profit and overheads, for a distance of **5 km.** to generalize the whole schedule.
- 8.2. **Earth Work:** Items of Earthwork in excavation in all kinds of soil by manual means have been modified and merger of manual and mechanical means have been incorporated to achieve quick progress and economy in construction.
- 8.3. **Mortars:** Mixing of Cement and sand is considered manually. The cement mortar is mixed in a mixer only if larger quantities of mortar are required. Work labours are employed for all general works for mixing the mortar manually. Extra @ 5% for labour charges & hire charges, water charges, sundries and contingencies in case of mechanical mixing of mortar may be added.
- 8.4. **Concrete Work:** SoR-2017 formulated various items for different grades under Ordinary mix and Nominal Mix Cement concrete and worked out details analysis of the item to calculate the correct rate

for the execution of work which shall be of immense help to the engineers desirous of following the revised edition of IS: 456.

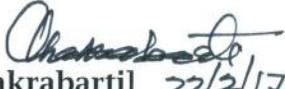
- 8.5. **Reinforced Cement Concrete:** Provision for both Ordinary Mix and Design Mix are kept in SoR-2017. Provision kept in form works using timber planks, pre-laminated ply and steel shutter. In case of Design Mix, the quantity of cement considered for calculation is 410 kg/cum. for M25 Grade Concrete. This schedule kept a provision for reinforcement couplers for mechanical splices of bars.
- 8.6. **Brick Work:** Consumption of bricks has been considered as per the sizes of the bricks available in Tripura. Provision of precast cement concrete solid block for using in boundary wall and retaining wall has been kept in the schedule.
- 8.7. **Marble & Granite Work:** Provision of marble and granite work of different thickness [18 mm and 14 mm] is kept in the schedule. Besides high quality Italian marble stone has in incorporated in the schedule.
- 8.8. **Wood Work:** New items like 35mm factory made laminated veneer lumber door shutter, Flat pressed 3 layer particle board for wall paneling in shelves, vision panel, wire gauze shutters, expandable fasteners, wooden wall lining, wooden battens, wooden skirting, wooden molded beading, fly proof galvanized M.S. wire gauge, brass fittings, PTMT fittings, tubular type hydraulic door closer (aluminium), Partition wall of Calcium Silicate Board & double skin non- asbestos multipurpose cement board, magnetic catcher in cupboard / ward robe, sliding arrangement in racks/ cupboards/cabinets shutter by P/F stainless steel rollers, hollow section UPVC doors and frame, PVC flush door shutters, solid panel PVC door shutter, solid both side pre-laminated panel PVC door shutter, Pre-laminated particle board flat pressed three layer or graded wood particle board, fibreglass reinforced plastic (F.R.P.) flush door shutter (fire retardant grade), PVC rigid foam sheet, Fire retardant plywood & Marine plywood shutters, decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish, Fiberglass Reinforced plastics (F.R.P.) chajja, wall paneling of calcium silicate board, Gypsum board & Non-asbestos multipurpose cement board reinforced, high density Fiberboard (HDF) door shutters, Phenol bonded Bamboo wood shutter, acoustic wall paneling have been included.
- 8.9. **Steel Work:** New items for Structural steel work of Yields strength 310 MPa, +240 MPa, Stainless steel railing of Grade 304 have been included.
- 8.10. **Flooring:** New items like Bamboo wooden flooring, laminated wooden flooring, glass mosaic tiles, crazy marble stone, crazy ceramic tiles flooring, Turf paver, marble flooring of different thickness [14 mm & 18 mm] have been included.
- 8.11. **Roofing:** New items for underdeck insulation, high Albedo paint for solar reflection, mineral fiber false ceiling, glass fiber reinforced gypsum tiles false ceiling, calcium silicate false ceiling are included.

- 8.12. **Finishing:** New items like white cement based putty and for introducing green building concept, various Painting work with low VOC content have been included
- 8.13. **Repair to Building:** New items are incorporated for routine maintenance work. For exterior side repair works cup lock type scaffolding system has been included.
- 8.14. **Dismantling and Demolishing:** Rates of the items updated.
- 8.15. **Sanitary Installations:** New items like uPVC pipe, sensor operating urinal, wall mounted water closet have been included.
- 8.16. **Water Supply:** New item like Battery based, sensor based pillar cock has been included.
- 8.17. **Drainage:** Rates of the items updated.
- 8.18. **Pile Work:** Item for bored cast-in-situ RCC piles has been divided in two parts. The equipment for boring the piles has been defined by using tripod & mechanical winch machine and telescopic boom hydraulic piling rig. Integrity testing of pile has been included.
- 8.19. **Aluminium Work & Structural glazing:** New items for structural glazing have been included.
- 8.20. **Waterproofing:** New items for structural rehabilitation works have been included.
- 8.21. **Bamboo & Thatch roofing:** Rates of the items updated.

Due care has been taken to print the Schedule of Rates as correctly as possible. It is however, possible that some errors will have crept in. In case any error or omission is noticed, it may be brought to the notice of the Superintending Engineer, Project Circle, PWD(Buildings), New Secretariat Complex, Block No.7, Agartala, Tripura.

Suggestions for improvement are always welcome.

Agartala, Tripura
February, 2017


[A Chakrabarti] 22/2/17
Superintending Engineer
Project Circle, PWD(Buildings)
Tripura

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BASIC RATES



BASIC RATES
0.1 HIRE CHARGES OF PLANTS

Code No.	Description	Unit	Rate
0101	Carriage of concrete by transit mixer.	km/ cum	₹ 32.00
0102	Concrete joint cutting machine.	per day	₹ 981.00
0103	Front end loader	per day	₹ 963.00
0104	Generator 250 KVA.	per day	₹ 1,278.00
0105	Hand Grinder For mirror polish	per day	₹ 275.00
0106	Hire and running charges of bentonite pump.	per day	₹ 4,200.00
0107	Hire and running charges of crane 20 tonne capacity.	per day	₹ 10,091.00
0108	Hire and running charges of hydraulic piling rig with power unit etc.including complete accessories and shifting at site.	per day	₹ 34,000.00
0109	Hire and running charges of light crane.	per day	₹ 2,484.00
0110	Hire and running charges of loader.	per day	₹ 5,250.00
0111	Hire and running charges of tipper	per day	₹ 2,250.00
0112	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories.	per day	₹ 35,000.00
0113	Hire charges of Concrete Mixer 0.25- 0.40 cubic metre with hopper	per day	₹ 1,350.00
0114	Hire charges of Derrick monkey rope	per day	₹ 864.00
0115	Hire charges of Diesel Road Roller - 8 to 10 tonne	per day	₹ 2,653.00
0116	Hire charges of Diesel Truck - 9 tonne	per day	₹ 2,650.00
0117	Hire charges of Pump set of capacity 4000 litres/hour.	per day	₹ 657.00
0118	Hydraulic Excavator (3D) with driver and fuel.	per day	₹ 1,296.00
0119	Joint cutting machine with 2-3 blades	per day	₹ 1,800.00
0120	Machine for rubbing of floors	per day	₹ 380.00
0121	Mobile crane.	per day	₹ 7,560.00
0122	Paint applicator	per day	₹ 1,450.00
0123	Pin vibrator	per day	₹ 382.00
0124	Production cost of concrete by batch mix plant.	cum	₹ 450.00
0125	Pumping charges of concrete including Hire charges of pump,piping work & accessories etc.	cum	₹ 175.00
0126	Surface Vibrator	per day	₹ 436.00
0127	Tractor with ripper attachment.	per day	₹ 1,472.00
0128	Tractor with trolley.	per day	₹ 1,744.00
0129	Vibrator (Needle type 40mm)	per day	₹ 436.00
0130	Water tanker 5 - 6 kl	per hour	₹ 310.00

Code No.	Description	Unit	Rate
0131	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories	per day	₹ 2,200.00
0132	Hire and running charges of drill machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary soil and operator)	per day	₹ 7,900.00
0133	Pile Integrity testing equipment	per day	₹ 3,200.00
0134	Hire Charges of Suction Jetting machine 2200 PSI machine i/c POL and operator	per day	₹ 37,000.00
0135	Hire charges of Spraying machine including electric charges	per day	₹ 285.00
0136	Air compressor	per hour	₹ 230.00
0137	Using cost of Ultra Violet Radiation tube	per hour	₹ 230.00
0139	Compressor, gun, rubber pipes & other accessories-hire charge of plant & machinery i/c necessary fuel	per day	₹ 5,000.00
0140	Hire charges of Drill machine upto 30 mm dia	per day	₹ 185.00
0141	Hire charges of sand blasting equipment	per day	₹ 500.00
0142	Hire charges of compressor	per day	₹ 750.00
0143	Welding charges of shear key to existing reinforcement	each	₹ 2.50
0144	Hire charges of plant and Machinery that can inject 350 kg/day	per day	₹ 125.00

Notes:- Above hire charges include cost of services of operating staff and supply of lubricating oil.

Basic Rates
0.2 LABOUR

Note :- These rates are exclusive of contractor's profit and over heads and are inclusive of wages for weekly day of rest

Code No.	Description	Unit	Rate
0201	Bandhani	Day	₹ 300.00
0202	Bar bender	Day	₹ 300.00
0203	Beldar	Day	₹ 300.00
0204	Beldar - Skilled	Day	₹ 340.00
0205	Bhisti/ Waterman	Day	₹ 300.00
0206	Blacksmith 1st class	Day	₹ 425.00
0207	Blacksmith 2nd class	Day	₹ 380.00
0208*	Carpenter (average)	Day	₹ 400.00
0209	Carpenter 1st class	Day	₹ 425.00
0210	Carpenter 2nd class	Day	₹ 380.00
0211	Chowkidar	Day	₹ 300.00
0212	Coolie/Helper	Day	₹ 300.00
0213	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	₹ 425.00
0214	Fitter (2nd class)	Day	₹ 300.00
0215	Fitter (grade 1)	Day	₹ 380.00
0216	Foreman	Day	₹ 425.00
0217	Glazier	Day	₹ 380.00
0218*	Mason (average)	Day	₹ 400.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0221	Mason (for ornamental stone work) 1st class	Day	₹ 425.00
0222	Mason (for plain stone work) 2nd class)	Day	₹ 380.00
0223	Mason (for plaster of paris work) 1st class	Day	₹ 425.00
0224	Mate	Day	₹ 300.00
0225	Mistry	Day	₹ 380.00
0226	Operator (Pile/ Special machine)	Day	₹ 425.00
0227	Painter	Day	₹ 340.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	₹ 380.00
0229	Skilled torch operator for laying tack	Day	₹ 425.00
0230	Sprayer (for bitumen, tar etc.)	Day	₹ 340.00
0231	Thatcher	Day	₹ 300.00
0232	White Washer	Day	₹ 340.00
0233	Technician	Day	₹ 700.00
0234	Sewerman	Day	₹ 340.00
0235	Nozzleman/ Gunman	Day	₹ 425.00
0236	Pump operator	Day	₹ 425.00
0237	Helper (Technician)	Day	₹ 340.00

Note :- * These rates are average of 1st class and 2nd class categories. This is for use in the analysis of rate only.

Basic Rates
0.3 MATERIALS

Note :- These rates are exclusive of contractor's profit, over heads and carriage but include octroi, royalty, sales tax (VAT) etc.

Code No.	Description	Unit	Rate
01001	Diesel	litre	₹ 54.27
01002	Mobil Oil	litre	₹ 250.00
02001	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	₹ 250.00
02002	Sand (fine) : Local quarry	cum	₹ 300.00
02003	Sand (fine) : Selected quarry	cum	₹ 370.00
02004	Kerosene oil	litre	₹ 48.00
03001	Cement (portland)	tonne	₹ 6,100.00
03002	Cement (white)	tonne	₹ 18,000.00
03003	Marble chips large size above 4 mm White & black	quintal	₹ 541.00
03004	Marble chips up to 4mm and downsize White & black	quintal	₹ 541.00
03005	Marble dust/ powder	cum	₹ 3,780.00
03006	Mud (dry)	cum	₹ 28.00
03007	Stone dust	cum	₹ 2,600.00
04001	Brick Aggregate (Single size) : 40 mm nominal size	cum	₹ 2,550.00
04002	Brick Aggregate (Single size) : 20 mm nominal size	cum	₹ 2,975.00
04003	Brick Aggregate (Single size) : 12 mm nominal size	cum	₹ 3,075.00
04004	Stone Aggregate (Single size) : 40 mm nominal size	cum	₹ 3,532.00
04005	Stone Aggregate (Single size) : 25 mm nominal size	cum	₹ 3,969.00
04006	Stone Aggregate (Single size) : 20 mm nominal size	cum	₹ 3,969.00
04007	Stone Aggregate (Single size) : 12 mm nominal size	cum	₹ 4,005.00
04008	Stone Aggregate (Single size) : 10 mm nominal size	cum	₹ 4,040.00
04009	Stone Aggregate (Single size) : 06 mm nominal size	cum	₹ 3,750.00
04010	Local ballies 100/125 mm diameter	metre	₹ 59.00
04011	Paving bitumen S-90 of approved quality	tonne	₹ 36,820.00
04012	Coal (steam)	quintal	₹ 890.00
04013	Second class local wood in scantling	10 cudm	₹ 137.00
04014	Second class local wood in planks	10 cudm	₹ 145.00
04015	Water proofing materials	kilogram	₹ 36.00
04016	Double clip (bridge clip)	each	₹ 119.00
04017	Single clip	each	₹ 97.00
04018	M.S. tube 40 mm dia	metre	₹ 328.00
04019	M.S. tube 50 mm dia	metre	₹ 379.00
04020	Column clamp 450x1070 m	each	₹ 1,628.00
05001	12 mm dia steel pegs	quintal	₹ 5,050.00
05002	Adjustable span ESO+SI (2.35-3.40)	each	₹ 2,327.00
05003	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	₹ 1,452.00
05004	Binding wire	kilogram	₹ 58.00
05005	Bitumen solution primer of approved quality	litre	₹ 52.00

Code No.	Description	Unit	Rate
05006	Bitumen [Blown type petroleum] of penetration 85/25 of approved quality	tonne	₹ 36,820.00
05008	Bolts and nuts 16 mm dia 65 mm long	each	₹ 13.00
05009	Bolts and nuts 20 mm dia 65 mm long	each	₹ 19.00
05010	Bolts and nuts 20 mm dia 70 mm long	each	₹ 19.00
05011	Bolts and nuts 20 mm dia 75 mm long	each	₹ 19.00
05012	Bolts and nuts 20 mm dia 80 mm long	each	₹ 20.00
05013	Bolts and nuts 24 mm dia 85 mm long	each	₹ 38.00
05014	Bolts and nuts 24 mm dia 90 mm long	each	₹ 40.00
05015	Bolts and nuts 27 mm dia 100 mm long	each	₹ 47.00
05016	Bolts and nuts above 300 mm in length	quintal	₹ 5,350.00
05017	Bolts and nuts up to 300 mm in length	quintal	₹ 5,200.00
05018	Cement Concrete Jali 25 mm thick	sqm	₹ 234.00
05019	Cement Concrete Jali 40 mm thick	sqm	₹ 318.00
05020	Cement Concrete Jali 50 mm thick	sqm	₹ 373.00
05021	Copper plate	kilogram	₹ 322.00
05022	Corner angle 45x45x5 m 2.50 m long	each	₹ 400.00
05023	Double coupler	each	₹ 73.00
05024	Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	₹ 415.00
05026	Flats up to 10 mm in thickness	quintal	₹ 3,992.00
05027	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	₹ 12.00
05028	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	₹ 22.00
05030	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	₹ 14.00
05031	Hard drawn steel wire	quintal	₹ 5,268.00
05032	Hard drawn steel wire fabric	sqm	₹ 535.00
05033	Hessian cloth	sqm	₹ 28.00
05034	Mild steel expanded metal 20x60 mm strands	sqm	₹ 314.00
05038	Mild steel round bar 12 mm dia and below	quintal	₹ 4,055.00
05039	Mild steel round bar above 12 mm dia	quintal	₹ 4,010.00
05040	Average rate of Mild steel round bars for reinforcements	quintal	₹ 4,032.00
05041	Mild steel sheets for tanks	quintal	₹ 4,532.00
05042	Mild steel square bars	quintal	₹ 4,140.00
05043	Mild stel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	₹ 27.00
05044	Non - Asbestos multi purpose fibre cement board 6mm thick.	sqm	₹ 225.00
05045	Plastic cone 12 mm dia	each	₹ 18.00
05046	Plasticizer / super plasticizer	kilogram	₹ 41.00
05047	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	₹ 722.00
05048	Prop 2 m (2-3.5m)	each	₹ 1,155.00
05049	Prop 4 m	each	₹ 1,584.00
05050	Rawl plug 50 mm (designation 10 no.)	each	₹ 7.00
05051	Spring coil 12 mm	each	₹ 15.00
05052	Stirrup head	each	₹ 495.00
05053	Straining bolts	each	₹ 79.00
05054	Strips Aluminium fluted 3.15mm thick and 200mm wide metre	Metre	₹ 347.00
05055	Strips-Aluminium fluted 3.15mm thick and 150mm wide	metre	₹ 245.00

Code No.	Description	Unit	Rate
05056	Structural steel such as tees, angles channels and R.S. joists	quintal	₹ 4,267.00
05057	Tie bolt 12 mm dia 100 mm length	each	₹ 52.00
05058	Tie bolt 12 mm dia 150 mm length	each	₹ 69.00
05059	Tie bolt 12 mm dia 450 mm length	each	₹ 155.00
05060	Tie bolt 20 mm dia 150 mm length	each	₹ 98.00
05061	Tie bolt 20 mm dia 225 mm length	each	₹ 121.00
05062	Twisted steel / deformed bars	quintal	₹ 4,102.00
05063	Wall form panel 1250x450 mm	each	₹ 1,560.00
05064	Wall form panel 1250x500 mm	each	₹ 1,698.00
05065	Water proof ply 12mm thick.	sqm	₹ 702.00
05066	Wire nails	kilogram	₹ 66.00
05067	1 mm thick Stainless steel cover plate grade 304	kg	₹ 300.00
05068	Coupler 16 mm dia	each	₹ 75.00
05069	Coupler 20 mm dia	each	₹ 98.00
05070	Coupler 25 mm dia	each	₹ 145.00
05071	Coupler 28 mm dia	each	₹ 215.00
05072	Coupler 32 mm dia	each	₹ 258.00
06001	Brick (1st class)	1000 Nos	₹ 8,027.00
06002	Brick (2nd class)	1000 Nos	₹ 6,690.00
06003	Bitumen felt :Type 3 grade 1	Sqm	₹ 70.00
06004	Gypsum panel 666 X 500 X 100 mm size.	Sqm	₹ 800.00
06005	Bonding plaster for Gypsum panel.	Kg	₹ 78.00
06006	Cement Concrete Soild Blocks	1000 Nos	₹ 10,000.00
07001	8 mm thick granite stone tiles (mirror polished of all shades)	Sqm	₹ 825.00
07002	Granite of any colour, 18 mm thick slab, above 0.50 sqm (areawise)	Sqm	₹ 2,050.00
07003	Granite of any colour, 18 mm thick slab, upto 0.50 sqm (areawise)	Sqm	₹ 2,000.00
07004	Gun metal cramp	kg	₹ 350.00
07005	Raj nagar plain white marble (table rubbed and polished) 18 mm thick above 0.50 sqm	Sqm	₹ 950.00
07006	Raj nagar plain white marble (table rubbed and polished) 18 mm thick upto 0.50 sqm	Sqm	₹ 850.00
07007	Stainless steel cramp	kg	₹ 330.00
07008	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	Sqm	₹ 1,950.00
07009	Table rubbed polished stone 18mm thick (75x50cm) Granite stone - 18mm thick	Sqm	₹ 1,950.00
07010	Wedge expansion hold fastener 1/2" or 12 mm	Each	₹ 31.00
07011	Wedge expansion hold fastener 1/4" or 6 mm	Each	₹ 14.00
07012	Wedge expansion hold fastener 3/8" or 10 mm	Each	₹ 16.00
07013	Raj nagar plain white marble (table rubbed and polished) 14 mm thick upto 0.50 sqm	Sqm	₹ 600.00
07014	Raj nagar plain white marble (table rubbed and polished) 14 mm thick above 0.50 sqm	Sqm	₹ 700.00
07015	Granite of any colour, 14 mm thick slab, upto 0.50 sqm (areawise)	Sqm	₹ 1,700.00
07016	Granite of any colour, 14 mm thick slab, above 0.50 sqm (areawise)	Sqm	₹ 1,750.00
07017	Table rubbed polished stone 14 mm thick (75x50cm) Agaria Marble stone - 14 mm thick	Sqm	₹ 1,550.00
07018	Table rubbed polished stone 14mm thick (75x50cm) Granite stone - 14mm thick	Sqm	₹ 1,550.00

Code No.	Description	Unit	Rate
07019	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm)	Sqm	₹ 3,450.00
07020	18 mm thick Flamed finish granite stone slab	Sqm	₹ 1,950.00
08001	Non - Asbestos multi purpose fibre cement board 8mm thick.	sqm	₹ 313.00
08002	Flat pressed 3 layer particle board (medium density) Grade I :12 mm thick	sqm	₹ 364.00
08003	Extra for veneered particle board with : Teak veneering on one side and commercial veneered on other side	sqm	₹ 292.00
08004	Extra for veneered particle board with : Commercial veneering on both sides	sqm	₹ 185.00
08005	Extra for veneered particle board with : Teak veneering on both sides	sqm	₹ 520.00
08006	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	₹ 870.00
08007	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	₹ 725.00
08008	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	₹ 455.00
08009	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	₹ 208.00
08010	Brass butt hinges (heavy type) : 125x85x5.5 mm(.70)kg	10 Nos	₹ 3,368.00
08011	Brass butt hinges (heavy type) : 100x85x5.5 mm(.56)kg	10 Nos	₹ 2,885.00
08012	Brass butt hinges (heavy type) :75x65x4.0 mm(.20)kg	10 Nos	₹ 1,045.00
08013	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	₹ 3,010.00
08014	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	₹ 2,685.00
08015	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	₹ 2,475.00
08016	Brass parliamentary hinges75x100x20x3.2 mm	10 Nos	₹ 1,845.00
08017	Brass tower bolt (barrel type) 250x10 mm	each	₹ 245.00
08018	Brass tower bolt (barrel type) 200x10 mm	each	₹ 195.00
08019	Brass tower bolt (barrel type) 150x10 mm	each	₹ 155.00
08020	Brass tower bolt (barrel type) 100x10 mm	each	₹ 102.00
08021	Brass handles 125 mm with plate 175x32 mm	each	₹ 155.00
08022	Brass handles 100 mm with plate 150x32 mm	each	₹ 143.00
08023	Brass handles75 mm with plate 125x32 mm	each	₹ 115.00
08024	Brass door latch 300x16x5 mm (0.380 kg)	each	₹ 187.00
08025	Brass door latch 250x16x5 mm (0.350 kg)	each	₹ 178.00
08026	Brass mortice latch and lock 100x65 mm with6 levers and a pair of lever handles	each	₹ 400.00
08027	Brass mortice latch 100x65mm with a pair of brass lever handles	each	₹ 345.00
08028	Brass casement window fastener	Each	₹ 63.00
08029	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	₹ 148.00
08030	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	Each	₹ 125.00
08031	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	₹ 115.00
08032	Brass hasps and staples (safety type) 300 mm	10 Nos	₹ 808.00
08033	Brass hasps and staples (safety type) 115 mm	10 Nos	₹ 678.00
08034	Brass hasps and staples (safety type)90 mm	10 Nos	₹ 575.00

Code No.	Description	Unit	Rate
08035	Brass Night latch	each	₹ 504.00
08036	Brass cupboard knob or ward robe knob 50 mm	each	₹ 40.00
08037	Brass screws 50 mm	100 Nos	₹ 230.00
08038	Brass screws 40 mm	100 Nos	₹ 175.00
08039	Brass screws 30 mm	100 Nos	₹ 145.00
08040	Brass screws 25 mm	100 Nos	₹ 105.00
08041	Brass screws 20 mm	100 Nos	₹ 102.00
08042	Chromium plated Brass handles 125 mm with plate 175 x32 mm	Each	₹ 208.00
08043	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	Each	₹ 180.00
08044	Chromium plated Brass handles 75mm with plate 125x32 mm	Each	₹ 155.00
08045	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	₹ 609.00
08046	Chromium plated brass casement window fastener	each	₹ 102.00
08047	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	₹ 174.00
08048	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	₹ 145.00
08049	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	₹ 130.00
08050	Chromium plated Brass Night latch	each	₹ 558.00
08051	Chromium plated Brass Wardrobe Knob 50 mm	each	₹ 52.00
08052	Chromium plated Brass screws 50 mm	100 Nos	₹ 256.00
08053	Chromium plated Brass screws 40 mm	100 Nos	₹ 228.00
08054	Chromium plated Brass screws 30 mm	100 Nos	₹ 167.00
08055	Chromium plated Brass screws 25 mm	100 Nos	₹ 130.00
08056	Chromium plated Brass screws 20 mm	100 Nos	₹ 108.00
08057	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	₹ 210.00
08058	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	₹ 270.00
08059	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	₹ 380.00
08060	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 Nos	₹ 155.00
08061	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	₹ 100.00
08062	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 Nos	₹ 75.00
08063	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	₹ 75.00
08064	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	₹ 50.00
08065	Bright finished or black enameled mild steel screws 50 mm	100 Nos	₹ 75.00
08066	Bright finished or black enameled mild steel screws 40 mm	100 Nos	₹ 60.00
08067	Bright finished or black enameled mild steel screws 30 mm	100 Nos	₹ 50.00
08068	Bright finished or black enameled mild steel screws 25 mm	100 Nos	₹ 45.00

Code No.	Description	Unit	Rate
08069	Bright finished or black enameled mild steel screws 20 mm	100 Nos	₹ 35.00
08070	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	₹ 10.00
08071	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	₹ 162.00
08072	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	₹ 100.00
08073	Oxidised mild steel butt hinges 75x47x1.70 mm	10 Nos	₹ 75.00
08074	Oxidised mild steel butt hinges 50x37x1.50 mm	10 Nos	₹ 68.00
08075	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	₹ 365.00
08076	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	₹ 335.00
08077	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	₹ 250.00
08078	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	₹ 230.00
08079	Oxidised mild steel single acting spring hinges 150 mm	each	₹ 128.00
08080	Oxidised mild steel single acting spring hinges 125 mm	each	₹ 118.00
08081	Oxidised mild steel single acting spring hinges 100 mm	each	₹ 98.00
08082	Oxidised mild steel double acting spring hinges 150 mm	each	₹ 125.00
08083	Oxidised mild steel double acting spring hinges 125 mm	each	₹ 130.00
08084	Oxidised mild steel double acting spring hinges 100 mm	each	₹ 105.00
08085	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	₹ 62.00
08086	Oxidised mild steel sliding door bolt 300x16 mm	each	₹ 105.00
08087	Oxidised mild steel sliding door bolt 250x16 mm	each	₹ 105.00
08088	Oxidised mild steel door latch 300x20x6 mm	each	₹ 60.00
08089	Oxidised mild steel door latch 250x20x6 mm	each	₹ 48.00
08090	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	₹ 52.00
08091	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	₹ 45.00
08092	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	₹ 40.00
08093	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	₹ 34.00
08094	Oxidised mild steel handles 125 mm	each	₹ 20.00
08095	Oxidised mild steel handles 100 mm	each	₹ 15.00
08096	Oxidised mild steel handles 75 mm	each	₹ 12.00
08097	Oxidised mild steel hasps and staples(safety type) 150 mm	10 Nos	₹ 140.00
08098	Oxidised mild steel hasps and staples(safety type) 115 mm	10 Nos	₹ 120.00
08099	Oxidised mild steel hasps and staples(safety type) 90 mm	10 Nos	₹ 90.00
08100	Oxidised mild steel screws 50 mm	100 Nos	₹ 88.00
08101	Oxidised mild steel screws 40 mm	100 Nos	₹ 75.00
08102	Oxidised mild steel screws 30 mm	100 Nos	₹ 56.00
08103	Oxidised mild steel screws 25 mm	100 Nos	₹ 56.00
08104	Oxidised mild steel screws 20 mm	100 Nos	₹ 45.00
08105	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	₹ 645.00

Code No.	Description	Unit	Rate
08106	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	₹ 580.00
08107	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	₹ 630.00
08108	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	₹ 510.00
08109	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	₹ 530.00
08110	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	₹ 450.00
08111	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	₹ 300.00
08112	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	₹ 230.00
08113	Anodised Aluminium sliding door bolt 300x16 mm	each	₹ 180.00
08114	Anodised Aluminium sliding door bolt 250x16 mm	each	₹ 145.00
08115	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos	₹ 730.00
08116	Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 Nos	₹ 530.00
08117	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	₹ 470.00
08118	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos	₹ 420.00
08119	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	₹ 310.00
08120	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	₹ 400.00
08121	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	₹ 280.00
08122	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	₹ 230.00
08123	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	₹ 140.00
08124	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	₹ 1,700.00
08125	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	₹ 1,600.00
08126	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	₹ 1,500.00
08127	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	₹ 1,050.00
08128	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	₹ 950.00
08129	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	₹ 880.00
08130	Block board construction flush door lipping	sqm of door area	₹ 324.00
08131	Square vision panel in Block board construction flush door	sqm of door area	₹ 135.00
08132	Circular vision panel in Block board construction flush door	Sqm of door area	₹ 210.00
08133	Decorative type Louvers in Block board construction flush door	sqm of door area	₹ 335.00
08134	Rebate cutting in Block board construction flush door	sqm of door area	₹ 98.00
08135	Decorative plywood 4 mm	sqm	₹ 400.00
08136	Glue	kilogram	₹ 135.00
08137	Synthetic enamel paint in all shades except black or chocolate shade	litre	₹ 180.00
08139	Mild steel round bar above 12 mm dia	quintal	₹ 4,010.00

Code No.	Description	Unit	Rate
08143	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	₹ 15.00
08144	Sal wood scantling / plank	10 cudm	₹ 480.00
08145	G.I. plain washer for seam bolts	100 Nos	₹ 40.00
08146	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	₹ 360.00
08147	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm).	sqm	₹ 535.00
08148	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	₹ 455.00
08149	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	₹ 60.00
08150	Brass cupboard lock 6 levers (best make of approved quality) 40 mm size	each	₹ 75.00
08151	Brass cupboard lock 6 levers (best make of approved quality) 50 mm size	each	₹ 85.00
08152	Brass cupboard lock 6 levers (best make of approved quality) 65 mm size	each	₹ 90.00
08153	Brass cupboard lock 6 levers (best make of approved quality) 75 mm size	each	₹ 110.00
08154	Brass hanging type door stopper 150 mm	each	₹ 78.00
08155	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	₹ 625.00
08156	Anodised Aluminium hanging type door stopper	each	₹ 25.00
08157	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mmx42 mm with screws, bolts ,nuts and washers complete	each	₹ 60.00
08158	Anodised Aluminium Casement stay 250 mm	each	₹ 35.00
08159	Nickeled Chromium Brass cupboard lock 40 mm size	each	₹ 75.00
08160	Nickeled Chromium Brass cupboard lock 50 mm size	each	₹ 85.00
08161	Nickeled Chromium Brass cupboard lock 65 mm size	each	₹ 98.00
08162	Nickeled Chromium Brass cupboard lock 75 mm size	each	₹ 125.00
08163	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	₹ 920.00
08164	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	₹ 722.00
08165	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	₹ 825.00
08166	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	₹ 295.00
08167	Pair of Anodised Aluminium lever handles for 100mm mortice latch and lock	each	₹ 350.00
08168	Joint tape roll	roll	₹ 145.00
08169	Dash fastener/ Chemical fastener	each	₹ 30.00
08170	All drive screws (for gypsum board)	100 Nos	
08171	Primer (for gypsum board)	litre	₹ 95.00
08172	Chromium plated brackets (curtain rods)	each	₹ 10.00
08173	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	₹ 275.00
08174	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	₹ 400.00

Code No.	Description	Unit	Rate
08175	Nickel plated M.S. pipe 20 mm dia.	metre	₹ 100.00
08176	Nickel plated M.S. Brackets for curtain rod 20 mm	each	₹ 10.00
08177	Nickel plated M.S. Brackets for curtain rod 25 mm	each	₹ 10.00
08178	Oxidised mild steel screws 35 mm	100 Nos	₹ 55.00
08179	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia.	metre	₹ 65.00
08180	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia.	metre	₹ 75.00
08181	Teak wood lipping of size 25x3 mm in pelmets	metre	₹ 35.00
08182	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	₹ 455.00
08183	Aluminium tee channel (heavy duty) with rollers and stop end	metre	₹ 62.00
08184	Aluminium hanging floor door stopper with twin rubber & stopper	each	₹ 40.00
08185	Hydraulic door closer tubular type Aluminium section body	each	₹ 865.00
08186	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	₹ 34.00
08187	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	₹ 30.00
08188	Oxidised M.S.casement stay (straight peg type) 200 mm not less than 0.24 kg	each	₹ 25.00
08189	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	₹ 1,850.00
08190	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick both sides prelaminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	₹ 2,050.00
08191	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	₹ 2,000.00
08192	Factory made 30 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	₹ 1,700.00
08193	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm on both directions with wire of dia 0.63 mm	sqm	₹ 1,700.00

Code No.	Description	Unit	Rate
08194	Factory made 30 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm on both directions with wire of dia 0.63 mm	sqm	₹ 1,500.00
08195	Laminated veneer lumber confirming to TADSS IS:1995 manufactured in factory in frames of doors, windows	10 cudm	₹ 730.00
08196	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	₹ 62.00
08197	25 mm thick particle board	sqm	₹ 490.00
08198	IIInd class teak wood lipping 25 mm wide x 12 mm thick	metre	₹ 55.00
08199	25 mm thick melamine faced prelaminated three layer particle board	sqm	₹ 850.00
08200	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	₹ 375.00
08201	Expandable fastener with plastic sleeve and M.S. screws. 25 mm long	each	₹ 12.00
08202	Expandable fastener with plastic sleeve and M.S. screws. 32 mm long	each	₹ 14.00
08203	Expandable fastener with plastic sleeve and M.S. screws. 40 mm long	each	₹ 16.00
08204	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	₹ 20.00
08205	12 mm M.S. 'U' beading	metre	₹ 20.00
08206	Glass reinforced Gyp sum (GRG) board 8.5 mm thick	sqm	₹ 270.00
08207	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	₹ 85.00
08208	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm	metre	₹ 95.00
08209	Aluminium single cleat of size 30x32x3	each	₹ 20.00
08210	Aluminium grip strip of size 50x12x2	each	₹ 15.00
08211	25 mm prelaminated flush door both side decorative	sqm	₹ 880.00
08212	Aluminium U beading	kilogram	₹ 250.00
08213	Glass sheet (Pin headed) 4 mm thick	sqm	₹ 345.00
08214	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	₹ 525.00
08215	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)12 mm thick	sqm	₹ 785.00
08216	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)18 mm thick	sqm	₹ 890.00
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	₹ 960.00

Code No.	Description	Unit	Rate
08218	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)12 mm thick	sqm	₹ 815.00
08219	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	₹ 60.00
08220	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	₹ 45.00
08221	PTMT handle 125x34x24mm	Each	₹ 28.00
08222	PTMT handle 150x34x24mm	Each	₹ 32.00
08223	PTMT butt hinges 75x60x10mm	Each	₹ 40.00
08224	PTMT butt hinges 100x75x10mm	Each	₹ 56.00
08225	PTMT Tower bolt 152x42x18mm	Each	₹ 65.00
08226	PTMT Tower bolt 202x42x18mm	Each	₹ 80.00
08227	PTMT door catcher 72x42mm	Each	₹ 27.00
08228	Coir veneered board 4mm thick	sqm	₹ 315.00
08229	Coir veneered board 6mm thick	sqm	₹ 420.00
08230	Coir veneered board 18mm thick	sqm	₹ 1,105.00
08231	24 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	₹ 1,400.00
08232	30 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	₹ 1,520.00
08233	Factory made PVC rigid foam paneled shutter i/c carriage	sqm	₹ 2,275.00
08234	Factory made PVC rigid foam paneled shutter as per IS : 4020 i/c carriage	sqm	₹ 2,685.00
08235	Factory made PVC rigid foam sheet 1mm thick	sqm	₹ 210.00
08236	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	₹ 185.00
08237	Factory made door frame PVC extruded sheet i/c carriage	metre	₹ 350.00
08238	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	₹ 100.00
08239	Stainless steel screws 50 mm	100 Nos	₹ 275.00
08240	Stainless steel screws 40 mm	100 Nos	₹ 215.00
08241	Stainless steel screws 30 mm	100 Nos	₹ 150.00
08242	Stainless steel screws 20 mm	100 Nos	₹ 120.00
08243	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	₹ 360.00
08244	Stainless steel butt hinges 100x58x1.9 mm IS : 12817 marked	10 Nos	₹ 250.00
08245	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	₹ 200.00
08246	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	₹ 150.00
08247	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	₹ 400.00
08248	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	₹ 270.00
08249	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	₹ 230.00
08250	M.S. heavy weight but hinges 125x90x4.0mm IS : 1341 marked.	10 Nos	₹ 360.00

Code No.	Description	Unit	Rate
08251	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos.	₹ 200.00
08252	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 Nos	₹ 110.00
08253	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	₹ 95.00
08254	1mm thick 35mm wide bright finished stainless steel piano hinges .	metre	₹ 55.00
08255	8 mm thick tapered edge calcium silicate board .	sqm	₹ 275.00
08256	10 mm thick calcium silicate board.	sqm	₹ 430.00
08257	Telescopic drawer channels 300mm long .	set	₹ 165.00
08258	Stainless steel roller for sliding arrangement in racks/ cupboards/cabinets shutter .	each	₹ 12.00
08259	50mmX42mmX2mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	₹ 175.00
08260	25mm thick factory made PVC flush door shutter i/c carriage.	sqm	₹ 1,700.00
08261	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage.	metre	₹ 340.00
08262	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage.	sqm	₹ 1,680.00
08263	Factory made solid PVC door frame 60 x 30mm including carriage.	metre	₹ 315.00
08264	28mm factory made solid PVC panel door shutter including carriage.	sqm	₹ 2,000.00
08265	Fiber glass reinforced plastic chajja.	sqm	₹ 3,500.00
08266	Magnetic catcher triple strip vertical type.	each	₹ 25.00
08267	Magnetic catcher double strip horizontal type.	each	₹ 20.00
08268	100 mm mortice lock with 6 levers for aluminium door.	each	₹ 365.00
08269	12.5 mm thick Glass fibre reinforced Gypsum board .	sqm	₹ 215.00
08270	Ceiling sections 0.55 mm thick having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55mm.	metre	₹ 60.00
08271	Perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm.	metre	₹ 35.00
08272	Nylon sleeves & wooden screws (40mm)	each	₹ 5.00
08273	Counter sunk ribbed head screw 25mm.	cent	₹ 85.00
08274	12mm thick marine plywood conforming to IS:710	sqm	₹ 730.00
08275	12mm thick fire retardant plywood conforming to IS: 5509.	sqm	₹ 840.00
08276	1.5mm thick decorative laminated sheet	sqm	₹ 550.00
08277	1.0mm thick decorative laminated sheet	sqm	₹ 360.00
08278	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage.	sqm	₹ 2,000.00
08279	Karai Wood scantlings	10 cudm	₹ 208.00
08280	Local Teak Wood- scantling	10 cudm	₹ 257.00
08281	Other Wood(Jam, Garjan, Chamal)	10 cudm	₹ 194.00
08282	Soft Wood	10 cudm	₹ 163.00
08283	Gamair Wood	10 cudm	₹ 350.00
08284	Ply wood 7 ply with teak ply on both faces 9 mm thick	Sqm	₹ 700.00
08285	Extra for selected planks of Gamair wood	10 cudm	₹ 50.00

Code No.	Description	Unit	Rate
08286	Gamair wood lipping/ moulded beading or Taj beading of size 18 X 5 mm	metre	₹ 15.00
08287	35 mm thick HDF, BWP type Shutter as per IS : 15380 - 2003 & IS : 848	Sqm	₹ 1,720.00
08288	Sal wood - beam	10 cudm	₹ 450.00
08289	Karai wood- beams	10 cudm	₹ 380.00
08290	Local Teak Wood - Planks	10 cudm	₹ 350.00
08291	Bamboo wood shutter for doors	cum	₹ 1,80,000.00
08292	Bamboo wood Panelling	cum	₹ 1,80,000.00
08293	15 mm thick, light weight,fully perforated square/butt edge integral densified,false ceiling tiles of size 595x595 mm.	sqm	₹ 980.00
08294	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	₹ 69.00
08295	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	₹ 87.00
08296	Self tapping pan head nickle coated mild steel screws of size 13 x 3.2 mm	1000 Nos.	₹ 645.00
08297	12 mm dia 50 mm long wedge type expanded zinc alloy dash fastner	each	₹ 10.00
08298	Glass wool 50 mm thick	sqm	₹ 280.00
08299	Calcium silicate base compound for jointing calcium silicate tiles	kilogram	₹ 30.00
08300	Fibre joint tape 50 mm wide (90 metre) roll	each roll	₹ 200.00
08301	Calcium silicate base compound for jointing calcium silicate tiles	kilogram	₹ 32.00
08302	Pre-laminated with decorative lamination on both side exterior Grade-I MDF Board 12 mm thick confirming to IS:14587	Sqm	₹ 460.00
08303	Pre-laminated with decorative lamination on both side exterior Grade-I MDF Board 18 mm thick confirming to IS:14587	Sqm	₹ 597.00
08304	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	₹ 900.00
08305	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 12 mm thick confirming to IS:14587		₹ 450.00
08306	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 18 mm thick confirming to IS:14587		₹ 580.00
08307	PVC edge bending tape 2.00 mm thick	metre	₹ 30.00
08308	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	₹ 40.00
08309	Bright finished or black enameled mild steel screws 25 mm	100	₹ 37.00
08310	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	₹ 40.00
09001	20 mm dia holding down bolts	Quintal	₹ 5,650.00
09002	275 mm long wire spring grade no 2 for rolling shutters	Each	₹ 365.00
09003	Ball bearing for rolling shutters	Each	₹ 300.00

Code No.	Description	Unit	Rate
09005	Circular C.I. Box for ceiling fan	Each	₹ 60.00
09006	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 10.00 sq.m and up to 16.80 sq.m area of door	Sqm	₹ 630.00
09007	Extra for mechanical devices chain and cranked operation for operating rolling shutters exceeding 16.80 sq.m area of door	Sqm	₹ 630.00
09008	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod instead of laths	Sqm	₹ 290.00
09009	Iron pintels including welded pin	Each	₹ 45.00
09010	Mild steel sheets with bolts and nuts to rest on pintels	Each	₹ 135.00
09011	Mild steel tubes electric resistant or induction butt welded	Kilogram	₹ 65.00
09012	Mild steel tubes hot finished seamless type	Kilogram	₹ 60.00
09013	Mild steel tubes hot finished welded type	Kilogram	₹ 56.00
09014	Pulley 25 mm dia	Each	₹ 55.00
09015	Pulley 40 mm dia	Each	₹ 65.00
09016	Rolling shutter made of 80x1.25 mm machine rolled laths	Sqm	₹ 1,340.00
09017	Rolling shutters made of 80x1.2 mm machine rolled laths	Sqm	₹ 1,200.00
09018	Rolling shutters made of 80x0.90 mm machine rolled laths	Sqm	₹ 1,100.00
09019	Top cover for rolling shutters 1.25 mm thick	Metre	₹ 900.00
09020	Top cover of Rolling shutters 0.90 mm thick	Metre	₹ 330.00
09021	Top cover of Rolling shutters 1.20 mm thick	Metre	₹ 350.00
09022	Welding by electric plant in/c wages for welder	Cm	₹ 2.00
09023	Welding by gas plant in/c wages for welder	Cm	₹ 2.00
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 sleeve. Size 10mm x 60mm	10 Nos.	₹ 286.00
09025	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 sleeve. Size 10mm x 80mm	10 Nos.	₹ 330.00
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 sleeve. Size 10mm x 120mm	10 Nos.	₹ 400.00
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 sleeve. Size 10mm x 140mm	10 Nos.	₹ 505.00
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 sleeve. Size 10mm x 160mm	Sqm	₹ 630.00
09029	Stainless steel (Grade-304) hollow section round/square tubes	kg	₹ 250.00

Code No.	Description	Unit	Rate
09030	Stainless steel bolts/square bar and plates	kg	₹ 130.00
09031	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	₹ 286.00
09032	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	₹ 715.00
09033	Steel beading size 10 x 10 x 1.6 mm (box type)	metre	₹ 31.00
09034	Structural hollow steel section conforming to IS: 4923, Grade: Yst 310 or Circular Section conforming to IS: 1161, Grade: Yst 310	kg	₹ 62.00
09035	Structural steel section confirming to IS 2062 -1999 grade B Fe 410, normalized control cooled , yield strength + 250 MPa as per latest IS Code	kg	₹ 49.00
09036	High strength friction grip bolts (HSFG bolts) of class / grade EN 8	kg	₹ 155.00
10023	Pink marble slab plain 18mm thick	Sqm	₹ 890.00
10001	25 mm thick pre-polished colored concrete designer tiles of size 300mm x 300mm (using 50% white cement and 50% ordinary cement)	Sqm	₹ 385.00
10002	8 mm thick marble tiles (polished) Raj Nagar	Sqm	₹ 435.00
10003	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos.	₹ 594.00
10004	Acid proof cement	tonne	₹ 9,000.00
10005	Agaria white marble slab plain 18 mm thick	Sqm	₹ 1,300.00
10006	Aluminium Strip 40 mm wide and 2 mm thick	Kg	₹ 200.00
10007	Black colour dark shade pigment	Kg	₹ 85.00
10008	Black Zebra marble slab plain 18mm thick	Sqm	₹ 571.00
10009	Ceramic Glazed Tiles 1st quality 400 x 400mm in all shades and designs	Sqm	₹ 360.00
10010	Ceramic Glazed Tiles 1st quality 300 x 300mm in all shades and designs	Sqm	₹ 270.00
10011	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs	Sqm	₹ 270.00
10012	Chequered tiles 18 mm thick (dark shade)	sqm	₹ 195.00
10013	Chequered terrazzo tiles 22 mm thick(light shade)	sqm	₹ 330.00
10014	Glass strip 40 mm wide 4 mm thick	metre	₹ 22.00
10017	Green or blue medium shade pigment	Kg	₹ 85.00
10018	Hardening Compound	Kg	₹ 50.00
10019	High polymer modified quickset tile adhesive	Kg	₹ 12.00
10020	Kota stone slab 20 mm to 25 mm thick (semi-polished)	Sqm	₹ 335.00
10024	Precast terrazzo tiles 22 mm thick (light shade)	sqm	₹ 290.00
10025	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	Sqm	₹ 470.00
10026	Rectified Ceramic Glazed Tiles 1st quality 300x 300 or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	Sqm	₹ 400.00
10027	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	Kg	₹ 85.00
10028	Udaipur green marble slab plain 18mm thick	Sqm	₹ 875.00
10029	Vitrified floor tile 100x100 cm conforming to IS: 15622 : 2006 Group (B 1 a)	Sqm	₹ 1,400.00
10030	Vitrified floor tile 50x50 cm conforming to IS: 15622 : 2006 Group (B 1 a)	Sqm	₹ 510.00

Code No.	Description	Unit	Rate
10031	Vitrified floor tile 60x60 cm conforming to IS: 15622 : 2006 Group (B 1 a)	Sqm	₹ 615.00
10032	Vitrified floor tile 80x80 cm conforming to IS: 15622 : 2006 Group (B 1 a)	Sqm	₹ 860.00
10034	White marble slab Markana second quality plain veined 18 mm thick	Sqm	₹ 2,000.00
10035	White marble slab Markana second quality plain veined 14 mm thick	Sqm	₹ 1,700.00
10041	Agaria white marble slab plain 14 mm thick	Sqm	₹ 1,000.00
10042	Black Zebra marble slab plain 14mm thick	Sqm	₹ 435.00
10043	Udaipur green marble slab plain 14mm thick	Sqm	₹ 750.00
10044	Pink marble slab plain 14mm thick	Sqm	₹ 795.00
10045	Ceramic Glazed Tiles 1st quality 600 x 600mm in all shades and designs	Sqm	₹ 430.00
10046	Epoxy grout	kg	₹ 380.00
10047	Border tiles	each	₹ 17.00
10048	Ceramic Tiles Pieces for Crazy Flooring	quintal	₹ 140.00
10049	Synthetic polyster triangular fibre of length 12 mm, effective dia. 10-40 microns and specific gravity of 1.34 to 1.40	kg	₹ 375.00
10050	White marble rajnagar plain stone pieces for crazy flooring	quintal	₹ 160.00
10051	Tile fixing chemical adhesive	kg	₹ 22.00
10052	Glass mosaic tiles (20 mm x 20 mm x 4 mm)	sqm	₹ 1,185.00
10053	Cement polymer Grout Compound	kg	₹ 30.00
10054	Acid for cleaning tiles	litre	₹ 20.00
10055	500x500x40 mm thick Turf paver	sqm	₹ 580.00
10056	Bamboo wood Tile Flooring 14mm thick of minimum size 1800mm x 130mm	sqm	₹ 3,775.00
10057	Bamboo wood Quarter Round 18mm thick of size 1900mm x 18mm	metre	₹ 125.00
10058	Bamboo wood door reducer 14mm thick of size 1900mm x 44mm	metre	₹ 275.00
10059	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3	sqm	₹ 18.00
10060	Silicon based Joint Sealant for Tiles	kg	₹ 150.00
10061	Rubber base Adhesive	kg	₹ 160.00
10062	Bamboo wood Skirting 14mm thick of Size 1900mm x 85mm	metre	₹ 325.00
10063	Bamboo wood Tile Wall Cladding 10mm thick of size 1900mm x 135mm	sqm	₹ 3,375.00
10064	Bamboo wood T-mold 14mm thick of size 1900mm x 44mm	metre	₹ 275.00
10065	Bamboo wood Threshold 14mm thick of size 1900mm x 44mm	metre	₹ 275.00
10066	Expanded poly ethylene Foam sheet 1mm thick of Density 40kg/m3	sqm	₹ 8.50
10067	Laminated wooden plank for Flooring 8mm thick of minimum size 1202mm x 192mm : AC3 Grade	sqm	₹ 985.00
10068	Laminated wooden plank for Flooring 8mm thick of minimum size 1202mm x 192mm : AC4 Grade	sqm	₹ 1,200.00
10069	Laminated wood T-profile 15mm thick of size 2286mm x 45mm	metre	₹ 295.00
10070	Laminated wood door reducer 12mm thick of size 2286mm x 45mm	metre	₹ 295.00

Code No.	Description	Unit	Rate
10071	Laminated wooden Skirting 12mm thick of Size 2286mm x 60mm	metre	₹ 208.00
11001	12 thick particle board ceiling tile	sqm	₹ 125.00
11002	200G virgin polythene sheet	sqm	₹ 6.00
11003	3 mm thick translucent white acrylic plastic sheet	sqm	₹ 590.00
11004	Adjustment clip 85x30x0.8 mm	each	₹ 6.00
11005	All drive screws (for gypsum board)	100 Nos	₹ 65.00
11006	Bitumen washer	100 Nos	₹ 32.00
11011	Dash fastener 6 mm dia 50 mm long	each	₹ 10.00
11012	Dash fastener/ Chemical fastener	each	₹ 14.00
11013	Expanded polystyrene type - SE 50 mm thick	sqm	₹ 165.00
11014	Expanded polystyrene type N- Normal 50 mm thick	sqm	₹ 135.00
11017	G.I. Limpet washer	100 Nos	₹ 37.00
11018	G.I. plain washer for seam bolts	100 Nos	₹ 32.00
11019	Galvanised steel corrugated sheets	quintal	₹ 5,635.00
11020	Galvanised steel J or L hooks 8 mm dia	10 Nos	₹ 125.00
11023	Hanger rod 4 mm thick	each	₹ 10.00
11025	Galvanised Steel Intermediate cross T section 24x25x0.33 mm (0.6 mtrs)	each	₹ 20.00
11026	Galvanised Steel Intermediate cross T section 24x25x0.33 mm (1.2 mtrs)	each	₹ 39.00
11027	Joint filler	kilogram	₹ 30.00
11028	Joint finisher	kilogram	₹ 27.00
11029	Joint tape roll	roll	₹ 115.00
11030	Galvanised Steel Main T ceiling sections 24x38x0.33 mm (3 metre long)	each	₹ 116.00
11033	Galvanised Steel Perimeter wall angle 24x24x0.40 mm (3 metre long)	each	₹ 85.00
11034	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	₹ 130.00
11036	Polyvinyl chloride sheet 400 micron thick	sqm	₹ 42.00
11037	Pre-painted Galvalume sheet 0.40 mm	sqm	₹ 400.00
11038	Pre-painted Galvalume sheet 0.45 mm	sqm	₹ 430.00
11039	Pre-painted Galvalume sheet 0.50 mm	sqm	₹ 515.00
11040	Pre-painted Galvalume sheet 0.60 mm	sqm	₹ 610.00
11041	Pre-painted Galvalume sheet 0.80 mm	sqm	₹ 812.00
11042	Pre-painted Galvalume sheet plain ridges/Valley/Gutter/Flashing 0.45mm thick	metre	₹ 240.00
11043	Pre-painted Galvalume sheet plain ridges/Valley/Gutter/Flashing 0.4mm thick	metre	₹ 230.00
11044	Pre-painted Galvalume sheet plain ridges/Valley/Gutter/Flashing 0.5mm thick	metre	₹ 282.00
11045	Pre-painted Galvalume sheet plain ridges/Valley/Gutter/Flashing 0.6mm thick	metre	₹ 340.00
11046	Pre-painted Galvalume sheet plain ridges/Valley/Gutter/Flashing 0.8mm thick	metre	₹ 434.00
11049	Pre-coated galvanised iron profile sheet 0.50 mm TCT	sqm	₹ 400.00
11054	Pre-coated galvanised steel plain ridges/Valley/Gutter/Flashing 0.5mm thick	metre	₹ 245.00
11057	Pressed clay tiles	1000 Nos	₹ 10,000.00
11058	Resin Bonded Glass wool 16 kg/m ³ 50 mm thick	sqm	₹ 112.00
11059	Resin Bonded Glass wool 24 kg/m ³ 50 mm thick	sqm	₹ 160.00
11062	Soffit cleat (Size 27x37x25x1.60 mm)	each	₹ 5.00

Code No.	Description	Unit	Rate
11066	u-PVC bend 87.5° 110 mm bend	each	₹ 69.00
11067	u-PVC bend 87.5° 75 mm bend	each	₹ 41.00
11068	u-PVC coupler for UPVC drainage pipes 110 mm	each	₹ 46.00
11069	u-PVC coupler for UPVC drainage pipes 75 mm	each	₹ 22.00
11070	u-PVC pipe clip 110 mm bend	each	₹ 19.00
11071	u-PVC pipe clip 75 mm bend	each	₹ 18.00
11072	u-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 110 mm dia.	each	₹ 14.00
11073	u-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 75 mm dia.	each	₹ 9.00
11074	u-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 110 mm dia.	metre	₹ 150.00
11075	u-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 75 mm dia.	metre	₹ 80.00
11076	u-PVC plain shoe 110 mm bend	each	₹ 55.00
11077	u-PVC plain shoe 75 mm bend	each	₹ 31.00
11078	u-PVC pushfit coupler (single) 110 mm thick	each	₹ 38.00
11079	u-PVC pushfit coupler (single) 75 mm thick	each	₹ 22.00
11080	u-PVC single equal Tee (with door) 110x110x110 mm	each	₹ 108.00
11081	u-PVC single equal Tee (with door) 75x75x75 mm	each	₹ 69.00
11082	u-PVC single equal Tee (without door) 110x110x110 mm	each	₹ 95.00
11083	u-PVC single equal Tee (without door) 75x75x75 mm	each	₹ 54.00
11084	UV stabilised 2 mm thick corrugated FRP sheet .	sqm	₹ 585.00
11085	UV stabilised 2 mm thick plain FRP sheet .	sqm	₹ 515.00
11087	Wire mesh (rabbit)	sqm	₹ 45.00
11088	Resin Bonded Rockwool 48 kg/m ³	sqm	₹ 135.00
11089	High Albedo paint	kg	₹ 260.00
11090	Galvanised Steel ceiling sections 80x26x0.5 mm	metre	₹ 53.00
11091	Galvanised Steel Perimeter channel 20x27x30x0.50 mm	metre	₹ 26.00
11092	Galvanised Steel Intermediate channel 15x45x15x0.90 mm	metre	₹ 44.00
11093	Galvanised Steel angle hanger (ceiling angle: 25x10x0.50 mm)	metre	₹ 15.00
11094	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	₹ 5.00
11095	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	₹ 4.00
11096	12.5 mm thick tapered edge gypsum plain board	sqm	₹ 190.00
11097	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	₹ 6.00
11098	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	₹ 7.00
11099	Primer (for gypsum board)	litre	₹ 80.00
11100	12.5 mm thick tapered edge gypsum fire resistant board	sqm	₹ 287.00
11101	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	₹ 320.00
11102	12.5 mm thick Fully Perforated Gypsum Plaster Board	sqm	₹ 490.00
11103	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	₹ 575.00

Code No.	Description	Unit	Rate
11104	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	₹ 675.00
11105	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	₹ 515.00
11106	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	₹ 540.00
11107	Calcium Silicate tegular edged ceiling tiles 495x495 mm and 15 mm thick	sqm	₹ 935.00
11108	8mm thick Calcium silicate perforated tiles of size 595x595mm	sqm	₹ 735.00
11109	8 mm thick tapered edge calcium silicate board	sqm	₹ 285.00
11110	15 mm thick, light weight, integral densified micro look edged,false ceiling tiles of size 595x595 mm.	sqm	₹ 990.00
11111	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	₹ 28.00
11112	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	₹ 16.00
11113	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	₹ 35.00
11114	40 mm long S.S screws with plastic rawl plugs	each	₹ 3.50
11115	Powder coated steel section main-T ceiling sections 15x42x0.40 mm (3000 mm long)	each	₹ 248.00
11116	Galvanized mild steel perimeter wall angle 22x19x0.40 mm (3000 mm long)	each	₹ 121.00
11117	Powder coated Galvanised Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long)	each	₹ 100.00
11118	Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40mm (600 mm long)	each	₹ 50.00
11119	15 mm thick, light weight, integral densified micro look edged,false ceiling tiles of size 595x595 mm.	sqm	₹ 990.00
11120	Galvanized iron main-T ceiling sections 15x32x0.33 mm (3000 mm long)	each	₹ 208.00
11121	Galvanized iron intermediate crossT section 15x32x0.33 mm (1200 mm long)	each	₹ 85.00
11122	Galvanized iron intermediate crossT section 15x32x0.33 mm (600 mm long)	each	₹ 38.00
11123	12 mm thick micro tegular edged semi perforated GFRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x 595 mm	sqm	₹ 692.00
11124	12 mm thick micro tegular edged fully perforated GFRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x 595 mm	sqm	₹ 780.00
11125	With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6)	sqm	₹ 865.00
11126	20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7)	sqm	₹ 1,095.00
11127	Mineral fibre beveled tegular edged ceiling tiles 595x595 mm, 16 mm thick with bioblock, confirming to ISO 5 (class 100) specifications	sqm	₹ 945.00
11007	Bright finished or black enameled mild steel screws 40 mm	100 Nos	₹ 69.00
11015	Flame retardant face insulating board: 12 mm thick	sqm	₹ 360.00
11016	Fuel wood	quintal	
11021	Galvanised steel plain sheets	quintal	₹ 5,235.00

Code No.	Description	Unit	Rate
11031	Natural colour insulating board:12 mm thick	sqm	₹ 242.00
11035	Plug	each	₹ 11.00
11060	Roofing paint for iron sheets in red colour	litre	₹ 125.00
11061	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	₹ 45.00
11064	Standard quality hard board sheet 3 mm thick	sqm	₹ 145.00
11065	Standard quality hard board sheet 4.5 mm thick	sqm	₹ 165.00
11086	White face insulating board:12 mm thick	sqm	₹ 275.00
12001	Red oxide Zinc chromate primer	Kg	₹ 75.00
12002	Acrylic distemper 1st quality having VOC content less than 50 gm / litre	Kg	₹ 45.00
12003	Acid proof paint (chocolate or black)	Litre	₹ 230.00
12004	Acrylic exterior paint	Litre	₹ 185.00
12005	Aluminium paint	Litre	₹ 142.00
12006	Aluminium primer	Litre	₹ 95.00
12007	Ammonium chloride	Kg	₹ 25.00
12008	Anticorrosive bituminous paint (black)	Litre	₹ 115.00
12009	Black Japan Paint	Litre	₹ 110.00
12010	Cement primer	Litre	₹ 71.00
12011	Coal Tar	Litre	₹ 35.00
12012	Colouring material	Kg	₹ 75.00
12013	Copper acetate	Kg	₹ 320.00
12014	Copper chloride	Kg	₹ 310.00
12015	Copper nitrate	Kg	₹ 235.00
12016	Crushed stone 2.36 mm to 12.5 mm size	Cum	₹ 2,850.00
12017	Dehradun white lime	Kg	₹ 7.50
12018	Dry distemper	Kg	₹ 35.00
12019	Dry hydrated lime (factory made)	Kg	₹ 320.00
12020	Epoxy paint	Litre	₹ 250.00
12021	Fire retardant paint	Litre	₹ 290.00
12022	Floor enamel paint in all shades except green	Litre	₹ 130.00
12023	Glue	Kg	₹ 135.00
12024	Hydrochloric acid	Kg	₹ 45.00
12025	Indigo	Kg	₹ 65.00
12026	Linseed oil (double boiled)	Litre	₹ 210.00
12027	Oil bound washable distemper/ Acrylic distemper	Kg	₹ 52.00
12028	Oil type wood preservative	Litre	₹ 155.00
12029	Ordinary varnish	Litre	₹ 110.00
12030	Pink or grey primer (for wood)	Litre	₹ 94.00
12031	Plaster of Paris	Kg	₹ 6.50
12032	Plastic emulsion paint	Litre	₹ 220.00
12033	Premium Acrylic smooth exterior paint	Litre	₹ 218.00
12034	Distemper Primer	Litre	₹ 70.00
12035	Soft water	Litre	₹ 3.00
12036	Spirit	Litre	₹ 72.00
12038	Superior copal varnish	Litre	₹ 145.00
12039	Superior spar varnish	Litre	₹ 145.00
12040	Synthetic enamel paint in all shades except black or chocolate shade	Litre	₹ 155.00
12041	Synthetic enamel paint in black or chocolate shade	Litre	₹ 185.00
12042	Textured exterior paint	Litre	₹ 245.00
12043	Water proofing cement paint	Kg	₹ 44.00

Code No.	Description	Unit	Rate
12044	Wax polish (ready made)	Kg	₹ 265.00
12045	White lead	Kg	₹ 155.00
12046	Whiting	Kg	₹ 6.50
12047	Wood filler (Shellac)	Kg	₹ 330.00
12048	White cement based putty	kg	₹ 25.00
12049	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre	litre	₹ 60.00
12050	Exterior primer	kg	₹ 55.00
12051	Multi Surface Paint	litre	₹ 275.00
12052	Special primer (C.W.)	litre	₹ 160.00
12053	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	litre	₹ 135.00
12054	Ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	litre	₹ 130.00
12055	Water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	litre	₹ 67.00
12056	Silicon and acrylic emulsion	litre	₹ 150.00
12057	Acrylic emulsion, having VOC content less than 50 grams/ litre	litre	₹ 198.00
12058	Premium acrylic emulsion paint of interior grade, having VOC content less than 50 grams/ litre	litre	₹ 225.00
12059	Synthetic enamel paint, having VOC content less than 150 grams/ litre	litre	₹ 214.00
12060	Premixed super white gypsum plaster	kg	₹ 6.00
12061	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	₹ 405.00
13003	Putty for wood work	Kg.	₹ 35.00
13005	Local teak wood fillets.	Cum.	₹ 31,465.00
13006	Gamir wood fillets.	Cum.	₹ 34,326.00
13007	Soft wood fillets.	Cum.	₹ 12,960.00
13008	Sal wood batten	Cum.	₹ 29,160.00
13009	Karai wood batten	Cum.	₹ 22,680.00
13010	Soft wood batten	Cum.	₹ 12,960.00
13011	Base Jack	each	₹ 168.00
13012	Spigot for standard jointing	kg	₹ 51.00
13013	Challies	each	₹ 896.00
13014	Cup lock	each	₹ 58.00
13015	Water for jetting / blowback	1000 litre	₹ 1,000.00
13016	PVC slotted pipe 200 mm dia as per IS: 12818	metre	₹ 785.00
13017	Wheel 75 mm dia. 40 mm wide	each	₹ 80.00
15001	C.I. pile shoe.	kg	₹ 59.00
15002	M.S. clamps for pile shoe.	kg	₹ 52.00
15003	Bentonite.	tonne	₹ 3,220.00
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.	Per Test	₹ 29,250.00

Code No.	Description	Unit	Rate
15005	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	Per Test	₹ 39,000.00
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	₹ 48,950.00
15007	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.	Per Test	₹ 14,985.00
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	₹ 23,865.00
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	₹ 29,970.00
15010	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.	Per Test	₹ 14,985.00
15011	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile above 50 tonne capacity.	Per Test	₹ 23,865.00
16001	Aluminium T or L sections	kilogram	₹ 220.00
16002	6 mm dia. G.I. adjustable hangers including clips (up to 1.2 m length)	each	₹ 33.00
16003	Aluminium casement window fastener (Anodised AC 15)	each	₹ 42.00
16004	Aluminium casement window fastener (polyester powder coated).	each	₹ 50.00
16005	Aluminium casement window fastener (powder coated).	each	₹ 46.00
16006	Aluminium round shape handle (anodised AC 15)	each	₹ 53.00
16007	Aluminium round shape handle (polyester powder coated).	each	₹ 66.00
16008	Aluminium round shape handle (powder coated)	each	₹ 57.00
16011	Aluminium washer 2 mm thick 15 mm dia	100 Nos	₹ 11.00
16012	Anodising 15 microns on aluminium sections	kilogram	₹ 40.00
16013	Anodising 25 microns on aluminium sections	kilogram	₹ 50.00
16014	Cadmium plated full threaded steel screws (30x4 mm dia.)	100 Nos	₹ 35.00
16015	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	₹ 60.00
16016	Double action hydraulic floor spring with brass cover plate	each	₹ 1,780.00

Code No.	Description	Unit	Rate
16017	Double action hydraulic floor spring with stainless steel cover plate	each	₹ 1,650.00
16018	Hermetically sealed double glazed unit made with 6mm thick clear float glass both side having 12 mm air gap.	sqm	₹ 2,200.00
16019	Masking tape.	metre	₹ 3.00
16020	Neoprene/EPDM rubber gasket	metre	₹ 30.00
16021	Polyester powder coating 50 microns on aluminium sections	kilogram	₹ 70.00
16022	Powder coating 50 microns on aluminium sections.	kilogram	₹ 64.00
16023	Silicon sealant.	cartridge	₹ 350.00
16024	Stainless steal screws 30mm x4mm.	cent	₹ 38.00
16025	Stainless steel (SS 304 grade) adjustable friction window stay 255 x19mm	each	₹ 235.00
16026	Stainless steel (SS 304 grade) adjustable friction window stay. 205 x19mm	each	₹ 200.00
16027	Stainless steel (SS 304 grade) adjustable friction window stay. 355 x19mm	each	₹ 295.00
16028	Stainless steel (SS 304 grade) adjustable friction window stay. 510 x19mm	each	₹ 530.00
16029	Stainless steel (SS 304 grade) adjustable friction window stay. 710 x19mm	each	₹ 935.00
16030	Stainless steel screws 25mm x4mm	cent	₹ 42.00
16031	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	₹ 14.00
16032	Aluminium Grill	kg	₹ 255.00
16033	Toughened glass 12 mm thickness	sqm	₹ 1,900.00
16034	Structural sealant	metre	₹ 33.00
16035	Spacer tape 6.4 mm thick x 6 mm wide	metre	₹ 22.00
16036	Weather Sealant - Non Staining (600 ml)	each	₹ 465.00
16037	Weather Sealant - Normal (300 ml)	each	₹ 162.00
16038	MS Brackets / Aluminium Alloy Brackets	kg	₹ 110.00
16039	Silicon gasket in kg (above 50 g/m)	kg	₹ 600.00
16040	EPDM gasket in kg (above 60 g/m)	kg	₹ 165.00
16041	Anchor Fastner - M10	each	₹ 12.00
16042	SS Bolt with washer of sizes for structural glazing / ACP cladding	each	₹ 39.00
16043	SS Screws of sizes for structural glazing / ACP cladding	each	₹ 5.00
16044	Protective Tape	metre	₹ 22.00
16045	GI flashing - 1.2 mm Thick	kg	₹ 65.00
16046	6 mm thick High performance glass	sqm	₹ 1,985.00
16047	6 mm thick clear heat strengthened glass	sqm	₹ 685.00
16048	6 mm thick clear heat strengthened glass	each	₹ 135.00
16049	ARMS GS HD- Top Hung - 20" - Type P - Couple	pair	₹ 1,705.00
16050	Connection Block or vision glass panel	each	₹ 42.00
16051	Curtain wall striker for vision glass panel	each	₹ 110.00
16052	Adjustable fastening pawl for vision glass panel	each	₹ 42.00
16053	Corner drive for vision glass panel	each	₹ 320.00
16054	Top wedge block for vision glass panel	each	₹ 148.00
16055	Glass wool of density @ 48 kg / cum with black glass tissue (BGT)	sqm	₹ 253.00
16056	SS Screws - #8 x 19	each	₹ 11.00
16057	Weather Sealant - DC 789	cartridge	₹ 143.00
16058	Cement Board	sqm	₹ 275.00
16059	Baker rod	metre	₹ 5.50

Code No.	Description	Unit	Rate
16060	4 mm thick ACP	sqm	₹ 1,100.00
16061	3 mm thick ACP	sqm	₹ 865.00
16062	Fire stop	metre	₹ 585.00
16063	GI / Aluminium Sheet (0.8 mm thick)	kg	₹ 50.00
16064	4 point façade glass bracket without flat head bolts	each	₹ 3,540.00
16065	2 point façade glass bracket (wall mounted without flat head bolts)	each	₹ 1,775.00
16066	1 point façade glass bracket (wall mounted without flat head bolts)	each	₹ 1,390.00
16067	Flate head bolt for brackets of spider glazing	each	₹ 690.00
16068	400 mm long fin plate without fastners	pair	₹ 6,345.00
16069	Stainless steel U Channel of size (50x25x2mm)	metre	₹ 153.00
16070	Non staining water resistant clear silicon	metre	₹ 64.00
16071	21mm thick clear toughened Laminated glass for fins with holes	sqm	₹ 6,400.00
17001	Bitumen felt fibre base (vegetable or animal) : As per IS 7193 Grade I	sqm	₹ 85.00
17002	Bituminous solution primer of approved quality	litre	₹ 60.00
17003	APP modified 2mm thick membrane reinforced with glass fibre matt	sqm	₹ 120.00
17004	Fuel-LPG	kg	₹ 75.00
17005	APP modified 3mm thick membrane reinforced with glass fibre matt	sqm	₹ 240.00
17006	Geotextile 120 grams per sqm non-woven membrane, 100% polyester of thickness 1 to 1.25mm	sqm	₹ 55.00
17007	APP modified 3mm thick membrane reinforced with non-woven polyester matt	sqm	₹ 245.00
17009	Bitumen felt as per IS 7193 Grade II	sqm	₹ 95.00
17010	Kota stone slab 25mm thick (rough chiseled)	Sqm	₹ 300.00
17011	Fibre glass tissue reinforcement Type II Grade I	sqm	₹ 105.00
17012	Water stops serrated with central bulb (225mm wide, 8-11 mm thick)	metre	₹ 255.00
17013	Water stops dumb bell with central bulb	metre	₹ 200.00
17014	Kickers	metre	₹ 235.00
17015	APP modified polymeric felt (two layers) 1.5mm thick	sqm	₹ 90.00
17016	APP modified polymeric felt (two layers) 2mm thick	sqm	₹ 120.00
17017	Bitumen primer for bitumen membrane	litre	₹ 110.00
17018	Polymer modified cementation coating	kg	₹ 170.00
17019	Fibre glass cloth	sqm	₹ 55.00
17020	Fibre reinforced elastomeric liquid waterproofing membrane	litre	₹ 240.00
17021	Integral Crystalline Slurry	kg	₹ 325.00
17022	Crystalline Mortar	kg	₹ 300.00
17023	Swellable type water stop tape (Crystalline sealing compound)	metre	₹ 500.00
17024	Swellable type water stop primer	litre	₹ 2,100.00
17025	Cementious water proofing coating with elastic polymers	kg	₹ 225.00
17026	Chemical Rust Remover	litre	₹ 240.00
17027	Epoxy	kg	₹ 660.00
17028	SBR Polymer	kg	₹ 215.00
17029	Wooven PVC cloth	sqm	₹ 30.00

Code No.	Description	Unit	Rate
17030	Hard drawn steel wire fabric size 75 x 25 mm mesh of weight not less than 7.75 kg/sqm	sqm	₹ 480.00
17031	Adhesive chemical	ml	₹ 3.00
17032	Bit of drilling machine for Hole upto 30mm dia	each	₹ 570.00
17033	GI injection nipple 12mm dia, 75mm long	each	₹ 50.00
17034	Blowing compressed air for cleaning holes upto 30mm dia	each	₹ 12.00
17035	L shaped 100mm long, 10mm dia mild steel shear key	kg	₹ 80.00
17036	Acrylic Polymer chemical for cracks	kg	₹ 35.00
18001	C.I. bracket for wash basin and sinks	pair	₹ 85.00
18002	C.P.brass chain with 40 mm dia rubber plug	each	₹ 42.00
18003	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	₹ 40.00
18004	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	₹ 30.00
18005	M.S.Holder bat clamp of approved design for 75 mm S.C.I. pipe	each	₹ 27.00
18006	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	₹ 35.00
18007	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	₹ 38.00
18008	Brass stop-cock 15 mm dia	each	
18009	Mosquito proof coupling of approved design	each	₹ 35.00
18010	Vitreous china foot rests 250x130x30 mm	pair	₹ 100.00
18011	S.C.I. gully or nahani grating 100 mm dia	each	₹ 20.00
18012	Rubber insertions for 80 mm dia pipe joints	each	₹ 15.00
18013	Rubber insertions for 100 mm dia pipe joints	each	₹ 20.00
18014	Rubber insertions for 125 mm dia pipe joints	each	₹ 22.00
18015	Mirror of superior make glass 60x45 cm	each	₹ 370.00
18016	Vitreous china pedestal for wash basin	each	₹ 600.00
18017	Pig lead	kilogram	₹ 150.00
18018	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	₹ 250.00
18019	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	₹ 420.00
18020	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	₹ 500.00
18021	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	₹ 570.00
18022	Flush pipe and spreaders G.I.for single set of one squatting plate urinal	each	₹ 160.00
18023	Flush pipe and spreaders G.I.for range of two squatting plates urinal	each	₹ 250.00
18024	Flush pipe and spreaders G.I.for range of three squatting plates urinal	each	₹ 300.00
18025	Flush pipe and spreaders G.I.for range of four squatting plates urinal	each	₹ 380.00
18026	G.I. inlet connection	each	₹ 80.00
18027	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75 mm dia	each	₹ 800.00
18028	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100mm dia	each	₹ 1,000.00

Code No.	Description	Unit	Rate
18029	S.C.I. plain bend 75mm dia	each	₹ 180.00
18030	S.C.I. plain bend 100mm dia	each	₹ 240.00
18031	S.C.I. bend with access door 75mm dia	each	₹ 170.00
18032	S.C.I. bend with access door 100mm dia	each	₹ 240.00
18033	S.C.I. plain single equal junctions 75x75x75 mm dia	each	₹ 260.00
18034	S.C.I. plain single equal junctions 100x100x100 mm dia	each	₹ 360.00
18035	S.C.I. single equal junctions 75x75x75 mm dia with access door.	each	₹ 275.00
18036	S.C.I. single equal junctions 100x100x100 mm dia with access door.	each	₹ 375.00
18037	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	₹ 420.00
18038	S.C.I. plain double equal junctions 100x100x100x100 mm dia	each	₹ 550.00
18039	S.C.I. double equal junctions 75x75x75x75 mm dia with access door.	each	₹ 430.00
18040	S.C.I. double equal junctions 100x100x100x100 mm dia with access door.	each	₹ 550.00
18041	Slotted cowl (terminal guard) 75 mm dia	each	₹ 110.00
18042	Slotted cowl (terminal guard) 100 mm dia	each	₹ 160.00
18043	Sand cast iron S&S plain single unequal junctions : 100x100x75 mm dia	each	₹ 380.00
18044	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door.	each	₹ 400.00
18045	Sand cast iron S&S plain double unequal junctions : 100x100x75x75 mm dia	each	₹ 500.00
18046	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door.	each	₹ 550.00
18047	Sand cast iron heel rest bend 75mm dia	each	₹ 230.00
18048	Sand cast iron heel rest bend 100mm dia	each	₹ 270.00
18049	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	₹ 320.00
18050	S.C.I. single equal invert branch of required degree 100x100x100 mm dia	each	₹ 430.00
18051	S.C.I. double equal invert branch of required degree 75x75x75x75 mm dia	each	₹ 420.00
18052	S.C.I. double equal invert branch of required degree 100x100x100x100 mm dia	each	₹ 570.00
18053	S.C.I. single unequal invert branch of required degree 100x100x75 mm dia	each	₹ 510.00
18054	S.C.I. double unequal invert branch of required degree 100x100x75x75 mm dia	each	₹ 600.00
18055	S.C.I. door pieces 75 mm dia	each	₹ 280.00
18056	S.C.I. door pieces 100 mm dia	each	₹ 340.00
18057	S.C.I. collar 75 mm dia	each	₹ 120.00
18058	S.C.I. collar 100 mm dia	each	₹ 160.00
18059	Fire clay kitchen sink: 600x450x250 mm	each	₹ 1,300.00
18060	White vitreous china laboratory sink 450x300x150 mm	each	₹ 750.00
18061	White vitreous china laboratory sink 600x450x200 mm	each	₹ 1,450.00

Code No.	Description	Unit	Rate
18062	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	₹ 340.00
18063	Black plastic seat (solid) with lid C.P.brass hinges and rubber buffers	each	₹ 300.00
18064	Spun yarn	kilogram	₹ 45.00
18065	15 mm C.P.brass tap	each	₹ 250.00
18066	C.P.brass toilet paper holder of standard size	each	₹ 200.00
18067	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 50 mm dia	each	₹ 160.00
18068	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 80 mm dia	each	₹ 210.00
18069	C.P.brass trap40 mm dia	each	₹ 135.00
18070	100 mm S.C.I. trap with vent heel	each	₹ 340.00
18071	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	₹ 290.00
18072	100 mm S.C.I. trap with 100 mm inlet and75 mm outlet	each	₹ 210.00
18073	Vitreous china lipped front urinal	each	₹ 450.00
18074	Vitreous china squatting plate urinal	each	₹ 700.00
18075	Vitreous china flat back wash basin 630x450 mm	each	₹ 650.00
18076	Vitreous china angle back wash basin 600x480 mm	each	₹ 680.00
18077	Vitreous china angle back wash basin 400x400 mm	each	₹ 350.00
18078	C.P. brass waste 32 mm	each	₹ 75.00
18079	C.P. brass waste 40 mm	each	₹ 85.00
18080	Vitreous china Indian type w.c. pan size 580 mm	each	₹ 420.00
18081	Vitreous china orrisa type w.c. pan size 580 mm	each	₹ 750.00
18082	Vitreous china pedestal type water closet	each	₹ 700.00
18083	White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as squatting pan or European type water closet as per manufacturer's specifications	each	₹ 1,400.00
18084	Vitreous china foot rests 250x125x25 mm	pair	₹ 95.00
18085	Vitreous china Surgeon type wash basin of size 660x460 mm	each	₹ 900.00
18086	600x120 mm glass shelf with anodised aluminium angle frame, C.P.brass brackets and guard rail of standard size	each	₹ 150.00
18087	Vitreous china flat back wash basin 550x400 mm	each	₹ 550.00
18088	C.P. Brass union 40 mm dia	each	₹ 180.00
18089	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:100mm dia	each	₹ 1,150.00
18090	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:75mm dia	each	₹ 1,000.00
18091	S.C.I. S&S bends with access door100mm dia	each	₹ 270.00
18092	S.C.I. S&S bends with access door75mm dia	each	₹ 230.00
18093	S.C.I. S&S bend100mm dia	each	₹ 250.00

Code No.	Description	Unit	Rate
18094	S.C.I. S&S bend 75mm dia	each	₹ 190.00
18095	S.C.I. S&S heel rest sanitary bend 100mm dia	each	₹ 300.00
18096	S.C.I. S&S heel rest sanitary bend 75mm dia	each	₹ 260.00
18097	S.C.I. S&S single equal junctions 100x100x100 mm	each	₹ 500.00
18098	S.C.I. S&S single equal junctions 75x75x75 mm	each	₹ 390.00
18099	S.C.I. S&S single equal junctions with access door 100x100x100 mm	each	₹ 500.00
18100	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	₹ 370.00
18101	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	₹ 620.00
18102	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	₹ 500.00
18103	S.C.I. S&S double equal junctions with access door 100x100x100x100 mm.	each	₹ 620.00
18104	S.C.I. S&S double equal junctions with access door 75x75x75x75 mm.	each	₹ 480.00
18105	S.C.I. S&S single unequal junctions 100x100x75 mm	each	₹ 600.00
18106	S.C.I. S&S single unequal junctions with access door 100x100x75 mm	each	₹ 650.00
18107	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	₹ 880.00
18108	S.C.I. S&S double unequal junctions with access door 100x100x75x75 mm	each	₹ 775.00
18109	S.C.I. S&S single equal invert branch of required degree 100x100x100 mm dia	each	₹ 440.00
18110	S.C.I. S&S single equal invert branch of required degree 75x75x75 mm dia	each	₹ 350.00
18111	S.C.I. S&S double equal invert branch of required degree 100x100x100x100 mm dia	each	₹ 580.00
18112	S.C.I. S&S double equal invert branch of required degree 75x75x75x75 mm dia	each	₹ 460.00
18113	S.C.I. S&S single unequal invert branch of required degree 100x100x75 mm dia	each	₹ 590.00
18114	S.C.I. S&S double unequal invert branch of required degree 100x100x75x75 mm dia	each	₹ 800.00
18115	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	₹ 250.00
18116	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	₹ 310.00
18117	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	₹ 420.00
18118	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	₹ 305.00
18119	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	₹ 400.00
18120	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	₹ 390.00
18121	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	₹ 490.00
18122	S.C.I. S&S door pieces 100 mm dia	each	₹ 320.00
18123	S.C.I. S&S door pieces 75 mm dia	each	₹ 240.00
18124	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	₹ 210.00
18125	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	₹ 200.00
18126	S.C.I. S&S, collars 100 mm	each	₹ 200.00
18127	S.C.I. S&S, collars 75 mm	each	₹ 175.00

Code No.	Description	Unit	Rate
18128	S.C.I. S&S, 76 mm offset for 75 mm dia pipe	each	₹ 175.00
18129	S.C.I. S&S, 76 mm offset for 100 mm dia pipe	each	₹ 300.00
18130	Vitreous china toilet paper holder of standard size	each	₹ 155.00
18131	Red oxide Zinc chromate primer	litre	₹ 85.00
18132	Vitreous china flat back wash basin 450x300 mm	each	₹ 380.00
18133	Vitreous china 10 litres low level cistern without fittings	each	₹ 1,000.00
18134	Vitreous china 10 litres low level cistern with fittings	each	₹ 1,300.00
18135	Rawl plug 50 mm (designation 10 no.)	each	₹ 7.00
18136	Stainless steel kitchen sink - with drain board bowl depth 250 mm.	each	₹ 3,000.00
18137	Stainless steel kitchen sink - with drain board 510 x 1040mm bowl depth 225 mm.	each	₹ 2,700.00
18138	Stainless steel kitchen sink - with drain board 510 x 1040mm bowl depth 200 mm.	each	₹ 2,500.00
18139	Stainless steel kitchen sink - with drain board 510x1040mm bowl depth 178 mm	each	₹ 2,250.00
18140	Stainless steel kitchen sink - without drain board 610x510mm bowl depth 200 mm	each	₹ 1,900.00
18141	Stainless steel kitchen sink - without drain board 610x460mm bowl depth 200 mm.	each	₹ 1,800.00
18142	Stainless steel kitchen sink - without drain board 470x420mm bowl depth 178 mm	each	₹ 1,600.00
18143	Coloured Orissa pattern W.C. pan 580x440 mm	each	₹ 950.00
18144	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	₹ 900.00
18145	Coloured Vitreous china 10 lit. low level cistern	each	₹ 1,200.00
18146	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	₹ 390.00
18147	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	₹ 400.00
18148	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	₹ 320.00
18149	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	₹ 380.00
18150	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	₹ 750.00
18151	Hard board 6 mm thick	sqm	₹ 200.00
18152	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	₹ 22.00
18153	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	₹ 31.00
18154	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	₹ 32.00
18155	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	₹ 35.00

Code No.	Description	Unit	Rate
18156	Coloured High density polyethylene/ poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	₹ 750.00
18157	White Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	₹ 1,020.00
18158	Coloured Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	₹ 1,350.00
18159	Flushing Cistern P.V.C. 10 Its capacity (low level) (White) (with fittings, accessories and flush pipe)	each	₹ 650.00
18160	P.V.C. automatic flushing cistern 5 Its capacity	each	₹ 500.00
18161	P.V.C. automatic flushing cistern 10 Its capacity	each	₹ 520.00
18162	15 mm C.P. brass tap with elbow operation lever	each	₹ 550.00
18163	White glazed fire clay draining board 600x450x25 mm	each	₹ 580.00
18164	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	₹ 480.00
18165	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	₹ 1,200.00
18166	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	₹ 1,500.00
18167	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals	each	₹ 2,200.00
18168	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS : 2556	each	₹ 1,450.00
18169	Wedge expansion hold fastener 1/4" or 6 mm	each	₹ 15.00
18170	PTMT Waste Coupling 31/32MM	each	₹ 60.00
18171	PTMT Waste Coupling 38/40MM	each	₹ 85.00
18172	PTMT Bottle Trap 31/32MM	each	₹ 350.00
18173	PTMT Bottle Trap 38/40MM	each	₹ 370.00
18174	PTMT Liquid Soap Container of 400ml capacity	each	₹ 170.00
18175	PTMT Towel Ring 215xd200x37mm	each	₹ 135.00
18176	PTMT Towel Rail (450MM)	each	₹ 240.00
18177	PTMT Towel Rail (600MM)	each	₹ 285.00
18178	PTMT Shelf 450x124x36mm	each	₹ 300.00
18179	PTMT Urinal Spreader 15MM	each	₹ 155.00
18180	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724 mm x 578 mm	each	₹ 3,500.00
18181	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355 mm	each	₹ 1,800.00
18182	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345mm	each	₹ 1,680.00
18183	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	₹ 420.00
18184	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	₹ 450.00

Code No.	Description	Unit	Rate
18185	P.T.M.T. Urinal cock 15mm dia	each	₹ 120.00
18186	Wall mounted water closet of size 780x370x690 mm	each	₹ 4,650.00
18187	Adjustable Vitreous China Cistern with fittings of flushing capacity 3litre/6 litre (adjustable to 4 litre/8 litre)	each	₹ 2,000.00
18188	White Vitreous China Waterless Urinal of size 600 x 330x315 mm	each	₹ 10,200.00
18189	Cistern with fittings for Waterless Urinal	each	₹ 2,400.00
18190	Battery based infrared sensor operated White Vitreous Urinal of approx size 610 x 390 x 370 mm	each	₹ 4,000.00
18191	Floor mounted white vitrous china double trap syphonic WC with 10 litre cistern and all fittings & fixtures,seat cover etc	each	₹ 9,000.00
18192	u-PVC double equal junction of required degree without door75x75x75 x 75 mm	each	₹ 60.00
18193	u-PVC double equal junction of required degree without door110x110x110 x110 mm	each	₹ 90.00
18194	u-PVC double equal junction of required degree with door 75x75x75 x 75 mm	each	₹ 85.00
18195	u-PVC double equal junction of required degree with door 110x110x110 x110 mm	each	₹ 120.00
18196	u-PVC double unequal junction of required degree without door 110x110x75 x 75 mm	each	₹ 150.00
18197	u-PVC double unequal junction of required degree with door 110x110x75 x 75 mm	each	₹ 180.00
18198	u-PVC single unequal junction of required degree without door 110x110x75 mm	each	₹ 125.00
18199	u-PVC single unequal junction of required degree with door 110x110x75 mm	each	₹ 150.00
181200	u- PVC Single socketed pipe - 110 mm OD working pressure 6 kg / cm2	metre	₹ 190.00
19001	Bleaching powder	quintal	₹ 2,400.00
19002	Surface box for stop cock	each	₹ 130.00
19003	Surface box for sluice valve	each	₹ 210.00
19004	Surface box for water meter	each	₹ 260.00
19005	Brass bib-cock 15 mm dia	each	₹ 215.00
19006	Brass bib-cock 20 mm dia	each	₹ 265.00
19007	Brass stop-cock 15 mm dia	each	₹ 225.00
19008	Brass stop-cock 20 mm dia	each	₹ 320.00
19009	C.I.mouth, brass ferrule 15 mm dia	each	₹ 140.00
19010	C.I.mouth, brass ferrule 20 mm dia	each	₹ 165.00
19011	C.I.mouth, brass ferrule 25 mm dia	each	₹ 228.00
19012	Rubber insertions for 80 mm dia pipe joints	each	₹ 13.00
19013	Rubber insertions for 100 mm dia pipe joints	each	₹ 17.00
19014	Rubber insertions for 125 mm dia pipe joints	each	₹ 19.00
19015	Rubber insertions for 150 mm dia pipe joints	each	₹ 22.00
19016	Rubber insertions for 200 mm dia pipe joints	each	₹ 29.00
19017	Rubber insertions for 250 mm dia pipe joints	each	₹ 44.00
19018	Rubber insertions for 300 mm dia pipe joints	each	₹ 55.00
19019	Rubber insertions for 350 mm dia pipe joints	each	₹ 66.00
19020	Rubber insertions for 400 mm dia pipe joints	each	₹ 96.00

Code No.	Description	Unit	Rate
19021	Rubber insertions for 450 mm dia pipe joints	each	₹ 120.00
19022	Rubber insertions for 500 mm dia pipe joints	each	₹ 154.00
19023	Rubber insertions for 600 mm dia pipe joints	each	₹ 171.00
19024	S & S.C.I. standard specials up to 300 mm dia (heavy class)	quintal	₹ 3,600.00
19025	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	₹ 3,700.00
19026	Flanged C.I. standard specials up to 300 mm dia (heavy class)	quintal	₹ 5,800.00
19027	Flanged C.I. standard specials over 300 mm dia (heavy class)	quintal	₹ 6,200.00
19028	G.I. pipes 15 mm dia	metre	₹ 90.00
19029	G.I. pipes 20 mm dia	metre	₹ 120.00
19030	G.I. pipes 25 mm dia	metre	₹ 150.00
19031	G.I. pipes 32 mm dia	metre	₹ 210.00
19032	G.I. pipes 40 mm dia	metre	₹ 240.00
19033	G.I. pipes 50 mm dia	metre	₹ 340.00
19034	G.I. pipes 65 mm dia	metre	₹ 405.00
19035	G.I. pipes 80 mm dia	metre	₹ 515.00
19036	G.I. back (jam) nuts 25 mm dia	each	₹ 8.00
19037	G.I. back (jam) nuts 65 mm dia	each	₹ 23.00
19038	G.I. tees (equal) 25 mm	each	₹ 64.00
19039	G.I. tees (equal) 65 mm	each	₹ 280.00
19040	G.I. Union 15 mm nominal bore	each	₹ 48.00
19041	G.I. Union 20 mm nominal bore	each	₹ 64.00
19042	G.I. Union 25 mm nominal bore	each	₹ 80.00
19043	G.I. Union 32 mm nominal bore	each	₹ 127.00
19044	G.I. Union 40 mm nominal bore	each	₹ 180.00
19045	G.I. Union 50 mm nominal bore	each	₹ 239.00
19046	G.I. Union 65 mm nominal bore	each	₹ 420.00
19047	G.I. Union 80 mm nominal bore	each	₹ 500.00
19048	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	₹ 7.25
19049	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	₹ 35.00
19050	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	₹ 50.00
19051	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	₹ 50.00
19052	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	₹ 70.00
19053	S.C.I. hand pump	each	₹ 750.00
19054	Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia	each	₹ 70.00
19055	Shower rose C.P. brass for 15 to 20 mm inlet 150 mm dia	each	₹ 100.00
19056	Spun yarn	kilogram	₹ 43.00
19057	Strainer brass 40 mm dia 1.5 metre long	each	₹ 580.00
19058	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	₹ 250.00
19059	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	₹ 372.00
19060	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	₹ 430.00
19061	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	₹ 336.00

Code No.	Description	Unit	Rate
19062	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	₹ 424.00
19063	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	₹ 473.00
19064	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	₹ 691.00
19065	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	₹ 1,002.00
19066	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	₹ 1,660.00
19067	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	₹ 340.00
19068	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	₹ 437.00
19069	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	₹ 587.00
19070	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	₹ 884.00
19071	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	₹ 1,553.00
19072	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	₹ 2,204.00
19073	C.I.slucice valve (with caps) class I : 100 mm dia	each	₹ 2,705.00
19074	C.I.slucice valve (with caps) class I : 125 mm dia	each	₹ 3,385.00
19075	C.I.slucice valve (with caps) class I : 150 mm dia	each	₹ 4,064.00
19076	C.I.slucice valve (with caps) class I : 200 mm dia	each	₹ 7,735.00
19077	C.I.slucice valve (with caps) class I : 250 mm dia	each	₹ 11,520.00
19078	C.I.slucice valve (with caps) class I : 300 mm dia	each	₹ 14,196.00
19079	Bolts and nuts 16 mm dia 60 mm long	each	₹ 12.00
19080	Bolts and nuts 16 mm dia 65 mm long	each	₹ 12.00
19081	Bolts and nuts 20 mm dia 65 mm long	each	₹ 17.00
19082	Bolts and nuts 20 mm dia 70 mm long	each	₹ 17.00
19083	Bolts and nuts 20 mm dia 75 mm long	each	₹ 17.00
19084	Bolts and nuts 20 mm dia 80 mm long	each	₹ 19.00
19085	Bolts and nuts 24 mm dia 85 mm long	each	₹ 34.00
19086	Bolts and nuts 24 mm dia 90 mm long	each	₹ 37.00
19087	Bolts and nuts 27 mm dia 100 mm long	each	₹ 43.00
19088	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	₹ 372.00
19089	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	₹ 551.00
19090	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	₹ 723.00
19091	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	₹ 1,019.00
19092	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	₹ 1,782.00
19093	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	₹ 2,332.00
19094	C.I.slucice valve (with caps) class II : 100 mm dia	each	₹ 2,791.00
19095	C.I.slucice valve (with caps) class II : 125 mm dia	each	₹ 3,528.00
19096	C.I.slucice valve (with caps) class II : 150 mm dia	each	₹ 4,293.00
19097	C.I.slucice valve (with caps) class II : 200 mm dia	each	₹ 8,300.00
19098	C.I.slucice valve (with caps) class II : 250 mm dia	each	₹ 11,734.00
19099	C.I.slucice valve (with caps) class II : 300 mm dia	each	₹ 14,668.00
19100	C.P. Brass bib cock 15 mm	each	₹ 380.00
19101	C.P. Brass long nose bibcock 15 mm	each	₹ 350.00

Code No.	Description	Unit	Rate
19102	C.P. Brass long body bibcock 15 mm	each	₹ 400.00
19103	C.P. Brass stop cock (concealed) 15 mm	each	₹ 430.00
19104	C.P. Brass angle valve 15 mm	each	₹ 390.00
19105	15 mm PTMT bib cock	each	₹ 100.00
19106	15 mm PTMT bib cock with flange (fancy)	each	₹ 155.00
19107	15 mm PTMT bib cock long body with flange	each	₹ 155.00
19108	15 mm dia PTMT stop cock(male thread)	each	₹ 100.00
19109	20 mm dia. PTMT stop cock	each	₹ 135.00
19110	PTMT pillar cock	each	₹ 145.00
19111	PTMT push cock 15 mm dia.	each	₹ 90.00
19112	PTMT push cock 12 mm dia. 20 mm BSP	each	₹ 82.00
19113	PTMT grating 100 mm dia.	each	₹ 26.00
19114	PTMT grating 75 mm dia.	each	₹ 34.00
19115	125 mm grating with waste hole	each	₹ 35.00
19116	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia. (110 gm)	each	₹ 125.00
19117	Double acting air valve 50 mm	each	₹ 4,000.00
19118	Double acting air valve 80 mm	each	₹ 5,000.00
19119	Double acting air valve 100 mm	each	₹ 6,500.00
19120	Water meter (including testing charges) 80 mm	each	₹ 2,400.00
19121	Water meter (including testing charges) 100 mm	each	₹ 3,500.00
19122	Water meter (including testing charges) 150 mm	each	₹ 5,000.00
19123	Water meter (including testing charges) 200 mm	each	₹ 5,800.00
19124	Dirt box strainer 80 mm	each	₹ 2,800.00
19125	Dirt box strainer 100 mm	each	₹ 4,600.00
19126	Dirt box strainer 150 mm	each	₹ 5,600.00
19127	Dirt box strainer 200 mm	each	₹ 8,400.00
19128	PTMT Ball Cock 15mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	₹ 120.00
19129	PTMT Ball Cock 20mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	₹ 175.00
19130	PTMT Ball Cock 25mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	₹ 340.00
19131	PTMT Ball Cock 40mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	₹ 560.00
19132	PTMT Ball Cock 50mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	₹ 1,010.00
19133	PTMT Angle Stop cock with Flange 15mm	Each	₹ 110.00
19134	PTMT Swiveling shower 15mm	Each	₹ 80.00
19135	PTMT Soap Dish/Holder 138x102x75mm	Each	₹ 90.00
19136	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100mm dia	metre	₹ 880.00
19137	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150mm dia	metre	₹ 1,300.00
19138	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200mm dia	metre	₹ 1,800.00
19139	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250mm dia	metre	₹ 2,300.00
19140	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 300mm dia	metre	₹ 2,950.00
19141	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350mm dia	metre	₹ 3,450.00
19142	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 400mm dia	metre	₹ 5,000.00
19143	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450mm dia	metre	₹ 5,500.00

Code No.	Description	Unit	Rate
19144	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500mm dia	metre	₹ 7,200.00
19145	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 600mm dia	metre	₹ 8,100.00
19146	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700mm dia	metre	₹ 11,250.00
19147	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750mm dia	metre	₹ 12,900.00
19148	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800mm dia	metre	₹ 13,150.00
19149	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900mm dia	metre	₹ 15,400.00
19150	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000mm dia	metre	₹ 17,300.00
19151	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100mm dia	Each	₹ 30.00
19152	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150mm dia	Each	₹ 35.00
19153	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200mm dia	Each	₹ 60.00
19154	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250mm dia	Each	₹ 70.00
19155	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300mm dia	Each	₹ 125.00
19156	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350mm dia	Each	₹ 130.00
19157	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400mm dia	Each	₹ 250.00
19158	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450mm dia	Each	₹ 270.00
19159	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500mm dia	Each	₹ 300.00
19160	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600mm dia	Each	₹ 375.00
19161	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 650mm dia	Each	₹ 575.00
19162	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700mm dia	Each	₹ 700.00
19163	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800mm dia	Each	₹ 750.00
19164	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900mm dia	Each	₹ 990.00
19165	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000mm dia	Each	₹ 1,180.00
19166	Ductile Iron K - 12 specials suitable for push on jointing up to 600mm dia	Quintal	₹ 12,000.00
19167	Ductile Iron K - 12 specials suitable for push on jointing over 600mm dia	Quintal	₹ 18,000.00
19168	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 -up to 600mm dia	Quintal	₹ 13,451.00
19169	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600mm dia	Quintal	₹ 19,600.00
19170	Ductile Iron Pipe Class K-9 flanges and welding 100mm dia	metre	₹ 1,275.00
19171	Ductile Iron Pipe Class K-9 flanges and welding 150 dia	metre	₹ 1,764.00

Code No.	Description	Unit	Rate
19172	Ductile Iron Pipe Class K-9 flanges and welding 200mm dia	metre	₹ 2,287.00
19173	Ductile Iron Pipe Class K-9 flanges and welding 250mm dia	metre	₹ 3,200.00
19174	Ductile Iron Pipe Class K-9 flanges and welding 300mm dia	metre	₹ 4,100.00
19175	Ductile Iron Pipe Class K-9 flanges and welding 350mm dia	metre	₹ 5,000.00
19176	Ductile Iron Pipe Class K-9 flanges and welding 400mm dia	metre	₹ 6,550.00
19177	Ductile Iron Pipe Class K-9 flanges and welding 450mm dia	metre	₹ 7,100.00
19178	Ductile Iron Pipe Class K-9 flanges and welding 500mm dia	metre	₹ 9,900.00
19179	Ductile Iron Pipe Class K-9 flanges and welding 600mm dia	metre	₹ 12,800.00
19180	Ductile Iron Pipe Class K-9 flanges and welding 700mm dia	metre	₹ 15,800.00
19181	S&S Centrifugally (Spun) C.I. Pipe class LA 100mm dia	metre	₹ 900.00
19182	S&S Centrifugally (Spun) C.I. Pipe class LA 125mm dia	metre	₹ 1,200.00
19183	S&S Centrifugally (Spun) C.I. Pipe class LA 150mm dia	metre	₹ 1,450.00
19184	S&S Centrifugally (Spun) C.I. Pipe class LA 200mm dia	metre	₹ 2,400.00
19185	S&S Centrifugally (Spun) C.I. Pipe class LA 250mm dia	metre	₹ 3,000.00
19186	S&S Centrifugally (Spun) C.I. Pipe class LA 300mm dia	metre	₹ 4,100.00
19187	S&S Centrifugally (Spun) C.I. Pipe class LA 350mm dia	metre	₹ 4,950.00
19188	S&S Centrifugally (Spun) C.I. Pipe class LA 400mm dia	metre	₹ 6,500.00
19189	S&S Centrifugally (Spun) C.I. Pipe class LA 450mm dia	metre	₹ 7,900.00
19190	S&S Centrifugally (Spun) C.I. Pipe class LA 500mm dia	metre	₹ 9,100.00
19191	S&S Centrifugally (Spun) C.I. Pipe class LA 600mm dia	metre	₹ 12,800.00
19192	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300mm dia for lead jointing up to 300mm dia	Quintal	₹ 5,150.00
19193	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300mm dia	Quintal	₹ 6,250.00
19194	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300mm dia	Quintal	₹ 8,500.00
19195	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per IS 13382 over 300mm dia	Quintal	₹ 9,100.00
19196	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100mm dia	metre	₹ 1,380.00
19197	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150mm dia	metre	₹ 2,150.00

Code No.	Description	Unit	Rate
19198	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200mm dia	metre	₹ 3,350.00
19199	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250mm dia	metre	₹ 4,000.00
19200	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300mm dia	metre	₹ 5,120.00
19201	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350mm dia	metre	₹ 6,460.00
19202	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400mm dia	metre	₹ 8,380.00
19203	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450mm dia	Metre	₹ 10,700.00
19204	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500mm dia	metre	₹ 13,500.00
19205	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600mm dia	metre	₹ 18,400.00
19206	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100mm dia	metre	₹ 800.00
19207	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150mm dia	metre	₹ 1,170.00
19208	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200mm dia	metre	₹ 1,660.00
19209	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250mm dia	metre	₹ 2,250.00
19210	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300mm dia	metre	₹ 3,150.00
19211	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350mm dia	metre	₹ 3,650.00
19212	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400mm dia	metre	₹ 4,350.00
19213	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450mm dia	metre	₹ 5,150.00
19214	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500mm dia	metre	₹ 6,150.00
19215	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600mm dia	metre	₹ 8,110.00
19216	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700mm dia	metre	₹ 10,050.00
19217	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800mm dia	metre	₹ 14,000.00
19218	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900mm dia	metre	₹ 17,250.00
19219	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000mm dia	metre	₹ 20,950.00
19220	P.T.M.T. Bib cock with nozzle 15mm	each	₹ 130.00
19221	P.T.M.T. Stop cock (concealed) 15mm	each	₹ 150.00
19222	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	₹ 38.00

Code No.	Description	Unit	Rate
19223	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	₹ 40.00
19224	P.T.M.T. extension nipple 15mm	each	₹ 25.00
19225	P.T.M.T. extension nipple 20mm	each	₹ 35.00
19226	P.T.M.T. extension nipple 25mm	each	₹ 45.00
19227	1216 mm PE-AL-PE Composite pressure pipe	metre	₹ 90.00
19228	1620 mm PE-AL-PE Composite pressure pipe	metre	₹ 110.00
19229	2025 mm PE-AL-PE Composite pressure pipe	metre	₹ 140.00
19230	2532 mm PE-AL-PE Composite pressure pipe	metre	₹ 175.00
19231	3240 mm PE-AL-PE Composite pressure pipe	metre	₹ 260.00
19232	4050 mm PE-AL-PE Composite pressure pipe	metre	₹ 350.00
19233	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 Outer dia	metre	₹ 38.00
19234	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 -20mm Outer dia.	metre	₹ 58.00
19235	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia.	metre	₹ 75.00
19236	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -32 mm Outer dia.	metre	₹ 112.00
19237	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -40mm Outer dia.	metre	₹ 150.00
19238	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -50mm Outer dia.	metre	₹ 260.00
19239	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -63mm Outer dia.	metre	₹ 700.00
19240	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -75mm Outer dia.	metre	₹ 790.00
19241	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -90 mm Outer dia.	metre	₹ 950.00
19242	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 -110mm Outer dia.	metre	₹ 1,050.00
19243	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11-160mm Outer dia.	metre	₹ 1,750.00
19244	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia.	metre	₹ 45.00
19245	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia.	metre	₹ 65.00
19246	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia.	metre	₹ 85.00
19247	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia.	metre	₹ 125.00
19248	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia.	metre	₹ 165.00
19249	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia.	metre	₹ 285.00
19250	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5mm inner dia.	metre	₹ 720.00
19251	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia.	metre	₹ 820.00
19252	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia.	metre	₹ 1,030.00
19253	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia.	metre	₹ 1,700.00
19254	15 mm Battery Based Sensor Pillar Cock	each	₹ 5,800.00
20001	Rectangular cover 455x610 mm with frame (low duty)	each	₹ 2,000.00

Code No.	Description	Unit	Rate
20002	Rectangular cover 455x610mm without frame (low duty)	each	₹ 1,200.00
20003	500 mm dia cover without frame (medium duty)	each	₹ 3,000.00
20004	R.C.C. pipes NP2 class 100 mm dia	metre	₹ 388.00
20005	R.C.C. pipes NP2 class 150 mm dia	metre	₹ 443.00
20006	R.C.C. pipes NP2 class 250 mm dia	metre	₹ 516.00
20007	R.C.C. pipes NP2 class 300 mm dia	metre	₹ 750.00
20008	R.C.C. pipes NP2 class 450 mm dia	metre	₹ 1,525.00
20009	R.C.C. pipes NP2 class 500 mm dia	metre	₹ 1,624.00
20010	R.C.C. pipes NP2 class 600 mm dia	metre	₹ 2,196.00
20011	R.C.C. pipes NP2 class 700 mm dia	metre	₹ 2,493.00
20012	R.C.C. pipes NP2 class 800 mm dia	metre	₹ 2,899.00
20013	R.C.C. pipes NP2 class 900 mm dia	metre	₹ 3,534.00
20014	R.C.C. pipes NP2 class 1000 mm dia	metre	₹ 4,438.00
20015	R.C.C. pipes NP2 class 1100 mm dia	metre	₹ 5,355.00
20016	R.C.C. pipes NP2 class 1200 mm dia	metre	₹ 5,573.00
20017	R.C.C. collarsNP2 class 100 mm dia	each	₹ 56.00
20018	R.C.C. collarsNP2 class 150 mm dia	each	₹ 72.00
20019	R.C.C. collarsNP2 class 250 mm dia	each	₹ 117.00
20020	R.C.C. collarsNP2 class 300 mm dia	each	₹ 145.00
20021	R.C.C. collarsNP2 class 450 mm dia	each	₹ 353.00
20022	R.C.C. collarsNP2 class 500 mm dia	each	₹ 410.00
20023	R.C.C. collarsNP2 class 600 mm dia	each	₹ 514.00
20024	R.C.C. collarsNP2 class 700 mm dia	each	₹ 521.00
20025	R.C.C. collarsNP2 class 800 mm dia	each	₹ 746.00
20026	R.C.C. collarsNP2 class 900 mm dia	each	₹ 910.00
20027	R.C.C. collarsNP2 class 1000 mm dia	each	₹ 932.00
20028	R.C.C. collarsNP2 class 1100 mm dia	each	₹ 1,069.00
20029	R.C.C. collarsNP2 class 1200 mm dia	each	₹ 1,242.00
20030	Stoneware pipes grade A (60 cm long) 100 mm dia	each	₹ 54.00
20031	Stoneware pipes grade A (60 cm long) 150 mm dia	each	₹ 70.00
20032	Stoneware pipes grade A (60 cm long) 200 mm dia	each	₹ 128.00
20033	Stoneware pipes grade A (60 cm long) 230 mm dia	each	₹ 134.00
20034	Stoneware pipes grade A (60 cm long) 250 mm dia	each	₹ 183.00
20035	Stoneware pipes grade A (60 cm long) 300 mm dia	each	₹ 262.00
20036	Spun yarn	kilogram	₹ 48.00
20037	560 mm dia cover without frame (Heavy duty)	each	₹ 5,908.00
20038	Brick Aggregate (Single size) : 63 mm nominal size	cum	₹ 2,500.00
20039	Brick bats (mix class)	cum	₹ 1,950.00
20040	Brick Aggregate (Single size) : 50 to 80 mm nominal size (mix class)	cum	₹ 2,180.00

Code No.	Description	Unit	Rate
20041	Brick Aggregate (Single size) : 40 mm nominal size (mix class)	cum	₹ 2,240.00
21001	Muli Bamboo 25 mm to 40 mm dia	metre	₹ 4.50
21002	G.I. wire 1.0 mm	kilogram	₹ 58.00
21003	Bamboo dhari mat	sqm	₹ 50.00
21004	Thatch (Sungrass) 300 mm dia. Bundle	bundle	₹ 55.00
21005	Barak bamboo	metre	₹ 20.00

Basic Rates
0.4 CARRIAGE CODES

(Carriage by Mechanical Transport including loading, unloading and stacking)

Note: - These rates are exclusive of contractor's profit and overhead charges.

Code No.	Description	Unit	Rate
0401	A.C.sheet and accessories	tonne	₹ 110.94
0402	Barbed wire	tonne	₹ 110.94
0403	Brick tiles	1000 Nos	₹ 199.69
0404	Brick/ Stone aggregate 40 mm nominal size and above	cum	₹ 172.74
0405	Brick/ Stone aggregate below 40 mm nominal size	cum	₹ 159.75
0406	Bricks	1000 Nos	₹ 332.82
0407	Cast iron fittings	tonne	₹ 110.94
0408	Cast iron pipes 1000 mm dia	100 metre	₹ 9,093.35
0409	Cast iron pipes 150 mm dia	100 metre	₹ 454.67
0410	Cast iron pipes 200 mm dia	100 metre	₹ 737.30
0411	Cast iron pipes 250 mm dia	100 metre	₹ 1,049.23
0412	Cast iron pipes 300 mm dia	100 metre	₹ 1,299.05
0413	Cast iron pipes 350 mm dia	100 metre	₹ 1,818.67
0414	Cast iron pipes 400 mm dia	100 metre	₹ 2,480.01
0415	Cast iron pipes 450 mm dia	100 metre	₹ 3,031.11
0416	Cast iron pipes 500 mm dia	100 metre	₹ 3,031.11
0417	Cast iron pipes 600 mm dia	100 metre	₹ 4,546.68
0418	Cast iron pipes 700 mm dia	100 metre	₹ 4,546.68
0419	Cast iron pipes 800 mm dia	100 metre	₹ 4,546.68
0420	Cast iron pipes 900 mm dia	100 metre	₹ 6,820.02
0421	Cement	tonne	₹ 110.94
0422	Coarse sand	cum	₹ 142.63
0423	Ductile iron pipes (k7) 100 mm dia	100 metre	₹ 272.80
0424	Dump manure	cum	₹ 144.70
0425	Fine Sand	cum	₹ 142.63

Code No.	Description	Unit	Rate
0426	Fly ash	cum	₹ 130.51
0427	G.I. pipes below 100 mm dia	tonne	₹ 110.94
0428	G.I.sheet and accessories	tonne	₹ 110.94
0429	Good earth	cum	₹ 184.90
0430	Lime	cum	₹ 130.51
0431	Marble dust and marble chips	cum	₹ 130.51
0432	Moorum	cum	₹ 130.51
0433	Pig lead	tonne	₹ 110.94
0434	Plaster of paris	tonne	₹ 110.94
0435	R.C.C. pipes 100 mm dia	100 metre	₹ 272.80
0436	R.C.C. pipes 1000 mm dia	100 metre	₹ 9,093.35
0437	R.C.C. pipes 1100 mm dia	100 metre	₹ 9,093.35
0438	R.C.C. pipes 1200 mm dia	100 metre	₹ 9,093.35
0439	R.C.C. pipes 150 mm dia	100 metre	₹ 454.67
0440	R.C.C. pipes 250 mm dia	100 metre	₹ 1,049.23
0441	R.C.C. pipes 300 mm dia	100 metre	₹ 1,299.05
0442	R.C.C. pipes 450 & 500 mm dia	100 metre	₹ 3,031.11
0443	R.C.C. pipes 600, 700, 750 & 800 mm dia	100 metre	₹ 4,546.68
0444	R.C.C. pipes 900 mm dia	100 metre	₹ 6,820.02
0445	Red bajri	cum	₹ 130.51
0446	Rubbish	cum	₹ 130.51
0447	S.W. pipes100 mm dia	100 metre	₹ 170.68
0448	S.W. pipes150 mm dia	100 metre	₹ 332.82
0449	S.W. pipes200 mm dia	100 metre	₹ 554.70
0450	S.W. pipes230 mm dia	100 metre	₹ 792.42
0451	S.W. pipes250 mm dia	100 metre	₹ 950.90
0452	S.W. pipes300 mm dia	100 metre	₹ 1,188.63
0453	Sludge	cum	₹ 144.70
0454	Soling stone & masonry stone	cum	₹ 239.43
0455	Solvent/ Diesel.	quintal	₹ 12.48
0456	Spun iron S & S pipes 100 mm dia	100 metre	₹ 272.80

Code No.	Description	Unit	Rate
0457	Spun iron S & S pipes 125 mm dia	100 metre	₹ 363.73
0458	Spun iron S & S pipes 150 mm dia	100 metre	₹ 454.67
0459	Spun iron S & S pipes 200 mm dia	100 metre	₹ 737.30
0460	Spun iron S & S pipes 250 mm dia	100 metre	₹ 1,049.23
0461	Spun iron S & S pipes 300 mm dia	100 metre	₹ 1,299.05
0462	Spun iron S & S pipes 350 mm dia	100 metre	₹ 1,818.67
0463	Spun iron S & S pipes 400 mm dia	100 metre	₹ 2,480.01
0464	Spun iron S & S pipes 450 mm dia	100 metre	₹ 3,031.11
0465	Spun iron S & S pipes 500 mm dia	100 metre	₹ 3,031.11
0466	Spun iron S & S pipes 600mm dia	100 metre	₹ 4,546.68
0467	Steam coal	tonne	₹ 110.94
0468	Steel	tonne	₹ 110.94
0469	Stone blocks white & red sand stone & kota stone slab	tonne	₹ 110.94
0470	Stone dust	cum	₹ 130.51
0471	Surkhi	cum	₹ 130.51
0472	Tar bitumen	tonne	₹ 110.94
0473	Timber	cum	₹ 80.65

SUB-HEAD - 1



CARRIAGE OF MATERIAL

**SUB HEAD : 1.0 / CARRIAGE OF MATERIALS
BASIC RATES**

Code	Material Name	Unit	Rate
0116	Hire Charges of truck	Day	₹ 2,650.00
0203	Beldar	Day	₹ 300.00
0212	Coolie	Day	₹ 300.00
0224	Mate	Day	₹ 300.00
01001	Diesel	Litre	₹ 54.27
01002	Mobil Oil	Litre	₹ 250.00

SUB HEAD : 1.0 / CARRIAGE OF MATERIALS

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

Sl.No	Materials	Unit of rates	Net Qty Payable					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	Net Qty Payable			
1	2	3	4	5	6	7	8	9	10	11	12
1.1.1	Lime, moorum, building rubbish	cum	₹ 99.48	₹ 112.59	₹ 125.55	₹ 138.00	₹ 150.09	₹ 10.77	₹ 8.80	₹ 7.12	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"
1.1.2	Earth	cum	₹ 140.93	₹ 159.50	₹ 177.86	₹ 195.50	₹ 212.63	₹ 15.26	₹ 12.47	₹ 10.09	
1.1.3	Manure or sludge	cum	₹ 110.30	₹ 124.83	₹ 139.20	₹ 153.00	₹ 166.41	₹ 11.94	₹ 9.76	₹ 7.90	
1.1.4	Excavated rock	cum	₹ 350.71	₹ 396.91	₹ 442.61	₹ 486.50	₹ 529.13	₹ 37.97	₹ 31.04	₹ 25.11	
1.1.5	Sand	cum	₹ 108.72	₹ 123.04	₹ 137.21	₹ 150.81	₹ 164.03	₹ 11.77	₹ 9.62	₹ 7.78	
1.1.6	Stone aggregate below 40 mm nominal size	cum	₹ 121.77	₹ 137.81	₹ 153.67	₹ 168.91	₹ 183.71	₹ 13.18	₹ 10.78	₹ 8.72	
1.1.7	Stone aggregate 40 mm nominal size and above	cum	₹ 131.67	₹ 149.01	₹ 166.17	₹ 182.65	₹ 198.65	₹ 14.25	₹ 11.65	₹ 9.43	
1.1.8	Soling stone	cum	₹ 182.51	₹ 206.55	₹ 230.33	₹ 253.17	₹ 275.35	₹ 19.76	₹ 16.15	₹ 13.07	
1.1.9	Bricks	1000 Nos.	₹ 253.68	₹ 287.10	₹ 320.15	₹ 351.90	₹ 382.74	₹ 27.46	₹ 22.45	₹ 18.16	
1.1.10	Brick Tiles	1000 Nos.	₹ 152.21	₹ 172.26	₹ 192.09	₹ 211.14	₹ 229.64	₹ 16.48	₹ 13.47	₹ 10.90	
1.1.11	Cement, stone blocks, G.I. C.I., A.C., & C.C.pipes below 100 mm dia. and other heavy materials	tonne	₹ 84.56	₹ 95.70	₹ 106.72	₹ 117.30	₹ 127.58	₹ 9.15	₹ 7.48	₹ 6.05	
1.1.12	Steel	tonne	₹ 84.56	₹ 95.70	₹ 106.72	₹ 117.30	₹ 127.58	₹ 9.15	₹ 7.48	₹ 6.05	

Sl.No	Materials	Unit of rates	Net Qty Payable					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	Net Qty Payable			
1	2	3	4	5	6	7	8	9	10	11	12
1.1.13	Timber	cum	₹ 61.47	₹ 69.57	₹ 77.58	₹ 85.27	₹ 92.75	₹ 6.66	₹ 5.44	₹ 4.40	
1.1.14	Tar bitumen	tonne	₹ 84.56	₹ 95.70	₹ 106.72	₹ 117.30	₹ 127.58	₹ 9.15	₹ 7.48	₹ 6.05	
1.1.15	Solvent	qtl	₹ 9.51	₹ 10.77	₹ 12.01	₹ 13.20	₹ 14.35	₹ 1.03	₹ 0.84	₹ 0.68	
1.1.16	Steam coal	tonne	₹ 84.56	₹ 95.70	₹ 106.72	₹ 117.30	₹ 127.58	₹ 9.15	₹ 7.48	₹ 6.05	
1.1.17	S.W. pipe										
1.1.16.1	100 mm dia [600 mm length of weight 14kg/m]	100 m	₹ 130.09	₹ 147.23	₹ 164.18	₹ 180.46	₹ 196.28	₹ 14.08	₹ 11.51	₹ 9.31	
1.1.16.2	150 mm dia [600 mm length of weight 22kg/m]	100 m	₹ 253.68	₹ 287.10	₹ 320.15	₹ 351.90	₹ 382.74	₹ 27.46	₹ 22.45	₹ 18.16	
1.1.16.3	200 mm dia [600 mm length of weight 33kg/m]	100 m	₹ 422.80	₹ 478.50	₹ 533.59	₹ 586.50	₹ 637.90	₹ 45.77	₹ 37.42	₹ 30.27	
1.1.16.4	230 mm dia [600 mm length of weight 42kg/m]	100 m	₹ 604.01	₹ 683.57	₹ 762.27	₹ 837.86	₹ 911.28	₹ 65.39	₹ 53.46	₹ 43.25	
1.1.16.5	250 mm dia [600 mm length of weight 52kg/m]	100 m	₹ 724.81	₹ 820.29	₹ 914.72	₹ 1,005.43	₹ 1,093.54	₹ 78.47	₹ 64.15	₹ 51.90	
1.1.16.6	300 mm dia [600 mm length of weight 79kg/m]	100 m	₹ 906.01	₹ 1,025.36	₹ 1,143.40	₹ 1,256.79	₹ 1,366.93	₹ 98.09	₹ 80.18	₹ 64.87	
1.1.16.7	350 mm dia [600 mm length of weight 100kg/m]	100 m	₹ 1,268.41	₹ 1,435.51	₹ 1,600.76	₹ 1,759.50	₹ 1,913.70	₹ 137.32	₹ 112.26	₹ 90.82	

Sl.No	Materials	Unit of rates	Net Qty Payable					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	Net Qty Payable			
1	2	3	4	5	6	7	8	9	10	11	12
1.1.16.8	400 mm dia [600 mm length of weight 147kg/m]	100 m	₹ 1,812.02	₹ 2,050.72	₹ 2,286.80	₹ 2,513.57	₹ 2,733.85	₹ 196.17	₹ 160.37	₹ 129.74	
1.1.16.9	450 mm dia [600 mm length of weight 160kg/m]	100 m	₹ 2,306.20	₹ 2,610.01	₹ 2,910.48	₹ 3,199.09	₹ 3,479.45	₹ 249.68	₹ 204.10	₹ 165.13	
1.1.16.10	500 mm dia [600 mm length of weight 180kg/m]	100 m	₹ 2,536.82	₹ 2,871.01	₹ 3,201.52	₹ 3,519.00	₹ 3,827.39	₹ 274.64	₹ 224.51	₹ 181.64	
1.1.16.11	600 mm dia [600 mm length of weight 240kg/m]	100 m	₹ 3,020.03	₹ 3,417.87	₹ 3,811.34	₹ 4,189.29	₹ 4,556.42	₹ 326.96	₹ 267.28	₹ 216.24	
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	₹ 207.94	₹ 235.33	₹ 262.42	₹ 288.44	₹ 313.72	₹ 22.51	₹ 18.40	₹ 14.89	
1.1.17.2	125 mm dia [3.66 m long]	100 m	₹ 277.25	₹ 313.77	₹ 349.89	₹ 384.59	₹ 418.29	₹ 30.02	₹ 24.54	₹ 19.85	
1.1.17.3	150 mm dia [3.66 m long]	100 m	₹ 346.56	₹ 392.21	₹ 437.37	₹ 480.74	₹ 522.87	₹ 37.52	₹ 30.67	₹ 24.81	
1.1.17.4	200 mm dia [3.66 m long]	100 m	₹ 561.99	₹ 636.02	₹ 709.24	₹ 779.57	₹ 847.89	₹ 60.84	₹ 49.74	₹ 40.24	
1.1.17.5	250 mm dia [3.66 m long]	100 m	₹ 799.76	₹ 905.11	₹ 1,009.31	₹ 1,109.39	₹ 1,206.62	₹ 86.58	₹ 70.78	₹ 57.26	
1.1.17.6	300 mm dia [3.66 m long]	100 m	₹ 990.17	₹ 1,120.61	₹ 1,249.62	₹ 1,373.54	₹ 1,493.91	₹ 107.20	₹ 87.63	₹ 70.90	

Sl.No	Materials	Unit of rates	Net Qty Payable					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	Net Qty Payable			
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	₹ 1,386.24	₹ 1,568.86	₹ 1,749.47	₹ 1,922.95	₹ 2,091.47	₹ 150.08	₹ 122.69	₹ 99.26	
1.1.17.8	400 mm dia [3.66 m long]	100 m	₹ 1,890.33	₹ 2,139.35	₹ 2,385.64	₹ 2,622.21	₹ 2,852.01	₹ 204.65	₹ 167.30	₹ 135.35	
1.1.17.9	450 mm & 500 mm dia [3.66 m long]	100 m	₹ 2,310.40	₹ 2,614.77	₹ 2,915.78	₹ 3,204.92	₹ 3,485.78	₹ 250.13	₹ 204.48	₹ 165.43	
1.1.17.10	600, 700, 750 & 800 mm dia [3.66 m long]	100 m	₹ 3,465.61	₹ 3,922.15	₹ 4,373.67	₹ 4,807.38	₹ 5,228.68	₹ 375.20	₹ 306.71	₹ 248.14	
1.1.17.11	900 mm dia [3.66 m long]	100 m	₹ 5,198.41	₹ 5,883.22	₹ 6,560.50	₹ 7,211.07	₹ 7,843.02	₹ 562.79	₹ 460.07	₹ 372.21	
1.1.17.12	1000, 1100 & 1200 mm dia [3.66 m long]	100 m	₹ 6,931.21	₹ 7,844.30	₹ 8,747.33	₹ 9,614.75	₹ 10,457.35	₹ 750.39	₹ 613.43	₹ 496.28	

1.0 Carriage of Materials

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

Sl. No.	Materials	Unit	Cost per cum/ tonne/ Nos./ 100m		Remarks
			For lead up to 50 m	For every further lead of 50 m upto a lead of 0.5 km	
1	2	3	4	5	6
1.2.1	Lime, mooram building rubbish	cum	₹ 78.89	₹ 17.18	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"
1.2.2	Earth	cum	₹ 98.61	₹ 21.47	
1.2.3	Manure or sludge	cum	₹ 85.75	₹ 18.67	
1.2.4	Excavated rock	cum	₹ 157.78	₹ 34.35	
1.2.5	Sand, brick/stone aggregate below 40 mm nominal size	cum	₹ 98.61	₹ 21.47	
1.2.6	Brick/ Stone aggregate 40 mm nominal size and above	cum	₹ 106.61	₹ 23.21	
1.2.7	Soling stone	cum	₹ 116.02	₹ 25.26	
1.2.8	Bricks	1000 nos.	₹ 184.08	₹ 40.08	
1.2.9	Brick Tiles, Allahabad roofing tiles (Flat or round)	1000 nos.	₹ 115.05	₹ 25.05	
1.2.10	Steam coal	tonnes	₹ 92.04	₹ 20.04	
1.2.11	Stone blocks, G.I., C.I.pipes below 100 mm dia and other heavy materials	tonne	₹ 72.00	₹ 10.57	The length of S.W. Pipes will be measured exclusive of the internal depth of sockets
1.2.12	Cement	tonne	₹ 57.11	₹ 8.38	
1.2.13	Steel	tonne	₹ 122.67	₹ 18.00	
1.2.14	Timber	cum	₹ 78.86	₹ 11.57	
1.2.15	Tar bitumen etc	tonne	₹ 72.00	₹ 10.57	
1.2.16	S.W. pipes				
1.2.17.1	100 mm dia	100.00 m	₹ 144.13	₹ 21.15	
1.2.17.2	150 mm dia	100.00 m	₹ 236.91	₹ 34.76	
1.2.17.3	200 mm dia	100.00 m	₹ 331.53	₹ 48.65	
1.2.17.4	230 mm dia	100.00 m	₹ 424.62	₹ 62.31	
1.2.17.5	250 mm dia	100.00 m	₹ 552.00	₹ 81.00	
1.2.17.6	300 mm dia	100.00 m	₹ 788.57	₹ 115.71	
1.2.17.7	350 mm dia	100.00 m	₹ 1,104.00	₹ 162.00	
1.2.17.8	400 mm dia	100.00 m	₹ 1,380.00	₹ 202.50	
1.2.17.9	450 mm dia	100.00 m	₹ 1,672.73	₹ 245.45	
1.2.17.10	500 mm dia	100.00 m	₹ 2,044.44	₹ 300.00	
1.2.17.11	600 mm dia	100.00 m	₹ 2,509.09	₹ 368.18	

Sl. No.	Materials	Unit	Cost per cum/ tonne/ Nos./ 100m		Remarks
			For lead up to 50 m	For every further lead of 50 m upto a lead of 0.5 km	
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				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.
1.2.18.1	100 mm dia	100.00 m	₹ 194.59	₹ 28.55	
1.2.18.2	125 mm dia	100.00 m	₹ 238.10	₹ 34.94	
1.2.18.3	150 mm dia	100.00 m	₹ 274.17	₹ 40.23	
1.2.18.4	200 mm dia	100.00 m	₹ 411.43	₹ 60.37	
1.2.18.5	250 mm dia	100.00 m	₹ 723.14	₹ 106.11	
1.2.18.6	300 mm dia	100.00 m	₹ 904.92	₹ 132.79	
1.2.18.7	350 mm dia	100.00 m	₹ 1,293.75	₹ 189.84	
1.2.18.8	400 mm dia	100.00 m	₹ 1,505.45	₹ 220.91	
1.2.19	R.C.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, and unreinforced cement pipes 3.0 m long				
1.2.19.1	450 mm dia & 500 mm dia	100.00 m	₹ 2,007.27	₹ 294.55	
1.2.19.2	600, 700, 750 & 800 mm dia	100.00 m	₹ 6,624.00	₹ 972.00	
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	₹ 32.91	₹ 4.83	
1.2.20.2	80 mm dia	100.00 m	₹ 90.49	₹ 13.28	
1.2.20.3	100 mm dia	100.00 m	₹ 129.27	₹ 18.97	
1.2.20.4	150 mm dia	100.00 m	₹ 180.98	₹ 26.56	

SUB-HEAD - 2



EARTH WORK

**SUB HEAD : 2.0 / EARTH WORK
BASIC RATES**

Code No.	Description	Unit	Rate
0205	Bhisti/Waterman	day	₹ 300.00
0203	Beldar	day	₹ 300.00
0212	Coolie/Helper	day	₹ 300.00
0216	Foreman	day	₹ 425.00
0215	Fitter (grade 1)	day	₹ 380.00
0218*	Mason (average)	day	₹ 400.00
0208*	Carpenter (average)	day	₹ 400.00
02004	Kerosene oil	litre	₹ 48.00
01001	Diesel	litre	₹ 54.27
02002	Sand (Fine): Local quarry	cum	₹ 300.00
02001	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	₹ 250.00
0455	Carriage: Chemical	tonne	₹ 124.80
0425	Carriage: Sand (Fine): Local quarry	cum	₹ 142.63
0115	Hire charge of Diesel Road Roller - 8 to 10 tonne	day	₹ 2,653.00
0117	Hire charge of Pump set of capacity 4000 litres/hour	day	₹ 636.00
0118	Hire charge of Hydraulic Excavator (3D) with driver and fuel	hour	₹ 1,296.00
0111	Hire and running charge of Tripper	day	₹ 2,250.00
0127	Hire and running charge of Tractor with ripper attachment	day	₹ 1,472.00

SUB HEAD : 2.0**EARTH WORK****PREPARATORY WORK**

Code No.	Description	Unit	Rate
2.1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	sqm	₹ 6.20
2.2	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	sqm	₹ 3.50
2.3	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material.		
2.3.1	Beyond 30 cm girth upto and including 60 cm girth	Each	₹ 334.60
2.3.2	Beyond 60 cm girth upto and including 120 cm girth	Each	₹ 875.10
2.3.3	Beyond 120 cm girth upto and including 240 cm girth	Each	₹ 3,831.90
2.3.4	Above 240 cm girth	Each	₹ 7,714.10
2.4	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.		
	-All kinds of soil	sqm	₹ 12.10
2.5	Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same.		
	-All kinds of soil	sqm	₹ 9.40
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	Each	₹ 126.20

EXCAVATION

2.7	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed:		
	-All kinds of soil	100 sqm	₹ 4,498.30

Code No.	Description	Unit	Rate
2.8	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50 m and lift upto 1.5 m :		
	-All kinds of soil	cum	₹ 375.30
	<p><i>Note: In case the measurement of actual filling is taken to calculate the quantity involved under this item, the entire quantity of filling thus calculated, should not be considered straightway for payment under this item, but the net quantity after deduction 10% quantity for not consolidating the filling under optimum moisture content only should be considered for payment, under this rate, i.e., if the calculated quantity of filling is 10 cum the payment should be made only for 9 cum under this item. (Refer CPWD specification clause 2.10.5)</i></p>		
2.9	Banking excavated earth in layers not exceeding 20 cm. in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 50 m and lift upto 1.5 m.		
	-All kinds of soil	cum	₹ 224.90
	<p><i>Note:(Refer CPWD specification clause 2.10.5)</i> <i>If the banking or filling is not consolidated to optimum 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.</i> <i>Hence the deduction of 10% quantity from the actual measured and calculated quantity to arrive a correct quantity for payment is mandatory.</i></p>		
2.10	Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.	cum	₹ 5.60
2.11	Deduct for not watering the excavated earth for banking	cum	₹ 38.90

Code No.	Description	Unit	Rate
2.12	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	cum	₹ 128.80
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	cum	₹ 150.10
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.	Metre depth	20%
2.14.2	In or under foul position, including pumping out water as required.	Metre depth	25%
	<i>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.</i>		
2.15	Deduct for disposed soil not levelled and neatly dressed.	cum	₹ 32.80
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	cum	₹ 116.40
2.17	Extra for additional lift of 1.5m or part thereof		
	-All kinds of soil	cum	₹ 27.20

Code No.	Description	Unit	Rate
2.18	Supplying and filling in plinth, under floor, foundations etc. with sand (fine) from local quarry with all lifts including spreading in horizontal layers, watering, grading to required slope, ramming, consolidating and compacting each layer by using plate compactor or by any suitable method complete.	cum	₹ 615.70

ANTI TERMITE TREATMENT

2.19	Supplying chemical emulsion in sealed containers including delivery as specified.		
2.19.1	Chlorpyriphos/Lindane emulsifiable concentrate of 20%	Litre	₹ 287.60
2.20	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment as per IS: 6313 (Part III)- Latest revision (excluding the cost of chemical emulsion):		
2.20.1	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres/sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:		
2.20.1.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	m	₹ 17.00
2.20.2	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.		
2.20.2.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	m	₹ 27.90
2.20.3	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:	sqm	₹ 48.80
2.20.3.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.		
2.20.4	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 fine sand) to match the existing floor:	sqm	₹ 92.60
2.20.4.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.		

Code No.	Description	Unit	Rate
2.20.5	Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45° and plugging them with cement mortar 1:2 (1 cement: 2 fine sand) to the full depth of the hole:		
2.20.5.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	m	₹ 29.10
2.20.6	Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45° at 150 mm centre to centre and sealing the same.	m	₹ 206.40

Note: For Item No. 2.20

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

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

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 guarantee 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



MORTAR

**SUB HEAD : 3.0 / MORTAR
BASIC RATES**

Code No.	Description	Unit	Rate
0205	Bhisti/Waterman	Day	₹ 300.00
0203	Beldar	Day	₹ 340.00
0224	Mate	Day	₹ 300.00
03001	Cement (Portland)	tonne	₹ 6,100.00
03002	Cement (White)	tonne	₹ 18,000.00
03005	Marble dust/ powder	cum	₹ 3,780.00
03004	Marble chips up to 4mm and downsize White & black	quintal	₹ 541.00
03003	Marble chips large size above 4 mm White & black	quintal	₹ 541.00
03006	Mud (dry)	cum	₹ 28.00
02003	Sand (Fine): Selected quarry	cum	₹ 370.00
03007	Stone dust	cum	₹ 2,600.00
0421	Carriage: Cement	tonne	₹ 110.94
0429	Carriage: Good earth	cum	₹ 184.90
0425	Carriage: Fine Sand	cum	₹ 142.63
0470	Carriage: Stone dust	cum	₹ 130.51
0470	Carriage: Marble dust and marble chips	cum	₹ 130.51

SUB HEAD : 3.0

MORTAR

Note: *These rates are exclusive of water charges, overheads & contractor's profit.*

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, if design of mortar dictates for use of coarse sand, then separate analysis may be made as per site condition.

2. Mixing of Cement and sand is considered manually. Thus the cost towards labour and hire charges of mixer is not considered. Only cost of material is taken.

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

4. Ordinary cement 43 grade may be used.

5. Weight of 1 cum of cement considered = 1.44 t

Code No.	Description	Unit	Rate
3.1	Cement Mortar		
3.1.1	Cement Mortar 1 : 1 (1 cement : 1 fine sand)	cum	₹ 7,013.67
3.1.2	Cement Mortar 1 : 2 (1 cement : 2 fine sand)	cum	₹ 5,011.28
3.1.3	Cement Mortar 1 : 3 (1 cement : 3 fine sand)	cum	₹ 3,992.09
3.1.4	Cement Mortar 1 : 4 (1 cement : 4 fine sand)	cum	₹ 3,184.67
3.1.5	Cement Mortar 1 : 5 (1 cement : 5 fine sand)	cum	₹ 2,749.90
3.1.6	Cement Mortar 1 : 6 (1 cement : 6 fine sand)	cum	₹ 2,377.25
3.2	Cement Stone Dust Mortar		
3.2.1	Cement Stone Dust Mortar 1 : 2 (1 cement : 2 Stone dust)	cum	₹ 7,118.26
3.3	Cement Marble Dust Mortar		
3.3.1	Cement Marble Dust Mortar 1 : 2 (1 cement : 2 Marble dust)	cum	₹ 8,239.26
3.3.2	Cement Marble Dust Mortar 1 : 5 (1 cement : 5 Marble dust)	cum	₹ 6,385.64
3.4	White Cement Marble Dust Mortar		
3.4.1	White Cement Marble Dust Mortar 1 : 2 (1 White cement : 2 Marble dust)	cum	₹ 16,378.86
3.4.2	White Cement Marble Dust Mortar 1 : 3 (1 White cement : 3 Marble dust)	cum	₹ 13,696.83
3.4.3	White Cement Marble Dust Mortar 1 : 5 (1 White cement : 5 Marble dust)	cum	₹ 10,074.64
3.5	Mud Mortar	cum	₹ 944.11

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

SUB-HEAD - 4



CONCRETE WORK

**SUB HEAD : 4.0 / CONCRETE WORK
BASIC RATES**

Code No.	Description	Unit	Rate
0205	Bhisti/Waterman	Day	₹ 300.00
0203	Beldar	Day	₹ 300.00
0212	Coolie	Day	₹ 300.00
0216	Foreman	Day	₹ 425.00
0218*	Mason (average)	Day	₹ 400.00
0208*	Carpenter (average)	Day	₹ 400.00
04001	Brick Aggregate (Single size) : 40 mm nominal size	cum	₹ 2,550.00
04002	Brick Aggregate (Single size) : 20 mm nominal size	cum	₹ 2,975.00
04003	Brick Aggregate (Single size) : 12 mm nominal size	cum	₹ 3,075.00
04004	Stone Aggregate (Single size) : 40 mm nominal size	cum	₹ 3,532.00
04005	Stone Aggregate (Single size) : 25 mm nominal size	cum	₹ 3,969.00
04006	Stone Aggregate (Single size) : 20 mm nominal size	cum	₹ 3,969.00
04007	Stone Aggregate (Single size) : 12 mm nominal size	cum	₹ 4,005.00
04008	Stone Aggregate (Single size) : 10 mm nominal size	cum	₹ 4,040.00
04009	Stone Aggregate (Single size) : 06 mm nominal size	cum	₹ 3,750.00
04010	Local ballies 100/125 mm diameter	metre	₹ 59.00
04011	Paving bitumen S-90 of approved quality	tonne	₹ 36,820.00
03001	Cement (Portland)	tonne	₹ 6,100.00
04012	Coal (steam)	quintal	₹ 890.00
02004	Kerosene oil	litre	₹ 48.00
02003	Sand (Fine): Selected quarry	cum	₹ 370.00
05039	Mild steel round bar above 12 mm dia	quintal	₹ 4,010.00
05056	Structural steel such as tees, angles channels and R.S. joists	quintal	₹ 4,267.00
05026	Flats up to 10 mm in thickness	quintal	₹ 3,992.00
05041	Mild steel sheets for tanks	quintal	₹ 4,532.00
05027	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	₹ 12.00

Code No.	Description	Unit	Rate
05043	Mild stel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	₹ 27.00
05053	Straining bolts	each	₹ 79.00
04013	Second class local wood in scantling	10 cudm	₹ 137.00
04014	Second class local wood in planks	10 cudm	₹ 145.00
04015	Water proofing materials	kilogram	₹ 36.00
04016	Double clip (bridge clip)	each	₹ 119.00
04017	Single clip	each	₹ 97.00
04018	M.S. tube 40 mm dia	metre	₹ 328.00
04019	M.S. tube 50 mm dia	metre	₹ 379.00
04020	Column clamp 450x1070 m	each	₹ 1,628.00
0467	Carriage: Steam coal	tonne	₹ 84.57
0405	Carriage: Brick/ Stone aggregate below 40 mm nominal size	cum	₹ 121.78
0473	Carriage: Timber	cum	₹ 61.48
0468	Carriage: Steel	tonne	₹ 84.57
0404	Carriage: Brick/ Stone aggregate 40 mm nominal size and above	cum	₹ 131.68
0421	Carriage: Cement	tonne	₹ 84.57
0472	Carriage: Tar bitumen	tonne	₹ 84.57
0425	Carriage: Fine Sand	cum	₹ 108.73

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 separate analysis may be made as per site condition.
 2. The quantities of Cement, sand and coarse aggregates are as per Table No. 3.2. of Analysis Book
 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] ORDINARY MIX

Code No.	Description	Unit	Rate
4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - -All work upto plinth level:		
4.1.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 10,094.20
4.1.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 8,389.60
4.1.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 8,086.90
4.1.4	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 40 mm nominal size)	cum	₹ 7,744.30
4.1.5	1:3:6 (1 Cement: 3 fine sand : 6 graded stone aggregate 20 mm nominal size)	cum	₹ 7,567.60
4.1.6	1:3:6 (1 Cement: 3 fine sand : 6 graded stone aggregate 40 mm nominal size)	cum	₹ 7,035.10
4.1.7	1:4:8 (1 Cement: 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	cum	₹ 6,707.00
4.1.8	1:5:10 (1 Cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size)	cum	₹ 6,207.70
4.1.9	1:1:2 (1 Cement: 1 fine sand : 2 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 9,020.10
4.1.10	1:1½:3 (1 Cement: 1½ fine sand : 3 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 7,339.10
4.1.11	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 6,968.40

Code No.	Description	Unit	Rate
4.1.12	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 40 mm nominal size)	cum	₹ 6,660.30
4.1.13	1:3:6 (1 Cement: 3 fine sand : 6 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 6,415.70
4.1.14	1:3:6 (1 Cement: 3 fine sand : 6 graded well burnt brick aggregate 40 mm nominal size)	cum	₹ 5,916.40
4.1.15	1:4:8 (1 Cement: 4 fine sand : 8 graded well burnt brick aggregate 40 mm nominal size)	cum	₹ 5,548.70
4.1.16	1:5:10 (1 Cement: 5 fine sand : 10 graded well burnt brick aggregate 40 mm nominal size)	cum	₹ 5,097.00
4.2	Providing and laying cement concrete in retaining walls, return walls (any thick-ness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets 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 aggregate 20 mm nominal size)	cum	₹ 10,670.80
4.2.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 9,049.70
4.2.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 8,773.30
4.2.4	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 40 mm nominal size)	cum	₹ 8,395.00
4.2.5	1:3:6 (1 Cement: 3 fine sand : 6 graded stone aggregate 20 mm nominal size)	cum	₹ 8,219.60
4.2.6	1:3:6 (1 Cement: 3 fine sand : 6 graded stone aggregate 40 mm nominal size)	cum	₹ 7,678.20
4.2.7	1:1:2 (1 Cement: 1 fine sand : 2 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 9,583.30
4.2.8	1:1½:3 (1 Cement: 1½ fine sand : 3 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 7,973.50
4.2.9	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 7,623.00
4.1.10	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 40 mm nominal size)	cum	₹ 7,271.40
4.2.11	1:3:6 (1 Cement: 3 fine sand : 6 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 6,656.30
4.2.12	1:3:6 (1 Cement: 3 fine sand : 6 graded well burnt brick aggregate 40 mm nominal size)	cum	₹ 6,147.10

Code No.	Description	Unit	Rate
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FORM WORK [CENTERING AND SHUTTERING]

4.3	Centering shuttering including struttings, propping etc. and removal of form work for:		
4.3.1	Foundations, footings, bases for columns.	sqm	₹ 234.30
4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, but-tresses plinth and string courses fillets etc.	sqm	₹ 403.20
4.3.3	Columns, piers, abutments, pillarars, posts and struts.	sqm	₹ 497.40

CEMENT CONCRETE [PRE-CAST]

4.4.1	Providing and laying at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1 : 3 (1 cement : 3 fine sand) including the cost of required centering, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surface complete.		
4.4.1.1	1:2:4 (1 cement: 2 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 10,275.00
4.4.2	Providing and fixing upto floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1 : 3 (1 cement : 3 fine sand) including the cost of required centering, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surface complete.		
4.4.2.1	1:2:4 (1 cement: 2 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 11,436.20
4.4.2.2	1:3:6 (1 cement: 3 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 10,785.40
4.4.3	Providing and fixing upto floor five level precast cement concrete solid block including hoisting and setting in position with cement mortar 1 : 3 (1 cement : 3 fine sand) including the cost of required centering, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surface complete.		
4.4.3.1	1:2:4 (1 cement: 2 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 12,127.00

Code No.	Description	Unit	Rate
4.4.3.2	1:3:6 (1 cement: 3 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 11,430.60
4.4.4	Providing and fixing upto floor five level precast cement concrete hollow block including hoisting and setting in position with cement mortar 1 : 3 (1 cement : 3 fine sand) including the cost of required centering, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surface complete.		
4.4.4.1	1:2:4 (1 cement: 2 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 8,739.30
4.4.4.2	1:3:6 (1 cement: 3 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 8,286.80
4.4.5	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 nominal size) including necessary excavation of size 250x250x450 mm deep for the same in bitumen/concrete pavement at specified spacing.	Each	₹ 724.90

DAMP PROOF COURSE AND MISCELLANEOUS ITEMS

4.5.1	Providing and laying damp-proof course with cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5mm/20mm nominal size).		
4.5.1.1	D.P.C. 40 mm thick	sqm	₹ 362.40
4.5.1.2	D.P.C. 50 mm thick	sqm	₹ 460.40
4.5.2	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification	per 50kg of Cement	₹ 79.10
4.5.3	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	sqm	₹ 102.00

Code No.	Description	Unit	Rate
4.5.4	Extra for concrete work in superstructure above floor V level for each four floors or part thereof.		
	Percentage above the rates of the respective items upto floor five level	cum	8%
4.5.5	Extra for laying concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.	per cum per metre depth	₹ 706.20
	<i>Note [Item No. 4.5.5]: The quantity will be calculated by multiplying the depth measured from the sub-soil water level up to the centre of gravity of concrete under sub-soil water level with the quantity of concrete in cubic meter executed under sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1m, 0.05m or more shall be taken as 0.1m and less than 0.05m ignored. No extra payment shall be made for placing centering and shuttering under sub-soil water conditions. [unit of measurement = per cum per meter depth]</i>		
4.5.6	Extra for laying concrete in or under foul positions.	cum	₹ 395.30
4.5.7	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.	sqm	₹ 574.50

**NOMINAL MIX CONCRETE AS PRESCRIBED IN IS : 456
(NOMINAL MIX IN LIEU OF DESIGN MIX)**

4.6.1	Providing and laying in position plain cement concrete of specified grade under nominal mix concrete in lieu of design mix concrete with proportions as specified in table 4.7 of Chapter 4 of the CPWD Specifications, excluding the cost of centring and shuttering for all works upto plinth level -		
4.6.1.1	Concrete grade M-5 for lean concrete / levelling course with 40 mm nominal size aggregate	cum	₹ 6,070.40
4.6.1.2	Concrete grade M-7.5 for lean concrete / levelling course with 40 mm nominal size aggregate	cum	₹ 6,320.00

Code No.	Description	Unit	Rate
4.6.1.3	Concrete grade M-10 for base course with 40 mm maximum size stone aggregate	cum	₹ 6,721.20
4.6.1.4	Concrete grade M-10 for base course with 20 mm maximum size stone aggregate	cum	₹ 7,293.50
4.6.1.5	Concrete grade M-15 for base course with 40 mm maximum size stone aggregate	cum	₹ 7,432.20
4.6.1.6	Concrete grade M-15 for base course with 20 mm maximum size stone aggregate	cum	₹ 8,012.20
4.6.1.7	Concrete grade M-15 only for plain concrete with 10mm/ 12mm maximum size stone aggregate	cum	₹ 7,958.80
4.6.1.8	Concrete grade M-20 for RCC works in limited items and for plain concrete works with 20 mm maximum size stone aggregate	cum	₹ 8,553.60

SUB-HEAD - 5



REINFORCED CEMENT
CONCRETE WORK

**SUB HEAD : 5.0 / REINFORCED CEMENT CONCRETE WORK
BASIC RATES**

Code No.	Description	Unit	Rate
0201	Bandhani	Day	₹ 300.00
0205	Bhisti/Waterman	Day	₹ 300.00
0206	Blacksmith 1st class	Day	₹ 425.00
0209	Carpenter 1st class	Day	₹ 425.00
0203	Beldar	Day	₹ 300.00
0212	Coolie	Day	₹ 300.00
0216	Foreman	Day	₹ 425.00
0202	Bar -bender	Day	₹ 300.00
0215	Fitter (grade 1)	Day	₹ 380.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0224	Mate	Day	₹ 300.00
0218*	Mason (average)	Day	₹ 400.00
0208*	Carpenter (average)	Day	₹ 400.00
05044	Non - Asbestos multi purpose fibre cement board 6mm thick.	sqm	₹ 225.00
06002	Brick [2nd Class]	each	₹ 6.69
04001	Brick Aggregate (Single size) : 40 mm nominal size	cum	₹ 2,550.00
04002	Brick Aggregate (Single size) : 20 mm nominal size	cum	₹ 2,975.00
04003	Brick Aggregate (Single size) : 12 mm nominal size	cum	₹ 3,075.00
04004	Stone Aggregate (Single size) : 40 mm nominal size	cum	₹ 3,532.00
04005	Stone Aggregate (Single size) : 25 mm nominal size	cum	₹ 3,969.00
04006	Stone Aggregate (Single size) : 20 mm nominal size	cum	₹ 3,969.00
04007	Stone Aggregate (Single size) : 12 mm nominal size	cum	₹ 4,005.00
04008	Stone Aggregate (Single size) : 10 mm nominal size	cum	₹ 4,040.00
04009	Stone Aggregate (Single size) : 06 mm nominal size	cum	₹ 3,750.00
04010	Local ballies 100/125 mm diameter	metre	₹ 59.00
04011	Paving bitumen S-90 of approved quality	tonne	₹ 36,820.00

Code No.	Description	Unit	Rate
05006	Bitumen [Blown type petroleum] of penetration 85/25 of approved quality	tonne	₹ 36,820.00
05005	Bitumen solution primer of approved quality	litre	₹ 52.00
05024	Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	₹ 415.00
03001	Cement [Portland]	tonne	₹ 6,100.00
04012	Coal (steam)	quintal	₹ 890.00
05033	Hessian cloth	sqm	₹ 28.00
05020	Cement Concrete Jali 50 mm thick	sqm	₹ 373.00
05019	Cement Concrete Jali 40 mm thick	sqm	₹ 318.00
05018	Cement Concrete Jali 25 mm thick	sqm	₹ 234.00
02004	Kerosene oil	litre	₹ 48.00
05021	Copper plate	kilogram	₹ 322.00
02003	Sand (Fine): Selected quarry	cum	₹ 370.00
05038	Mild steel round bar 12 mm dia and below	quintal	₹ 4,055.00
05039	Mild steel round bar above 12 mm dia	quintal	₹ 4,010.00
05040	Average rate of Mild steel round bars for reinforcements	quintal	₹ 4,032.00
05062	Twisted steel / deformed bars	quintal	₹ 4,102.00
05042	Mild steel square bars	quintal	₹ 4,140.00
05056	Structural steel such as tees, angles channels and R.S. joists	quintal	₹ 4,267.00
05026	Flats up to 10 mm in thickness	quintal	₹ 3,992.00
05041	Mild steel sheets for tanks	quintal	₹ 4,532.00
05034	Mild steel expanded metal 20x60 mm strands	sqm	₹ 314.00
05032	Hard drawn steel wire fabric	sqm	₹ 535.00
05027	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	₹ 12.00
05043	Mild stel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	₹ 27.00
05053	Straining bolts	each	₹ 79.00
05028	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	₹ 22.00
05030	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	₹ 14.00
05017	Bolts and nuts up to 300 mm in length	quintal	₹ 5,200.00

Code No.	Description	Unit	Rate
05016	Bolts and nuts above 300 mm in length	quintal	₹ 5,350.00
05001	12 mm dia steel pegs	quintal	₹ 5,050.00
04013	Second class local wood in scantling	10 cudm	₹ 137.00
04014	Second class local wood in planks	10 cudm	₹ 145.00
04015	Water proofing materials	kilogram	₹ 36.00
05066	Wire nails	kilogram	₹ 66.00
05031	Hard drawn steel wire	quintal	₹ 5,268.00
05008	Bolts and nuts 16 mm dia 65 mm long	each	₹ 13.00
05009	Bolts and nuts 20 mm dia 65 mm long	each	₹ 19.00
05010	Bolts and nuts 20 mm dia 70 mm long	each	₹ 19.00
05011	Bolts and nuts 20 mm dia 75 mm long	each	₹ 19.00
05012	Bolts and nuts 20 mm dia 80 mm long	each	₹ 20.00
05013	Bolts and nuts 24 mm dia 85 mm long	each	₹ 38.00
05014	Bolts and nuts 24 mm dia 90 mm long	each	₹ 40.00
05015	Bolts and nuts 27 mm dia 100 mm long	each	₹ 47.00
05055	Strips-Aluminium fluted 3.15mm thick and 150mm wide	metre	₹ 245.00
05054	Strips Aluminium fluted 3.15mm thick and 200mm wide metre	Metre	₹ 347.00
05047	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	₹ 722.00
05050	Rawl plug 50 mm (designation 10 no.)	each	₹ 7.00
05046	Plasticizer / super plasticizer	kilogram	₹ 41.00
05064	Wall form panel 1250x500 mm	each	₹ 1,698.00
05057	Tie bolt 12 mm dia 100 mm length	each	₹ 52.00
05058	Tie bolt 12 mm dia 150 mm length	each	₹ 69.00
05059	Tie bolt 12 mm dia 450 mm length	each	₹ 155.00
05060	Tie bolt 20 mm dia 150 mm length	each	₹ 98.00
05061	Tie bolt 20 mm dia 225 mm length	each	₹ 121.00
05051	Spring coil 12 mm	each	₹ 15.00
05045	Plastic cone 12 mm dia	each	₹ 18.00
04016	Double clip (bridge clip)	each	₹ 119.00

Code No.	Description	Unit	Rate
04017	Single clip	each	₹ 97.00
04018	M.S. tube 40 mm dia	metre	₹ 328.00
04019	M.S. tube 50 mm dia	metre	₹ 379.00
05063	Wall form panel 1250x450 mm	each	₹ 1,560.00
05022	Corner angle 45x45x5 m 2.50 m long	each	₹ 400.00
04020	Column clamp 450x1070 m	each	₹ 1,628.00
05048	Prop 2 m (2-3.5m)	each	₹ 1,155.00
05004	Binding wire	kilogram	₹ 58.00
05002	Adjustable span ESO+SI (2.35-3.40)	each	₹ 2,327.00
05003	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	₹ 1,452.00
05052	Stirrup head	each	₹ 495.00
05049	Prop 4 m	each	₹ 1,584.00
05023	Double coupler	each	₹ 73.00
05065	Water proof ply 12mm thick.	sqm	₹ 702.00
05067	1 mm thick Stainless steel cover plate grade 304	kg	₹ 300.00
08241	Stainless steel screws	100 Nos.	₹ 208.00
05068	Coupler 16 mm dia	each	₹ 75.00
05069	Coupler 20 mm dia	each	₹ 98.00
05070	Coupler 25 mm dia	each	₹ 145.00
05071	Coupler 28 mm dia	each	₹ 215.00
05072	Coupler 32 mm dia	each	₹ 258.00
0467	Carriage: Steam coal	tonne	₹ 110.94
0406	Carriage: Bricks	1000 Nos	₹ 332.82
0405	Carriage: Brick/ Stone aggregate below 40 mm nominal size	cum	₹ 159.75
0473	Carriage: Timber	cum	₹ 80.65
0468	Carriage: Steel	tonne	₹ 110.94
0404	Carriage: Brick/ Stone aggregate 40 mm nominal size and above	cum	₹ 172.74
0421	Carriage: Cement	tonne	₹ 110.94
0472	Carriage: Tar bitumen	tonne	₹ 110.94
0425	Carriage: Fine Sand	cum	₹ 142.63
0454	Carriage: Soling stone & masonry stone	cum	₹ 239.43

SUB HEAD : 5.0**REINFORCED CEMENT 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 separate analysis may be made as per site condition.
 2. The quantities of Cement, sand and coarse aggregates are as per Table No. 3.2. Chapter 4 of Analysis
 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.

REINFORCED CEMENT CONCRETE [CAST-IN-SITU]: ORDINARY MIX

Code No.	Description	Unit	Rate
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:		
5.1.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 10,141.80
5.1.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 8,439.60
5.1.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 8,139.60
5.1.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 7,015.50
5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and skirting courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement-		
5.2.1	In walls (any thickness), including attached pilasters, buttresses, piers, abutments etc.		
5.2.1.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 10,371.20
5.2.1.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 8,708.70
5.2.1.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 8,466.10
5.2.1.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 7,302.10

Code No.	Description	Unit	Rate
5.2.2	In plinth and skirting courses, fillets, columns, pillars, posts and struts		
5.2.2.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 10,482.10
5.2.2.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 8,967.30
5.2.2.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 8,598.40
5.2.2.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 7,416.20
5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement-		
5.3.1	RCC work in suspended floors, roofs having slope upto 15° landings, balconies, shelves and chajjas.		
5.3.1.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 10,415.80
5.3.1.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 8,841.00
5.3.1.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 8,558.30
5.3.1.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 7,402.90
5.3.2	RCC work in beams, lintels, bands, plain window sills, staircases and spiral staircases excluding precast spiral staircase.		
5.3.2.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 10,363.00
5.3.2.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 8,807.50
5.3.2.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 8,530.30
5.3.2.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 7,363.60
5.4	Providing and laying upto floor five level reinforced cement concrete work in kerbs, steps and the like excluding the cost of centring, shuttering, finishing and reinforcement-		
5.4.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 10,387.80

Code No.	Description	Unit	Rate
5.4.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 8,790.10
5.4.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 8,529.80
5.4.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 7,363.10
5.5	Providing and laying upto floor five level reinforced cement concrete work in arches, arch ribs excluding the cost of centring, shuttering, finishing and reinforcement-		
5.5.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 11,508.10
5.5.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 9,793.90
5.5.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 9,565.20
5.5.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 8,341.10
5.6	Providing and laying upto floor five level reinforced cement concrete work in domes, vaults, shells, folded plate and roofs having slope more than 15° excluding the cost of centring, shuttering, finishing and reinforcement-		
5.6.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 12,144.60
5.6.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 10,442.40
5.6.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 10,202.90
5.6.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 9,004.10
5.7	Providing and laying upto floor five level reinforced cement concrete work in chimneys, shafts excluding the cost of centring, shuttering, finishing and reinforcement-		
5.7.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 11,244.10
5.7.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 9,622.30
5.7.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 9,475.00

Code No.	Description	Unit	Rate
5.7.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 8,284.80
5.8	Providing and laying upto floor five level reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers facias and eaves boards excluding the cost of centring, shuttering, finishing and reinforcement-		
5.8.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 11,878.40
5.8.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 10,190.00
5.8.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 9,947.20
5.8.4	1:2:4 (1 Cement: 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	cum	₹ 8,664.50

FORM WORK [CENTERING AND SHUTTERING]

5.9	Centering shuttering including struttings, propping etc. and removal of form work for:		
5.9.1.1	Foundations, footings, bases for columns etc. for mass concrete with timber plank	sqm	₹ 226.10
5.9.1.2	Foundations, footings, bases for columns etc. for mass concrete with steel formwork	sqm	₹ 262.50
5.9.2	R.C.C. Cast-in-situ Shelves	sqm	₹ 215.90
5.9.3	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc. using shuttering ply	sqm	₹ 327.80
5.9.4.1	Suspended floors, roofs, landings, balconies and access platform with timber planks	sqm	₹ 389.80
5.9.4.2	Suspended floors, roofs, landings, balconies and access platform with 12 mm thick shuttering ply	sqm	₹ 452.10
5.9.4.3	Suspended floors, roofs, landings, balconies and access platform with M.S. plates and props	sqm	₹ 464.80
5.9.5.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers with shuttering ply	sqm	₹ 327.70
5.9.5.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers with wooden plank	sqm	₹ 270.60

Code No.	Description	Unit	Rate
5.9.6.1	Columns, Pillars, Piers, Abutments, Posts and Struts with shuttering ply	sqm	₹ 429.30
5.9.6.2	Columns, Pillars, Piers, Abutments, Posts and Struts with wooden plank	sqm	₹ 413.60
5.9.6.3	Columns, Pillars, Piers, Abutments, Posts and Struts with M.S. shutters	sqm	₹ 441.20
5.9.6.4	Circular Columns with ply shutters	sqm	₹ 491.40
5.9.7.1	Stairs (excluding landings) except spiral-staircases with wooden plank	sqm	₹ 396.60
5.9.7.2	Spiral staircases (including landing) - cast-in-situ with ply	sqm	₹ 374.00
5.9.8	Arches upto 6 m span	sqm	₹ 599.20
5.9.9	Domes upto 6 m span	sqm	₹ 781.50
5.9.10	R.C.C.Chimneys and shafts	sqm	₹ 290.90
5.9.11	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards.	sqm	₹ 295.00
5.9.12.1	Edges of slabs and breaks in floors and walls under 20 cm. wide	metre	₹ 91.80
5.9.12.2	Edges of slabs and breaks in floors and walls above 20 cm. wide	metre	₹ 108.60
5.9.13	Weather shade, Chajjas, corbels etc., including edges.	sqm	₹ 376.10
5.9.14	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	sqm	₹ 387.20
5.9.15	Cornices and mouldings	sqm	₹ 414.70
5.10	Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the Engineer-in-charge		
5.10.1	12 mm dia. & 100 mm length.	Each set	₹ 139.80
5.10.2	12 mm dia. & 150 mm length.	Each set	₹ 159.90
5.10.3	20 mm dia. & 150 mm length.	Each set	₹ 194.30

Code No.	Description	Unit	Rate
5.10.4	20 mm dia. & 225 mm length.	Each set	₹ 221.50
5.11	Extra for additional height in centring, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentring at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof: Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	sqm	₹ 186.30

ENCASING ROLLED STEEL SECTION

5.12	Encasing rolled steel sections, in beams and columns, with cement concrete including centring and shuttering complete but excluding cost of reinforcement.		
5.12.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 12,941.50
5.12.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 11,211.40
5.12.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 12,019.50
5.13	Encasing rolled steel section in grillages with cement concrete including centring and shuttering but excluding cost of expanded metal and hangers.		
5.13.1	1:1:2 (1 Cement: 1 fine sand : 2 graded stone aggregate 20 mm nominal size)	cum	₹ 11,838.80
5.13.2	1:1½:3 (1 Cement: 1½ fine sand : 3 graded stone aggregate 20 mm nominal size)	cum	₹ 10,001.10
5.13.3	1:2:4 (1 Cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 9,679.60
5.14	Extra for providing and fixing expanded metal mesh of size 20x60mm and strands 3.25mm wide 1.6mm thick weighing 3.64 kg. per sqm. for encasing of rolled steel sections in beams, columns and grillages excluding cost of hangers.	sqm	₹ 420.30

PRE - CAST R.C.C.

5.15	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centring, shuttering, finishing smooth with 6mm thick cement plaster 1:3 (1cement : 3 fine sand) on exposed surfaces complete, but excluding cost of reinforcement with cement concrete 1:2:4 (1cement : 2 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 12,702.40
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Code No.	Description	Unit	Rate
5.16	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete work in mouldings as in cornices, windows sills etc. including setting in cement mortar 1:3(1cement : 3 fine sand), cost of required centring, shuttering, finishing smooth with 6mm thick cement plaster 1:3 (1cement : 3 fine sand) on exposed surfaces complete, but excluding cost of reinforcement with cement concrete 1:2:4 (1cement : 2 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 13,818.80
5.17	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete work in shelves including setting in cement mortar 1:3(1cement : 3 fine sand), cost of required centring, shuttering, finishing with neat cement punning on exposed surfaces complete, but excluding cost of reinforcement with cement concrete 1:2:4 (1cement : 2 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 17,310.00
5.18	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete work in vertical & horizontal fins individually or forming box louvers including setting in cement mortar 1:2(1cement : 2 fine sand), cost of required centring, shuttering, finishing smooth with 6mm thick cement plaster 1:3(1cement : 3 fine sand) on exposed surfaces complete, but excluding cost of reinforcement with cement concrete 1:2:4 (1cement : 2 fine sand : 4 graded stone aggregate 20mm nominal size).	cum	₹ 20,708.80
5.19	Providing precast cement concrete Jali 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centring and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3(1cement : 3 fine sand) etc. complete, excluding the plastering of jambs, sills and soffits		
5.19.1	50 mm thick	sqm	₹ 581.60
5.19.2	40 mm thick	sqm	₹ 510.20
5.19.3	25 mm thick	sqm	₹ 401.20

STEEL REINFORCEMENT

5.20	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto floor five level.		
5.20.1	Mild steel and Medium\Tensile steel bars.	kg	₹ 57.50
5.20.2	Hard drawn steel wire	kg	₹ 73.50

Code No.	Description	Unit	Rate
5.20.3	Hard drawn steel wire fabric	kg	₹ 95.90
5.20.4	Thermo-Mechanically Treated bars/ Cold twisted deformed steel bars	kg	₹ 59.70
<p><i>Note: Wastage and unauthorised overlaps shall not be paid for. Annealed steel wire required for binding or tack welding shall not be measured, its cost being included in the rate of reinforcement. Wherever tack welding is used in lieu of binding, such welds shall not be measured. Chairs, separators etc. shall be provided as directed by Engineer-in-Charge and measured seperately and paid for.</i></p>			
5.21	Extra for reinforcement for R.C.C. work above floor V level for each four floors or part thereof.	kg	₹ 5.40

MISCELLANEOUS

- 5.22 Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete.

Note: The quantity will be calculated by multiplying the depth measured from the sub-soil water level up to the centre of gravity of the RCC under sub-soil water with the quantity of RCC in cubic meter executed under sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1m and 0.05m shall be taken as 0.1m and less than 0.05m ignored. No extra payment shall be made for placing reinforcement or centering and shuttering under sub-soil water conditions. [unit of measuement = per cum per meter depth]

5.22.1	Reinforced cement concrete for R.C.C. footing	cum per meter depth	₹ 145.90
5.22.2	Reinforced cement concrete for R.C.C. Column	cum per meter depth	₹ 2,226.70
5.23	Extra for laying reinforced cement concrete in or under foul positions.	cum	₹ 871.50
5.24	Smooth finishing of the exposed surface of R.C.C. work with 6mm thick cement mortar 1:3 (1 Cement: 3 fine sand)	sqm	₹ 144.10
5.25	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	₹ 32.20

Code No.	Description	Unit	Rate
5.26	Providing and fixing in position copper plate as per design for expansion joints.	kg	₹ 437.30
5.27	Providing and filling in position, blown bitumen in expansion joints.	Per cm width Per cm depth Per 100m length	₹ 583.50
5.28	Providing and filling in position bitumen mix filler of proportion 80 kg. of hot bitumen, 1 kg. of cement and 0.25 cubic metre of fine sand for expansion joints.	Per cm width Per cm depth Per 100m length	₹ 188.30
5.29	Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS: 1838 including cost of primer, sealing compound in expansion joints.	per cm depth per 100 m length	₹ 551.70
5.30	Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour /shade of wall treatment.		
5.30.1	Non-asbestos fibre cement board 6 mm thick as per IS: 14862 [200mm wide]	metre	₹ 176.20
5.30.2	Aluminium fluted strips 3.15mm thick : 200 mm wide	metre	₹ 557.10

DESIGN MIX CONCRETE

5.31	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centring, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per the direction of Engineer-in-Charge.		
5.31.1	All works upto plinth level		
5.31.1.1	Reinforced cement concrete grade M-25 using 410 kg of cement per cum	cum	₹ 9,896.50
5.31.2	All works upto Floor five level		
5.31.2.1	Reinforced cement concrete grade M-25 using 410 kg of cement per cum	cum	₹ 10,044.60

Code No.	Description	Unit	Rate
5.32	Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead upto 10kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of RMC from transit mixer to site of laying but excluding the cost of centring, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per the direction of Engineer-in-Charge.		
5.32.1	All works upto plinth level		
5.32.1.1	Reinforced cement concrete grade M-25 using 410 kg of cement per cum	cum	₹ 9,472.30
5.32.2	All works upto Floor five level		
5.32.2.1	Reinforced cement concrete grade M-25 using 410 kg of cement per cum	cum	₹ 9,766.20
5.33	Extra for carriage of R.M.C. beyond the initial lead of 10 km.	cum/km	₹ 50.20
5.34	Add or deduct for providing richer or leaner mixes respectively at all levels.		
5.34.1	Providing M-30 grade of concrete instead of M-25 grade of concrete B.M.C/R.M.C	cum	₹ 184.00
5.34.2	Providing M-35 grade of concrete instead of M-25 grade of concrete B.M.C/R.M.C	cum	₹ 367.90
5.34.3	Providing M-25 grade of concrete instead of M-20 grade of concrete B.M.C/R.M.C	cum	₹ 25.00
5.35	Deduct for using less cement than the quantity as provided in the item of batch mix concrete/RMC as arrived as per mix design.	quintal	₹ 743.00
5.36	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	cum	₹ 203.30
5.37	Providing and fixing in position Stainless steel Grade 304 plate- 1.0 mm thick as per design for expansion joints.		
5.37.1	200 mm wide	metre	₹ 643.70
5.37.2	300 mm wide	metre	₹ 930.80

Code No.	Description	Unit	Rate
5.38	Providing and fixing tapered / parallel threaded couplers conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement- Specification", to reinforcement bars including threading, enlargement at connection by forging, protecting the prepared reinforcement bars and related operations as required to complete the works as per direction of Engineer-in-Charge. (the length of the bars in which coupler is to be provided should not be less than 4 metre, no deduction for labour and binding wire saved for not providing lap length shall be made).		
5.38.1	Coupler for 16 mm diameter reinforcement bar	each	₹ 131.40
5.38.2	Coupler for 20 mm diameter reinforcement bar	each	₹ 181.50
5.38.3	Coupler for 25 mm diameter reinforcement bar	each	₹ 252.30
5.38.4	Coupler for 28 mm diameter reinforcement bar	each	₹ 357.70
5.38.5	Coupler for 32 mm diameter reinforcement bar	each	₹ 413.20

SUB-HEAD - 6

BRICK WORK

**SUB HEAD : 6.0 / BRICK WORK
BASIC RATES**

Code No	Description	Unit	Rate
0203	Beldar	Day	₹ 300.00
0212	Coolie	Day	₹ 300.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0224	Mate	Day	₹ 300.00
0205	Waterman	Day	₹ 300.00
0216	Foreman	Day	₹ 425.00
06003	Bitumen felt :Type 3 grade 1	Sqm	₹ 70.00
06004	Gypsum panel 666 X 500 X 100 mm size.	Sqm	₹ 800.00
06005	Bonding plaster for Gypsum panel.	Kg	₹ 78.00
05038	Mild steel round bar 12 mm dia and below	Quintal	₹ 4,055.00
05026	Steel Flats up to 10 mm in thickness	Quintal	₹ 3,992.00
01001	Diesel oil	Litre	₹ 54.27
06001	Brick (1st class)	1000 Nos	₹ 8,027.00
06002	Brick (2nd class)	1000 Nos	₹ 6,690.00
06006	Cement Concrete Soild Blocks	1000 Nos	₹ 10,000.00
0406	Carriage: Bricks	1000 Nos	₹ 332.82
0468	Carriage: Steel	Tonne	₹ 110.94
0472	Carriage: Bitumen felt	Tonne	₹ 110.94

SUB HEAD : 6.0**BRICK WORK****Note:**

- 1 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 separate analysis may be made as per site condition.
- 3 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.
- 4 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.
- 5 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.)
- 6 Consumption of bricks has been considered as per the sizes of the bricks available in Tripura.
- 7 Locally available well burnt 1st class bricks and 2nd class bricks with following classification & dimension will be used:-

Type of Bricks	Dimension (in mm) {Length x Breadth x Depth}			Minimum compressive strength {Not less than}	Water Absorption {Not more than}
	Actual	Nominal	Tolerance		
1 st class	250x120x70	255x123x72	±3	105 Kgf/cm ²	20% by weight
2 nd class	250x120x70	255x123x72	±5	75 Kgf/cm ²	25% by weight

- 8 All other specification for quality, sampling and tests including efflorescence of bricks shall generally be as Chapter - 6 of CPWD's specification.

Code No.	Description	Unit	Rate
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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).	Cum.	₹ 5,954.90
6.1.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Cum.	₹ 5,650.00
6.1.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Cum.	₹ 5,408.60

Code No.	Description	Unit	Rate
6.1.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Cum.	₹ 5,278.50
6.1.5	In cement mortar 1:6 (1 cement : 6 fine sand).	Cum.	₹ 5,167.10
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).	Cum.	₹ 5,347.10
6.2.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Cum.	₹ 5,042.20
6.2.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Cum.	₹ 4,800.70
6.2.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Cum.	₹ 4,670.70
6.2.5	In cement mortar 1:6 (1 cement : 6 fine sand).	Cum.	₹ 4,559.20
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).	Cum.	₹ 6,471.80
6.3.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Cum.	₹ 6,168.90
6.3.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Cum.	₹ 5,930.80
6.3.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Cum.	₹ 5,800.20
6.3.5	In cement mortar 1:6 (1 cement : 6 fine sand).	Cum.	₹ 5,694.20
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).	Cum.	₹ 5,863.60
6.4.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Cum.	₹ 5,563.20
6.4.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Cum.	₹ 5,324.80
6.4.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Cum.	₹ 5,197.70
6.4.5	In cement mortar 1:6 (1 cement : 6 fine sand).	Cum.	₹ 5,089.70
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.	Cum.	₹ 312.40
6.6	Extra for brick masonry work in triangular, square and rectangular pillars including cost of all materials as required complete.	Cum.	₹ 351.40

Code No.	Description	Unit	Rate
6.7	Extra for brick masonry work in circular pillars including cost of all materials as required complete.	Cum.	₹ 628.10
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).	Cum.	₹ 8,136.30
6.8.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Cum.	₹ 7,825.30
6.8.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Cum.	₹ 7,579.00
6.9	First class brick work in gauged arches in superstructure upto floor five level including centring and shuttering for span upto 6 metres as required complete:-		
6.9.1	In cement mortar 1:2 (1 cement : 2 fine sand).	Cum.	₹ 9,446.40
6.9.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Cum.	₹ 9,135.40
6.9.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Cum.	₹ 8,889.10
6.10	Half brick masonry work with first class bricks in foundation and plinth including cost of all materials as required complete:-		
6.10.1	In cement mortar 1:2 (1 cement : 2 fine sand).	Sqm.	₹ 778.90
6.10.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Sqm.	₹ 744.70
6.10.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Sqm.	₹ 717.70
6.10.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Sqm.	₹ 703.10
6.11	Half brick masonry work 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).	Sqm.	₹ 695.70
6.11.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Sqm.	₹ 661.60
6.11.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Sqm.	₹ 634.50
6.11.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Sqm.	₹ 620.00
6.12	Half brick masonry work 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).	Sqm.	₹ 847.60

Code No.	Description	Unit	Rate
6.12.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Sqm.	₹ 814.00
6.12.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Sqm.	₹ 787.30
6.12.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Sqm.	₹ 773.00
6.13	Half brick masonry work 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).	Sqm.	₹ 764.70
6.13.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Sqm.	₹ 731.10
6.13.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Sqm.	₹ 704.40
6.13.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Sqm.	₹ 690.20
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.	Sqm.	₹ 39.10
6.15	1st class brick masonry work 75mm thick in superstructure upto floor five level including cost of all materials as required complete:-		
6.15.1	In cement mortar 1:3 (1 cement : 3 fine sand).	Sqm.	₹ 558.70
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).	Sqm.	₹ 508.80
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.	Sqm.	₹ 23.70
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).	Cum.	₹ 617.90
6.18.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Cum.	₹ 536.60
6.18.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Cum.	₹ 472.20

Code No.	Description	Unit	Rate
6.18.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Cum.	₹ 437.50
6.18.5	In cement mortar 1:6 (1 cement : 6 fine sand).	Cum.	₹ 407.80
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).	Sqm.	₹ 201.30
6.19.2	In cement mortar 1:3 (1 cement : 3 fine sand).	Sqm.	₹ 176.90
6.19.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Sqm.	₹ 157.60
6.19.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Sqm.	₹ 147.20
6.19.5	In cement mortar 1:6 (1 cement : 6 fine sand).	Sqm.	₹ 138.30
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).	Sqm.	₹ 177.00
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.	per Cum. /Mtr.	₹ 409.80
	<i>Note:- The quantity will be calculated by multiplying the depth of the bottom of brick masonry below sub-soil water level with quantity of brick masonry in Cum. for the same depth. In case of varying depth (of bottom of concrete) respective depth shall be multiplied with corresponding quantities of brick masonry.</i>		
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 3 ties per sqm as per approved design & as required complete.	Sqm.	₹ 105.50

Code No.	Description	Unit	Rate
	<p><i>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).</i></p>		
6.23	<p>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.</p>	Mtr.	₹ 265.60
6.24	<p>Honey comb brick masonry work of half brick thickness with first class bricks in superstructure for all level including cost of all materials as required complete:-</p>		
6.24.1	<p>In cement mortar 1:2 (1 cement : 2 fine sand).</p>	Sqm.	₹ 596.20
6.24.2	<p>In cement mortar 1:3 (1 cement : 3 fine sand).</p>	Sqm.	₹ 573.10
6.24.3	<p>In cement mortar 1:4 (1 cement : 4 fine sand).</p>	Sqm.	₹ 554.80
6.24.4	<p>In cement mortar 1:5 (1 cement : 5 fine sand).</p>	Sqm.	₹ 544.90
6.25	<p>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:-</p>		
6.25.1	<p>In cement mortar 1:2 (1 cement : 2 fine sand).</p>	Mtr. / Cm.	₹ 8.70
6.25.2	<p>In cement mortar 1:3 (1 cement : 3 fine sand).</p>	Mtr. / Cm.	₹ 8.40

Code No.	Description	Unit	Rate
6.25.3	In cement mortar 1:4 (1 cement : 4 fine sand).	Mtr. / Cm.	₹ 8.20
6.25.4	In cement mortar 1:5 (1 cement : 5 fine sand).	Mtr. / Cm.	₹ 8.10
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.	Sqm.	₹ 1,272.60
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.	Sqm.	₹ 83.30
6.28	Providing and laying precast cement concrete solid blocks (Grey brick: conforming to IS 2185) masonry 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	Cum	₹ 7,540.00

SUB-HEAD - 7



MARBLE & GRANITE WORK

**SUB HEAD : 7.0/ MARBLE & GRANITE WORK
BASIC RATES**

Code No.	Description	Unit	Rate
0120	Machine for rubbing of floors	Day	₹ 380.00
0105	Hand Grinder for mirror polish	Day	₹ 285.00
0201	Bandhani	Day	₹ 300.00
0205	Bhisti	Day	₹ 300.00
0206	Blacksmith 1st class	Day	₹ 425.00
0203	Beldar	Day	₹ 300.00
0212	Coolie	Day	₹ 300.00
0215	Fitter (grade 1)	Day	₹ 380.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0222	Mason (for plain stone work) 2nd class	Day	₹ 380.00
0221	Mason (for ornamental stone work) 1st class	Day	₹ 425.00
0224	Mate	Day	₹ 300.00
0234	Skilled Belder (for floor rubbing etc.)	Day	₹ 380.00
03001	Portland Cement	tonne	₹ 6,100.00
05017	Bolts and nuts upto 300 mm in length	qtl	₹ 5,200.00
07001	8 mm thick granite stone tiles (mirror polished of all shades)	Sqm	₹ 825.00
10002	8 mm thick marble tiles (polished) Raj Nagar	Sqm	₹ 435.00
07008	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	Sqm	₹ 1,950.00
07009	Table rubbed polished stone 18mm thick (75x50cm) Granite stone - 18mm thick	Sqm	₹ 1,950.00
07004	Gun metal cramp	kg	₹ 350.00
07007	Stainless steel cramp	kg	₹ 330.00
07011	Wedge expansion hold fastener 1/4" or 6 mm	Each	₹ 14.00
07012	Wedge expansion hold fastener 3/8" or 10 mm	Each	₹ 16.00

Code No.	Description	Unit	Rate
07010	Wedge expansion hold fastener 1/2" or 12 mm	Each	₹ 31.00
07006	Raj nagar plain white marble (table rubbed and polished) 18 mm thick upto 0.50 sqm	Sqm	₹ 850.00
07005	Raj nagar plain white marble (table rubbed and polished) 18 mm thick above 0.50 sqm	Sqm	₹ 950.00
07003	Granite of any colour, 18 mm thick slab, upto 0.50 sqm (areawise)	Sqm	₹ 2,000.00
07002	Granite of any colour, 18 mm thick slab, above 0.50 sqm (areawise)	Sqm	₹ 2,050.00
07013	Raj nagar plain white marble (table rubbed and polished) 14 mm thick upto 0.50 sqm	Sqm	₹ 600.00
07014	Raj nagar plain white marble (table rubbed and polished) 14 mm thick above 0.50 sqm	Sqm	₹ 700.00
07015	Granite of any colour, 14 mm thick slab, upto 0.50 sqm (areawise)	Sqm	₹ 1,700.00
07016	Granite of any colour, 14 mm thick slab, above 0.50 sqm (areawise)	Sqm	₹ 1,750.00
07017	Table rubbed polished stone 14 mm thick (75x50cm) Agaria Marble stone - 14 mm thick	Sqm	₹ 1,550.00
07018	Table rubbed polished stone 14mm thick (75x50cm) Granite stone - 14mm thick	Sqm	₹ 1,550.00
07019	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm)	Sqm	₹ 3,450.00
07020	18 mm thick Flamed finish granite stone slab	Sqm	₹ 1,950.00
0468	Carriage: Steel	Tonne	₹ 110.94
0421	Carriage: Cement	Tonne	₹ 110.94
0454	Carriage: Stone blocks white & red sand stone & kota stone slab, marble	Tonne	₹ 110.94

SUB HEAD : 7.0

MARBLE & GRANITE WORK*Note:*

- 1 *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 .*
- 2 *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.*

Code No.	Description	Unit	Rate
7.1	Marble work gang saw cut (polished and machine cut) of approved thickness for wall lining (vener work), backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 fine sand) including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade: (to be secured to the backing by means of cramps, which shall be paid for separately), including rubbing, curing etc. complete at all levels as required:-		
7.1.1	18 mm thick Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble or equivalent duly approved:-		
7.1.1.1	Area of slab upto 0.50 sqm.	Sqm.	₹ 2,924.30
7.1.1.2	Area of slab over 0.50 sqm.	Sqm.	₹ 3,061.00
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.	Sqm.	₹ 2,563.70
7.1.2.2	Area of slab over 0.50 sqm.	Sqm.	₹ 2,702.20
7.2	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:-		

Code No.	Description	Unit	Rate
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.	Sqm.	₹ 1,950.90
7.2.1.2	Area of slab over 0.50 sqm.	Sqm.	₹ 1,882.50
7.2.2	14 mm thick Rajnagar Plain white marble/ Udaipur green marble/ Zebra black marble or equivalent duly approved:-		
7.2.2.1	Area of slab upto 0.50 sqm.	Sqm.	₹ 1,635.30
7.2.2.2	Area of slab over 0.50 sqm.	Sqm.	₹ 1,566.90
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.	Sqm.	₹ 3,402.70
7.2.3.2	Area of slab over 0.50 sqm.	Sqm.	₹ 3,271.10
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.	Sqm.	₹ 3,023.90
7.2.4.2	Area of slab over 0.50 sqm.	Sqm.	₹ 2,892.40
7.3	Providing edge moulding to approved thickness marble stone counters, vanities etc. including machine polishing to edge to give high gloss finish etc. complete at all levels as required as per design approved by the Engineer-in-charge:-		
7.3.1	18 mm Marble work.	Mtr.	₹ 142.10
7.3.2	14 mm Marble work.	Mtr.	₹ 99.00
7.3.3	18 mm thick Granite work.	Mtr.	₹ 243.70
7.3.4	14 mm thick Granite work.	Mtr.	₹ 208.10
7.4	Extra for fixing marble / granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. at all levels as required.	Mtr.	₹ 243.20
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.	Sqm.	₹ 199.50

Code No.	Description	Unit	Rate
7.6	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete	Each	₹ 348.70
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.	kg	₹ 536.70
7.7.2	Stainless steel cramps.	kg	₹ 508.00
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.	Each	₹ 25.60
7.8.1.2	Fastener with threaded dia 10 mm.	Each	₹ 28.40
7.8.1.3	Fastener with threaded dia 12 mm.	Each	₹ 46.90
7.9	Stone tile (polished) work for wall lining over 12mm thick bed of cement mortar 1:3 (1 cement : 3 fine sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete including rubbing, curing 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 black marble or equivalent duly approved.	Sqm.	₹ 1,568.40
7.9.1.2	Granite of any colour and shade duly approved .	Sqm.	₹ 2,049.00

Code No.	Description	Unit	Rate
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):-		
7.10.1	White Agaria Marble Stone of approved shade of 18 mm thick (75 x 50 cm).	Sqm.	₹ 3,067.80
7.10.2	White Agaria Marble Stone of approved shade of 14 mm thick (75 x 50 cm).	Sqm.	₹ 2,461.80
7.10.3	Granite of any colour and shade duly approved of 18 mm thick (75 x 50 cm).	Sqm.	₹ 3,067.80
7.10.4	Granite of any colour and shade duly approved of 14 mm thick (75 x 50 cm).	Sqm.	₹ 2,461.80
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.	Sqm.	₹ 7,887.10
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.		

Code No.	Description	Unit	Rate	
7.12.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm.	₹	3,233.80
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 stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm.	₹	3,303.90

SUB-HEAD - 8



WOOD & P V C WORK

**SUB HEAD : 8.0 / WOOD WORK & PVC WORK
BASIC RATES**

Code No.	Description	Unit	Rate
0201	Bandhani	Day	₹ 300.00
0206	Blacksmith 1st class	Day	₹ 425.00
0207	Blacksmith 2nd class	Day	₹ 380.00
0209	Carpenter 1st class	Day	₹ 425.00
0210	Carpenter 2nd class	Day	₹ 380.00
0203	Beldar	Day	₹ 300.00
0217	Glazier	Day	₹ 380.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0225	Mistry	Day	₹ 380.00
0227	Painter	Day	₹ 340.00
0208	Carpenter (average)	Day	₹ 400.00
	CARRIAGE		
0473	Timber	cum	₹ 80.65
0468	Steel	tonne	₹ 110.94
	MATERIALS		
08001	Non - Asbestos multi purpose fibre cement board 8mm thick.	sqm	₹ 313.00
08002	Flat pressed 3 layer particle board (medium density) Grade I :12 mm thick	sqm	₹ 364.00
08003	Extra for veneered particle board with : Teak veneering on one side and commercial veneered on other side	sqm	₹ 292.00
08004	Extra for veneered particle board with : Commercial veneering on both sides	sqm	₹ 185.00
08005	Extra for veneered particle board with : Teak veneering on both sides	sqm	₹ 520.00
08006	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	₹ 870.00
08007	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	₹ 725.00
08008	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	₹ 455.00
08009	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	₹ 208.00
08010	Brass butt hinges (heavy type) : 125x85x5.5 mm(.70)kg	10 Nos	₹ 3,368.00
08011	Brass butt hinges (heavy type) : 100x85x5.5 mm(.56)kg	10 Nos	₹ 2,885.00
08012	Brass butt hinges (heavy type) :75x65x4.0 mm(.20)kg	10 Nos	₹ 1,045.00

Code No.	Description	Unit	Rate
08013	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	₹ 3,010.00
08014	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	₹ 2,685.00
08015	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	₹ 2,475.00
08016	Brass parliamentary hinges 75x100x20x3.2 mm	10 Nos	₹ 1,845.00
08017	Brass tower bolt (barrel type) 250x10 mm	each	₹ 245.00
08018	Brass tower bolt (barrel type) 200x10 mm	each	₹ 195.00
08019	Brass tower bolt (barrel type) 150x10 mm	each	₹ 155.00
08020	Brass tower bolt (barrel type) 100x10 mm	each	₹ 102.00
08021	Brass handles 125 mm with plate 175x32 mm	each	₹ 155.00
08022	Brass handles 100 mm with plate 150x32 mm	each	₹ 143.00
08023	Brass handles 75 mm with plate 125x32 mm	each	₹ 115.00
08024	Brass door latch 300x16x5 mm (0.380 kg)	each	₹ 187.00
08025	Brass door latch 250x16x5 mm (0.350 kg)	each	₹ 178.00
08026	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of lever handles	each	₹ 400.00
08027	Brass mortice latch 100x65mm with a pair of brass lever handles	each	₹ 345.00
08028	Brass casement window fastener	Each	₹ 63.00
08029	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	₹ 148.00
08030	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	Each	₹ 125.00
08031	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	₹ 115.00
08032	Brass hasps and staples (safety type) 300 mm	10 Nos	₹ 808.00
08033	Brass hasps and staples (safety type) 115 mm	10 Nos	₹ 678.00
08034	Brass hasps and staples (safety type) 90 mm	10 Nos	₹ 575.00
08035	Brass Night latch	each	₹ 504.00
08036	Brass cupboard knob or ward robe knob 50 mm	each	₹ 40.00
08037	Brass screws 50 mm	100 Nos	₹ 230.00
08038	Brass screws 40 mm	100 Nos	₹ 175.00
08039	Brass screws 30 mm	100 Nos	₹ 145.00
08040	Brass screws 25 mm	100 Nos	₹ 105.00
08041	Brass screws 20 mm	100 Nos	₹ 102.00
08042	Chromium plated Brass handles 125 mm with plate 175 x32 mm	Each	₹ 208.00

Code No.	Description	Unit	Rate
08043	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	Each	₹ 180.00
08044	Chromium plated Brass handles 75mm with plate 125x32 mm	Each	₹ 155.00
08045	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	₹ 609.00
08046	Chromium plated brass casement window fastener	each	₹ 102.00
08047	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	₹ 174.00
08048	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	₹ 145.00
08049	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	₹ 130.00
08050	Chromium plated Brass Night latch	each	₹ 558.00
08051	Chromium plated Brass Wardrobe Knob 50 mm	each	₹ 52.00
08052	Chromium plated Brass screws 50 mm	100 Nos	₹ 256.00
08053	Chromium plated Brass screws 40 mm	100 Nos	₹ 228.00
08054	Chromium plated Brass screws 30 mm	100 Nos	₹ 167.00
08055	Chromium plated Brass screws 25 mm	100 Nos	₹ 130.00
08056	Chromium plated Brass screws 20 mm	100 Nos	₹ 108.00
08057	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	₹ 210.00
08058	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	₹ 270.00
08059	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	₹ 380.00
08060	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 Nos	₹ 155.00
08061	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	₹ 100.00
08062	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 Nos	₹ 75.00
08063	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	₹ 75.00
08064	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	₹ 50.00
08065	Bright finished or black enameled mild steel screws 50 mm	100 Nos	₹ 75.00
08066	Bright finished or black enameled mild steel screws 40 mm	100 Nos	₹ 60.00
08067	Bright finished or black enameled mild steel screws 30 mm	100 Nos	₹ 50.00

Code No.	Description	Unit	Rate
08068	Bright finished or black enameled mild steel screws 25 mm	100 Nos	₹ 45.00
08069	Bright finished or black enameled mild steel screws 20 mm	100 Nos	₹ 35.00
08070	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	₹ 10.00
08071	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	₹ 162.00
08072	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	₹ 100.00
08073	Oxidised mild steel butt hinges 75x47x1.70 mm	10 Nos	₹ 75.00
08074	Oxidised mild steel butt hinges 50x37x1.50 mm	10 Nos	₹ 68.00
08075	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	₹ 365.00
08076	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	₹ 335.00
08077	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	₹ 250.00
08078	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	₹ 230.00
08079	Oxidised mild steel single acting spring hinges 150 mm	each	₹ 128.00
08080	Oxidised mild steel single acting spring hinges 125 mm	each	₹ 118.00
08081	Oxidised mild steel single acting spring hinges 100 mm	each	₹ 98.00
08082	Oxidised mild steel double acting spring hinges 150 mm	each	₹ 125.00
08083	Oxidised mild steel double acting spring hinges 125 mm	each	₹ 130.00
08084	Oxidised mild steel double acting spring hinges 100 mm	each	₹ 105.00
08085	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	₹ 62.00
08086	Oxidised mild steel sliding door bolt 300x16 mm	each	₹ 105.00
08087	Oxidised mild steel sliding door bolt 250x16 mm	each	₹ 105.00
08088	Oxidised mild steel door latch 300x20x6 mm	each	₹ 60.00
08089	Oxidised mild steel door latch 250x20x6 mm	each	₹ 48.00
08090	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	₹ 52.00
08091	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	₹ 45.00
08092	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	₹ 40.00
08093	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	₹ 34.00

Code No.	Description	Unit	Rate
08094	Oxidised mild steel handles 125 mm	each	₹ 20.00
08095	Oxidised mild steel handles 100 mm	each	₹ 15.00
08096	Oxidised mild steel handles 75 mm	each	₹ 12.00
08097	Oxidised mild steel hasps and staples(safety type) 150 mm	10 Nos	₹ 140.00
08098	Oxidised mild steel hasps and staples(safety type) 115 mm	10 Nos	₹ 120.00
08099	Oxidised mild steel hasps and staples(safety type) 90 mm	10 Nos	₹ 90.00
08100	Oxidised mild steel screws 50 mm	100 Nos	₹ 88.00
08101	Oxidised mild steel screws 40 mm	100 Nos	₹ 75.00
08102	Oxidised mild steel screws 30 mm	100 Nos	₹ 56.00
08103	Oxidised mild steel screws 25 mm	100 Nos	₹ 56.00
08104	Oxidised mild steel screws 20 mm	100 Nos	₹ 45.00
08105	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	₹ 645.00
08106	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	₹ 580.00
08107	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	₹ 630.00
08108	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	₹ 510.00
08109	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	₹ 530.00
08110	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	₹ 450.00
08111	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	₹ 300.00
08112	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	₹ 230.00
08113	Anodised Aluminium sliding door bolt 300x16 mm	each	₹ 180.00
08114	Anodised Aluminium sliding door bolt 250x16 mm	each	₹ 145.00
08115	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos	₹ 730.00
08116	Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 Nos	₹ 530.00
08117	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	₹ 470.00
08118	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos	₹ 420.00
08119	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	₹ 310.00
08120	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	₹ 400.00
08121	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	₹ 280.00
08122	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	₹ 230.00

Code No.	Description	Unit	Rate
08123	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	₹ 140.00
08124	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	₹ 1,700.00
08125	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	₹ 1,600.00
08126	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	₹ 1,500.00
08127	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	₹ 1,050.00
08128	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	₹ 950.00
08129	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	₹ 880.00
08130	Block board construction flush door lipping	sqm of door area	₹ 324.00
08131	Square vision panel in Block board construction flush door	sqm of door area	₹ 135.00
08132	Circular vision panel in Block board construction flush door	Sqm of door area	₹ 210.00
08133	Decorative type Louvers in Block board construction flush door	sqm of door area	₹ 335.00
08134	Rebate cutting in Block board construction flush door	sqm of door area	₹ 98.00
08135	Decorative plywood 4 mm	sqm	₹ 400.00
08136	Glue	kilogram	₹ 135.00
08137	Synthetic enamel paint in all shades except black or chocolate shade	litre	₹ 180.00
12031	Plaster of Paris	kilogram	₹ 6.50
08139	Mild steel round bar above 12 mm dia	quintal	₹ 4,010.00
05026	Flats up to 10 mm in thickness	quintal	₹ 3,992.00
05034	Mild steel expanded metal 20x60 mm strands	sqm	₹ 314.00
05032	Hard drawn steel wire fabric	sqm	₹ 535.00
08143	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	₹ 15.00
08144	Sal wood scantling / plank	10 cudm	₹ 480.00
08145	G.I. plain washer for seam bolts	100 Nos	₹ 40.00
08146	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	₹ 360.00
08147	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm).	sqm	₹ 535.00

Code No.	Description	Unit	Rate
08148	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	₹ 455.00
08149	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	₹ 60.00
08150	Brass cupboard lock 6 levers (best make of approved quality) 40 mm size	each	₹ 75.00
08151	Brass cupboard lock 6 levers (best make of approved quality) 50 mm size	each	₹ 85.00
08152	Brass cupboard lock 6 levers (best make of approved quality) 65 mm size	each	₹ 90.00
08153	Brass cupboard lock 6 levers (best make of approved quality) 75 mm size	each	₹ 110.00
08154	Brass hanging type door stopper 150 mm	each	₹ 78.00
08155	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	₹ 625.00
08156	Anodised Aluminium hanging type door stopper	each	₹ 25.00
08157	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mmx42 mm with screws, bolts ,nuts and washers complete	each	₹ 60.00
08158	Anodised Aluminium Casement stay 250 mm	each	₹ 35.00
08159	Nickeled Chromium Brass cupboard lock 40 mm size	each	₹ 75.00
08160	Nickeled Chromium Brass cupboard lock 50 mm size	each	₹ 85.00
08161	Nickeled Chromium Brass cupboard lock 65 mm size	each	₹ 98.00
08162	Nickeled Chromium Brass cupboard lock 75 mm size	each	₹ 125.00
08163	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	₹ 920.00
08164	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	₹ 722.00
08165	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	₹ 825.00
08166	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	₹ 295.00
08167	Pair of Anodised Aluminium lever handles for 100mm mortice latch and lock	each	₹ 350.00
08168	Joint tape roll	roll	₹ 145.00
08169	Dash fastener/ Chemical fastener	each	₹ 30.00
08170	All drive screws (for gypsum board)	100 Nos	
08171	Primer (for gypsum board)	litre	₹ 95.00
08172	Chromium plated brackets (curtain rods)	each	₹ 10.00

Code No.	Description	Unit	Rate
08173	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	₹ 275.00
08174	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	₹ 400.00
08175	Nickel plated M.S. pipe 20 mm dia.	metre	₹ 100.00
08176	Nickel plated M.S. Brackets for curtain rod 20 mm	each	₹ 10.00
08177	Nickel plated M.S. Brackets for curtain rod 25 mm	each	₹ 10.00
08178	Oxidised mild steel screws 35 mm	100 Nos	₹ 55.00
08179	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia.	metre	₹ 65.00
08180	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia.	metre	₹ 75.00
08181	Teak wood lipping of size 25x3 mm in pelmets	metre	₹ 35.00
08182	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	₹ 455.00
08183	Aluminium tee channel (heavy duty) with rollers and stop end	metre	₹ 62.00
08184	Aluminium hanging floor door stopper with twin rubber & stopper	each	₹ 40.00
08185	Hydraulic door closer tubular type Aluminium section body	each	₹ 865.00
08186	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	₹ 34.00
08187	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	₹ 30.00
08188	Oxidised M.S.casement stay (straight peg type) 200 mm not less than 0.24 kg	each	₹ 25.00
08189	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	₹ 1,850.00
08190	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick both sides prelaminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	₹ 2,050.00

Code No.	Description	Unit	Rate
08191	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	₹ 2,000.00
08192	Factory made 30 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of sheet glass using 10 kg/sqm glass panes	sqm	₹ 1,700.00
08193	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm on both directions with wire of dia 0.63 mm	sqm	₹ 1,700.00
08194	Factory made 30 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm on both directions with wire of dia 0.63 mm	sqm	₹ 1,500.00
08195	Laminated veneer lumber confirming to TADSS IS:1995 manufactured in factory in frames of doors, windows	10 cudm	₹ 730.00
08196	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	₹ 62.00
08197	25 mm thick particle board	sqm	₹ 490.00
08198	IIInd class teak wood lipping 25 mm wide x 12 mm thick	metre	₹ 55.00
08199	25 mm thick melamine faced prelaminated three layer particle board	sqm	₹ 850.00
08200	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	₹ 375.00
08201	Expandable fastener with plastic sleeve and M.S. screws. 25 mm long	each	₹ 12.00
08202	Expandable fastener with plastic sleeve and M.S. screws. 32 mm long	each	₹ 14.00
08203	Expandable fastener with plastic sleeve and M.S. screws. 40 mm long	each	₹ 16.00
08204	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	₹ 20.00
08205	12 mm M.S. 'U' beading	metre	₹ 20.00
08206	Glass reinforced Gyp sum (GRG) board 8.5 mm thick	sqm	₹ 270.00
08207	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	₹ 85.00

Code No.	Description	Unit	Rate
08208	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm	metre	₹ 95.00
08209	Aluminium single cleat of size 30x32x3	each	₹ 20.00
08210	Aluminium grip strip of size 50x12x2	each	₹ 15.00
08211	25 mm prelaminated flush door both side decorative	sqm	₹ 880.00
08212	Aluminium U beading	kilogram	₹ 250.00
08213	Glass sheet (Pin headed) 4 mm thick	sqm	₹ 345.00
08214	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	₹ 525.00
08215	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)12 mm thick	sqm	₹ 785.00
08216	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)18 mm thick	sqm	₹ 890.00
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	₹ 960.00
08218	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)12 mm thick	sqm	₹ 815.00
08219	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	₹ 60.00
08220	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	₹ 45.00
08221	PTMT handle 125x34x24mm	Each	₹ 28.00
08222	PTMT handle 150x34x24mm	Each	₹ 32.00
08223	PTMT butt hinges 75x60x10mm	Each	₹ 40.00
08224	PTMT butt hinges 100x75x10mm	Each	₹ 56.00
08225	PTMT Tower bolt 152x42x18mm	Each	₹ 65.00
08226	PTMT Tower bolt 202x42x18mm	Each	₹ 80.00
08227	PTMT door catcher 72x42mm	Each	₹ 27.00
08228	Coir veneered board 4mm thick	sqm	₹ 315.00
08229	Coir veneered board 6mm thick	sqm	₹ 420.00

Code No.	Description	Unit	Rate
08230	Coir veneered board 18mm thick	sqm	₹ 1,105.00
08231	24 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	₹ 1,400.00
08232	30 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	₹ 1,520.00
08233	Factory made PVC rigid foam paneled shutter i/c carriage	sqm	₹ 2,275.00
08234	Factory made PVC rigid foam paneled shutter as per IS : 4020 i/c carriage	sqm	₹ 2,685.00
08235	Factory made PVC rigid foam sheet 1mm thick	sqm	₹ 210.00
08236	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	₹ 185.00
08237	Factory made door frame PVC extruded sheet i/c carriage	metre	₹ 350.00
08238	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	₹ 100.00
08239	Stainless steel screws 50 mm	100 Nos	₹ 275.00
08240	Stainless steel screws 40 mm	100 Nos	₹ 215.00
08241	Stainless steel screws 30 mm	100 Nos	₹ 150.00
08242	Stainless steel screws 20 mm	100 Nos	₹ 120.00
08243	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	₹ 360.00
08244	Stainless steel butt hinges 100x58x1.9 mm IS : 12817 marked	10 Nos	₹ 250.00
08245	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	₹ 200.00
08246	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	₹ 150.00
08247	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	₹ 400.00
08248	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	₹ 270.00
08249	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	₹ 230.00
08250	M.S. heavy weight but hinges 125x90x4.0mm IS : 1341 marked.	10 Nos	₹ 360.00
08251	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos.	₹ 200.00
08252	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 Nos	₹ 110.00
08253	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	₹ 95.00
08254	1mm thick 35mm wide bright finished stainless steel piano hinges .	metre	₹ 55.00
08255	8 mm thick tapered edge calcium silicate board .	sqm	₹ 275.00

Code No.	Description	Unit	Rate
08256	10 mm thick calcium silicate board.	sqm	₹ 430.00
08257	Telescopic drawer channels 300mm long .	set	₹ 165.00
08258	Stainless steel roller for sliding arrangement in racks/ cupboards/cabinets shutter .	each	₹ 12.00
08259	50mmX42mmX2mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	₹ 175.00
08260	25mm thick factory made PVC flush door shutter i/c carriage.	sqm	₹ 1,700.00
08261	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage.	metre	₹ 340.00
08262	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage.	sqm	₹ 1,680.00
08263	Factory made solid PVC door frame 60 x 30mm i/c carriage.	metre	₹ 315.00
08264	28mm factory made solid PVC panel door shutter i/c carriage.	sqm	₹ 2,000.00
08265	Fiber glass reinforced plastic chajja.	sqm	₹ 3,500.00
08266	Magnetic catcher triple strip vertical type.	each	₹ 25.00
08267	Magnetic catcher double strip horizontal type.	each	₹ 20.00
08268	100 mm mortice lock with 6 levers for aluminium door.	each	₹ 365.00
08269	12.5 mm thick Glass fibre reinforced Gypsum board .	sqm	₹ 215.00
08270	Ceiling sections 0.55 mm thick having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55mm.	metre	₹ 60.00
08271	Perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm.	metre	₹ 35.00
08272	Nylon sleeves & wooden screws (40mm)	each	₹ 5.00
08273	Counter sunk ribbed head screw 25mm.	cent	₹ 85.00
08274	12mm thick marine plywood conforming to IS:710	sqm	₹ 730.00
08275	12mm thick fire retardant plywood conforming to IS: 5509.	sqm	₹ 840.00
08276	1.5mm thick decorative laminated sheet	sqm	₹ 550.00
08277	1.0mm thick decorative laminated sheet	sqm	₹ 360.00
08278	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage.	sqm	₹ 2,000.00
08279	Karai Wood scantlings	10 cudm	₹ 208.00
08280	Local Teak Wood- scantling	10 cudm	₹ 257.00

Code No.	Description	Unit	Rate
08281	Other Wood(Jam, Garjan, Chamal)	10 cudm	₹ 194.00
08282	Soft Wood	10 cudm	₹ 163.00
08283	Gamair Wood	10 cudm	₹ 350.00
08284	Ply wood 7 ply with teak ply on both faces 9 mm thick	Sqm	₹ 700.00
08285	Extra for selected planks of Gamair wood	10 cudm	₹ 50.00
08286	Gamair wood lipping/ moulded beading or Taj beading of size 18 X 5 mm	metre	₹ 15.00
08287	35 mm thick HDF, BWP type Shutter as per IS : 15380 - 2003 & IS : 848	Sqm	₹ 1,720.00
08288	Sal wood - beam	10 cudm	₹ 450.00
08289	Karai wood- beams	10 cudm	₹ 380.00
08290	Local Teak Wood - Planks	10 cudm	₹ 350.00
05050	Rawl plug 50 mm (designation 10 no.)	each	₹ 7.00
08302	Pre-laminated with decorative lamination on both side exterior Grade-I MDF Board 12 mm thick confirming to IS:14587	Sqm	₹ 460.00
08303	Pre-laminated with decorative lamination on both side exterior Grade-I MDF Board 18 mm thick confirming to IS:14587	Sqm	₹ 597.00
08304	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	₹ 900.00
08305	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 12 mm thick confirming to IS:14587		₹ 450.00
08306	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 18 mm thick confirming to IS:14587		₹ 580.00
08307	PVC edge bending tape 2.00 mm thick	metre	₹ 30.00
08308	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	₹ 40.00
08309	Bright finished or black enameled mild steel screws 25 mm	100	₹ 37.00
08310	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	₹ 40.00
08291	Bamboo wood shutter for doors	cum	₹ 1,80,000.00
08292	Bamboo wood Panelling	cum	₹ 1,80,000.00
08293	15 mm thick, light weight,fully perforated square/butt edge integral densified,false ceiling tiles of size 595x595 mm.	sqm	₹ 980.00
08294	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	₹ 69.00

Code No.	Description	Unit	Rate
08295	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	₹ 87.00
08296	Self tapping pan head nickle coated mild steel screws of size 13 x 3.2 mm	1000 Nos.	₹ 645.00
08297	12 mm dia 50 mm long wedge type expanded zinc alloy dash fastner	each	₹ 10.00
08298	Glass wool 50 mm thick	sqm	₹ 280.00
08299	Calcium silicate base compound for jointing calcium silicate tiles	kilogram	₹ 30.00
08300	Fibre joint tape 50 mm wide (90 metre) roll	each roll	₹ 200.00
08301	Calcium silicate base compound for jointing calcium silicate tiles	kilogram	₹ 32.00

SUB HEAD : 8.0
WOOD & PVC WORK

Code No.	Description	Unit	Rate
8.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position :		
8.1.1	Sal Wood	Cum	₹ 67,196.70
8.1.2	Karai wood	Cum	₹ 58,356.90
8.1.3	Local Teak Wood	Cum	₹ 54,568.30
8.2	Extra for additional labour for circular works, such as in frames of fan light:		
8.2.1	Sal Wood	Cum	₹ 6,719.70
8.2.2	Karai wood	Cum	₹ 5,835.80
8.2.3	Local Teak Wood	Cum	₹ 5,456.90
8.3	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.	Cum	₹ 99,630.80
8.4	Providing wood work in frames of false ceiling, partitions etc. sawn and put up in position :		
8.4.1	Sal wood	Cum	₹ 61,811.60
8.4.2	Karai Wood	Cum	₹ 53,013.10
8.4.3	Local Teak Wood	Cum	₹ 49,242.30
8.4.4	Other Wood (Jam, Garjan, Chamal)	Cum	₹ 29,634.50
8.4.5	Soft Wood	Cum	₹ 25,738.00
8.5	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	Sqm	₹ 1,319.00
8.5.1.2	30 mm thick shutters	Sqm	₹ 1,219.00
8.5.2	Gamair Wood		
8.5.2.1	35 mm thick shutters	Sqm	₹ 1,581.70
8.5.2.2	30 mm thick shutters	Sqm	₹ 1,445.70

Code No.	Description	Unit	Rate
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.		
8.6.1	Local Teak Wood 16 mm thick	Sqm	₹ 1,026.40
8.6.2	Gamair Wood 16 mm Thick	Sqm	₹ 1,240.60
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.	Sqm	₹ 1,747.80
8.6.3.2	Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type.	Sqm	₹ 1,464.90
8.6.4	Ply wood 7 ply, 9 mm thick :		
8.6.4.1	Decorative plywood both side decorative veneer (Type - 1) conforming to IS 1328 BWR type.	Sqm	₹ 1,433.50
8.6.4.2	Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type.	Sqm	₹ 1,612.10
8.6.5	Particle Board 12 mm thick		
8.6.5.1	Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, IS : 3087 marked.	Sqm	₹ 953.90
8.6.5.2	Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS:3097, grade I.	Sqm	₹ 1,183.90
8.6.5.3	Prelaminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II IS: 12823 marked.	Sqm	₹ 1,555.30
8.6.5.4	Prelaminated particle board with decorative lamination on both sides, Grade I, Type II, IS: 12823 marked.	Sqm	₹ 1,598.10
8.7	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass (weight not less than 10ks/Sqm) panes including black enamelled ISI marked MS butt hinges with necessary screws.		
8.7.1	Local Teak wood		
8.7.1.1	35 mm thick	Sqm	₹ 1,722.20
8.7.1.2	30 mm thick	Sqm	₹ 1,608.00
8.7.2	Gamair Wood		
8.7.2.1	35 mm thick	Sqm	₹ 2,021.00
8.7.2.2	30 mm thick	Sqm	₹ 1,865.50

Code No.	Description	Unit	Rate
8.8	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	Sqm	₹ 2,285.30
8.9	Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, window and clerestory window shutters (Area of opening of glass panes excluding portion inside rebate shall be measured)		
8.9.1	5.5mm thick instead of 4mm thick.	Sqm	₹ 209.40
8.10	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).	Sqm	₹ 47.90
8.11	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).	Sqm	₹ 17.90
8.12	Extra for providing ISI marked Stainless Steel butt hinges instead of black enamelled M.S. butt hinges with necessary screws. (Shutter area to be measured).	Sqm	₹ 109.80
8.13	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:		
8.13.1	12mm thick plain grade - 1, medium density flat pressed three layer particle board FPT - I or graded wood particle board FPT - I, IS : 3087 marked bonded with BWP type synthetic resin adhesive as per IS : 848 :	Sqm	₹ 2,465.20
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:	Sqm	₹ 2,704.50

Code No.	Description	Unit	Rate
8.13.3	12 mm thick one side prelaminate (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 :	Sqm	₹ 2,644.70
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.	Sqm	₹ 1,636.40
8.14.1	Glazed shutters:		
8.14.1.2	Local teak wood including ISI marked anodised aluminium butt hinge with necessary screws.	Sqm	₹ 1,477.60
8.15	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (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	Sqm	₹ 568.20
8.15.2	18 mm thick	Sqm	₹ 683.10
8.16	Providing and fixing prelaminate 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 polyurethane primer (fittings to be paid separately).		
8.16.1	18mm thick	Sqm	₹ 1,239.00
8.16.2	25 mm thick	Sqm	₹ 1,327.70
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	Sqm	₹ 1,710.40
8.17.1	Glazed shutters		
8.17.1.2	Gamair Wood	Sqm	₹ 1,729.50

Code No.	Description	Unit	Rate
8.18	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.		
8.18.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	₹ 2,390.70
8.18.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	₹ 2,270.60
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.	Sqm	₹ 2,156.50
8.19	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 veneers on both faces of shutters.		
8.19.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	₹ 1,613.10
8.19.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	₹ 1,493.00
8.19.3	25mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.	Sqm	₹ 1,414.80
8.20	Extra for Providing and fixing flush doors with decorative veneering		
8.20.1	On one side in item no. 8.19	Sqm	₹ 448.60
8.21	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.	Sqm	₹ 387.60
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.	Sqm	₹ 161.50
8.22.2	Circular.	Sqm	₹ 251.20
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.	Sqm	₹ 400.80
8.24	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	Sqm	₹ 117.20

Code No.	Description	Unit	Rate
8.25	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	Sqm	₹ 1,964.50
8.25.2	Local Teak Wood	Sqm	₹ 1,699.70
8.26	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	Sqm	₹ 2,074.30
8.26.2	Local Teak Wood	Sqm	₹ 1,809.50
8.27	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	Sqm	₹ 1,828.80
8.27.2	Local Teak Wood	Sqm	₹ 1,602.20
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.		
8.28.1	Gamair Wood	Sqm	₹ 1,766.80
8.28.2	Local Teak Wood	Sqm	₹ 1,540.10
8.29	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 enamelled M.S. butt hinges with necessary screws as per directions of Engineer-in-charge.		
8.29.1	35 mm thick shutters	Sqm	₹ 2,285.80
8.29.2	30 mm thick shutters	Sqm	₹ 2,046.00

Code No.	Description	Unit	Rate
8.30	Providing 50 × 50 × 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.	No	₹ 15.50
8.31	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	No	₹ 21.50
8.31.2	32 mm long	No	₹ 25.40
8.31.3	40 mm long	No	₹ 27.80
8.31.4	50 mm long	No	₹ 32.50
8.32	Providing and fixing Gamair Wood plain lining tongued and grooved on and including wooden plugs complete with necessary screws and priming coat on unexposed surface.		
8.32.1	40 mm thick.	Sqm	₹ 2,394.40
8.32.2	25 mm thick.	Sqm	₹ 1,603.20
8.32.3	20 mm thick	Sqm	₹ 1,272.60
8.32.4	12 mm thick	Sqm	₹ 880.10
8.33	Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood prelaminate 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.		
8.33.1	12 mm thick	Sqm	₹ 1,221.80
8.33.2	18 mm thick	Sqm	₹ 1,360.60
8.33.3	25 mm thick	Sqm	₹ 1,453.50
8.34	Providing and fixing specified wood frame work consisting of battens 50 × 25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.		
8.34.1	Gamair Wood	Cum	₹ 82,027.50
8.35	Providing and fixing decorative plywood 4 mm thick one side decorative veneer conforming to IS: 1328 (type-1) for plain lining / cladding with necessary screws, priming coat on unexposed surface with:		
8.35.1	Decorative veneer facings of approved manufacture.	Sqm	₹ 1,077.80

Code No.	Description	Unit	Rate
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.	Sqm	₹ 955.40
8.37	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) 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	Sqm	₹ 1,457.20
8.37.2	25 mm thick	Sqm	₹ 1,550.00
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	Mtr	₹ 89.10
8.38.1.2	50 × 20 mm	Mtr	₹ 108.10
8.38.2	Local Teak Wood		
8.38.2.1	50 × 12 mm	Mtr	₹ 81.80
8.38.2.2	50×20 mm	Mtr	₹ 95.90
8.39	Providing and fixing plain jaffri of 35 × 10 mm laths placed 35 mm apart (frames to be paid separately) including fixing 50 × 12 mm beading complete with :		
8.39.1	Gamair Wood	Sqm	₹ 1,092.70
8.40	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.	Mtr	₹ 391.90
8.41	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.	Mtr	₹ 510.70

Code No.	Description	Unit	Rate
8.42	Extra for using veneered particle board conforming to IS 3097 Grade I, in item of pelmet 18mm thick 150mm wide.		
8.42.1.	Non decorative veneer on both sides.	Mtr	₹ 35.40
8.42.2	Particle board with decorative veneering on both sides.	Mtr	₹ 99.50
8.43	Providing and fixing teak wood lipping of size 25x3 mm in pelmet.	Mtr	₹ 62.20
8.44	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete :		
8.44.1	12 mm dia.	Mtr	₹ 281.80
8.44.2	20 mm dia.	Mtr	₹ 353.60
8.44.3	25 mm dia.	Mtr	₹ 485.20
8.45	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets:		
8.45.1	20 mm dia (heavy type)	Mtr	₹ 101.20
8.45.2	25 mm dia (heavy type)	Mtr	₹ 113.20
8.46	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete.		
8.46.1	Fixed to steel windows by welding.	Kg	₹ 98.00
8.46.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	₹ 101.60
8.47	Providing and fixing expanded metal 20 x 60 mm strands 3.25 mm wide and 1.6 mm thick for windows etc. including 62 x 19 mm beading of Gamair wood.	Sqm	₹ 731.60
8.48	Providing and fixing hard drawn steel wire fabric 75 x 25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62 x 19 mm beading of Gamair wood.	Sqm	₹ 1,022.70
8.49	Providing and fixing fly proof galvanised M.S. wire gauge to windows and clerestory windows using galvanised M.S. wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.63 mm.		
8.49.1	With Gamair wood beading 62 x 19 mm.	Sqm	₹ 681.40
8.49.2	With 12 mm mild steel U beading.	Sqm	₹ 595.50
8.50	Deduct for fixing 75 x 25 mm hard drawn steel wire fabric of weight not less than 7.75 Kg. per sqm in panelled and glazed door and window shutter instead of glass sheet 4 mm thick.	Sqm	₹ 209.40

Code No.	Description	Unit	Rate
8.51	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 × 10 × 15 cm 1:3:6 mix (1 cement : 3 fine sand : 6 graded stone aggregate 20mm nominal size)	No	₹ 133.50
8.52	Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with :		
8.52.1	Sal wood.	Cum	₹ 60,445.60
8.52.2	Gamair Wood	Cum	₹ 48,240.50
8.53	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :		
8.53.1	125 × 65 × 2.12 mm	No	₹ 35.50
8.53.2	100 × 58 × 1.90 mm	No	₹ 27.40
8.53.3	75 × 47 × 1.70 mm	No	₹ 22.30
8.53.4	50 × 37 × 1.50 mm	No	₹ 14.30
8.54	Providing and fixing IS : 1341 marked M.S. heavy weight butt hinges with necessary screws etc. complete :		
8.54.1	125 × 90 × 4.00 mm	No	₹ 60.30
8.54.2	100 × 75 × 3.50 mm	No	₹ 39.50
8.54.3	75 × 60 × 3.10 mm	No	₹ 26.50
8.54.4	50 × 40 × 2.50 mm	No	₹ 16.70
8.55	Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.		
8.55.1	125 × 65 × 2.12 mm	No	₹ 37.60
8.55.2	100 × 58 × 1.90 mm	No	₹ 28.90
8.55.3	75 × 47 × 1.70 mm	No	₹ 22.70
8.55.4	50 × 37 × 1.50 mm	No	₹ 14.00
8.56	Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary screws etc. complete :		
8.56.1	150 × 125 × 27 × 2.80 mm	No	₹ 62.40
8.56.2	125 × 125 × 27 × 2.80 mm	No	₹ 58.70
8.56.3	100 × 125 × 27 × 2.80 mm	No	₹ 48.60
8.56.4	75 × 100 × 20 × 2.24 mm	No	₹ 43.00
8.57	Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete :		
8.57.1	150 mm	No	₹ 187.00

Code No.	Description	Unit	Rate
8.57.2	125 mm	No	₹ 175.00
8.57.3	100 mm	No	₹ 149.80
8.58	Providing and fixing oxidised M.S. double acting spring hinges with necessary screws etc. complete.		
8.58.1	150 mm	No	₹ 183.40
8.58.2	125 mm	No	₹ 189.40
8.58.3	100 mm	No	₹ 158.20
8.59	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.		
8.59.1	Overall width 35 mm.	Mtr	₹ 186.60
8.59.2	Overall width 50 mm.	Mtr	₹ 184.30
8.59.3	Overall width 65 mm.	Mtr	₹ 166.40
8.60	Providing and fixing ISI marked oxidised M.S.sliding door bolts with nuts and screws etc. complete		
8.60.1	300×16 mm	No	₹ 192.70
8.60.2	250 x 16 mm	No	₹ 191.40
8.61	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :		
8.61.1	250x10 mm	No	₹ 72.10
8.61.2	200 x 10 mm	No	₹ 63.70
8.61.3	150 x 10 mm	No	₹ 55.50
8.61.4	100 x 10 mm	No	₹ 48.30
8.62	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.	No	₹ 83.20
8.63	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete :		
8.63.1	300 x 20 x 6 mm	No	₹ 83.30
8.63.2	250 x 20 x 6 mm	No	₹ 68.90
8.64	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :		
8.64.1	125 mm	No	₹ 29.30
8.64.2	100 mm	No	₹ 23.40
8.64.3	75 mm	No	₹ 19.80

Code No.	Description	Unit	Rate
8.65	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :		
8.65.1	150 mm	No	₹ 25.80
8.65.2	115 mm	No	₹ 22.70
8.65.3	90 mm	No	₹ 19.10
8.66	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.		
8.66	300 mm weighing not less than 200 gms.	No	₹ 47.90
8.66.2	250 mm weighing not less than 150 gms.	No	₹ 43.10
8.66.3	200 mm weighing not less than 120 gms.	No	₹ 37.10
8.67	Providing and fixing oxidised M.S. Safety chain with necessary fixtures for doors. (Weighing not less than 450 gms.)	No	₹ 82.70
8.68	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :		
8.68.1	125 x 64 x 1.90 mm	No	₹ 79.00
8.68.2	100 X 58 X 1.90 mm	No	₹ 60.10
9.68.3	75 x 47 x 1.80 mm	No	₹ 44.30
8.68.4	50 x 37 x 1.50 mm	No	₹ 27.30
8.69	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :		
8.69.1	125 x 64 x 2.50 mm	No	₹ 83.80
8.69.2	100 x 60 x 2.50 mm	No	₹ 62.50
8.69.3	75 x 50 x 2.50 mm	No	₹ 47.90
8.70	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :		
8.70.1	125 x 85 x 5.5 mm (heavy type)	No	₹ 203.00
8.70.2	125 x 70 x 4 mm (ordinary type)	No	₹ 142.30
8.70.3	100 x 85 x 5.5 mm (heavy type)	No	₹ 372.60
8.70.4	100 x 70 x 4 mm (ordinary type)	No	₹ 114.20
8.70.5	75 x 65 x 4 mm (heavy type)	No	₹ 146.10
8.70.6	75 x 40 x 2.5 mm (ordinary type)	No	₹ 75.60
8.70.7	50 x 40 x 2.5 mm (ordinary type)	No	₹ 33.80
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	No	₹ 389.00
8.71.2	125 x 125 x 27 x 5 mm	No	₹ 350.10

Code No.	Description	Unit	Rate
8.71.3	100 x 125 x 27 x 5 mm	No	₹ 325.00
8.71.4	75 x 100 x 20 x 3.2 mm	No	₹ 243.30
8.72	Providing and fixing bright finished brass towerbolts (barrel type)with necessary screws etc. complete :		
8.72.1	250 x 10 mm	No	₹ 315.50
8.72.2	200x10 mm	No	₹ 252.30
8.72.3	150x10 mm	No	₹ 204.40
8.72.4	100x10 mm	No	₹ 137.50
8.73	Providing and fixing bright finished brass door latch with necessary screws etc. complete :		
8.73.1	300x16x5 mm	No	₹ 241.10
8.73.2	250x16x5 mm	No	₹ 230.40
8.74	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).	No	₹ 565.00
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).	No	₹ 499.20
8.76	Providing and fixing bright finished brass night latch including necessary screws etc. complete (best make of approved quality).	No	₹ 689.40
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	No	₹ 176.20
8.77.2	50 mm	No	₹ 188.10
8.77.3	65 mm	No	₹ 194.10
8.77.4	75 mm	No	₹ 218.00
8.78	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob with necessary screws (best make of approved quality).	No	₹ 55.00
8.79	Providing and fixing bright finished brass handles with screws etc. complete :		
8.79.1	125 mm	No	₹ 193.50
8.79.2	100 mm	No	₹ 179.20
8.79.3	75 mm	No	₹ 145.70
8.80	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	No	₹ 97.40

Code No.	Description	Unit	Rate
8.81	Providing and fixing IS : 3564 marked Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc. complete.	No	₹ 803.60
8.82	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete.	No	₹ 1,090.70
8.83	Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.	No	₹ 85.50
8.84	Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete :		
8.84.1	300 mm weighing not less than 330 gms	No	₹ 189.10
8.84.2	250 mm weighing not less than 280 gms	No	₹ 159.70
8.84.3	200 mm weighing not less than 240 gms	No	₹ 147.70
8.85	Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete:		
8.85.1	150 mm	No	₹ 110.80
8.85.2	115 mm	No	₹ 93.70
8.85.3	90 mm	No	₹ 81.40
8.86	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).	No	₹ 815.00
8.87	Providing and fixing chromium plated brass night latch including necessary screws etc. complete (Best make of approved quality).	No	₹ 754.00
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 :		
8.88.1	Size 40 mm	No	₹ 176.20
8.88.2	Size 50 mm	No	₹ 188.10
8.88.3	Size 65 mm	No	₹ 203.70
8.88.4	Size 75 mm	No	₹ 236.00
8.89	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.	No	₹ 69.30
8.90	Providing and fixing chromium plated brass handles with necessary screws etc. complete:		

Code No.	Description	Unit	Rate
8.90.1	125 mm	No	₹ 256.90
8.90.2	100 mm	No	₹ 223.40
8.90.3	75 mm	No	₹ 193.50
8.91	Providing and fixing chromium plated brass casement window fastener with necessary screws etc. complete.	No	₹ 133.30
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	No	₹ 219.50
8.92.2	250 mm weighing not less than 280 gms	No	₹ 184.80
8.92.3	200 mm weighing not less than 240 gms	No	₹ 166.80
8.93	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:		
8.93.1	125x75x4 mm	No	₹ 118.10
8.93.2	125x63x4 mm	No	₹ 110.40
8.93.3	100x75x4 mm	No	₹ 107.50
8.93.4	100x63x4 mm	No	₹ 95.60
8.93.5	100x63x3.2 mm	No	₹ 93.20
8.83.6	75x63x4 mm	No	₹ 76.20
8.93.7	75x63x3.2 mm	No	₹ 58.20
8.93.8	75x45x3.2 mm	No	₹ 49.90
8.94	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	300x16 mm	No	₹ 247.00
8.94.2	250x16 mm	No	₹ 205.10
8.95	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	300x10 mm	No	₹ 109.70
8.95.2	250x10 mm	No	₹ 85.80
8.95.3	200x10 mm	No	₹ 78.60
8.95.4	150x10 mm	No	₹ 70.30
8.95.5	100x10 mm	No	₹ 53.10

Code No.	Description	Unit	Rate
8.96	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.	No	₹ 83.20
8.97	Providing and fixing 50cm long aluminium kicking plate 100x3.15 mm 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.	No	₹ 179.10
8.98	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	No	₹ 57.10
8.98.2	100 mm	No	₹ 42.80
8.98.3	75 mm	No	₹ 35.70
8.99	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.		
8.99.1	Single rubber stopper	No	₹ 34.60
8.99.2	Twin rubber stopper	No	₹ 52.50
8.100	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.	No	₹ 53.20
8.101	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).	No	₹ 858.10
8.102	Providing and fixing aluminium tee channels (heavy duty) with rollers, stop end in pelmets as curtain rod.	Mtr	₹ 74.20

Code No.	Description	Unit	Rate
8.103	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 ceiling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.50 mm dia-mater, 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 ceiling channel and placed at a spacing of 610 mm centre to centre 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 jointing compound , jointing tape, joint finisher and two coats of primer suitable 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	Sqm	₹ 1,419.40
8.103.2	75mm overall thickness partition with 12.5mm thick double skin plain Gypsum board conforming to IS: 2095: part I	Sqm	₹ 1,287.80
8.103.3	66mm overall thickness Partition with 8mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure. Non Combustible & spread of flames (as per BS standard 476 part IV & VII), Water, Termite & Fungus Resistant, Compressive strength 225 Kg/Sq.cm, Bending strength 100 Ka/Sa.cm.	Sqm	₹ 1,431.40
8.103.4	66mm overall thickness partition using 8mm thick double skin non- asbestos multipurpose cement board reinforced with cellulose fibre manufactured through 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.	Sqm	₹ 1,522.30
8.104	Providing and fixing PTMT handles with necessary screws etc. complete.		
8.104.1	125x34x24 mm weighing not less than 23 gms.	No	₹ 38.40

Code No.	Description	Unit	Rate
8.104.2	150x34x24 mm weighing not less than 26 gms.	No	₹ 43.20
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.	No	₹ 61.00
8.105.2	100x75x10 mm fitted with 5.5 mm dia MSBright Bar Rod weighing not less than 53gms.	No	₹ 82.30
8.106	Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete.		
8.106.1	152x42x18 mm weighing not less than 60 gms.	No	₹ 85.00
8.106.2	202x42x18 mm weighing not less than 78 gms.	No	₹ 105.00
8.107	Providing and fixing PTMT door catcher of length 72 mm and dia. of 42 mm with suitable washers weighing not less than 33 gms.	No	₹ 34.90
8.108	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete Gamair wood.		
8.108.1	50x50 mm (base and height).	Mtr	₹ 138.70
8.109	Providing and fixing gamair wood lipping/ moulded beading or Taj beading of size 18X5mm fixed with wooden adhesive like fevicol etc and screws/ nails on the edges of the prelaminate particle board as per direction of Engineer-in-charge.	Mtr	₹ 38.30
8.110	Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (Best make of approved quality) as per direction of Engineer-in-charge.	No	₹ 502.80
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.	No	₹ 29.90
8.111.2	Double strip (horizontal type).	No	₹ 23.90
8.112	Providing and fixing powder coated telescopic drawer channels 300mm long with necessary screws etc. complete as per directions of Engineer-in-charge.	Set	₹ 197.40

Code No.	Description	Unit	Rate
8.113	Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by providing and fixing stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately).	No	₹ 14.40
8.114	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.	Mtr	₹ 246.50
8.114.2	Extruded section Profile size 42x50 mm.	Mtr	₹ 234.50
8.115	Providing and fixing to existing door frames.		
8.115.1	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 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).	Sqm	₹ 1,815.60

Code No.	Description	Unit	Rate
8.115.2	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 ± 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 ± 0.1 mm wall thickness. The lock rail made up of "H" Section, a UPVC profile section of size 30×100 mm and 2 mm ± 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 ± 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).	Sqm	₹ 1,959.20
8.115.3	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 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.	Sqm	₹ 2,174.50
8.116	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 using MS screws of 65/100 mm size complete as per manufacturers' specification and direction of Engineer-In-Charge.	Mtr	₹ 443.80
8.117	Providing and fixing to existing door frames.		

Code No.	Description	Unit	Rate
8.117.1	30mm thick factory made solid panel PVC door shutter consisting of frame made out of 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 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.	Sqm	₹ 2,898.40
8.117.2	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 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.	Sqm	₹ 3,388.90

Code No.	Description	Unit	Rate
8.118	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.	Mtr	₹ 431.90
8.119	Providing and fixing to existing door frames.		
8.119.1	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.	Sqm	₹ 2,186.60
8.119.2	30mm thick fibreglass reinforced plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3mm thick FRP laminate all around, with suitable wooden blocks inside at required places for 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.	Sqm	₹ 2,569.40
8.120	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.	Mtr	₹ 402.00

Code No.	Description	Unit	Rate
8.121	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)	Sqm	₹ 2,569.40
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.	Sqm	₹ 660.60
8.123	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	Sqm	₹ 1,475.30
8.123.2	Fire retardant plywood conforming to IS: 5509.	Sqm	₹ 1,633.90
8.124	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.	Sqm	₹ 810.50
8.124.2	1.0 mm thick.	Sqm	₹ 560.50

Code No.	Description	Unit	Rate
8.125	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.	Sqm	₹ 4,187.20
8.126	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.	Sqm	₹ 1,607.50
8.127	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.	Sqm	₹ 1,526.20
8.127.2	With non decorative veneering on both sides.	Sqm	₹ 1,398.20

Code No.	Description	Unit	Rate
8.128	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.	Sqm	₹ 1,347.00
8.129	Providing and fixing aluminum U beading of required size to pre-laminated /flush door shutter including fixing etc. complete as per direction of Engineer-in-charge.	Kg	₹ 442.70
8.130	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.		
8.130.1	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.	Sqm	₹ 1,091.10

Code No.	Description	Unit	Rate
8.130.2	Non -asbestos multipurpose cement board reinforced with cellulose fibre manufactured through 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 and VII) moisture, termite & fungus resistant with suitable fibre cement screw.		
8.130.2.1	8 mm thick.	Sqm	₹ 937.10
8.130.3	Gypsum board conforming to IS: 2095- 1996: Part - I		
8.130.3.1	12.5 mm thick.	Sqm	₹ 808.10
8.131	Providing and fixing Pre -laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately).		
8.131.1	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick conforming to IS:14587	Sqm	₹ 697.10
8.131.2	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick conforming to IS:14587	Sqm	₹ 883.60
8.132	Providing and fixing Pre-laminated medium density fibre board conforming to IS: 14587:1998 marked, with one side decorative lamination and other side balancing 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	Sqm	₹ 1,097.05
8.132.2	25 mm thick	Sqm	₹ 1,499.00
8.133	Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-laminated with one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. all complete.		
8.133.1	12 mm thick.	Sqm	₹ 756.10
8.133.2	18 mm thick.	Sqm	₹ 927.20
8.133.3	25 mm thick.	Sqm	₹ 1,348.30

Code No.	Description	Unit	Rate
8.134	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.	Sqm	₹ 1,500.90
8.135	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	18 mm thick.	Sqm	₹ 1,222.80
8.135.2	25 mm thick.	Sqm	₹ 1,643.90
8.136	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).	Sqm	₹ 4,910.10
8.137	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).	Sqm	₹ 2,915.40

Code No.	Description	Unit	Rate
8.138	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.	cum	₹ 2,25,035.50
8.139	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 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 horizontal 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 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.	Sqm	₹ 2,293.30

Code No.	Description	Unit	Rate
8.140	<p>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 32mm 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 horizontal 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.</p>	Sqm	₹ 3,767.10
8.141	<p>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 aluminium-extruded 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 groove 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.</p>	Sqm	₹ 5,680.00

SUB-HEAD - 9



STEEL WORK

**SUB HEAD : 9.0 / STEEL WORK
BASIC RATES**

Code No.	Description	Unit	Rate
0201	Bandhani	Day	₹ 300.00
0206	Blacksmith 1st class	Day	₹ 425.00
0207	Blacksmith 2nd class	Day	₹ 380.00
0203	Beldar	Day	₹ 300.00
0215	Fitter (grade 1)	Day	₹ 380.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0204	Belder skilled	Day	₹ 340.00
0217	Glazier	Day	₹ 380.00
08061	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	₹ 100.00
09014	Pulley 25 mm dia	Each	₹ 55.00
09016	Rolling shutter made of 80x1.25 mm machine rolled laths	Sqm	₹ 1,340.00
09019	Top cover for rolling shutters 1.25 mm thick	Metre	₹ 900.00
09002	275 mm long wire spring grade no 2 for rolling shutters	Each	₹ 365.00
09003	Ball bearing for rolling shutters	Each	₹ 300.00
09006	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 10.00 sq.m and up to 16.80 sq.m area of door	Sqm	₹ 630.00
09007	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 16.80 sq.m area of door	Sqm	₹ 630.00
05038	Mild steel round bar 12 mm dia and below	Quintal	₹ 4,055.00
05039	Mild steel round bar above 12 mm dia	Quintal	₹ 4,010.00
05056	Structural steel such as tees, angles channels and R.S. joists	Quintal	₹ 4,267.00
05026	Flats up to 10 mm in thickness	Quintal	₹ 3,992.00
05025	Flats exceeding 10 mm in thickness	Quintal	₹ 3,967.00
05036	Mild steel plates	Quintal	₹ 5,141.00
05041	Mild steel sheets for tanks	Quintal	₹ 4,532.00
05035	Mild steel hooks	Each	₹ 33.00
05037	Mild steel rivets	Quintal	₹ 5,292.00
05017	Bolts and nuts up to 300 mm in length	Quintal	₹ 5,200.00
05016	Bolts and nuts above 300 mm in length	Quintal	₹ 5,350.00

Code No.	Description	Unit	Rate
09009	Iron pintels including welded pin	Each	₹ 45.00
09023	Welding by gas plant in/c wages for welder	Cm	₹ 2.00
09022	Welding by electric plant in/c wages for welder	Cm	₹ 2.00
09001	20 mm dia holding down bolts	Quintal	₹ 5,650.00
09010	Mild steel sheets with bolts and nuts to rest on pintels	Each	₹ 135.00
19032	G.I. pipes 40 mm dia	Metre	₹ 240.00
09013	Mild steel tubes hot finished welded type	Kilogram	₹ 56.00
09012	Mild steel tubes hot finished seamless type	Kilogram	₹ 60.00
09011	Mild steel tubes electric resistant or induction butt welded	Kilogram	₹ 65.00
09005	Circular C.I. Box for ceiling fan	Each	₹ 60.00
09015	Pulley 40 mm dia	Each	₹ 65.00
09018	Rolling shutters made of 80x0.90 mm machine rolled laths	Sqm	₹ 1,100.00
09017	Rolling shutters made of 80x1.2 mm machine rolled laths	Sqm	₹ 1,200.00
09020	Top cover of Rolling shutters 0.90 mm thick	Metre	₹ 330.00
09021	Top cover of Rolling shutters 1.20 mm thick	Metre	₹ 350.00
09008	Extra for providing grided rolling shutters with 8 mm dia M.S. rod instead of laths	Sqm	₹ 290.00
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 sleeve. Size 10mm x 60mm	10 Nos.	₹ 286.00
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 sleeve. Size 10mm x 80mm	10 Nos.	₹ 330.00
09026	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 sleeve. Size 10mm x 120mm	10 Nos.	₹ 400.00
09027	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 sleeve. Size 10mm x 140mm	10 Nos.	₹ 505.00

Code No.	Description	Unit	Rate
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 sleeve. Size 10mm x 160mm	Sqm	₹ 630.00
09029	Stainless steel (Grade-304) hollow section round/square tubes	kg	₹ 250.00
09030	Stainless steel bolts/square bar and plates	kg	₹ 130.00
09031	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	₹ 286.00
09032	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	₹ 715.00
08146	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	₹ 360.00
08147	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm	sqm	₹ 535.00
09033	Steel beading size 10 x 10 x 1.6 mm (box type)	metre	₹ 31.00
09034	Structural hollow steel section conforming to IS: 4923, Grade: Yst 310 or Circular Section conforming to IS: 1161, Grade: Yst 310	kg	₹ 62.00
09035	Structural steel section confirming to IS 2062 - 1999 grade B Fe 410, normalized control cooled , yield strength + 250 MPa as per latest IS Code	kg	₹ 49.00
09036	High strength friction grip bolts (HSFG bolts) of class / grade EN 8	kg	₹ 155.00
0468	Carriage: Steel	Tonne	₹ 110.94
0427	Carriage: G.I. pipes below 100 mm dia	Tonne	₹ 110.94

SUB HEAD : 9.0**STEEL WORK****Note:**

- 1 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.
- 2 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.

Code No.	Description	Unit	Rate
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.	Kg.	₹ 63.70
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.	Kg.	₹ 75.80
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.	Sqm.	₹ 5,341.00
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.	Sqm.	₹ 3,478.60

Code No.	Description	Unit	Rate
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.	Sqm.	₹ 2,944.20
9.5.2	Using flats 30x6mm for diagonal braces and central cross piece.	Sqm.	₹ 2,749.90
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	80x1.25mm M.S. laths with 1.25 mm thick top cover.	Sqm.	₹ 2,420.30
9.6.2	80x1.20 mm M.S. laths with 1.20 mm thick top cover.	Sqm.	₹ 1,987.50
9.6.3	80x0.90 mm M.S. laths with 0.90 mm thick top cover.	Sqm.	₹ 1,830.80
9.7	Providing and fixing ball bearing for rolling shutters (exceeding 10 sqm area) of approved make complete as required.	Each	₹ 407.00
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.	Sqm.	₹ 774.00
9.8.2	Exceeding 16.80 sqm in area.	Sqm.	₹ 774.00
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.	Sqm.	₹ 348.70

Code No.	Description	Unit	Rate
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)	Kg.	₹ 80.60
9.10.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Kg.	₹ 76.60
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.	kg	₹ 70.40
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	Kg.	₹ 107.20
9.12.2	Hot finished seamless type tubes	Kg.	₹ 112.40
9.12.3	Electric resistance or induction butt welded tubes.	Kg.	₹ 118.90
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.	Each	₹ 113.60
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).	Each	₹ 137.70

Code No.	Description	Unit	Rate
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.	Kg.	₹ 78.60
9.15.2	In grating, frames, guard bar, railing, brackets, gates and similar works, all complete.	Kg.	₹ 88.70
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	Kg.	₹ 106.00
9.16.2	E.R.W. tubes.	Kg.	₹ 120.90
9.16.3	G.I.pipes.	Kg.	₹ 115.70
9.17	Providing and fixing M.S. round holding down bolts with nuts and wahser plates complete as per standard design.	Kg.	₹ 76.30
9.18	Providing and fixing MS bolts including nuts and washers complete as per standard design:-		
9.18.1	Upto 300mm length.	Kg.	₹ 93.70
9.18.2	Above 300mm length.	Kg.	₹ 95.50
9.19	Providing and fixing M.S. rivets of sizes in position complete as per standard design.	Kg.	₹ 137.60
9.20	Welding by gas or electric plant including transportation of plant at site etc. complete as per standard design.	Cm.	₹ 2.50
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/mm ²), 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	each	₹ 67.40
9.21.2	10 x 80 mm	each	₹ 72.80
9.21.3	10 x 120 mm	each	₹ 89.50
9.21.4	10 x 140 mm	each	₹ 102.20
9.21.5	10 x 160 mm	each	₹ 125.60

Code No.	Description	Unit	Rate
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.).	Kg.	₹ 502.50
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	sqm	₹ 552.70
9.23.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	sqm	₹ 1,118.70
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	sqm	₹ 691.00
9.24.2	5.5 mm thick glass panes	sqm	₹ 973.30
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.	metre	₹ 42.30

Code No.	Description	Unit	Rate
9.26	<p>Providing, fabricating, transporting, assembling and erection in position of Steel members for steel columns, 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 preparation 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 HSBG 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.</p> <p>Scope of work includes:</p> <p>i) Design & fabrication of any additional temporary structure including all type of lifting brackets, supporting brackets ,which will be required for transportation & erection in position / launching of fabrication part or complete element in position.</p> <p>ii) Making provision & arrangement for required opening / inserts for fixing lights fixtures & running cable conduits.</p> <p>iii) All incidentials labour, equipment & plants required to execute & complete the job from fabrication to erection at final position as per drawing, specification & direction of Engineer - in -Charge.</p> <p>iv) Cleaning & removing of all spoil, temporary arrangements for casting of deck slab/roofing.</p> <p>v) All safety measures required to execute & complete the work.</p> <p>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.</p> <p>vii) The provision of temporary bearing / sand jacks for supporting steel members during erection.</p> <p>viii) Provision of stability during erection against wind load or any other type of loading on structural steel members during erection.</p> <p>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 allowance or increase in weight for welding , nuts & bolts etc will be applicable.</p>	kg	₹ 120.80

Code No.	Description	Unit	Rate
9.27	<p>Providing, fabricating, transporting, assembling and erection in position of Steel members for steel columns, 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 preparation 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 HSBG 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.</p> <p>Scope of work includes:</p> <p>i) Design & fabrication of any additional temporary structure including all type of lifting brackets, supporting brackets ,which will be required for transportation & erection in position / launching of fabrication part or complete element in position.</p> <p>ii) Making provision & arrangement for required opening / inserts for fixing lights fixtures & running cable conduits.</p> <p>iii) All incidentials labour, equipment & plants required to execute & complete the job from fabrication to erection at final position as per drawing, specification & direction of Engineer - in -Charge.</p> <p>iv) Cleaning & removing of all spoil, temporary arrangements for casting of deck slab/roofing.</p> <p>v) All safety measures required to execute & complete the work.</p> <p>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.</p> <p>vii) The provision of temporary bearing / sand jacks for supporting steel members during erection.</p> <p>viii) Provision of stability during erection against wind load or any other type of loading on structural steel members during erection.</p> <p>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 allowance or increase in weight for welding , nuts & bolts etc will be applicable.</p>	kg	₹ 103.60

Code No.	Description	Unit	Rate
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 compatible 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 & compatible washers used in permanent works.	kg	₹ 212.00

SUB-HEAD - 10



FLOORING

**SUB HEAD : 10.0 / FLOORING
BASIC RATES**

Code No.	Description	Unit	Rate
0216	Foreman	Day	₹ 425.00
0205	Bhisti/ Waterman	Day	₹ 300.00
0210	Carpenter 2nd class	Day	₹ 380.00
0209	Carpenter 1st class	Day	₹ 425.00
0203	Beldar	Day	₹ 300.00
0212	Coolie	Day	₹ 300.00
0215	Fitter (grade 1)	Day	₹ 380.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0221	Mason (for ornamental stone work) 1st class	Day	₹ 425.00
0224	Mate	Day	₹ 300.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	₹ 380.00
0218*	Mason (average)	Day	₹ 400.00
0207	Blaksmith 2nd class	Day	₹ 380.00
10001	25 mm thick pre-polished colored concrete designer tiles of size 300mm x 300mm (using 50% white cement and 50% ordinary cement)	Sqm	₹ 385.00
04002	Well burnt brick aggregate (Single size) : 20 mm nominal size	cum	₹ 2,975.00
04003	Well burnt brick aggregate (Single size) : 12 / 12.5mm nominal size	cum	₹ 3,075.00
04003	Well burnt brick aggregate (Single size) : 10 mm nominal size	cum	₹ 3,075.00
04006	Stone Aggregate (Single size) : 20 mm nominal size	cum	₹ 3,969.00
04007	Stone Aggregate (Single size) : 12 / 12.5 mm nominal size	cum	₹ 4,005.00
04008	Stone Aggregate (Single size) : 10 mm nominal size	cum	₹ 4,040.00
04009	Stone Aggregate (Single size) : 06 mm nominal size	cum	₹ 3,750.00
03001	Portland Cement	tonne	₹ 6,100.00
03002	White Cement	tonne	₹ 18,000.00
03004	Marble dust/ powder	cum	₹ 3,780.00
03006	Marble chips up to 4mm and downsize White & black	Kg	₹ 5.41
03003	Marble chips large size above 4 mm White & black	Kg	₹ 5.41
10007	Black colour dark shade pigment	Kg	₹ 85.00
10027	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	Kg	₹ 85.00
10017	Green or blue medium shade pigment	Kg	₹ 85.00
02003	Fine sand (selected quarry)	cum	₹ 370.00

Code No.	Description	Unit	Rate
05056	Structural steel such as tees, angles channels and R.S. joists	quintal	₹ 4,267.00
05026	Flats up to 10 mm in thickness	quintal	₹ 3,992.00
10014	Glass strip 40 mm wide 4 mm thick	metre	₹ 22.00
10020	Kota stone slab 20 mm to 25 mm thick (semi-polished)	Sqm	₹ 335.00
08290	Second class teak wood in planks (local)	Cum	₹ 35,000.00
10024	Precast terrazzo tiles 22 mm thick (light shade)	sqm	₹ 290.00
09022	Welding by electric plant	cm	₹ 2.00
10013	Chequered terrazzo tiles 22 mm thick(light shade)	sqm	₹ 330.00
10012	Chequered tiles 18 mm thick (dark shade)	sqm	₹ 195.00
06001	Brick (1st class)	1000 Nos	₹ 8,027.00
10006	Aluminium Strip 40 mm wide and 2 mm thick	Kg	₹ 200.00
10002	8 mm thick marble tiles (polished) Raj Nagar	Sqm	₹ 435.00
10034	White marble slab Markana second quality plain veined 18 mm thick	Sqm	₹ 2,000.00
10023	Pink marble slab plain 18mm thick	Sqm	₹ 890.00
10028	Udaipur green marble slab plain 18mm thick	Sqm	₹ 875.00
10008	Black Zebra marble slab plain 18mm thick	Sqm	₹ 571.00
10004	Acid proof cement	tonne	₹ 9,000.00
07006	White marble Raj Nagar plain 18 mm thick (slab area 0.10 sqm to 0.50 sqm)	Sqm	₹ 850.00
10003	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos.	₹ 594.00
10018	Hardening Compound	Kg	₹ 50.00
10011	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs	Sqm	₹ 270.00
10010	Ceramic Glazed Tiles 1st quality 300 x 300mm in all shades and designs	Sqm	₹ 270.00
10009	Ceramic Glazed Tiles 1st quality 400 x 400mm in all shades and designs	Sqm	₹ 360.00
10026	Rectified Ceramic Glazed Tiles 1st quality 300x 300 or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	Sqm	₹ 400.00
10025	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	Sqm	₹ 470.00
10005	Agaria white marble slab plain 18 mm thick	Sqm	₹ 1,300.00
10030	Vitrified floor tile 50x50 cm conforming to IS: 15622 : 2006 Group (B 1 a)	Sqm	₹ 510.00
10031	Vitrified floor tile 60x60 cm conforming to IS: 15622 : 2006 Group (B 1 a)	Sqm	₹ 615.00
10032	Vitrified floor tile 80x80 cm conforming to IS: 15622 : 2006 Group (B 1 a)	Sqm	₹ 860.00

Code No.	Description	Unit	Rate
10029	Vitrified floor tile 100x100 cm conforming to IS: 15622 : 2006 Group (B 1 a)	Sqm	₹ 1,400.00
10019	High polymer modified quickset tile adhesive	Kg	₹ 12.00
10035	White marble slab Markana second quality plain veined 14 mm thick	Sqm	₹ 1,700.00
07013	White marble Raj Nagar plain 14 mm thick (slab area 0.10 sqm to 0.50 sqm)	Sqm	₹ 700.00
10041	Agaria white marble slab plain 14 mm thick	Sqm	₹ 1,000.00
10042	Black Zebra marble slab plain 14mm thick	Sqm	₹ 435.00
10043	Udaipur green marble slab plain 14mm thick	Sqm	₹ 750.00
10044	Pink marble slab plain 14mm thick	Sqm	₹ 795.00
05006	Bitumen penetration 80/25 (blown type) of approved quality	tonne	₹ 36,820.00
10045	Ceramic Glazed Tiles 1st quality 600 x 600mm in all shades and designs	Sqm	₹ 430.00
10046	Epoxy grout	kg	₹ 380.00
10047	Border tiles	each	₹ 17.00
10048	Ceramic Tiles Pieces for Crazy Flooring	quintal	₹ 140.00
10049	Synthetic polyester triangular fibre of length 12 mm, effective dia. 10-40 microns and specific gravity of 1.34 to 1.40	kg	₹ 375.00
10050	White marble rajnagar plain stone pieces for crazy flooring	quintal	₹ 160.00
10051	Tile fixing chemical adhesive	kg	₹ 22.00
10052	Glass mosaic tiles (20 mm x 20 mm x 4 mm)	sqm	₹ 1,185.00
10053	Cement polymer Grout Compound	kg	₹ 30.00
10054	Acid for cleaning tiles	litre	₹ 20.00
10055	500x500x40 mm thick Turf paver	sqm	₹ 580.00
10056	Bamboo wood Tile Flooring 14mm thick of minimum size 1800mm x 130mm	sqm	₹ 3,775.00
10057	Bamboo wood Quarter Round 18mm thick of size 1900mm x 18mm	metre	₹ 125.00
10058	Bamboo wood door reducer 14mm thick of size 1900mm x 44mm	metre	₹ 275.00
10059	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m ³	sqm	₹ 18.00
10060	Silicon based Joint Sealant for Tiles	kg	₹ 150.00
10061	Rubber base Adhesive	kg	₹ 160.00
10062	Bamboo wood Skirting 14mm thick of Size 1900mm x 85mm	metre	₹ 325.00
10063	Bamboo wood Tile Wall Cladding 10mm thick of size 1900mm x 135mm	sqm	₹ 3,375.00
10064	Bamboo wood T-mold 14mm thick of size 1900mm x 44mm	metre	₹ 275.00
10065	Bamboo wood Threshold 14mm thick of size 1900mm x 44mm	metre	₹ 275.00

Code No.	Description	Unit	Rate
10066	Expanded poly ethylene Foam sheet 1mm thick of Density 40kg/m ³	sqm	₹ 8.50
08239	Stainless steel screws 50 mm	100 Nos.	₹ 275.00
08241	Stainless steel screws 30 mm	100 Nos.	₹ 208.00
10067	Laminated wooden plank for Flooring 8mm thick of minimum size 1202mm x 192mm : AC3 Grade	sqm	₹ 985.00
10068	Laminated wooden plank for Flooring 8mm thick of minimum size 1202mm x 192mm : AC4 Grade	sqm	₹ 1,200.00
10069	Laminated wood T-profile 15mm thick of size 2286mm x 45mm	metre	₹ 295.00
10070	Laminated wood door reducer 12mm thick of size 2286mm x 45mm	metre	₹ 295.00
10071	Laminated wooden Skirting 12mm thick of Size 2286mm x 60mm	metre	₹ 208.00
0406	Carriage: Bricks	1000 Nos	₹ 332.82
0405	Carriage: Brick/ Stone aggregate below 40 mm nominal size	cum	₹ 159.75
0473	Carriage: Timber	cum	₹ 80.65
0468	Carriage: Steel	tonne	₹ 110.94
0421	Carriage: Cement	tonne	₹ 110.94
0469	Carriage: Stone blocks white & red sand stone & kota stone slab	tonne	₹ 110.94
0425	Carriage: Fine Sand	cum	₹ 142.63
0431	Carriage: Marble dust and marble chips	cum	₹ 130.51
0472	Carriage: Tar bitumen	tonne	₹ 110.94

SUB HEAD : 10.0

FLOORING

Code No.	Description	Unit	Rate
10.1	Providing and laying brick on edge flooring in cement mortar including cement slurry etc. complete.		
10.1.1	In cement mortar 1 : 4 (1 cement : 4 fine sand)	sqm	₹ 810.50
10.1.2	In cement mortar 1 : 5 (1 cement : 5 fine sand)	sqm	₹ 787.90
10.1.3	In cement mortar 1 : 6 (1 cement : 6 fine sand)	sqm	₹ 768.60
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)	sqm	₹ 536.80
10.2.2	In cement mortar 1 : 5 (1 cement : 5 fine sand)	sqm	₹ 545.40
10.2.3	In cement mortar 1 : 6 (1 cement : 6 fine sand)	sqm	₹ 532.10
10.3	Providing and laying dry flat brick flooring in required pattern complete.	sqm	₹ 405.10
10.4	Providing and laying dry brick on edge flooring in required pattern complete.	sqm	₹ 628.10
10.5	Providing and laying cement concrete 1:2:4 (1 cement: 2 fine sand : 4 graded stone aggregate 20 mm nominal size) flooring finished with a floating coat of neat cement including cement slurry, rounding of edges and strips and cost of glass strips etc. complete.		
10.5.1	40mm thick.	sqm	₹ 481.50
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.	sqm	₹ 439.00
10.7	Extra for making chequers of approved pattern in Cement Concrete floors, steps, landing, pavements etc. complete.	sqm	₹ 33.30
10.8	Providing and laying cement concrete 1:2:4 (1 cement : 2 fine sand : 4 graded stone aggregate) flooring finished with a floating coat of neat cement including cement slurry, rounding of edges and strips etc. complete.		

Code No.	Description	Unit	Rate
10.8.1	25 mm thick with 12.5 mm stone aggregate	sqm	₹ 348.50
10.8.2	40 mm thick with 20 mm stone aggregate	sqm	₹ 468.40
10.9	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 etc. complete.		
10.9.1	25 mm thick with 12.5 mm well burnt brick aggregate.	sqm	₹ 321.00
10.9.2	40 mm thick with 20 mm well burnt brick aggregate.	sqm	₹ 422.60
10.10	Providing and laying 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 metallic concrete hardener consisting of mix 1 : 2 (1 cement hardener mix : 2 stone aggregate 6 mm nominal size) by volume with hardening compound @ 2 litre per 50 kg of cement including cement slurry, nosing of steps etc. complete.	sqm	₹ 661.60
10.11	Providing and laying 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 20 mm nominal size) and top layer 12 mm metallic concrete hardener consisting of mix 1 : 2 (1 cement hardener mix : 2 stone aggregate 6 mm nominal size) by volume with hardening compound @ 2 litre per 50 kg of cement including cement slurry, nosing of steps etc. complete	sqm	₹ 738.10
10.12	Providing and laying cement concrete pavement including finishing etc. complete		
10.12.1	with 1:2:4 (1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	Cum	₹ 9,385.70
10.12.2	with 1:2:4 (1 cement : 2 fine sand : 4 graded well burnt brick aggregate 20 mm nominal size)	Cum	₹ 8,151.70
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	sqm	₹ 250.00
10.13.2	21 mm thick	sqm	₹ 284.40

Code No.	Description	Unit	Rate
TERRAZO FLOORING			
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	Using dark shade pigment with ordinary cement in top layer	sqm	₹ 670.00
10.14.2	Using light shade pigment with ordinary cement in top layer	sqm	₹ 670.00
10.14.3	Using ordinary cement in top layer with no pigment	sqm	₹ 637.80
10.14.4	Using medium shade pigment with white cement in top layer	sqm	₹ 734.30
10.14.5	Using light shade pigment with white cement in top layer	sqm	₹ 734.30
10.14.6	Using white cement in top layer with no pigment	sqm	₹ 702.10
10.15	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	Using dark shade pigment with ordinary cement in top layer	sqm	₹ 630.40
10.15.2	Using light shade pigment with ordinary cement in top layer	sqm	₹ 630.40
10.15.3	Using ordinary cement in top layer with no pigment	sqm	₹ 598.20
10.15.4	Using medium shade pigment with white cement in top layer	sqm	₹ 694.70
10.15.5	Using light shade pigment with white cement in top layer	sqm	₹ 694.70
10.15.6	Using white cement in top layer with no pigment	sqm	₹ 662.50

Code No.	Description	Unit	Rate
10.16	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 stone 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 7 mm to 10 mm nominal size laid in cement marble powder mix 3 : 1 (3 cement : 1 marble powder) by weight in proportion of 2 : 3 (2 cement marble powder mix : 3 marble chips) by volume including cement slurry etc. complete.		
10.16.1	Using dark shade pigment with ordinary cement in top layer	sqm	₹ 765.50
10.16.2	Using light shade pigment with ordinary cement in top layer	sqm	₹ 765.50
10.16.3	Using ordinary cement in top layer with no pigment	sqm	₹ 701.20
10.16.4	Using medium shade pigment with white cement in top layer	sqm	₹ 894.10
10.16.5	Using light shade pigment with white cement in top layer	sqm	₹ 894.10
10.16.6	Using white cement in top layer with no pigment	sqm	₹ 829.80
10.17	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 7 mm to 10 mm nominal size laid in cement marble powder mix 3 : 1 (3 cement : 1 marble powder) by weight in proportion of 2 : 3 (2 cement marble powder mix : 3 marble chips) by volume including cement slurry etc. complete.		
10.17.1	Using dark shade pigment with ordinary cement in top layer	sqm	₹ 733.00
10.17.2	Using light shade pigment with ordinary cement in top layer	sqm	₹ 733.00
10.17.3	Using ordinary cement in top layer with no pigment	sqm	₹ 668.70
10.17.4	Using medium shade pigment with white cement in top layer	sqm	₹ 861.60
10.17.5	Using light shade pigment with white cement in top layer	sqm	₹ 861.60
10.17.6	Using white cement in top layer with no pigment	sqm	₹ 797.30

Code No.	Description	Unit	Rate
10.18	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)		
i.	Using dark shade pigment with ordinary cement in top layer	sqm	₹ 733.80
ii.	Using light shade pigment with ordinary cement in top layer	sqm	₹ 733.80
iii.	Using ordinary cement in top layer with no pigment	sqm	₹ 702.80
iv.	Using medium shade pigment with white cement in top layer	sqm	₹ 795.70
v.	Using light shade pigment with white cement in top layer	sqm	₹ 795.70
vi.	Using white cement in top layer with no pigment	sqm	₹ 764.70
10.18.2	21 mm thick with under layer 12 mm thick cement plaster 1 : 3 (1 Cement : 3 fine sand)		
i.	Using dark shade pigment with ordinary cement in top layer	sqm	₹ 748.00
ii.	Using light shade pigment with ordinary cement in top layer	sqm	₹ 748.00
iii.	Using ordinary cement in top layer with no pigment	sqm	₹ 717.00
iv.	Using medium shade pigment with white cement in top layer	sqm	₹ 809.90
v.	Using light shade pigment with white cement in top layer	sqm	₹ 809.90
vi.	Using white cement in top layer with no pigment	sqm	₹ 778.90
10.19	Extra for providing and fixing 2.0 mm thick, 40 mm wide aluminium strips in joints of terrazo flooring complete.	Metre	₹ 76.20
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.	Metre	₹ 50.10
10.21	Extra for providing and laying terrazo flooring complete on stair case treads not exceeding 300 mm in width including cost of forming, nosing etc.	sqm	₹ 52.00

Code No.	Description	Unit	Rate
TILE FLOORING			
10.22	Providing and fixing precast terrazo tiles 22 mm thick with graded marble chips of size upto 12 mm, laid in floors, landings, 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 polishing complete.		
i.	In light shade using white cement	sqm	₹ 979.40
10.23	Providing and fixing precast terrazo tiles 22 mm thick with graded marble chips of size upto 12 mm, laid in skirting, treads, risers of steps not exceeding 300 mm in height, on 12 mm thick bed of cement mortar 1 : 3 (1 cement : 3 fine sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and polishing complete.		
i.	In light shade using white cement	sqm	₹ 1,155.10
10.24	Providing and fixing precast terrazo tiles 22 mm thick with graded marble chips of size upto 12 mm, fixed in walls, on 12 mm thick bed of cement mortar 1 : 3 (1 cement : 3 fine sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and polishing complete.		
i.	In light shade using white cement	sqm	₹ 1,019.70
10.25	Providing and fixing precast chequered terrazo tiles 22 mm thick with graded marble chips of size upto 6 mm, laid on floors, 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 polishing complete.		
i.	In light shade using white cement	sqm	₹ 1,199.50
ii.	In dark shade using ordinary cement	sqm	₹ 937.00
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 in dado/skirting on 12 mm thick mortar 1:4 (1 cement : 4 fine sand).	sqm	₹ 1,619.90

Code No.	Description	Unit	Rate
10.27	Providing and fixing Marble tiles in skirting, risers of steps, dado etc. (upto 2 m height) 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 of matching shade complete.		
i.	8mm thick Rajnagar marble tiles (polished)	sqm	₹ 940.00
STONE FLOORING			
10.28	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	sqm	₹ 3,600.40
10.28.1.2	Raj Nagar plain marble	sqm	₹ 1,842.50
10.28.1.3	Agaria White marble	sqm	₹ 2,549.50
10.28.1.4	Black Zebra marble	sqm	₹ 1,404.10
10.28.1.5	Udaipur green marble	sqm	₹ 1,881.70
10.28.1.6	Pink plain marble	sqm	₹ 1,905.30
10.28.2	14 mm thick Marble stone		
10.28.2.1	Makrana white marble 2nd quality	sqm	₹ 3,129.10
10.28.2.2	Raj Nagar plain marble	sqm	₹ 1,606.80
10.28.2.3	Agaria White marble	sqm	₹ 2,078.10
10.28.2.4	Black Zebra marble	sqm	₹ 1,190.40
10.28.2.5	Udaipur green marble	sqm	₹ 1,685.30
10.28.2.6	Pink plain marble	sqm	₹ 1,756.00
10.29	Extra for prefinished nosing to treads of steps of marble stone.	Metre	₹ 285.30
10.30	Extra for marble stone flooring complete in treads of steps and risers using single length upto 2.00 metre.	sqm	₹ 317.70

Code No.	Description	Unit	Rate
KOTA STONE FLOORING			
10.31	Providing and fixing Kota 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 ordinary cement mixed with pigment of matching shade, including rubbing and polishing complete.		
10.31.1	Kota stone slab 25mm thick	sqm	₹ 1,133.30
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 jointed with ordinary cement slurry mixed with pigment to match the shade of slabs, including rubbing and polishing complete.	sqm	₹ 1,358.30
WOODEN FLOORING			
10.33	Providing and fixing 25 mm thick wooden planking, tongued and grooved in floors including fixing with iron screws complete.		
10.33.1	With teak wood local	sqm	₹ 2,062.60
10.34	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.	sqm	₹ 5,681.00

Code No.	Description	Unit	Rate
10.35	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/m ³ , 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	sqm	₹ 1,361.60
10.35.2	AC 4 Grade	sqm	₹ 1,636.30
10.36	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.	metre	₹ 255.60
10.37	Providing and fixing MS angle (50 x 50 x 5 mm) to act as nosing with lugs of MS flat 10 x 5 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.	Kg	₹ 82.60
CERAMIC GLAZED TILES			
10.38	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (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 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.	sqm	₹ 677.50

Code No.	Description	Unit	Rate
10.39	Providing and laying 1st quality ceramic glazed floor tiles of approved size conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades as approved by Engineer-in-charge 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 pigment of matching shade complete.		
10.39.1	Ceramic Glazed Tiles 1st quality 300 x 300mm in all shades and designs	sqm	₹ 670.40
10.39.2	Ceramic Glazed Tiles 1st quality 400 x 400mm in all shades and designs	sqm	₹ 786.30
10.39.3	Ceramic Glazed Tiles 1st quality 600 x 600mm in all shades and designs	sqm	₹ 876.40
10.40	Providing and laying rectified glazed ceramic floor tiles 300 x 300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours, shades such as white, ivory, grey, fume red, brown 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 pigment of matching shade complete.	sqm	₹ 837.80
10.41	Providing and laying rectified glazed ceramic floor tiles 300 x 300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades except white, ivory, grey, fume red, brown 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 pigment of matching shade complete.	sqm	₹ 927.90
VITRIFIED FLOOR TILES			
10.42	Providing and laying polished 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 of approved make in all colours, shades 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 pigment of matching shade complete.		
10.42.1	Size of tile 50x50 cm	sqm	₹ 979.40
10.42.2	Size of tile 60x60 cm	sqm	₹ 1,108.20
10.42.3	Size of tile 80x80 cm	sqm	₹ 1,423.70

Code No.	Description	Unit	Rate
10.42.4	Size of tile 100x100 cm	sqm	₹ 2,118.90
10.43	Deduct for not using 20mm thick cement mortar 1:4 (1 cement : 4 fine sand) bedding in laying of floor tiles.	sqm	₹ 322.80
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.	sqm	₹ 379.30
10.45	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, 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 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.		
10.45.1	Size of tile 50x50 cm	sqm	₹ 1,049.30
10.45.2	Size of tile 60x60 cm	sqm	₹ 1,134.30
10.45.3	Size of tile 80x80 cm	sqm	₹ 1,449.80
10.45.4	Size of tile 100x100 cm	sqm	₹ 2,145.10
10.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately)		
10.46.1	Size of tile 50x50 cm	sqm	₹ 1,148.10
10.46.2	Size of tile 60x60 cm	sqm	₹ 1,283.30
10.46.3	Size of tile 80x80 cm	sqm	₹ 1,598.80
10.46.4	Size of tile 100x100 cm	sqm	₹ 2,294.10

Code No.	Description	Unit	Rate
10.47	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).		
10.47.1	Size of tile 50x50 cm	sqm	₹ 1,083.80
10.47.2	Size of tile 60x60 cm	sqm	₹ 1,219.00
10.47.3	Size of tile 80x80 cm	sqm	₹ 1,534.40
10.47.4	Size of tile 100x100 cm	sqm	₹ 2,229.70
10.48	Grouting the joints of flooring tiles 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 50x50 cm	sqm	₹ 191.30
10.48.2	Size of tile 60x60 cm	sqm	₹ 160.30
10.48.3	Size of tile 80x80 cm	sqm	₹ 129.30
10.48.4	Size of tile 100x100 cm	sqm	₹ 93.60
10.49	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	sqm	₹ 6.40
10.50	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.	metre	₹ 134.60

Code No.	Description	Unit	Rate
10.51	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.	sqm	₹ 415.40
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 proportion 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 (1 cement : 2 fine sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishing and cement slurry etc. complete.		
11.52.1	14 mm thick crazy marble stone white, black or as specified	sqm	₹ 935.50
10.53	Providing and fixing Glass mosaic 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.	sqm	₹ 1,839.00
10.54	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.	sqm	₹ 777.90

Code No.	Description	Unit	Rate
10.55	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.	sqm	₹ 527.50
10.56	Providing and laying 500x500x40 mm thick Turf paver (Turf pave 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.	sqm	₹ 1,473.70

BAMBOOWOOD FLOORING

10.57	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 bamboo 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.	sqm	₹ 4,945.10
10.58	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 bamboo 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.	sqm	₹ 4,757.20

Code No.	Description	Unit	Rate
10.59	<p>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 necesasary 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 layate, 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.</p>	sqm	₹ 4,757.90

SUB-HEAD - 11



ROOFING

**SUB HEAD : 11.0 / ROOFING
BASIC RATES**

Code No.	Description	Unit	Rate
0205	Bhisti/Waterman	Day	₹ 300.00
0209	Carpenter 1st class	Day	₹ 425.00
0203	Beldar	Day	₹ 300.00
0212	Coolie/ Helper	Day	₹ 300.00
0216	Foreman	Day	₹ 425.00
0215	Fitter (grade 1)	Day	₹ 380.00
0223	Mason (for plaster of paris work) 1st class	Day	₹ 425.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0227	Painter	Day	₹ 340.00
0218*	Mason (average)	Day	₹ 400.00
0208*	Carpenter (average)	Day	₹ 400.00
11061	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	₹ 45.00
05044	Non - Asbestos multi purpose fibre cement board 6mm thick.	sqm	₹ 282.00
04011	Paving bitumen Grade VG-10 of approved quality	tonne	₹ 36,820.00
11086	White face insulating board:12 mm thick	sqm	₹ 275.00
11031	Natural colour insulating board:12 mm thick	sqm	₹ 242.00
11015	Flame retardant face insulating board: 12 mm thick	sqm	₹ 360.00
08002	Flat pressed 3 layer particle board (medium density) Grade I :12 mm thick	sqm	₹ 364.00
11007	Bright finished or black enameled mild steel screws 40 mm	100 Nos	₹ 69.00
11016	Fuel wood	quintal	
02004	Kerosene oil	litre	₹ 48.00
11060	Roofing paint for iron sheets in red colour	litre	₹ 125.00
12031	Plaster of Paris	kilogram	₹ 6.50
11035	Plug	each	₹ 11.00
02003	Sand (Fine): Selected quarry	cum	₹ 370.00
11021	Galvanised steel plain sheets	quintal	₹ 5,235.00
11064	Standard quality hard board sheet 3 mm thick	sqm	₹ 145.00
11065	Standard quality hard board sheet 4.5 mm thick	sqm	₹ 165.00
05026	Flats up to 10 mm in thickness	quintal	₹ 3,992.00
05029	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	₹ 15.00
11020	Galvanised steel J or L hooks 8 mm dia	10 Nos	₹ 125.00

Code No.	Description	Unit	Rate
05027	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	₹ 22.00
08290	Local teak wood in planks	10 cudm	₹ 350.00
08281	Other wood in planks	10 cudm	₹ 194.00
11017	G.I. Limpet washer	100 Nos	₹ 37.00
11006	Bitumen washer	100 Nos	₹ 32.00
11018	G.I. plain washer for seam bolts	100 Nos	₹ 32.00
04015	Water proofing materials	kilogram	₹ 36.00
05066	Wire nails	kilogram	₹ 66.00
11087	Wire mesh (rabbit)	sqm	₹ 45.00
11036	Polyvinyl chloride sheet 400 micron thick	sqm	₹ 42.00
11019	Galvanised steel corrugated sheets	quintal	₹ 5,635.00
12037	Red oxide Zinc chromate primer	litre	₹ 70.00
11027	Joint filler	kilogram	₹ 30.00
11028	Joint finisher	kilogram	₹ 27.00
11029	Joint tape roll	roll	₹ 115.00
11012	Dash fastener/ Chemical fastener	each	₹ 14.00
11005	All drive screws (for gypsum board)	100 Nos	₹ 65.00
05050	Rawl plug 50 mm (designation 10 no.)	each	₹ 7.00
11014	Expanded polystyrene type N- Normal 50 mm thick	sqm	₹ 135.00
11013	Expanded polystyrene type - SE 50 mm thick	sqm	₹ 165.00
11075	u-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 75 mm dia.	metre	₹ 80.00
11074	u-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 110 mm dia.	metre	₹ 150.00
11073	u-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 75 mm dia.	each	₹ 9.00
11072	u-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 110 mm dia.	each	₹ 14.00
11069	u-PVC coupler for UPVC drainage pipes 75 mm	each	₹ 22.00
11068	u-PVC coupler for UPVC drainage pipes 110 mm	each	₹ 46.00
11079	u-PVC pushfit coupler (single) 75 mm thick	each	₹ 22.00
11078	u-PVC pushfit coupler (single) 110 mm thick	each	₹ 38.00
11083	u-PVC single equal Tee (without door) 75x75x75 mm	each	₹ 54.00
11082	u-PVC single equal Tee (without door) 110x110x110 mm	each	₹ 95.00
11081	u-PVC single equal Tee (with door) 75x75x75 mm	each	₹ 69.00
11080	u-PVC single equal Tee (with door) 110x110x110 mm	each	₹ 108.00

Code No.	Description	Unit	Rate
11067	u-PVC bend 87.5° 75 mm bend	each	₹ 41.00
11066	u-PVC bend 87.5° 110 mm bend	each	₹ 69.00
11077	u-PVC plain shoe 75 mm bend	each	₹ 31.00
11076	u-PVC plain shoe 110 mm bend	each	₹ 55.00
11071	u-PVC pipe clip 75 mm bend	each	₹ 18.00
11070	u-PVC pipe clip 110 mm bend	each	₹ 19.00
11058	Resin Bonded Glass wool 16 kg/m ³ 50 mm thick	sqm	₹ 112.00
11059	Resin Bonded Glass wool 24 kg/m ³ 50 mm thick	sqm	₹ 160.00
11057	Pressed clay tiles	1000 Nos	₹ 10,000.00
11034	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	₹ 130.00
11003	3 mm thick translucent white acrylic plastic sheet	sqm	₹ 590.00
11001	12 thick particle board ceiling tile	sqm	₹ 125.00
19003	PTMT grating 100/110 mm dia.	each	₹ 48.00
19114	PTMT grating 75 mm dia.	each	₹ 40.00
11030	Galvanised Steel Main T ceiling sections 24x38x0.33 mm (3 metre long)	each	₹ 116.00
11033	Galvanised Steel Perimeter wall angle 24x24x0.40 mm (3 metre long)	each	₹ 85.00
11026	Galvanised Steel Intermediate cross T section 24x25x0.33 mm (1.2 mtrs)	each	₹ 39.00
11025	Galvanised Steel Intermediate cross T section 24x25x0.33 mm (0.6 mtrs)	each	₹ 20.00
11023	Hanger rod 4 mm thick	each	₹ 10.00
11004	Adjustment clip 85x30x0.8 mm	each	₹ 6.00
11062	Soffit cleat (Size 27x37x25x1.60 mm)	each	₹ 5.00
11011	Dash fastener 6 mm dia 50 mm long	each	₹ 10.00
11085	UV stabilised 2 mm thick plain FRP sheet .	sqm	₹ 515.00
11084	UV stabilised 2 mm thick corrugated FRP sheet .	sqm	₹ 585.00
11049	Pre-coated galvanised iron profile sheet 0.50 mm TCT	sqm	₹ 400.00
11054	Pre-coated galvanised steel plain ridges/Valley/Gutter/Flashing 0.5mm thick	metre	₹ 245.00
11037	Pre-painted Galvalume sheet 0.40 mm	sqm	₹ 400.00
11038	Pre-painted Galvalume sheet 0.45 mm	sqm	₹ 430.00
11039	Pre-painted Galvalume sheet 0.50 mm	sqm	₹ 515.00
11040	Pre-painted Galvalume sheet 0.60 mm	sqm	₹ 610.00
11041	Pre-painted Galvalume sheet 0.80 mm	sqm	₹ 812.00
11043	Pre-painted Galvalume sheet plain ridges/Valley/Gutter/Flashing 0.4mm thick	metre	₹ 230.00

Code No.	Description	Unit	Rate
11042	Pre-painted Galvalume sheet plain ridges/Valley/Gutter/Flashing 0.45mm thick	metre	₹ 240.00
11044	Pre-painted Galvalume sheet plain ridges/Valley/Gutter/Flashing 0.5mm thick	metre	₹ 282.00
11045	Pre-painted Galvalume sheet plain ridges/Valley/Gutter/Flashing 0.6mm thick	metre	₹ 340.00
11046	Pre-painted Galvalume sheet plain ridges/Valley/Gutter/Flashing 0.8mm thick	metre	₹ 434.00
11002	200G virgin polythene sheet	sqm	₹ 6.00
11088	Resin Bonded Rockwool 48 kg/m3	sqm	₹ 135.00
11089	High Albedo paint	kg	₹ 260.00
11090	Galvanised Steel ceiling sections 80x26x0.5 mm	metre	₹ 53.00
11091	Galvanised Steel Perimeter channel 20x27x30x0.50 mm	metre	₹ 26.00
11092	Galvanised Steel Intermediate channel 15x45x15x0.90 mm	metre	₹ 44.00
11093	Galvanised Steel angle hanger (ceiling angle: 25x10x0.50 mm)	metre	₹ 15.00
11094	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	₹ 5.00
11095	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	₹ 4.00
11096	12.5 mm thick tapered edge gypsum plain borad	sqm	₹ 190.00
11097	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	₹ 6.00
11098	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	₹ 7.00
11099	Primer (for gypsum board)	litre	₹ 80.00
11100	12.5 mm thick tapered edge gypsum fire resistant board	sqm	₹ 287.00
11101	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	₹ 320.00
11102	12.5 mm thick Fully Perforated Gypsum Plaster Board	sqm	₹ 490.00
11103	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	₹ 575.00
11104	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	₹ 675.00
11105	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	₹ 515.00
11106	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	₹ 540.00
11107	Calcium Silicate tegular edged ceiling tiles 495x495 mm and 15 mm thick	sqm	₹ 935.00
11108	8mm thick Calcium silicate perforated tiles of size 595 x595mm	sqm	₹ 735.00

Code No.	Description	Unit	Rate
11109	8 mm thick tapered edge calcium silicate board	sqm	₹ 285.00
11110	15 mm thick, light weight, integral densified micro look edged,false ceiling tiles of size 595x595 mm.	sqm	₹ 990.00
11111	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	₹ 28.00
11112	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	₹ 16.00
11113	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	₹ 35.00
11114	40 mm long S.S screws with plastic rawl plugs	each	₹ 3.50
11115	Powder coated steel section main-T ceiling sections 15x42x0.40 mm (3000 mm long)	each	₹ 248.00
11116	Galvanized mild steel perimeter wall angle 22x19x0.40 mm (3000 mm long)	each	₹ 121.00
11117	Powder coated Galvanised Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long)	each	₹ 100.00
11118	Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40mm (600 mm long)	each	₹ 50.00
11119	15 mm thick, light weight, integral densified micro look edged,false ceiling tiles of size 595x595 mm.	sqm	₹ 990.00
11120	Galvanized iron main-T ceiling sections 15x32x0.33 mm (3000 mm long)	each	₹ 208.00
11121	Galvanized iron intermediate crossT section 15x32x0.33 mm (1200 mm long)	each	₹ 85.00
11122	Galvanized iron intermediate crossT section 15x32x0.33 mm (600 mm long)	each	₹ 38.00
11123	12 mm thick micro tegular edged semi perforated GFRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x 595 mm	sqm	₹ 692.00
11124	12 mm thick micro tegular edged fully perforated GFRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x 595 mm	sqm	₹ 780.00
11125	With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6)	sqm	₹ 865.00
11126	20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7)	sqm	₹ 1,095.00
11127	Mineral fibre beveled tegular edged ceiling tiles 595x595 mm, 16 mm thick with bioblock, confirming to ISO 5 (class 100) specifications	sqm	₹ 945.00
0473	Carriage: Timber	cum	₹ 80.65
0468	Carriage: Steel	tonne	₹ 110.94
0403	Carriage: Brick tiles	1000 Nos	₹ 199.69

Code No.	Description	Unit	Rate
0472	Carriage: Tar bitumen	tonne	₹ 110.94
0425	Carriage: Fine Sand	cum	₹ 142.63
0428	Carriage: G.I.sheet and accessories	tonne	₹ 110.94
0434	Carriage: Plaster of paris	tonne	₹ 110.94

SUB HEAD : 11

ROOFING

Code No.	Description	Unit	Rate
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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 or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.			
11.1.1	0.80mm thick with zinc coating not less than 275gm/m ²	sqm	₹	839.40
11.1.2	0.63mm thick with zinc coating not less than 275gm/m ²	sqm	₹	718.10
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	sqm	₹	14.00
11.2.2	0.63mm thick	sqm	₹	12.30
11.3	Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 square decimeter			
11.3.1	0.80mm thick	sqm	₹	21.50
11.3.2	0.63mm thick	sqm	₹	20.10
11.4	Providing ridges or hips of width 60 cm over all width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers including a coat of approved steel primer and two coats of approved paint complete.			
11.4.1	0.80mm thick with zinc coating not less than 275gm/m ²	m	₹	642.10
11.4.2	0.63mm thick with zinc coating not less than 275gm/m ²	m	₹	574.10
11.5	Providing valleys of 90cm wide overall in plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8mm dia. G.I. limpet and bitumen washers including a coat of approved steel primer and two coats of approved paint complete :			
11.5.1	1.60mm thick with zinc coating not less than 350gm/m ²	m	₹	981.10
11.6	Providing and fixing of 40 cm over all width in plain, G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed in 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	m	₹	437.50

Code No.	Description	Unit	Rate
11.7	Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipes complete.		
11.7.1	0.80mm thick with zinc coating not less than 275gm/m ²	m	₹ 605.20
11.7.2	0.63mm thick with zinc coating not less than 275gm/m ²	m	₹ 528.60
11.8	Providing flat iron brackets 50x3mm size with necessary bolts, nuts and washers etc. for fixing G.S. sheets gutters with purlins.	m	₹ 120.60

MISCELLANEOUS ROOFING WORKS

11.9	Painting top of roofs with bitumen of approved quality at 17kg per 10 sqm impregnated with a coat of fine sand at 60 cudm per 10sqm including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete :		
11.9.1	With residual type petroleum bitumen of penetration 80/100	sqm	₹ 113.00
11.10	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness and of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 fine sand) mixed with 2% integral water proofing compound laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 fine sand) and finished neat complete.	sqm	₹ 664.50
11.11	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 fine sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement : 3 fine sand) and a coat of neat cement rounding the edge and making and finishing the outlet complete.	each	₹ 228.00
11.12	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% Ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.		
11.12.1	2mm thick corrugated (2.5" or 4.2" or 6") or step-down (2"or 3"or 6") as specified.	sqm	₹ 900.40
11.12.2	2mm thick flat	sqm	₹ 806.40

Code No.	Description	Unit	Rate
11.13	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with 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 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	₹ 618.60
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.	m	₹ 368.40
11.15	Supply & installation of pre painted Galvalume sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) in 550mpa steel grade, made out of Cold rolled steel coated with Znic-Aluminium alloy coating of 43.5% Zn, 55% Al and 1.5% Silicon confirming to ASTM A 792/A782M, ASTM A90/A90M, ASTM AS 1937, ASTM A924/A92M, Alloy coating AZ150/AZ100, colour coated with high quality polyester coating, top coated of modified polyester of 20 micron, back side coat of 5 micron, having epoxy primer coat of 5 micron on both side. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins,rafters and trusses and including cutting to size and shape wherever required.		
11.15.1	0.40mm thickness	sqm	₹ 618.60
11.15.2	0.45mm thickness	sqm	₹ 657.80
11.15.3	0.50mm thickness	sqm	₹ 768.80
11.15.4	0.60mm thickness	sqm	₹ 892.90
11.15.5	0.80mm thickness	sqm	₹ 1,156.70

Code No.	Description	Unit	Rate
11.16	Supply & installation of pre painted Galvalume sheets roofing accessories in 550mpa steel steel grade, made out of Cold rolled steel coated with Znic-Aluminium alloy coating of 43.5% Zn, 55% Al and 1.5% Silicon confirming to ASTM A 792/A782M, ASTM A90/A90M, ASTM AS 1937, ASTM A924/A92M, Alloy coating AZ150/AZ100, colour coated with high quality polyester coating, top coated of modified polyester of 20 micron, back side coat of 5 micron, having epoxy primer coat of 5 micron on both side. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation. The sheet shall be fixed using self drilling /self tapping screws with EPDM seal or with polymer coated J or L hooks, bolts and nuts G.I. seam bolts and nuts, G.I. plain and bitumen wishers complete for Ridges/Valley/Gutter/Flashing of width 610mm:		
11.16.1	0.40mm thickness	m	₹ 349.00
11.16.2	0.45mm thickness	m	₹ 361.90
11.16.3	0.50mm thickness	m	₹ 416.20
11.16.4	0.60mm thickness	m	₹ 491.30
11.16.5	0.80mm thickness	m	₹ 612.90

CEILING WORK

11.17	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately):		
11.17.1	12 mm thick natural colour insulating board	sqm	₹ 549.70
11.17.2	12 mm thick White face insulating board	sqm	₹ 594.00
11.17.3	12 mm thick Flame retardant face insulating board	sqm	₹ 708.10
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	sqm	₹ 713.50
11.19	Providing and fixing plain Multipurpose Cement board (High Pressure steam cured) as per IS : 14862 : 2000 with suitable screws for fibre cement board in ceiling etc. complete (frame work to be paid separately) :		
11.19.1	6 mm thick cement board	sqm	₹ 558.40
11.20	Extra for Circular cutting and waste in ceiling with:		
11.20.1	2nd class teak wood planks 20 mm thick	m	₹ 277.80
11.20.2	Natural colour insulating board 12 mm thick	m	₹ 202.80

Code No.	Description	Unit	Rate
11.20.3	White face insulating board: 12 mm thick	m	₹ 208.20
11.20.4	Flame retardant face insulating board: 12 mm thick	m	₹ 222.40
11.20.5	Standard quality hard board sheet: 3 mm thick	m	₹ 186.60
11.20.6	Standard quality hard board sheet: 4.5 mm thick	m	₹ 189.00
11.21	Extra for providing and fixing ceiling to curved surfaces in narrow widths.	sqm	₹ 187.40
11.22	Providing 10mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level over first class wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately) :		
11.22.1	Flat surfaces	sqm	₹ 849.10
11.22.2	Curved surfaces	sqm	₹ 1,144.50
11.23	Extra for any sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.	sqm	₹ 272.30
11.24	Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres height from floor level.	sqm	₹ 99.50
11.25	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		

Code No.	Description	Unit	Rate
	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	sqm	₹ 800.10
11.25.2	12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I.	sqm	₹ 926.70
11.25.3	12.5 mm thick tapered edge gypsum moisture resistant board.	sqm	₹ 969.80
11.25.4	Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % 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.	sqm	₹ 1,191.70
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.		
11.26.1	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.	sqm	₹ 1,171.70

Code No.	Description	Unit	Rate
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.	sqm	₹ 1,302.30
11.26.3	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	sqm	₹ 1,093.40
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.	sqm	₹ 1,126.00
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 polyester baked paint, for		

Code No.	Description	Unit	Rate
	<p>heights, as per specifications, drawings and as directed by Engineer-in-Charge.</p> <p>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.</p>	sqm	₹ 1,646.10
11.28	<p>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 pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.</p>		
11.28.1	<p>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.</p>	sqm	₹ 1,380.60

Code No.	Description	Unit	Rate
11.29	<p>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 chanel 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 direction of the Engineer in charge but excluding the cost of painting with:</p>		
11.29.1	8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.	sqm	₹ 924.10

Code No.	Description	Unit	Rate
11.30	<p>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 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.</p>		
11.30.1	<p>With 15 mm thick tegular edged light weight calcium silicate false ceiling tiles.</p>	sqm	₹ 1,598.80
11.31	<p>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 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.</p>		

Code No.	Description	Unit	Rate
11.31.1	With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles	sqm	₹ 1,791.00
11.32	<p>Providing & fixing false ceiling at all heights with GRG (Glass Fibre Reinforced Gypsum) false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC0.50 to 0.75 as per IS 8225:1987, Non combustible as per BS 476 (part 4)-1970 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15x32 mm of length 3000 mm, cross - T of size 15x32 mm of length 1200 mm and secondary intermediate cross-T of size 15x32 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 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 wood screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.</p>		
11.32.1	With semi perforated 12 mm thick micro tegular edged GRG false ceiling tiles.	sqm	₹ 1,356.60
11.32.2	With fully perforated 12 mm thick micro tegular edged or 10 mm thick square edged GRG false ceiling tiles.	sqm	₹ 1,471.50

Code No.	Description	Unit	Rate
11.33	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 75%, 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 size 24x24X3000 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 mineral fibre false ceiling tile (NRC 0.55 to 0.6).	sqm	₹ 1,582.40
11.33.2	With 20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7).	sqm	₹ 1,882.70
11.33.3	With 16 mm thick beveled tegular mineral fibre Anti-microbial false ceiling tile conforming to ISO 5 (class 100) specifications.	sqm	₹ 1,686.90

THERMAL INSULATION WORK

11.34	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 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.	sqm	₹ 460.50
11.35	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8193. Density 16kg/m ³ , 50mm thick, wrapped in 200G Virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.	sqm	₹ 194.20

Code No.	Description	Unit	Rate
11.36	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m ³ , 50 mm thick, wrapped in 200G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.	sqm	₹ 262.00
11.37	Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Rockwool conforming to IS: 8183, density 48 kg/ m ³ , 50 mm thick, wrapped in 200 G Virgin Polythene bags fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5mm x 24 gauge wire mesh, for top most ceiling of building.	sqm	₹ 429.80
11.38	Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m ³ , 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceiling and held in position by criss- crossing GI wire.	sqm	₹ 222.40
11.39	Providing and fixing thermal insulation with Resin Bonded rock wool conforming to IS: 8183, having density 48 kg/m ³ , 50 mm thick, wrapped in 200 G Virgin Polythene Bags fixed to wall with screws, rawel plug & washers and held and in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.	sqm	₹ 229.10
11.40	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-charge :		
11.40.1	With Type N - Normal 50 mm thick	sqm	₹ 266.80
11.40.2	With Type SE - Self Extinguishing type 50 mm thick	sqm	₹ 304.50
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 strictly 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 performance of SRI and also the durability of coating, all complete as per direction of Engineer-in-Charge.	sqm	₹ 263.90

RAIN WATER PIPES WITH FITTINGS

11.42	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes (working pressure 4 kg/cm ²) conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion:		
11.42.1	Single socketed pipe - 75 mm OD	m	₹ 142.30

Code No.	Description	Unit	Rate
11.42.2	Single socketed pipe - 110 mm OD	m	₹ 239.00
11.43	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion:		
11.43.1	Coupler		
11.43.1.1	75 mm	each	₹ 57.90
11.43.1.2	110 mm	each	₹ 99.00
11.43.2	Single pushfit Coupler		
11.43.2.1	75 mm	each	₹ 57.90
11.43.2.2	110 mm	each	₹ 89.30
11.43.3	Single equal tee without door		
11.43.3.1	75x75x75 mm	each	₹ 107.40
11.43.3.2	110x110x110mm	each	₹ 175.10
11.43.4	Single equal tee with door		
11.43.4.1	75x75x75 mm	each	₹ 125.60
11.43.4.2	110x110x110mm	each	₹ 190.80
11.43.5	Bend 87.5°		
11.43.5.1	75mm	each	₹ 70.00
11.43.5.2	110mm	each	₹ 109.80
11.43.6	Plain shoe		
11.43.6.1	75mm	each	₹ 57.90
11.43.6.2	110mm	each	₹ 92.90
11.44	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water 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.		
11.44.1	75mm	each	₹ 189.80
11.44.2	110mm	each	₹ 191.20
11.45	Providing and fixing to the inlet mouth of rain water pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete.		
11.45.1	75mm	each	₹ 90.30
11.45.2	100mm	each	₹ 100.00

SUB-HEAD - 12



FINISHING WORK

**SUB HEAD : 12.0 / FINISHING WORK
BASIC RATES**

Code No.	Description	Unit	Rate
0205	Bhisti	Day	₹ 300.00
0203	Beldar	Day	₹ 300.00
0212	Coolie	Day	₹ 300.00
0223	Mason (for plaster of paris work) 1st class	Day	₹ 425.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0224	Mate	Day	₹ 300.00
0227	Painter	Day	₹ 340.00
0223	White Washer	Day	₹ 340.00
0218*	Mason (average)	Day	₹ 400.00
12035	Soft water	Litre	₹ 3.00
12025	Indigo	Kg	₹ 65.00
12012	Colouring material	Kg	₹ 75.00
12002	Acrylic distemper 1st quality having VOC content less than 50 gm / litre	Kg	₹ 45.00
12001	Red oxide Zinc chromate primer	Kg	₹ 75.00
12011	Coal Tar	Litre	₹ 35.00
3001	Portland Cement	tonne	₹ 6,100.00
12023	Glue	Kg	₹ 135.00
02004	Kerosene oil	Litre	₹ 48.00
12017	Dehradun white lime	Kg	₹ 7.50
12019	Dry hydrated lime (factory made)	Kg	₹ 320.00
03005	Marble powder	Cum	₹ 3,780.00
03004	Marble chips up to 4mm and downsize White & black	Kg	₹ 541.00
12018	Dry distemper	Kg	₹ 35.00
12027	Oil bound washable distemper/ Acrylic distemper	Kg	₹ 52.00
12026	Linseed oil (double boiled)	Litre	₹ 210.00
12010	Cement primer	Litre	₹ 71.00
12034	Distemper Primer	Litre	₹ 70.00
12030	Pink or grey primer (for wood)	Litre	₹ 94.00
12005	Aluminium paint	Litre	₹ 142.00
12003	Acid proof paint (chocolate or black)	Litre	₹ 230.00
12008	Anticorrosive bituminous paint (black)	Litre	₹ 115.00

Code No.	Description	Unit	Rate
12009	Black Japan Paint	Litre	₹ 110.00
12022	Floor enamel paint in all shades except green	Litre	₹ 130.00
12041	Synthetic enamel paint in black or chocolate shade	Litre	₹ 185.00
12040	Synthetic enamel paint in all shades except black or chocolate shade	Litre	₹ 155.00
12032	Plastic emulsion paint	Litre	₹ 220.00
12045	White lead	Kg	₹ 155.00
12043	Water proofing cement paint	Kg	₹ 44.00
12044	Wax polish (ready made)	Kg	₹ 265.00
12029	Ordinary varnish	Litre	₹ 110.00
12038	Superior copal varnish	Litre	₹ 145.00
12039	Superior spar varnish	Litre	₹ 145.00
12028	Oil type wood preservative	Litre	₹ 155.00
12031	Plaster of Paris	Kg	₹ 6.50
02003	Sand (fine) : Selected quarry	Cum	₹ 370.00
12047	Wood filler (Shellac)	Kg	₹ 330.00
12036	Spirit	Litre	₹ 72.00
12016	Crushed stone 2.36 mm to 12.5 mm size	Cum	₹ 2,850.00
04015	Water proofing materials	Kg	₹ 44.00
12046	Whiting	Kg	₹ 6.50
12006	Aluminium primer	Litre	₹ 95.00
12013	Copper acetate	Kg	₹ 320.00
12024	Hydrochloric acid	Kg	₹ 45.00
12014	Copper chloride	Kg	₹ 310.00
12015	Copper nitrate	Kg	₹ 235.00
12007	Ammonium chloride	Kg	₹ 25.00
12020	Epoxy paint	Litre	₹ 250.00
12021	Fire retardant paint	Litre	₹ 290.00
12004	Acrylic exterior paint	Litre	₹ 185.00
12033	Premium Acrylic smooth exterior paint	Litre	₹ 218.00
12042	Textured exterior paint	Litre	₹ 245.00
12048	White cement based putty	kg	₹ 25.00
12049	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre	litre	₹ 60.00

Code No.	Description	Unit	Rate
12050	Exterior primer	kg	₹ 55.00
12051	Multi Surface Paint	litre	₹ 275.00
12052	Special primer (C.W.)	litre	₹ 160.00
12053	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	litre	₹ 135.00
12054	Ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	litre	₹ 130.00
12055	Water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	litre	₹ 67.00
12056	Silicon and acrylic emulsion	litre	₹ 150.00
12057	Acrylic emulsion, having VOC content less than 50 grams/ litre	litre	₹ 198.00
12058	Premium acrylic emulsion paint of interior grade, having VOC content less than 50 grams/ litre	litre	₹ 225.00
12059	Synthetic enamel paint, having VOC content less than 150 grams/ litre	litre	₹ 214.00
12060	Premixed super white gypsum plaster	kg	₹ 6.00
12061	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	₹ 405.00
0434	Carriage: Plaster of Paris	tonne	₹ 110.94
0455	Carriage: Water proofing material	Kg	₹ 0.13
0455	Carriage: White lime	tonne	₹ 124.80
0455	Carriage: Whiting	tonne	₹ 124.80
0455	Carriage: Lime	tonne	₹ 124.80
0421	Carriage: Cement	tonne	₹ 110.94
0425	Carriage: Fine Sand	Cum	₹ 142.63
0431	Carriage: Marble chips	Cum	₹ 130.51

SUB HEAD : 12.0
FINISHING WORK

Code No.	Description	Unit	Rate
<p>Note :- Rates for external plastic are for height upto 10m from ground level unless otherwise stated.</p> <p>CEMENT PLASTER</p>			
12.1	12 mm cement plaster of mix		
12.1.1	In cement mortar 1 : 3 (1 cement : 3 fine sand)	sqm	₹ 164.80
12.1.2	In cement mortar 1 : 4 (1 cement : 4 fine sand)	sqm	₹ 150.50
12.1.3	In cement mortar 1 : 5 (1 cement : 5 fine sand)	sqm	₹ 142.90
12.1.4	In cement mortar 1 : 6 (1 cement : 6 fine sand)	sqm	₹ 136.30
12.2	15 mm cement plaster on the rough side of single or half brick wall of mix:		
12.2.1	In cement mortar 1 : 3 (1 cement : 3 fine sand)	sqm	₹ 191.80
12.2.2	In cement mortar 1 : 4 (1 cement : 4 fine sand)	sqm	₹ 174.80
12.2.3	In cement mortar 1 : 5 (1 cement : 5 fine sand)	sqm	₹ 165.60
12.2.4	In cement mortar 1 : 6 (1 cement : 6 fine sand)	sqm	₹ 157.80
12.3	20 mm cement plaster of mix :		
12.3.1	In cement mortar 1 : 3 (1 cement : 3 fine sand)	sqm	₹ 231.60
12.3.2	In cement mortar 1 : 4 (1 cement : 4 fine sand)	sqm	₹ 209.60
12.3.3	In cement mortar 1 : 5 (1 cement : 5 fine sand)	sqm	₹ 197.70
12.3.4	In cement mortar 1 : 6 (1 cement : 6 fine sand)	sqm	₹ 187.50
12.4	6 mm cement plaster of mix :		
12.4.1	In cement mortar 1 : 3 (1 cement : 3 fine sand)	sqm	₹ 142.80
12.4.2	In cement mortar 1 : 4 (1 cement : 4 fine sand)	sqm	₹ 135.30
12.5	Neat cement punning.	sqm	₹ 44.30
12.6	6 mm cement plaster in single layer finished with a floating coat of neat cement, curing and a thick coat of lime wash on top when dry on wall bearings for RCC slabs and beams complete.		
12.6.1	In cement mortar 1 : 3 (1 cement : 3 fine sand)	sqm	₹ 207.20
ROUGH CAST PLASTER			
12.7	Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone graded from 6 mm to 10 mm nominal size dashed over and including the fresh plaster in two layers a) Under layer 12 mm cement plaster 1 : 4 (1 cement : 4 fine sand) b) Top layer 10 mm cement plaster 1 : 3 (1 cement : 3 fine sand) mixed with 10% fine grounded hydrated lime by volume of cement and curing complete.		
12.7.1	Ordinary Cement finish using ordinary cement.	sqm	₹ 794.70

Code No.	Description	Unit	Rate
12.8	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	Per bag of 50 kg cement used in the mix	₹ 52.30
12.9	Extra for plastering exterior walls of height more than 10 m from GL for every additional height of 3 m or part thereof complete.	sqm	₹ 35.90
12.10	Extra for plastering on circular work not exceeding 6 m in radius complete.		
12.10.1	In one layer	sqm	₹ 20.90
12.10.2	In two layer	sqm	₹ 31.30
12.11	Extra for plastering done on moulding cornices or architraves including neat finish to line and level.		
12.11.1	In one layer	sqm	₹ 284.30
12.11.2	In two layer	sqm	₹ 470.50
12.12	Extra for plastering:		
12.12.1	In Spherical ceiling	sqm	₹ 73.70
12.12.2	In Groined ceiling	sqm	₹ 79.00
12.12.3	In Flying soffits	sqm	₹ 49.40
12.13	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm	₹ 119.60
12.14	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	₹ 92.00
ARTIFICIAL STONE PLASTER			
12.15	Extra for lining out plaster to imitate stone or concrete blocks walling.	sqm	₹ 52.20
PLAIN CEMENT MORTAR BANDS			
12.16	12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand) in single layer :		
12.16.1	Flush Band	cm. per m.	₹ 3.30
12.16.2	Sunk Band	cm. per m.	₹ 3.60
12.16.3	Raised Band	cm. per m.	₹ 4.00

Code No.	Description	Unit	Rate
12.16.4	Moulded Band	cm. per m.	₹ 6.80
12.17	18 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand) in single layer :		
12.17.1	Flush Band	cm. per m.	₹ 4.00
12.17.2	Sunk Band	cm. per m.	₹ 4.40
12.17.3	Raised Band	cm. per m.	₹ 4.90
12.17.4	Moulded Band	cm. per m.	₹ 9.20
12.18	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.	cm. per m.	₹ 9.10
POINTING OF BRICK WORK			
12.19	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) complete.		
12.19.1	Flush/ruled/Stuck or weathered Pointing	sqm	₹ 100.60
12.19.2	Raised and cut Pointing	sqm	₹ 168.60
12.20	Extra for pointing in brick work on exterior walls at height more than 10 m from ground level for every additional height of 3 m or part thereof complete.	sqm	₹ 8.90
INTERIOR FINISHING			
12.21	White washing with lime to give an even shade New work (three or more coats).	sqm	₹ 20.10
12.22	Colour washing such as green, blue or buff with whiting to give an even shade on new work (two or more coats) complete.		
12.22.1	With a base coat of white washing with lime	sqm	₹ 23.40
12.22.2	With a base coat of whiting	sqm	₹ 23.00

Code No.	Description	Unit	Rate
12.23	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 73.70
12.24	Distempering with oil bound washable distemper of approved brand and manufacture and of required shade on new work (two or more coats), over and including water thinnable priming coat to give an even shade. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 92.60
12.25	Distempering with 1st quality acrylic washable distemper (ready mixed) of approved brand and manufacture and of required shade and colour complete as per manufacturer's specification on new work (two or more coats). [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 54.80
12.26	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]		
12.26.1	One Coat	sqm	₹ 32.20
12.26.2	Two Coats	sqm	₹ 49.50
12.27	Applying one coat of water thinnable cement primer of approved brand and manufacturer on wall surface complete.	sqm	₹ 34.10
EXTERIOR FINISHING			
12.28	Finishing walls with water proofing cement paint of required shade of approved brand and manufacture on new work (two or more coats applied @ 3.84 kg/10 sqm) complete. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 53.30

Code No.	Description	Unit	Rate
12.29	Finishing walls with textured exterior paint of required shade of approved brand and manufacture on 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 complete. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 155.10
12.30	Finishing walls with acrylic smooth exterior paint of required shade of approved brand and manufacture on new work (two or more coats applied @ 1.67 litre/10 sqm) over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm complete. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 92.90
12.31	Finishing walls with premium acrylic smooth exterior paint of required shade of approved brand and manufacture on new work (two or more coats applied @ 1.43 litre/10 sqm) over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm complete. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 93.20
12.32	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : [Payment shall be made after submission of Test Certificate 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 primer applied @ 0.75 ltr /10 sqm	sqm	₹ 100.00
12.32.2	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	sqm	₹ 87.50
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	sqm	₹ 88.60
12.33	Applying priming coat: [Payment shall be made after submission of Test Certificate issued by the Manufacturer]		

Code No.	Description	Unit	Rate
12.33.1	With ready mixed pink primer of approved brand and manufacture on wood work (hard & soft wood).	sqm	₹ 31.90
12.33.2	With ready mixed aluminium primer of approved brand and manufacture on resonous wood and plywood.	sqm	₹ 32.30
12.33.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel, galvanised iron / steel work.	sqm	₹ 26.80
12.33.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel , galvanised iron / steel work (2nd coat).	sqm	₹ 13.70
12.34	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. [Payment shall be made after submission of Test 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	sqm	₹ 36.10
12.34.2	With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	sqm	₹ 31.20
12.34.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	₹ 33.60
12.35	Painting with silicon & acrylic emulsion based water thinnable sealer of approved brand and manufacture on wet or patchy portion of plastered surfaces : [Payment shall be made after submission of Test Certificate issued by the Manufacturer]		
12.35.1	One coat	sqm	₹ 59.00
12.35.2	Two coats	sqm	₹ 95.90
12.36	Finishing with epoxy paint (two or more coats) of approved brand and manufacture at all locations prepared and applied as per manufacturer's specification on new work including appropriate priming coat, preparation of surface etc. complete. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]		
12.36.1	On steel work	sqm	₹ 112.00
12.36.2	On concrete work	sqm	₹ 119.80

Code No.	Description	Unit	Rate
12.37	Painting on G.S. sheet with synthetic enamel paint (two or more coats) of approved brand and manufacture of required colour to give an even shade on new work including a coat of appropriate steel primer but excluding a coat of mordant solution complete.	sqm	₹ 69.90
12.38	Applying a coat of mordant solution on G.S. sheet on new work complete:		
12.38.1	With a solution made of 38 gms of copper acetate in litre of soft water.	sqm	₹ 20.90
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.	sqm	₹ 20.20
12.39	Painting on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint (two or more coats) of approved brand and manufacture to give an even shade on new work over and including a priming coat of zinc chromate yellow primer complete.		
12.39.1	50mm. dia.	Metre	₹ 17.80
12.39.2	75mm. dia.	Metre	₹ 23.80
12.39.3	100mm. dia.	Metre	₹ 31.30
12.39.4	150mm. dia.	Metre	₹ 46.50
12.40	Painting on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint (two or more coats) of required colour of approved brand and manufacture to give an even shade on new work over and including a priming coat of approved steel primer complete.		
12.40.1	50mm. dia.	Metre	₹ 19.00
12.40.2	75mm. dia.	Metre	₹ 25.40
12.40.3	100mm. dia.	Metre	₹ 33.40
12.40.4	150mm. dia.	Metre	₹ 49.50
12.41	Painting on wood work with oil type wood preservative (two or more coats) of approved brand and manufacture on new work complete.	sqm	₹ 33.00
12.42	Providing and applying two coats of fire retardant paint unthinned on cleaned wood/ply surface of required colour of approved brand and manufacture on new work @ 3.5 sqm per litre including preparation of base surface as per recommendation of the manufacturer to make the surface fire retardant.	sqm	₹ 246.30

Code No.	Description	Unit	Rate
12.43	Coal tarring (two or more coats) of approved brand and manufacture on new work @ 0.16 litre and 0.12 coal tar per sqm in the first coat and second coat respectively complete.	sqm	₹ 34.50
12.44	Wall painting with acrylic emulsion paint (two or more coats) of required colour of approved brand and manufacture on new work to give an even shade. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 80.70
12.45	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]		
12.45.1	One coat	sqm	₹ 45.90
12.45.2	Two coats	sqm	₹ 70.10
12.46	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]		
12.46.1	One coat	sqm	₹ 47.20
12.46.2	Two coats	sqm	₹ 74.80
12.47	Painting with synthetic enamel paint (two or more coats) of required colour of approved brand and manufacture on new work to give an even shade. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 73.90
12.48	Painting with synthetic enamel paint (two or more coats) of required colour of approved brand and manufacture on new work to give an even shade over an under coat of suitable shade with ordinary paint of approved brand and manufacture. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 108.20

Code No.	Description	Unit	Rate
12.49	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]		
12.49.1	One coat	sqm	₹ 45.40
12.49.2	Two coats	sqm	₹ 71.90
12.50	Painting with Aluminium paint (two or more coats) of approved brand and manufacture on new work to give an even shade. [Payment shall be made after submission of Test Certificate issued by the Manufacturer]	sqm	₹ 61.50
12.51	Painting with acid proof paint (two or more coats) of approved brand and manufacture of required colour on new work to give an even shade.	sqm	₹ 82.10
12.52	Painting with black anticorrosive bitumastic paint (two or more coats) of approved brand and manufacture on new work to give an even shade.	sqm	₹ 61.00
12.53	Floor painting with floor enamel paint (two or more coats) of approved brand and manufacture of required colour on new work to give an even shade.	sqm	₹ 69.50
12.54	Varnishing with varnish of approved brand and manufacturer.		
12.54.1	Two or more coats of glue with copal varnish over an under coat of flatting varnish.	sqm	₹ 109.90
12.54.2	Two or more coats of glue with spar varnish over an under coat of flatting varnish.	sqm	₹ 111.80
12.55	French spirit polishing (two or more coats of glue sizing) on new work over a coat of wood filler.	sqm	₹ 191.70
12.56	Polishing on wood work with readymade wax polish (two or more coats) of approved brand and manufacture on new work.	sqm	₹ 83.30
12.57	Floor polishing on masonry / concrete floors with readymade wax polish (two or more coats) of approved brand and manufacture on new work.	sqm	₹ 38.00
12.58	Lettering with black japan paint of approved brand and manufacture on new work.	per letter per cm height	₹ 2.40

Code No.	Description	Unit	Rate
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.	sqm	₹ 224.40
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 Per Bag of Polyester triangular fibre for 50 Kgs. cement used in cement mortar as per directions of Engineer-in-Charge.	per Bag of 50 kg of cement	₹ 60.60

SUB-HEAD - 13



REPAIRS TO BUILDING

SUB HEAD : 13.0 / REPAIRS TO BUILDING

BASIC RATES

Code No.	Description	Unit	Rate
0210	Carpenter 2nd class	Day	₹ 380.00
0203	Beldar	Day	₹ 300.00
0212	Coolie	Day	₹ 300.00
0215	Fitter (grade 1)	Day	₹ 380.00
0217	Glazier	Day	₹ 380.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0224	Mate	Day	₹ 300.00
0227	Painter	Day	₹ 340.00
0232	White Washer	Day	₹ 340.00
0205	Waterman	Day	₹ 300.00
0212	Helper	Day	₹ 300.00
0234	Sewerman	Day	₹ 340.00
0233	Technician	Day	₹ 700.00
0228	Skilled Beldar	Day	₹ 380.00
0230	Sprayer (for bitumen, tar etc.)	Day	₹ 340.00
0207	Backsmith 2nd class	Day	₹ 380.00
0117	Hire charge of pump set of capacity 4000 litres/hour	Day	₹ 657.00
0134	Hire Charges of Suction Jeting machine 2200 PSI machine including POL and operator	Day	₹ 37,000.00
0135	Hire charges of Spraying machine including electric charges	Day	₹ 285.00
0136	Air compressor	hour	₹ 230.00
0137	Using cost of Ultra Violet Radiation tube	hour	₹ 230.00
12011	Coal Tar	Litre	₹ 35.00
03001	Cement (portland)	tonne	₹ 6,100.00
11016	Fuel wood	quintal	₹ 400.00
12023	Glue	Kg	₹ 135.00
05033	Hessian cloth	sqm	₹ 28.00
02004	Kerosene oil	litre	₹ 48.00
12017	Dehradun white lime	Kg	₹ 7.50
12018	Dry distemper	Kg	₹ 35.00
12027	Oil bound washable distemper/ Acrylic distemper	Kg	₹ 52.00
12026	Linseed oil (double boiled)	Litre	₹ 210.00
12005	Aluminium paint	Litre	₹ 142.00
12003	Acid proof paint (chocolate or black)	Litre	₹ 230.00
12008	Anticorrosive bituminous paint (black)	Litre	₹ 115.00
12009	Black Japan	Litre	₹ 110.00

Code No.	Description	Unit	Rate
12041	Synthetic enamel paint in black or chocolate shade	Litre	₹ 185.00
12032	Plastic emulsion paint	Litre	₹ 220.00
12045	White lead	Kg	₹ 155.00
12043	Water proofing cement paint	Kg	₹ 44.00
12044	Wax polish (ready made)	Kg	₹ 265.00
12038	Superior copal varnish	Litre	₹ 145.00
12039	Superior spar varnish	Litre	₹ 145.00
12028	Oil type wood preservative	Litre	₹ 155.00
05039	Steel (mild) round bar above 12 mm dia	quintal	₹ 4,010.00
05056	Structural steel such as tees, angles channels and R.S. joists	quintal	₹ 4,267.00
11020	Galvanised steel J or L hooks 8 mm dia	10 Nos	₹ 125.00
11017	G.I. Limpet washer	100 Nos	₹ 37.00
11006	Bitumen washer	100 Nos	₹ 32.00
12046	Whiting	Kg	₹ 6.50
12020	Epoxy paint	Litre	₹ 250.00
12021	Fire retardant paint	Litre	₹ 290.00
13003	Putty for wood work	Kg.	₹ 35.00
08146	Glass panes of 4 mm thick (10.00 kg / sqm).	sqm	₹ 360.00
08147	Glass panes of 5.5 mm thick (13.50 kg/sqm).	Sqm.	₹ 535.00
13005	Local teak wood fillets.	Cum.	₹ 31,465.00
13006	Gamir wood fillets.	Cum.	₹ 34,326.00
13007	Soft wood fillets.	Cum.	₹ 12,960.00
13008	Sal wood batten	Cum.	₹ 29,160.00
13009	Karai wood batten	Cum.	₹ 22,680.00
13010	Soft wood batten	Cum.	₹ 12,960.00
08288	Sal wood beam	Cum.	₹ 45,000.00
08289	Karai wood beam	Cum.	₹ 38,000.00
05017	Bolts and nuts up to 300 mm in length	quintal	₹ 6,749.00
12025	Indigo	Kg	₹ 65.00
12012	Colouring material	Kg	₹ 75.00
12002	1st quality Acrylic washable distemper	Kg	₹ 45.00
12042	Textured exterior paint	Litre	₹ 245.00
12004	Acrylic exterior paint	Litre	₹ 185.00
12033	Premium Acrylic smooth exterior paint	Litre	₹ 218.00
02004	Kerosene oil	litre	₹ 20.00
12022	Floor enamel paint in all shades except green	Litre	₹ 130.00
12023	Glue	Kg	₹ 135.00
12047	Wood filler (Shellac)	Kg	₹ 330.00
12036	Spirit	Litre	₹ 72.00

Code No.	Description	Unit	Rate
13011	Base Jack	each	₹ 168.00
09013	Mild steel tubes hot finished welded type	kg	₹ 56.00
13012	Spigot for standard jointing	kg	₹ 51.00
05023	Double coupler	each	₹ 73.00
13013	Challies	each	₹ 896.00
13014	Cup lock	each	₹ 58.00
19001	Bleaching powder	quantal	₹ 2,400.00
13015	Water for jetting / blowback	1000 litre	₹ 1,000.00
18080	Vitreous china Indian type W.C. pan size 580 mm	each	₹ 420.00
18081	Vitreous china orrisa type W.C. pan size 580 mm	each	₹ 750.00
18084	Vitreous china foot rests 250x125x25 mm	pair	₹ 95.00
18183	Centrifugally sand cast (spun) S&S "P" or "S" trap	each	₹ 420.00
13016	PVC slotted pipe 200 mm dia as per IS: 12818	metre	₹ 785.00
08066	Bright finished or black enameled mild steel screws 40 mm	100 Nos.	₹ 60.00
11012	Dash fastener / Chemical fastener	each	₹ 14.00
13017	Wheel 75 mm dia. 40 mm wide	each	₹ 80.00
05026	Flats upto 10 mm in thickness	quintal	₹ 3,992.00
09022	Welding by electric plant including wages for welder	cm	₹ 2.00
0473	Carriage: Timber/ wooden fillets	Cum	₹ 80.65
0468	Carriage: Steel	Tonne	₹ 110.94
0430	Carriage: Lime	Cum	₹ 130.51
0421	Carriage: Cement	Tonne	₹ 110.94
0472	Carriage: Tar bitumen	Tonne	₹ 110.94
0446	Carriage: Rubbish	Cum	₹ 130.51

SUB HEAD : 13.0
REPAIRS TO BUILDING

Code No.	Description	Unit	Rate
EARTH WORK			
13.1	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	kilo litre ₹	52.99
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 Engineer-in-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.	sqm ₹	169.60
ROUTINE MAINTENANCE WORK			
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).	litre ₹	0.20

Code No.	Description	Unit	Rate
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.	each	₹ 41.50
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.	metre	₹ 225.60
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-Charge.	sqm	₹ 39.00
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 Engineer-in-charge.	each	₹ 153.10
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	each	₹ 926.50

Code No.	Description	Unit	Rate
13.8.2	Orissa pattern W.C Pan of size 580x440 mm	each	₹ 945.80
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.	each	₹ 44.90
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	metre	₹ 1.80
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.	each	₹ 129.20
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.	each	₹ 163.70
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.	Each	₹ 833.10
13.13.2	Window chowkhats.	Each	₹ 490.40
13.13.3	Clerestory Window chowkhats.	Each	₹ 363.20
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.	Each	₹ 123.80

Code No.	Description	Unit	Rate
13.15	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	Each	₹ 453.80
13.16	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:		
13.16.1	Float glass panes of thickness 4 mm	Sqm.	₹ 652.50
13.16.2	Float glass panes of thickness 5.5 mm	Sqm.	₹ 887.90
13.17	Renewing glass panes, with wooden fillets wherever necessary:		
13.17.1	Float glass panes of thickness 4 mm	Sqm.	₹ 700.30
13.17.2	Float glass panes of thickness 5.5 mm	Sqm.	₹ 935.60
13.18	Renewing glass panes and refixing existing wooden fillets:		
13.18.1	Float glass panes of thickness 4 mm	Sqm.	₹ 734.40
13.18.2	Float glass panes of thickness 5.5 mm	Sqm.	₹ 928.20
13.19	Supplying and fixing new wooden fillets wherever necessary:		
13.19.1	Local teak wood fillets.	Metre	₹ 22.60
13.19.2	Gamair wood fillets.	Metre	₹ 23.10
13.19.3	Soft wood fillets	Metre	₹ 19.80
13.20	Renewal of old putty of glass panes (length).	Metre	₹ 14.60
13.21	Refixing old glass panes with putty and nails.	Sqm.	₹ 203.80
13.22	Fixing old glass panes with wooden fillets (excluding cost of fillets).	Sqm.	₹ 224.20
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.	Cum.	₹ 42,032.40

Code No.	Description	Unit	Rate
13.23.2	Karai wood.	Cum.	₹ 19,890.70
13.23.3	Soft wood.	Cum.	₹ 22,066.20
13.24	Renewing wooden beams 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:-		
13.24.1	Not exceeding 4.0 metre in length:-		
13.24.1.1	Sal wood.	Cum.	₹ 58,907.60
13.24.1.2	Karai wood.	Cum.	₹ 50,470.40
13.24.2	Above 4.0 m and upto 5.0 m in length:-		
13.24.2.1	Sal wood.	Cum.	₹ 57,589.10
13.24.2.2	Karai wood.	Cum.	₹ 49,047.20
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.	Each	₹ 162.10
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.	Metre	₹ 79.60
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.	Kg.	₹ 273.20
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.	Sqm.	₹ 588.50

Code No.	Description	Unit	Rate
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	each	₹ 144.40
13.29.2	Wheel above 50 mm dia	each	₹ 158.00
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).	Sqm.	₹ 209.20
13.30.2	With cement mortar 1:4 (1 cement : 4 fine sand).	Sqm.	₹ 191.20
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.	Sqm.	₹ 55.00
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.	Sqm.	₹ 6.00
13.32.2	two or more coat.	Sqm.	₹ 8.30
13.33	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm.	₹ 7.80
13.34	Distemping 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.	Sqm.	₹ 27.10
13.35	Distemping 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.	Sqm.	₹ 29.70

Code No.	Description	Unit	Rate
13.36	Distemping 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.	Sqm.	₹ 21.80
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.	Sqm.	₹ 10.20
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.	Sqm.	₹ 37.50
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.	Sqm.	₹ 82.00
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.	Sqm.	₹ 49.70
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.	Sqm.	₹ 50.30
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.	Sqm.	₹ 58.10
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:-		

Code No.	Description	Unit	Rate
13.43.1	On steel work.	Sqm.	₹ 53.00
13.43.2	On concrete work.	Sqm.	₹ 55.00
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:-	Sqm.	₹ 42.90
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.	Metre	₹ 12.40
13.45.2	75 mm dia.	Metre	₹ 17.10
13.45.3	100 mm dia.	Metre	₹ 22.90
13.45.4	150 mm dia.	Metre	₹ 35.10
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.	Metre	₹ 12.80
13.46.2	75 mm dia.	Metre	₹ 17.70
13.46.3	100 mm dia.	Metre	₹ 23.80
13.46.4	150 mm dia.	Metre	₹ 34.60
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.	Sqm.	₹ 30.10
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 retardant and as required complete as per direction of the Engineer in charge:-	Sqm.	₹ 162.80

Code No.	Description	Unit	Rate
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.	Sqm.	₹ 30.70
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.	Sqm.	₹ 62.20
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.	Sqm.	₹ 44.90
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.	Sqm.	₹ 47.50
13.53	Painting with aluminium 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.	Sqm.	₹ 39.10
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.	Sqm.	₹ 51.60
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.	Sqm.	₹ 39.50
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.	Sqm.	₹ 41.60

Code No.	Description	Unit	Rate
13.57	Varnishing with varnish (one or more coats of glue sizing) of approved brand and manufacture on old work including preparation of surface as required complete as per direction of the Engineer in charge:-		
13.57.1	With copal varnish.	Sqm.	₹ 55.90
13.57.2	With spar varnish.	Sqm.	₹ 55.60
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.	Sqm.	₹ 96.00
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.	Sqm.	₹ 41.80
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.	Sqm.	₹ 19.60
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.	Letter per Cm height	₹ 1.30
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.	Sqm.	₹ 38.50

SUB-HEAD - 14



DISMANTLING
AND
DEMOLISHING

**SUB HEAD : 14.0 / DISMANTLING AND DEMOLISHING WORK
BASIC RATES**

Code No.	Description	Unit	Rate
0210	Carpenter 2nd class	Day	₹ 380.00
0203	Beldar	Day	₹ 300.00
0212	Coolie	Day	₹ 300.00
0215	Fitter (grade 1)	Day	₹ 380.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0224	Mate	Day	₹ 300.00
0212	Helper	Day	₹ 300.00
0205	Waterman	Day	₹ 300.00
0211	Watchman	Day	₹ 300.00
0212	Khalashi	Day	₹ 300.00
0207	Blacksmith 2nd class	Day	₹ 380.00
02004	Kerosene oil	Day	₹ 48.00

SUB HEAD : 14.0**DISMANTLING AND DEMOLISHING WORK****Note:**

- 1 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%.
- 2 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.
- 3 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.

Code No.	Description	Unit	Rate
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.	Cum.	₹ 292.00
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)	Cum	₹ 899.60
14.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	Cum	₹ 571.10
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.	Cum	₹ 1,307.60
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.	Cum	₹ 1,131.00
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.	Sqm.	₹ 471.90
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.	Kg.	₹ 2.80

Code No.	Description	Unit	Rate
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- in-charge:-		
14.7.1	In mud mortar.	Cum	₹ 253.80
14.7.2	In lime mortar.	Cum	₹ 298.60
14.7.3	In cement mortar.	Cum	₹ 717.50
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.	Each	₹ 1.60
14.8.2	In lime mortar.	Each	₹ 1.90
14.8.3	In cement mortar.	Each	₹ 2.40
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.	Each	₹ 135.50
14.9.2	Of area beyond 3 sqm.	Each	₹ 187.90
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.	Each	₹ 48.30
14.10.2	Of area beyond 3 sqm.	Each	₹ 72.00
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.	Mtr.	₹ 6.60
14.11.2	Of sectional area beyond 40 sq cm.	Cum.	₹ 1,643.30
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.	Metre/ metre span	₹ 0.60
14.12.2	Of sectional area beyond 40 sq cm.	Cum/ metre span	₹ 200.60

Code No.	Description	Unit	Rate
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.	Metre/ metre height	₹ 1.20
14.13.2	Of sectional area beyond 40 sq cm.	Cum/ metre height	₹ 296.00
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.	Kg.	₹ 0.90
14.14.2	Channels, angles, tees and flats.	Kg.	₹ 0.50
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.	Kg.	₹ 1.90
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.	Kg.	₹ 1.30
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.	Kg/ metre span.	₹ 0.30
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.	Kg/ metre height.	₹ 0.30
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.	Cum.	₹ 466.60

Code No.	Description	Unit	Rate	
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	sqm	₹	26.60
15.20.2	For thickness of tiles above 25 mm and up to 40 mm	sqm	₹	41.90
14.21	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	₹	90.40
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.	Sqm.	₹	59.00
14.23	Dismantling old plaster or pointing, raking out joints, cleaning and preparing the surface for re-plastering 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.	Sqm.	₹	18.90
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.	Sqm.	₹	8.90
14.25	Dismantling ballies or wooden posts and struts including stacking within 50 metres lead.	metre	₹	7.10
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	each	₹	85.50
14.26.2	RCC	each	₹	110.70
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	Sqm	₹	98.80
14.27.2	Thickness above 40 mm up to 75 mm	Sqm	₹	148.20

Code No.	Description	Unit	Rate
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	metre	₹ 47.40
14.28.2	Above 40 mm nominal bore	metre	₹ 57.40
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-in-charge:		
14.29.1	Up to 150 mm diameter	metre	₹ 160.30
14.29.2	Above 150 mm dia up to 300 mm dia	metre	₹ 209.70
14.29.3	Above 300 mm diameter	metre	₹ 263.50
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.	each	₹ 233.30
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.	each	₹ 140.00
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.	each	₹ 293.10
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.	sqm	₹ 19.90

SUB-HEAD - 15



PILE WORK

**SUB HEAD : 15.0 /PILING WORK
BASIC RATES**

Code No.	Description	Unit	Rate
0111	Hire and running charges of tipper	Day	₹ 2,250.00
0110	Hire and running charges of loader.	Day	₹ 5,250.00
0108	Hire and running charges of hydraulic piling rig with power unit etc.including complete accessories and shifting at site.	Day	₹ 34,000.00
0109	Hire and running charges of light crane.	Day	₹ 2,484.00
0106	Hire and running charges of bentonite pump.	Day	₹ 4,200.00
0112	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories.	Day	₹ 35,000.00
0107	Hire and running charges of crane 20 tonne capacity.	Day	₹ 10,091.00
0131	Hire and running charges of of Tripod and Mechanical Winch machine complete with power unit and accessories.	Day	₹ 2,200.00
0132	Hire and running charges of drill machine upto 400 mm dia. (including cost of mobil oil, diesel consumption in ordinary soil and operator)	Day	₹ 7,900.00
0133	Pile integrity testing equipment	Day	₹ 3,000.00
0203	Beldar	Day	₹ 300.00
0225	Mistry	Day	₹ 380.00
0233	Technician	Day	₹ 700.00
0212	Helper	Day	₹ 300.00
15001	C.I. pile shoe.	kg	₹ 59.00
15002	M.S. clamps for pile shoe.	kg	₹ 52.00
15003	Bentonite.	tonne	₹ 3,220.00
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.	Per Test	₹ 29,250.00
15005	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	Per Test	₹ 39,000.00

Code No.	Description	Unit	Rate
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	₹ 48,950.00
15007	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.	Per Test	₹ 14,985.00
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	₹ 23,865.00
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	₹ 29,970.00
15010	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.	Per Test	₹ 14,985.00
15011	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile above 50 tonne capacity.	Per Test	₹ 23,865.00
0468	Carriage: Steel	Tonne	₹ 110.94
0407	Carriage: Cast iron fittings	Tonne	₹ 110.94
0455	Carriage: Bentonite	Tonne	₹ 124.80

SUB HEAD : 15.0

PILE WORK

Note:

- 1 *Pile driving rigs including vibratory hammers are assumed to be self contained with power units and necessary accessories required for driving.*
- 2 *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.*
- 3 *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.*
- 4 *The levelling course below the pile cap is proposed with M15 grade concrete.*
- 5 *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.*
- 6 *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.*

Code No.	Description	Unit	Rate
15.1	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):		
15.1.1	400 mm dia piles.	Metre	₹ 2,414.80
15.1.2	450 mm dia piles.	Metre	₹ 2,969.00
15.1.3	500 mm dia piles.	Metre	₹ 3,602.50
15.1.4	550 mm dia piles.	Metre	₹ 4,010.80
15.1.5	600 mm dia piles.	Metre	₹ 4,767.10
15.1.6	750 mm dia piles.	Metre	₹ 6,894.30

Code No.	Description	Unit	Rate
15.2	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using Direct Mud Circulation (DMC) or Bailer and Chisel Technique by Tripod and Mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads. (Length of pile for payment shall be measured upto bottom of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Boring Machine shall not be used.		
15.2.1	450 mm dia piles.	Metre	₹ 2,034.80
15.2.2	500 mm dia piles.	Metre	₹ 2,444.20
15.2.3	550 mm dia piles.	Metre	₹ 2,887.20
15.2.4	600 mm dia piles.	Metre	₹ 3,355.70
15.2.5	750 mm dia piles.	Metre	₹ 5,229.80
15.3	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by Crawler Mounted, telescopic boom hydraulic piling Rig all complete, including removal of excavated earth with all its lifts and leads. (Length of pile for payment shall be measured upto bottom of pile cap). Note: Truck Mounted rotary / TMR / Tubewell Boring Machine shall not be used.		
15.3.1	600 mm dia piles.	Metre	₹ 4,693.00
15.3.2	750 mm dia piles.	Metre	₹ 6,882.40
15.3.3	1000 mm dia piles.	Metre	₹ 11,539.50
15.3.4	1200 mm dia piles.	Metre	₹ 13,869.90
15.3.5	1500 mm dia piles.	Metre	₹ 20,205.70

Code No.	Description	Unit	Rate
15.4	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under 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 including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete as per specification & the direction of Engineer in-charge (Length of pile for payment shall be measured upto to the bottom of pile cap) :-		
15.4.1	300 mm dia piles.	Metre	₹ 2,360.90
15.4.2	400 mm dia piles.	Metre	₹ 3,091.30
15.4.3	450 mm dia piles.	Metre	₹ 3,529.90
15.4.4	500 mm dia piles.	Metre	₹ 4,018.90
15.4.5	550 mm dia piles.	Metre	₹ 4,610.10
15.5	Extra over item No. 15.4 for boring, providing and installing cast-in-situ additional bulb in under reamed reinforced cement concrete piles, under specified diameter as per specification & the direction of Engineer in-charge (only the quantity of extra bulbs are to be paid):-		
15.5.1	300 mm dia piles.	Each	₹ 1,600.00
15.5.2	400 mm dia piles.	Each	₹ 1,909.00
15.5.3	450 mm dia piles.	Each	₹ 2,095.10
15.5.4	500 mm dia piles.	Each	₹ 2,314.30
15.5.5	550 mm dia piles.	Each	₹ 2,361.20
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 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):-		
15.6.1	400 mm dia piles.	Metre	₹ 3,019.60

Code No.	Description	Unit	Rate
15.6.2	450 mm dia piles.	Metre	₹ 3,479.70
15.6.3	500 mm dia piles.	Metre	₹ 3,993.60
15.6.4	550 mm dia piles.	Metre	₹ 4,561.90
15.6.5	600 mm dia piles.	Metre	₹ 5,181.20
15.6.6	750 mm dia piles.	Metre	₹ 9,832.70
15.7	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge:-		
	<i>Note: 1. Initial and Routine Load Test shall be carried out by Dynamic Method of Testing</i>		
	<i>Note: 2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-Charge.</i>		
15.7.1	Single pile upto 50 tonne safe capacity		
15.7.1.1	Initial test (Test Load 2.5 times the safe Capacity).	per test	₹ 34,993.10
15.7.1.2	Routine test (Test Load 1.5 times the safe Capacity).	per test	₹ 17,927.20
15.7.2	Single pile above 50 tonne and upto 100 tonne safe capacity pile:-		
15.7.2.1	Initial test (Test Load 2.5 times the safe Capacity).	per test	₹ 46,657.50
15.7.2.2	Routine test (Test Load 1.5 times the safe Capacity).	per test	₹ 28,550.80
15.7.3	Group of two or more piles upto 50 tonne safe capacity		
15.7.3.1	Initial test (Test Load 2.5 times the safe Capacity).	per test	₹ 58,561.10
15.7.3.2	Routine test (Test Load 1.5 times the safe Capacity).	per test	₹ 35,854.50
15.8	Cyclic vertical load testing of pile in accordance with IS Code of practice IS: 2911 (part IV) by Kentledge method including preparation of pile head etc. for.		
15.8.1	Single Pile:-		
15.8.1.1	Upto 50 tonne Safe capacity pile.	per test	₹ 17,927.20
15.8.1.2	Above 50 tonne and upto 100 tonne Safe capacity pile.	per test	₹ 28,550.80
15.8.2	Group of two or more piles:-		
15.8.2.1	Upto 400 tonne safe capacity pile of group	per test	₹ 35,854.50

Code No.	Description	Unit	Rate
15.9	Lateral load testing of single pile in accordance with IS Code of practice IS : 2911 (Part IV) for determining safe allowable lateral load on pile as per specification & the direction of Engineer in-charge :-		
15.9.1	Upto 50 tonne capacity pile.	per test	₹ 17,927.20
15.9.2	Above 50 tonne and upto 100 tonne capacity pile.	per test	₹ 28,550.80
15.10	Integrity testing of Pile using Low Strain / Sonic Integrity / Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top bt removing soil, mud, dust and chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test and submission of results, all complete as per direction of Engineering-in-Charge.	per test	₹ 878.50

Note: The inclusion of the above item in the schedule of work shall judiciously decided by the technical sanctioning authority, keeping in view the quality control, type of soil strata and importance of the project.

SUB-HEAD - 16



ALUMINIUM WORK &
STRUCTURAL GLAZING

**SUB HEAD : 16.0 / ALUMINIUM WORK & STRUCTURAL GLAZING
BASIC RATES**

Code No	Description	Unit	Rate
0201	Bandhani	Day	₹ 300.00
0209	Carpenter 1st class	Day	₹ 425.00
0210	Carpenter 2nd class	Day	₹ 380.00
0203	Beldar	Day	₹ 300.00
0215	Fitter (grade 1)	Day	₹ 380.00
0217	Glazier	Day	₹ 380.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0224	Mate	Day	₹ 300.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	₹ 380.00
0218*	Mason (average)	Day	₹ 400.00
0212	Helper	Day	₹ 300.00
08056	Chromium plated Brass screws 20 mm	100 Nos	₹ 108.00
11021	Galvanised steel plain sheets	quintal	₹ 5,440.00
08146	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	₹ 360.00
08147	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm).	sqm	₹ 535.00
08291	Float glass sheet of nominal thickness 8 mm.(weight not less than 20 kg/sqm).	sqm	₹ 680.00
10006	Aluminium Strip 40 mm wide and 2 mm thick	Kg	₹ 230.00
08166	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	₹ 295.00
08169	Dash fastener/ Chemical fastener	each	₹ 30.00
05050	Rawl plug 50 mm (designation 10 no.)	each	₹ 7.00
16001	Aluminium T or L sections	kilogram	₹ 220.00
08202	Expandable fastener with plastic sleeve and M.S. screws. 32 mm long	each	₹ 12.00
16014	Cadmium plated full threaded steel screws (30x4 mm dia.)	100 Nos	₹ 35.00
16011	Aluminium washer 2 mm thick 15 mm dia	100 Nos	₹ 11.00
16015	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	₹ 60.00
16012	Anodising 15 microns on aluminium sections	kilogram	₹ 40.00
16020	Neoprene/EPDM rubber gasket	metre	₹ 30.00
16013	Anodising 25 microns on aluminium sections	kilogram	₹ 50.00
16022	Powder coating 50 microns on aluminium sections.	kilogram	₹ 64.00
16021	Polyester powder coating 50 microns on aluminium sections	kilogram	₹ 70.00

Code No	Description	Unit	Rate
16017	Double action hydraulic floor spring with stainless steel cover plate	each	₹ 1,650.00
16002	6 mm dia. G.I. adjustable hangers including clips (up to 1.2 m length)	each	₹ 33.00
16016	Double action hydraulic floor spring with brass cover plate	each	₹ 1,780.00
08215	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)12 mm thick	sqm	₹ 785.00
08218	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)12 mm thick	sqm	₹ 815.00
16023	Silicon sealant.	cartridge	₹ 350.00
16024	Stainless steel screws 30mm x4mm.	cent	₹ 38.00
16018	Hermetically sealed double glazed unit made with 6mm thick clear float glass both side having 12 mm air gap.	sqm	₹ 2,200.00
16026	Stainless steel (SS 304 grade) adjustable friction window stay. 205 x19mm	each	₹ 200.00
16025	Stainless steel (SS 304 grade) adjustable friction window stay 255 x19mm	each	₹ 235.00
16027	Stainless steel (SS 304 grade) adjustable friction window stay. 355 x19mm	each	₹ 295.00
16028	Stainless steel (SS 304 grade) adjustable friction window stay. 510 x19mm	each	₹ 530.00
16029	Stainless steel (SS 304 grade) adjustable friction window stay. 710 x19mm	each	₹ 935.00
16019	Masking tape.	metre	₹ 3.00
16003	Aluminium casement window fastener (Anodised AC 15)	each	₹ 42.00
16005	Aluminium casement window fastener (powder coated).	each	₹ 46.00
16004	Aluminium casement window fastener (polyester powder coated).	each	₹ 50.00
16006	Aluminium round shape handle (anodised AC 15)	each	₹ 53.00
16008	Aluminium round shape handle (powder coated)	each	₹ 57.00
16007	Aluminium round shape handle (polyester powder coated).	each	₹ 66.00
16030	Stainless steel screws 25mm x4mm	cent	₹ 42.00
08107	Anodised Aluminium butt hinges 100 x 75 x 4 mm size	10 Nos.	₹ 630.00
16031	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	₹ 14.00
16032	Aluminium Grill	kg	₹ 255.00

Code No	Description	Unit	Rate
16033	Toughened glass 12 mm thickness	sqm	₹ 1,900.00
16034	Structural sealant	metre	₹ 33.00
16035	Spacer tape 6.4 mm thick x 6 mm wide	metre	₹ 22.00
16036	Weather Sealant - Non Staining (600 ml)	each	₹ 465.00
16037	Weather Sealant - Normal (300 ml)	each	₹ 162.00
16038	MS Brackets / Aluminium Alloy Brackets	kg	₹ 110.00
16039	Silicon gasket in kg (above 50 g/m)	kg	₹ 600.00
16040	EPDM gasket in kg (above 60 g/m)	kg	₹ 165.00
16041	Anchor Fastner - M10	each	₹ 12.00
16042	SS Bolt with washer of sizes for structural glazing / ACP cladding	each	₹ 39.00
16043	SS Screws of sizes for structural glazing / ACP cladding	each	₹ 5.00
16044	Protective Tape	metre	₹ 22.00
16045	GI flashing - 1.2 mm Thick	kg	₹ 65.00
16046	6 mm thick High performance glass	sqm	₹ 1,985.00
16047	6 mm thick clear heat strengthened glass	sqm	₹ 685.00
16048	6 mm thick clear heat strengthened glass	each	₹ 135.00
16049	ARMS GS HD- Top Hung - 20" - Type P - Couple	pair	₹ 1,705.00
16050	Connection Block or vision glass panel	each	₹ 42.00
16051	Curtain wall striker for vision glass panel	each	₹ 110.00
16052	Adjustable fastening pawl for vision glass panel	each	₹ 42.00
16053	Corner drive for vision glass panel	each	₹ 320.00
16054	Top wedge block for vision glass panel	each	₹ 148.00
16055	Glass wool of density @ 48 kg / cum with black glass tissue (BGT)	sqm	₹ 253.00
16056	SS Screws - #8 x 19	each	₹ 11.00
16057	Weather Sealant - DC 789	cartridge	₹ 143.00
16058	Cement Board	sqm	₹ 275.00
16059	Baker rod	metre	₹ 5.50
16060	4 mm thick ACP	sqm	₹ 1,100.00
16061	3 mm thick ACP	sqm	₹ 865.00
16062	Fire stop	metre	₹ 585.00
16063	GI / Aluminium Sheet (0.8 mm thick)	kg	₹ 50.00
16064	4 point façade glass bracket without flat head bolts	each	₹ 3,540.00

Code No	Description	Unit	Rate
16065	2 point façade glass bracket (wall mounted without flat head bolts)	each	₹ 1,775.00
16066	1 point façade glass bracket (wall mounted without flat head bolts)	each	₹ 1,390.00
16067	Flate head bolt for brackets of spider glazing	each	₹ 690.00
16068	400 mm long fin plate without fastners	pair	₹ 6,345.00
16069	Stainless steel U Channel of size (50x25x2mm)	metre	₹ 153.00
16070	Non staining water resistant clear silicon	metre	₹ 64.00
16071	21mm thick clear toughened Laminated glass for fins with holes	sqm	₹ 6,400.00

SUB HEAD : 16.0**ALUMINIUM WORK**

Code No.	Description	Unit	Rate
16.1	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 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).	Kg.	₹ 367.10
16.1.1.2	Powder coated aluminium (minimum thickness of powder coating of 50 micron).	Kg.	₹ 396.80
16.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating of 50 micron).	Kg.	₹ 404.20
16.1.2	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).	Kg.	₹ 426.90
16.1.2.2	Powder coated aluminium (minimum thickness of powder coating of 50 micron).	Kg.	₹ 457.30
16.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating of 50 micron).	Kg.	₹ 464.80
16.2	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 :-		

Code No.	Description	Unit	Rate
16.2.1	Prelaminated particle board of approved quality with decorative lamination on one side and balancing lamination on other side.	Sqm.	₹ 1,107.40
16.2.2	Prelaminated particle board of approved quality with decorative lamination on both side.	Sqm.	₹ 1,145.10
16.3	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)	Sqm.	₹ 881.40
16.3.2	With float glass panes of 5.5 mm thickness (weight not less than 13.50 kg / sqm)	Sqm.	₹ 1,113.20
16.3.3	With float glass panes of 8 mm thickness (weight not less than 20 kg / sqm)	Sqm.	₹ 1,305.90
16.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed 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	Each	₹ 2,132.30
16.4.2	With CP brass cover plate minimum 1.25 mm thickness	Each	₹ 2,287.80
16.5	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):-	Kg.	₹ 476.50

Code No.	Description	Unit	Rate
16.6	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.	Each	₹ 128.40
16.7	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)	Kg.	₹ 470.30
16.7.2	Powder coated aluminium sheet of 2.5 mm thick (minimum thickness of powder coating of 50 micron).	Kg.	₹ 501.20
16.8	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.	Metre	₹ 90.60
16.9	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.	Sqm.	₹ 3,514.00
16.10	Providing and fixing stainless steel (SS 304 grade) adjustable friction window stay of approved quality 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	Each	₹ 247.60
16.10.2	255 x 19 mm.	Each	₹ 288.60

Code No.	Description	Unit	Rate
16.10.3	355 x 19 mm.	Each	₹ 359.00
16.10.4	510 x 19 mm.	Each	₹ 634.60
16.10.5	710 x 19 mm.	Each	₹ 1,120.60
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).	Each	₹ 54.80
16.11.2	Powder coated aluminium minimum thickness 50 micron.	Each	₹ 59.50
16.11.3	Polyester powder coated aluminium minimum thickness 50 micron.	Each	₹ 64.20
16.12	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:-		
16.12.1	Anodised aluminium of grade AC 15).	Each	₹ 67.80
16.12.2	Powder coated aluminium minimum thickness 50 micron.	Each	₹ 72.50
16.12.3	Polyester powder coated aluminium minimum thickness 50 micron.	Each	₹ 83.20
16.13	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:-		
16.13.1	Anodised aluminium of grade AC 15).	Each	₹ 509.90
16.13.2	Powder coated aluminium minimum thickness 50 micron.	Each	₹ 556.30
16.13.3	Polyester powder coated aluminium minimum thickness 50 micron.	Each	₹ 567.90
16.14	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.	Each	₹ 435.00
16.15	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.	Kg.	₹ 343.90

Code No.	Description	Unit	Rate
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.	Kg.	₹ 11.80
16.17	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).	Kg.	₹ 414.80
16.18	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-in-charge (Door handle, lock and stopper etc.to be paid separately).	Sqm.	₹ 5,327.70

STRUCTURAL GLAZING

16.19	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).	Kg.	₹ 343.60
16.20	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:		

Code No.	Description	Unit	Rate
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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 Dimensional 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 separator 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.

Code No.	Description	Unit	Rate
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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 accredited 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.

Code No.	Description	Unit	Rate
	(2) <i>Static Water Penetration Test. (50pa to 1500pa) as per ASTM E- 331-09 testing method for a range up to 2000 ml.</i>		
	(3) <i>Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml.</i>		
	(4) <i>Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm.</i>		
	(5) <i>Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test. Tests to be conducted on site.</i>		
	(6) <i>Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml.</i>	Sqm	₹ 2,622.30
16.21	<p>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 strengthened 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.”</p> <p>(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.</p>	Sqm.	₹ 4,169.90

Code No.	Description	Unit	Rate
16.22	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.	Sqm.	₹ 3,219.40
16.23	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.	Sqm.	₹ 1,778.40
16.24	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.	Sqm.	₹ 3,162.50

Code No.	Description	Unit	Rate
16.25	<p>Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including:</p> <p>(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.</p> <p>(b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic 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.</p> <p>(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.</p> <p>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."</p>		
16.25.1	4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick).	Sqm.	₹ 3,527.80

Code No.	Description	Unit	Rate
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).	Sqm.	₹ 2,996.90
16.26	<p>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.</p> <p>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.</p>	Sqm.	₹ 7,245.50

SUB-HEAD - 17



WATER PROOFING AND
REHABILITATION WORK

SUB HEAD : 17.0 / WATER PROOFING AND REHABILITATION WORK

BASIC RATES

Code No.	Description	Unit	Rate
0125	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	₹ 175.00
0129	Vibrator (Needle type 40mm)	per day	₹ 436.00
0138	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	per day	₹ 1,350.00
0139	Compressor, gun, rubber pipes & other accessories-hire charge of plant & machinery i/c necessary fuel	per day	₹ 5,000.00
0140	Hire charges of Drill machine upto 30 mm dia	per day	₹ 185.00
0141	Hire charges of sand blasting equipment	per day	₹ 500.00
0142	Hire charges of compressor	per day	₹ 750.00
0143	Welding charges of shear key to existing reinforcement	each	₹ 2.50
0144	Hire charges of plant and Machinery that can inject 350 kg/day	per day	₹ 125.00
0203	Beldar	Day	₹ 300.00
0205	Bhisti/Waterman	Day	₹ 300.00
0207	Blacksmith 2nd class	Day	₹ 380.00
0212	Coolie	Day	₹ 300.00
0215	Fitter (grade 1)	Day	₹ 380.00
0216	Foreman	Day	₹ 425.00
0218*	Mason (average)	Day	₹ 400.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0222	Mason (for plain stone work) 2nd class	Day	₹ 380.00
0224	Mate	Day	₹ 300.00
0225	Mistry	Day	₹ 380.00
0226	Operator (Pile/Machine/Special Machine)	Day	₹ 425.00
0227	Painter	Day	₹ 340.00
0228	Skilled Beldar (for floor rubbing etc.)	Day	₹ 380.00
0229	Skilled torch operator for laying tack	Day	₹ 425.00
0235	Nozzleman / Gunman	Day	₹ 425.00
0236	Pump Operator	Day	₹ 425.00
0237	Helper (Technician)	Day	₹ 340.00
20038	Brick Aggregate (Single size) : 63 mm nominal size	cum	₹ 2,500.00
04006	Stone Aggregate (Single size) : 20 mm nominal size	cum	₹ 3,969.00
04007	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	₹ 4,005.00

Code No.	Description	Unit	Rate
04008	Stone Aggregate (Single size) : 10 mm nominal size	cum	₹ 4,040.00
05006	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	₹ 36,820.00
17002	Bituminous solution primer of approved quality	litre	₹ 60.00
17001	Bitumen felt fibre base (vegetable or animal) : As per IS 7193 Grade I	sqm	₹ 85.00
17009	Bitumen felt as per IS 7193 Grade II	sqm	₹ 95.00
06003	Bitumen felt :Type 3 Grade I	Sqm	₹ 85.00
03001	Cement (Portland)	tonne	₹ 6,100.00
04012	Coal (steam)	quintal	₹ 890.00
02003	Sand (fine) : Selected quarry	cum	₹ 370.00
17010	Kota stone slab 25mm thick (rough chiseled)	Sqm	₹ 300.00
04009	Stone grit 6 mm and down size or pea sized gravel	cum	₹ 3,750.00
04015	Water proofing materials	kg	₹ 36.00
17004	Fuel-LPG	kg	₹ 75.00
11036	Polyvinyl chloride sheet 400 micron thick	sqm	₹ 50.00
17011	Fibre glass tissue reinforcement Type II Grade I	sqm	₹ 105.00
17012	Water stops serrated with central bulb (225mm wide, 8-11 mm thick)	metre	₹ 255.00
17013	Water stops dumb bell with central bulb	metre	₹ 200.00
17014	Kickers	metre	₹ 235.00
17015	APP modified polymeric felt (two layers) 1.5mm thick	sqm	₹ 90.00
17016	APP modified polymeric felt (two layers) 2mm thick	sqm	₹ 120.00
17003	APP modified 2mm thick membrane reinforced with glass fibre matt	sqm	₹ 120.00
17005	APP modified 3mm thick membrane reinforced with glass fibre matt	sqm	₹ 240.00
17007	APP modified 3mm thick membrane reinforced with non-woven polyester matt	sqm	₹ 245.00
17017	Bitumen primer for bitumen membrane	litre	₹ 110.00
17006	Geotextile 120 grams per sqm non-woven membrane, 100% polyester of thickness 1 to 1.25mm	sqm	₹ 55.00
17018	Polymer modified cementation coating	kg	₹ 170.00
17019	Fibre glass cloth	sqm	₹ 55.00
17020	Fibre reinforced elastomeric liquid waterproofing membrane	litre	₹ 240.00
17021	Integral Crystalline Slurry	kg	₹ 325.00
17022	Crystalline Mortar	kg	₹ 300.00
17023	Swellable type water stop tape (Crystalline sealing compound)	metre	₹ 500.00
17024	Swellable type water stop primer	litre	₹ 2,100.00

Code No.	Description	Unit	Rate
17025	Cementitious water proofing coating with elastic polymers	kg	₹ 225.00
17026	Chemical Rust Remover	litre	₹ 240.00
17027	Epoxy	kg	₹ 660.00
17028	SBR Polymer	kg	₹ 215.00
17029	Wooven PVC cloth	sqm	₹ 30.00
17030	Hard drawn steel wire fabric size 75 x 25 mm mesh of weight not less than 7.75 kg/sqm	sqm	₹ 480.00
17031	Adhesive chemical	ml	₹ 3.00
17032	Bit of drilling machine for Hole upto 30mm dia	each	₹ 570.00
17033	GI injection nipple 12mm dia, 75mm long	each	₹ 50.00
17034	Blowing compressed air for cleaning holes upto 30mm dia	each	₹ 12.00
17035	L shaped 100mm long, 10mm dia mild steel shear key	kg	₹ 80.00
17036	Acrylic Polymer chemical for cracks	kg	₹ 35.00
0467	Carriage : Steam coal	tonne	₹ 110.94
0405	Carriage : Brick/ Stone aggregate below 40 mm nominal size	cum	₹ 159.75
0404	Carriage : Brick/ Stone aggregate 40 mm nominal size and above	cum	₹ 172.74
0469	Carriage : Stone blocks white & red sand stone & kota stone slab	tonne	₹ 110.94
0421	Carriage : Cement/ Water proofing compound	tonne	₹ 110.94
0425	Carriage : Sand (fine) : Selected quarry	cum	₹ 142.63
0472	Carriage : Tar/ Bitumen	tonne	₹ 110.94

WATER PROOFING AND REHABILITATION WORK

Note:

- 1 *Description of items has been given very briefly. Relevant clauses of CPWD's specifications may be referred for detailed specification. The following BIS codes are also related to water proofing treatment of buildings:-
(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).*
- 2 *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.*
- 3 *Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage.*

Code No.	Description	Unit	Rate
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- 17.1 Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of :
- (i) 1st layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement : 3 fine sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound.
- (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 cu dm/sqm thoroughly embedded in the 2nd layer.
- [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]

17.1.1 Using rough kota stone. sqm ₹ 1,009.70

Code No.	Description	Unit	Rate
17.2	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 : [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]		
17.2.1	Using rough kota stone.	sqm	₹ 1,227.80
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 joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/ sqm). [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]	sqm	₹ 504.10
17.4	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints 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:		
17.4.1	Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	₹ 312.30
17.4.2	Dumb bell with central bulb (180 mm wide, 8 mm thick)	metre	₹ 246.50
17.4.3	Kickers (320 mm wide, 5 mm thick)	metre	₹ 295.60

Code No.	Description	Unit	Rate
17.5	<p>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 :</p> <p>(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.</p> <p>(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.</p> <p>[Payment shall be made after submission of the product performance shall carry guaranteed for 5 years against any leakage]</p>	sqm	₹ 289.90
17.6	<p>Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound, as directed by Engineer-in-Charge and consisting of applying :</p> <p>(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.</p> <p>(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.</p> <p>(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/sqm and fine sand @ 1.289 kg/sqm. 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 around.</p> <p>(d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately).</p> <p>[Payment shall be made after submission of the product performance shall carry guaranteed for 7 years against any leakage]</p> <p>For the purpose of measurement the entire treated surface will be measured.</p>	sqm	₹ 429.00
17.7	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, as directed by Engineer-in-Charge and consisting of following operations:</p> <p>(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</p>		

Code No.	Description	Unit	Rate
	<p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test.</p> <p>[Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]</p> <p>All above operations to be done in order and as directed and specified by the Engineer-in-Charge :</p>		
17.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	sqm	₹ 1,149.80
17.8	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 : 1322	sqm	₹ 349.90

Code No.	Description	Unit	Rate
17.9	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. [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]	sqm	₹ 554.70
17.10	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. [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]	sqm	₹ 603.30
17.11	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. [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]	sqm	₹ 630.30
17.12	Supplying and applying bituminous solution primer on roof and / or wall surface at 0.24 litre per sqm. as required as per direction of the Engineer-in-charge.	sqm	₹ 31.90
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	sqm	₹ 50.90
17.13.2	at 8 cudm per sqm	sqm	₹ 67.90

Code No.	Description	Unit	Rate
17.14	Grading roof for water proofing treatment [Payment shall be made after submission of the product performance shall carry guaranteed for 7 years against any leakage] complete as required as per direction of the Engineer-in-charge with :		
17.14.1	Cement concrete 1:2:4 (1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size)	cum	₹ 8,211.20
17.14.2	Cement mortar 1:3 (1 cement : 3 fine sand)	cum	₹ 7,916.10
17.14.3	Cement mortar 1:4 (1cement : 4 fine sand)	cum	₹ 6,953.80
17.15	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). Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage.		
		sqm	₹ 506.20

Code No.	Description	Unit	Rate
17.16	<p>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).</p>	sqm	₹ 353.80
17.17	<p>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). Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage.</p>	sqm	₹ 585.80

Code No.	Description	Unit	Rate
17.18	<p>Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 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 manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscosity 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. Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage.</p>		
17.18.1	2mm (for corrugated roof sheets)	sqm	₹ 312.40
17.19	<p>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 viscosity 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. Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage.</p>		
17.19.1	3 mm thick	sqm	₹ 474.40

Code No.	Description	Unit	Rate
17.20	<p>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 viscosity 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. Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage. :</p>		
17.20.1	3 mm thick	sqm	₹ 478.30
17.21	<p>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.</p>		
		sqm	₹ 88.50
17.22	<p>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. Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage.</p>		
		sqm	₹ 379.40

Code No.	Description	Unit	Rate
17.23	<p>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, reservoir, 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.</p> <p>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. [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]</p>		
17.23.1	For vertical surface two coats @0.70 kg per sqm per coat	sqm	₹ 568.10
17.23.2	For horizontal surface one coat @1.10 kg per sqm.	sqm	₹ 446.40
17.24	<p>Providing & Applying polymer modified, flexible cementitious 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 cementitious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementitious 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. Performance shall carry guarantee for 10 years against any leakage.</p>		
		sqm	₹ 436.80

Code No.	Description	Unit	Rate
17.25	<p>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 crystalline 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. [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]</p>		
17.25.1	<p>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.</p>	sqm	₹ 637.20
17.25.2	<p>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)</p>	sqm	₹ 23.00
17.26	<p>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. [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]</p>	sqm	₹ 665.60

Code No.	Description	Unit	Rate
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	sqm	₹ 180.30
17.27.2	50mm average thickness	sqm	₹ 119.60
17.27.3	25 mm average thickness	sqm	₹ 60.80
17.28	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.		
17.28.1	Bars upto 12 mm diameter	metre	₹ 4.30
17.28.2	Bars above 12 mm diameter	metre	₹ 8.60
17.29	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	Upto and including 12mm dia.	each	₹ 67.50
17.30	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. [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]		
17.30.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	sqm	₹ 95.30
17.30.2	Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	sqm	₹ 383.30

Code No.	Description	Unit	Rate
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. [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]	sqm	₹ 76.80
17.32	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-in-charge. 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/ mm ²) [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]		
17.32.1	12 mm average thickness.	sqm	₹ 176.90
17.32.2	25 mm average thickness in 2 layers.	sqm	₹ 293.60
17.32.3	50 mm average thickness in 3 layers.	sqm	₹ 587.20
17.33	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. 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). [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]		
17.33.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	₹ 576.60
17.33.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	₹ 865.00

Code No.	Description	Unit	Rate
17.34	<p>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.</p> <p>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). [Payment shall be made after submission of the product performance shall carry guaranteed for 10 years against any leakage]</p>		
17.34.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	₹ 576.60
17.34.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	₹ 865.00
17.34.3	100mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	₹ 1,153.30
17.35	<p>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.</p> <p>(The payment shall be made on the basis of actual weight of approved grout injected.) [Payment shall be made after submission of Performance Appraisal / Guarantee Certificate issued by Manufacturer for 10 years]</p>		
17.35.1	Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/RCC work	kg	₹ 60.20
17.35.2	Stirrer mixed SBR Polymer (of approved make) modified Cement slurry made with Shrinkage Compensating Cement in concrete/RCC work	kg	₹ 71.30
17.35.3	Epoxy injection grout in concrete/RCC work of approved make	kg	₹ 793.70

Code No.	Description	Unit	Rate
17.36	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.		
17.36.1	Wooven PVC cloth	sqm	₹ 44.90
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.	sqm	₹ 174.10
17.38	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. [Payment shall be made after submission of Performance Appraisal / Guarantee Certificate issued by Manufacturer for 10 years]		
17.38.1	25mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	₹ 569.20
17.38.2	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	₹ 972.80
17.38.3	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	₹ 1,445.20
17.39	Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diameter (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.	each	₹ 171.90

Code No.	Description	Unit	Rate
17.40	Providing and fixing hard drawn steel wire fabric of size 75 x25 mm mesh or other suitable size wire mesh to be fixed & firmly anchored to the concrete surface by means of "L" shaped mild steel shear key welded with existing reinforcement including the cost of materials, labour, tool & plants, as required and as per direction of the Engineer-in-charge.	sqm	₹ 706.60

SUB-HEAD - 18



SANITARY INSTALLATIONS

BASIC RATES
SUB-HEAD : 18.0 SANITARY INSTALLATIONS

Code No.	Description	Unit	Rate
0201	Bandhani	Day	₹ 300.00
0203	Belder	Day	₹ 300.00
0205	Bhisti/Waterman	Day	₹ 300.00
0208	Carpenter (average)	Day	₹ 400.00
0210	Carpenter 2nd Class	Day	₹ 380.00
0212	Coolie/Helper	Day	₹ 300.00
0214	Fitter (2nd class)	Day	₹ 300.00
0215	Fitter (grade-1)	Day	₹ 380.00
0216	Foreman	Day	₹ 425.00
0218	Mason (average)	Day	₹ 400.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0224	Mate	Day	₹ 300.00
0227	Painter	Day	₹ 340.00
405	Carriage of Brick/ Stone aggregate below 40 mm nominal size	cum	₹ 159.75
468	Carriage of Steel material	tonne	₹ 110.94
421	Carriage of Cement	tonne	₹ 110.94
425	Carriage of Fine Sand	cum	₹ 142.63
433	Carriage of Pig lead	tonne	₹ 110.94
04006	Stone Aggregate (Single size) : 20 mm nominal size	cum	₹ 3,969.00
04007	Stone Aggregate (Single size) : 12 mm nominal size	cum	₹ 4,005.00
04008	Stone Aggregate (Single size) : 10 mm nominal size	cum	₹ 4,040.00
03001	Portland Cement	tonne	₹ 6,100.00
08053	Chromium plated Brass screws 40 mm	100 Nos	₹ 228.00
08055	Chromium plated Brass screws 25 mm	100 Nos	₹ 130.00
12008	Anticorrosive bituminous paint (black)	litre	₹ 115.00
12041	Synthetic enamel paint in black or chocolate shade	litre	₹ 185.00
12040	Synthetic enamel paint in all shades except black or chocolate shade	litre	₹ 155.00
02003	Fine sand (selected quarry)	cum	₹ 370.00
05026	Flats up to 10 mm in thickness	quintal	₹ 3,992.00
05017	Bolts and nuts up to 300 mm in length	quintal	₹ 6,749.00
18001	C.I. bracket for wash basin and sinks	pair	₹ 85.00
18002	C.P.brass chain with 40 mm dia rubber plug	each	₹ 42.00
18003	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	₹ 40.00
18004	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	₹ 30.00
18005	M.S.Holder bat clamp of approved design for 75 mm S.C.I. pipe	each	₹ 27.00
18006	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	₹ 35.00

Code No.	Description	Unit	Rate
18007	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	₹ 38.00
18008	Brass stop-cock 15 mm dia	each	
18009	Mosquito proof coupling of approved design	each	₹ 35.00
18010	Vitreous china foot rests 250x130x30 mm	pair	₹ 100.00
18011	S.C.I. gully or nahani grating 100 mm dia	each	₹ 20.00
18012	Rubber insertions for 80 mm dia pipe joints	each	₹ 15.00
18013	Rubber insertions for 100 mm dia pipe joints	each	₹ 20.00
18014	Rubber insertions for 125 mm dia pipe joints	each	₹ 22.00
18015	Mirror of superior make glass 60x45 cm	each	₹ 370.00
18016	Vitreous china pedestal for wash basin	each	₹ 600.00
18017	Pig lead	kilogram	₹ 150.00
18018	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	₹ 250.00
18019	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	₹ 420.00
18020	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	₹ 500.00
18021	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	₹ 570.00
18022	Flush pipe and spreaders G.I. for single set of one squatting plate urinal	each	₹ 160.00
18023	Flush pipe and spreaders G.I. for range of two squatting plates urinal	each	₹ 250.00
18024	Flush pipe and spreaders G.I. for range of three squatting plates urinal	each	₹ 300.00
18025	Flush pipe and spreaders G.I. for range of four squatting plates urinal	each	₹ 380.00
18026	G.I. inlet connection	each	₹ 80.00
18027	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75 mm dia	each	₹ 800.00
18028	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100mm dia	each	₹ 1,000.00
18029	S.C.I. plain bend 75mm dia	each	₹ 180.00
18030	S.C.I. plain bend 100mm dia	each	₹ 240.00
18031	S.C.I. bend with access door 75mm dia	each	₹ 170.00
18032	S.C.I. bend with access door 100mm dia	each	₹ 240.00
18033	S.C.I. plain single equal junctions 75x75x75 mm dia	each	₹ 260.00
18034	S.C.I. plain single equal junctions 100x100x100 mm dia	each	₹ 360.00
18035	S.C.I. single equal junctions 75x75x75 mm dia with access door.	each	₹ 275.00
18036	S.C.I. single equal junctions 100x100x100 mm dia with access door.	each	₹ 375.00
18037	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	₹ 420.00

Code No.	Description	Unit	Rate
18038	S.C.I. plain double equal junctions 100 x 100 x 100 x 100 mm dia	each	₹ 550.00
18039	S.C.I. double equal junctions 75x75x75x75 mm dia with access door.	each	₹ 430.00
18040	S.C.I. double equal junctions 100 x 100 x 100 x 100 mm dia with access door.	each	₹ 550.00
18041	Slotted cowl (terminal guard) 75 mm dia	each	₹ 110.00
18042	Slotted cowl (terminal guard) 100 mm dia	each	₹ 160.00
18043	Sand cast iron S&S plain single unequal junctions : 100x100x75 mm dia	each	₹ 380.00
18044	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door.	each	₹ 400.00
18045	Sand cast iron S&S plain double unequal junctions : 100x100x75x75 mm dia	each	₹ 500.00
18046	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door.	each	₹ 550.00
18047	Sand cast iron heel rest bend 75mm dia	each	₹ 230.00
18048	Sand cast iron heel rest bend 100mm dia	each	₹ 270.00
18049	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	₹ 320.00
18050	S.C.I. single equal invert branch of required degree 100x100x100 mm dia	each	₹ 430.00
18051	S.C.I. double equal invert branch of required degree 75x75x75x75 mm dia	each	₹ 420.00
18052	S.C.I. double equal invert branch of required degree 100x100x100x100 mm dia	each	₹ 570.00
18053	S.C.I. single unequal invert branch of required degree 100x100x75 mm dia	each	₹ 510.00
18054	S.C.I. double unequal invert branch of required degree 100x100x75x75 mm dia	each	₹ 600.00
18055	S.C.I. door pieces 75 mm dia	each	₹ 280.00
18056	S.C.I. door pieces 100 mm dia	each	₹ 340.00
18057	S.C.I. collar 75 mm dia	each	₹ 120.00
18058	S.C.I. collar 100 mm dia	each	₹ 160.00
18059	Fire clay kitchen sink: 600x450x250 mm	each	₹ 1,300.00
18060	White vitreous china laboratory sink 450x300x150 mm	each	₹ 750.00
18061	White vitreous china laboratory sink 600x450x200 mm	each	₹ 1,450.00
18062	White plastic seat (solid) with lid C.P.brass hinges and rubber buffers	each	₹ 340.00
18063	Black plastic seat (solid) with lid C.P.brass hinges and rubber buffers	each	₹ 300.00
18064	Spun yarn	kilogram	₹ 45.00
18065	15 mm C.P.brass tap	each	₹ 250.00
18066	C.P.brass toilet paper holder of standard size	each	₹ 200.00
18067	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 50 mm dia	each	₹ 160.00

Code No.	Description	Unit	Rate
18068	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 80 mm dia	each	₹ 210.00
18069	C.P.brass trap 40 mm dia	each	₹ 135.00
18070	100 mm S.C.I. trap with vent heel	each	₹ 340.00
18071	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	₹ 290.00
18072	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	₹ 210.00
18073	Vitreous china lipped front urinal	each	₹ 450.00
18074	Vitreous china squatting plate urinal	each	₹ 700.00
18075	Vitreous china flat back wash basin 630x450 mm	each	₹ 650.00
18076	Vitreous china angle back wash basin 600x480 mm	each	₹ 680.00
18077	Vitreous china angle back wash basin 400x400 mm	each	₹ 350.00
18078	C.P. brass waste 32 mm	each	₹ 75.00
18079	C.P. brass waste 40 mm	each	₹ 85.00
18080	Vitreous china Indian type w.c. pan size 580 mm	each	₹ 420.00
18081	Vitreous china orrisa type w.c. pan size 580 mm	each	₹ 750.00
18082	Vitreous china pedestal type water closet	each	₹ 700.00
18083	White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as squatting pan or European type water closet as per manufacturer's specifications	each	₹ 1,400.00
18084	Vitreous china foot rests 250x125x25 mm	pair	₹ 95.00
18085	Vitreous china Surgeon type wash basin of size 660x460 mm	each	₹ 900.00
18086	600x120 mm glass shelf with anodised aluminium angle frame, C.P.brass brackets and guard rail of standard size	each	₹ 150.00
18087	Vitreous china flat back wash basin 550x400 mm	each	₹ 550.00
18088	C.P. Brass union 40 mm dia	each	₹ 180.00
18089	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:100mm dia	each	₹ 1,150.00
18090	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:75mm dia	each	₹ 1,000.00
18091	S.C.I. S&S bends with access door 100mm dia	each	₹ 270.00
18092	S.C.I. S&S bends with access door 75mm dia	each	₹ 230.00
18093	S.C.I. S&S bend 100mm dia	each	₹ 250.00
18094	S.C.I. S&S bend 75mm dia	each	₹ 190.00
18095	S.C.I. S&S heel rest sanitary bend 100mm dia	each	₹ 300.00
18096	S.C.I. S&S heel rest sanitary bend 75mm dia	each	₹ 260.00
18097	S.C.I. S&S single equal junctions 100 x 100 x 100 mm	each	₹ 500.00

Code No.	Description	Unit	Rate
18098	S.C.I. S&S single equal junctions 75 x 75 x 75 mm	each	₹ 390.00
18099	S.C.I. S&S single equal junctions with access door 100x100x100 mm	each	₹ 500.00
18100	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	₹ 370.00
18101	S.C.I. S&S double equal junctions 100 x 100 x 100 x 100 mm	each	₹ 620.00
18102	S.C.I. S&S double equal junctions 75 x 75 x 75 x 75 mm	each	₹ 500.00
18103	S.C.I. S&S double equal junctions with access door 100x100x100x100 mm.	each	₹ 620.00
18104	S.C.I. S&S double equal junctions with access door 75x75x75x75 mm.	each	₹ 480.00
18105	S.C.I. S&S single unequal junctions 100x100x75 mm	each	₹ 600.00
18106	S.C.I. S&S single unequal junctions with access door 100x100x75 mm	each	₹ 650.00
18107	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	₹ 880.00
18108	S.C.I. S&S double unequal junctions with access door 100x100x75x75 mm	each	₹ 775.00
18109	S.C.I. S&S single equal invert branch of required degree 100x100x100 mm dia	each	₹ 440.00
18110	S.C.I. S&S single equal invert branch of required degree 75x75x75 mm dia	each	₹ 350.00
18111	S.C.I. S&S double equal invert branch of required degree 100x100x100x100 mm dia	each	₹ 580.00
18112	S.C.I. S&S double equal invert branch of required degree 75x75x75x75 mm dia	each	₹ 460.00
18113	S.C.I. S&S single unequal invert branch of required degree 100x100x75 mm dia	each	₹ 590.00
18114	S.C.I. S&S double unequal invert branch of required degree 100x100x75x75 mm dia	each	₹ 800.00
18115	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	₹ 250.00
18116	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	₹ 310.00
18117	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	₹ 420.00
18118	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	₹ 305.00
18119	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	₹ 400.00
18120	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	₹ 390.00
18121	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	₹ 490.00
18122	S.C.I. S&S door pieces 100 mm dia	each	₹ 320.00
18123	S.C.I. S&S door pieces 75 mm dia	each	₹ 240.00
18124	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	₹ 210.00
18125	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	₹ 200.00
18126	S.C.I. S&S, collars 100 mm	each	₹ 200.00
18127	S.C.I. S&S, collars 75 mm	each	₹ 175.00

Code No.	Description	Unit	Rate
18128	S.C.I. S&S, 76 mm offset for 75 mm dia pipe	each	₹ 175.00
18129	S.C.I. S&S, 76 mm offset for 100 mm dia pipe	each	₹ 300.00
18130	Vitreous china toilet paper holder of standard size	each	₹ 155.00
18131	Red oxide Zinc chromate primer	litre	₹ 85.00
18132	Vitreous china flat back wash basin 450x300 mm	each	₹ 380.00
18133	Vitreous china 10 litres low level cistern without fittings	each	₹ 1,000.00
18134	Vitreous china 10 litres low level cistern with fittings	each	₹ 1,300.00
18135	Rawl plug 50 mm (designation 10 no.)	each	₹ 7.00
18136	Stainless steel kitchen sink - with drain board bowl depth 250 mm.	each	₹ 3,000.00
18137	Stainless steel kitchen sink - with drain board 510 x 1040mm bowl depth 225 mm.	each	₹ 2,700.00
18138	Stainless steel kitchen sink - with drain board 510 x 1040mm bowl depth 200 mm.	each	₹ 2,500.00
18139	Stainless steel kitchen sink - with drain board 510x1040mm bowl depth 178 mm	each	₹ 2,250.00
18140	Stainless steel kitchen sink - without drain board 610x510mm bowl depth 200 mm	each	₹ 1,900.00
18141	Stainless steel kitchen sink - without drain board 610x460mm bowl depth 200 mm.	each	₹ 1,800.00
18142	Stainless steel kitchen sink - without drain board 470x420mm bowl depth 178 mm	each	₹ 1,600.00
18143	Coloured Orissa pattern W.C. pan 580x440 mm	each	₹ 950.00
18144	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	₹ 900.00
18145	Coloured Vitreous china 10 lit. low level cistern	each	₹ 1,200.00
18146	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	₹ 390.00
18147	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	₹ 400.00
18148	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	₹ 320.00
18149	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	₹ 380.00
18150	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	₹ 750.00
18151	Hard board 6 mm thick	sqm	₹ 200.00
18152	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	₹ 22.00
18153	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	₹ 31.00

Code No.	Description	Unit	Rate
18154	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	₹ 32.00
18155	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	₹ 35.00
18156	Coloured High density polyethylene/ poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	₹ 750.00
18157	White Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	₹ 1,020.00
18158	Coloured Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	₹ 1,350.00
18159	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and flush pipe)	each	₹ 650.00
18160	P.V.C. automatic flushing cistern 5 lts capacity	each	₹ 500.00
18161	P.V.C. automatic flushing cistern 10 lts capacity	each	₹ 520.00
18162	15 mm C.P. brass tap with elbow operation lever	each	₹ 550.00
18163	White glazed fire clay draining board 600x450x25 mm	each	₹ 580.00
18164	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	₹ 480.00
18165	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	₹ 1,200.00
18166	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	₹ 1,500.00
18167	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals	each	₹ 2,200.00
18168	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS : 2556	each	₹ 1,450.00
18169	Wedge expansion hold fastener 1/4" or 6 mm	each	₹ 15.00
18170	PTMT Waste Coupling 31/32MM	Each	₹ 60.00
18171	PTMT Waste Coupling 38/40MM	Each	₹ 85.00
18172	PTMT Bottle Trap 31/32MM	Each	₹ 350.00
18173	PTMT Bottle Trap 38/40MM	Each	₹ 370.00
18174	PTMT Liquid Soap Container of 400ml capacity	Each	₹ 170.00

Code No.	Description	Unit	Rate
18175	PTMT Towel Ring 215xd200x37mm	Each	₹ 135.00
18176	PTMT Towel Rail (450MM)	Each	₹ 240.00
18177	PTMT Towel Rail (600MM)	Each	₹ 285.00
18178	PTMT Shelf 450x124x36mm	Each	₹ 300.00
18179	PTMT Urinal Spreader 15MM	Each	₹ 155.00
18180	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724 mm x 578 mm	each	₹ 3,500.00
18181	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355 mm	each	₹ 1,800.00
18182	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345mm	each	₹ 1,680.00
18183	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	₹ 420.00
18184	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	₹ 450.00
18185	P.T.M.T. Urinal cock 15mm dia	each	₹ 120.00
18186	Wall mounted water closet of size 780x370x690 mm	each	₹ 4,650.00
18187	Adjustable Vitreous China Cistern with fittings of flushing capacity 3 litre/6 litre (adjustable to 4 litre/8 litre)	each	₹ 2,000.00
18188	White Vitreous China Waterless Urinal of size 600 x 330x315 mm	each	₹ 10,200.00
18189	Cistern with fittings for Waterless Urinal	each	₹ 2,400.00
18190	Battery based infrared sensor operated White Vitreous Urinal of approx size 610 x 390 x 370 mm	each	₹ 4,000.00
18191	Floor mounted white vitrous china double trap syphonic WC with 10 litre cistern and all fittings & fixtures, seat cover etc	each	₹ 9,000.00
18192	u-PVC double equal junction of required degree without door 75x75x75 x 75 mm	each	₹ 60.00
18193	u-PVC double equal junction of required degree without door 110x110x110 x110 mm	each	₹ 90.00
18194	u-PVC double equal junction of required degree with door 75x75x75 x 75 mm	each	₹ 85.00
18195	u-PVC double equal junction of required degree with door 110x110x110 x110 mm	each	₹ 120.00
18196	u-PVC double unequal junction of required degree without door 110x110x75 x 75 mm	each	₹ 150.00
18197	u-PVC double unequal junction of required degree with door 110x110x75 x 75 mm	each	₹ 180.00
18198	u-PVC single unequal junction of required degree without door 110x110x75 mm	each	₹ 125.00
18199	u-PVC single unequal junction of required degree with door 110x110x75 mm	each	₹ 150.00
181200	u- PVC Single socketed pipe - 110 mm OD working pressure 6 kg / cm ²	metre	₹ 190.00
11073	u-PVC Seal ring 75 mm dia	each	₹ 9.00
11072	u-PVC Seal ring 110 mm dia	each	₹ 14.00

SUB HEAD : 18.0

SANITARY INSTALLATIONS

Code No.	Description	Unit	Rate
18.1	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.	each	₹ 3,842.50
18.1.2	Stainless Steel AISI-304(18/8) Orissa pattern W.C pan of size 585x480 mm with flush pipe and integrated type of foot rests.	each	₹ 7,155.40
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	W.C. pan with ISI marked white solid plastic seat and lid	each	₹ 3,778.60
18.2.2	W.C. pan with ISI marked black solid plastic seat and lid	each	₹ 3,734.70
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 :		
18.3.1	W.C. pan with ISI marked white solid plastic seat and lid.	each	₹ 4,958.70
18.3.2	W.C. pan with ISI marked black solid plastic seat and lid.	each	₹ 4,908.50
18.4	Providing and 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 :		

Code No.	Description	Unit	Rate
18.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern.	each	₹ 3,658.60
18.4.2	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern.	each	₹ 5,588.50
18.4.3	Range of three urinal basins with 10 litre white P.V.C. automatic flushing cistern.	each	₹ 7,155.00
18.4.4	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern.	each	₹ 9,183.20
18.5	Providing and 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 flushing cistern.	each	₹ 6,223.20
18.5.2	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern.	each	₹ 9,816.20
18.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern.	each	₹ 12,578.00
18.5.4	Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern.	each	₹ 15,290.00
18.6	Providing and 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 :		
18.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern.	each	₹ 4,016.50
18.6.2	Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern.	each	₹ 6,098.90
18.6.3	Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern.	each	₹ 7,636.80
18.6.4	Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern.	each	₹ 9,125.60
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 :		

Code No.	Description	Unit	Rate
18.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	₹ 2,231.80
18.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar taps.	each	₹ 1,897.30
18.7.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.	each	₹ 2,126.20
18.7.4	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	each	₹ 1,787.90
18.7.5	White Vitreous China Angle back wash basin size 600x480 mm with single 15 mm C.P. brass pillar tap.	each	₹ 2,023.50
18.7.6	White Vitreous China Angle back wash basin size 400x400 mm with single 15 mm C.P. brass pillar tap.	each	₹ 1,690.30
18.7.7	White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap	each	₹ 1,708.00
18.7.8	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.	each	₹ 3,299.50
18.7.9	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.	each	₹ 2,579.20
18.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap	each	₹ 3,332.90
18.7.11	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap.	each	₹ 3,182.20
18.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	each	₹ 922.50
18.9	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 :		
17.9.1	White glazed fire clay kitchen sink of size 600x450x250 mm.	each	₹ 2,368.80
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		
18.10.1.1	510x1040 mm bowl depth 250mm.	each	₹ 4,595.80
18.10.1.2	510x1040 mm bowl depth 225mm.	each	₹ 4,285.50
18.10.1.3	510x1040 mm bowl depth 200mm.	each	₹ 4,043.90
18.10.1.4	460x915 mm bowl depth 178mm.	each	₹ 3,649.40
18.10.2	Kitchen sink without drain board		
18.10.2.1	610x510 mm bowl depth 200 mm.	each	₹ 2,995.10
18.10.2.2	610x460 mm bowl depth 200 mm.	each	₹ 2,857.40

Code No.	Description	Unit	Rate
18.10.2.3	470x420 mm bowl depth 178 mm.	each	₹ 2,610.90
18.11	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	each	₹ 2,156.20
18.11.2	Size 600x450x200mm	each	₹ 3,060.70
18.12	Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required :		
18.12.1	White glazed fire clay draining board of size 600x450x25mm	each	₹ 1,017.90
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	each	₹ 1,078.40
18.13.2	Orissa pattern W.C. pan of size 580x440 mm	each	₹ 1,492.90
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	each	₹ 239.30
18.15	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	each	₹ 1,315.60
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.	each	₹ 478.50
18.17	Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet:		
18.17.1	250x130x30 mm	pair	₹ 183.70
18.17.2	250x125x25 mm	pair	₹ 177.30
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	each	₹ 923.30
18.18.2	10 litre capacity-coloured	each	₹ 1,048.90
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	each	₹ 1,675.80
18.19.2	10 litre (full flush) capacity-coloured	each	₹ 2,082.50

Code No.	Description	Unit	Rate
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	each	₹ 427.10
18.20.2	Black solid plastic seat with lid	each	₹ 376.80
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.	each	₹ 59.80
18.22	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	each	₹ 107.20
18.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively.	each	₹ 868.70
18.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	each	₹ 1,728.20
18.25	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings:		
18.25.1	Flat back wash basin of size 630x450mm.	each	₹ 1,093.80
18.25.2	Flat back wash basin of size 550x400mm.	each	₹ 971.80
18.25.3	Angle back wash basin of size 600x480mm.	each	₹ 1,130.40
18.25.4	Angle back wash basin of size 400x400mm.	each	₹ 727.80
18.25.5	Flat back wash basin of size 450x300mm.	each	₹ 764.40
18.25.6	Surgeon type wash basin of size 660x460mm.	each	₹ 1,398.80
18.26	Providing and fixing kitchen sink including making all connections excluding cost of fittings.		
18.26.1	White glazed fire clay sink of size 600x450x250mm.	each	₹ 1,836.30
18.27	Providing and fixing white vitreous china laboratory sink including making all connections excluding cost of fittings:		
18.27.1	Size 450x300x150 mm.	each	₹ 1,215.80
18.27.2	Size 600x450x200 mm.	each	₹ 2,069.80
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		
18.28.1.1	32 mm dia	each	₹ 67.00
18.28.1.2	40 mm dia	each	₹ 77.80
18.28.2	Flexible pipe		
18.28.2.1	32 mm dia	each	₹ 79.00
18.28.2.2	40 mm dia	each	₹ 82.50
18.29	Providing and fixing 100 mm sand cast Iron grating for gully trap.	each	₹ 48.30

Code No.	Description	Unit	Rate
18.30	Providing and fixing in position 25mm diameter mosquito proof coupling of approved municipal design.	each	₹ 58.10
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.	each	₹ 699.20
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 :		
18.32.1	Circular shape 450 mm dia	each	₹ 914.80
18.32.2	Rectangular shape 453x357mm	each	₹ 808.50
18.32.3	Oval shape 450x350mm (outer dimensions)	each	₹ 876.20
18.32.4	Rectangular shape 1500x450 mm	each	₹ 1,424.20
18.33	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.	each	₹ 428.80
18.34	Providing and fixing toilet paper holder :		
18.34.1	C.P. brass	each	₹ 363.30
18.34.2	Vitreous china	each	₹ 303.30
18.35	Providing and fixing soil, waste and vent pipes:		
18.35.1	100 mm dia.		
18.35.1.1	Sand cast iron S&S pipe as per IS: 1729.	metre	₹ 793.40
18.35.1.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	metre	₹ 907.30
18.35.2	75 mm diameter :		
18.35.2.1	Sand cast iron S&S pipe as per IS: 1729.	metre	₹ 636.00
18.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	metre	₹ 787.80
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:		
18.36.1	75mm dia pipe	each	₹ 66.10
18.36.2	100 mm dia pipe	each	₹ 80.30
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	each	₹ 166.60
18.37.2	For 75 mm dia. Pipe	each	₹ 163.80

Code No.	Description	Unit	Rate
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	each	₹ 369.10
18.38.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 405.70
18.38.2	75 mm dia		
18.38.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 277.60
18.38.2.2	Sand cast iron S&S as per IS- 3989	each	₹ 350.80
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	each	₹ 344.70
18.39.1.2	Sand cast iron S&S as per IS : 3989	each	₹ 356.90
18.39.2	75 mm		
18.39.2.1	Sand cast iron S&S as per IS -1729	each	₹ 271.50
18.39.2.2	Sand cast iron S&S as per IS - 3989	each	₹ 283.70
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	each	₹ 401.50
18.40.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 439.50
18.40.2	75 mm		
18.40.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 350.80
18.40.2.2	Sand cast iron S&S as per IS - 3989	each	₹ 388.80
18.41	Providing and fixing double equal junction of required degree with access door,insertion rubber washer 3 mm thick, bolts and nuts complete :		
18.41.1	100x100x100x100mm		
18.41.1.1	Sand cast iron S&S as per IS - 1729	each	₹ 759.70
18.41.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 846.70
18.41.2	75x75x75x75 mm		
18.41.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 604.20
18.41.2.2	Sand cast iron S&S as per IS - 3989	each	₹ 666.40
18.42	Providing and fixing double equal plain junction of required degree.		
18.42.1	100x100x100x100 mm		
18.42.1.1	Sand cast iron S&S as per IS - 1729	each	₹ 717.90
18.42.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 804.90
18.42.2	75x75x75x75 mm		
18.42.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 550.90
18.42.2.2	Sand cast iron S&S as per IS - 3989	each	₹ 649.40
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		
18.43.1.1	Sand cast iron S&S as per IS - 1729	each	₹ 546.30

Code No.	Description	Unit	Rate
18.43.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 705.40
18.43.2	75x75x75 mm		
18.43.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 421.20
18.43.2.2	Sand cast iron S&S as per IS - 3989	each	₹ 542.20
18.44	Providing and fixing single equal plain junction of required degree		
18.44.1	100x100x100 mm		
18.44.1.1	Sand cast iron S&S as per IS - 1729	each	₹ 498.50
18.44.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 672.60
18.44.2	75x75x75 mm		
18.44.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 374.10
18.44.2.2	Sand cast iron S&S as per IS - 3989	each	₹ 394.00
18.45	Providing and fixing double unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :		
18.45.1	100x100x75x75 mm		
18.45.1.1	Sand cast iron S&S as per IS - 1729	each	₹ 759.70
18.45.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 1,039.50
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	each	₹ 688.60
18.45.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 1,172.50
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	each	₹ 586.80
18.47.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 922.40
18.48	Providing and fixing single unequal plain junction of required degree :		
18.48.1	100x100x75 mm		
18.48.1.1	Sand cast iron S&S as per IS - 1729	each	₹ 559.60
18.48.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 839.80
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	each	₹ 801.60
18.49.1.2	Sand cast iron S&S as per IS 3989	each	₹ 814.30
18.49.2	75x75x75x75 mm		
18.49.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 610.60
18.49.2.2	Sand cast iron S&S as per IS - 3989	each	₹ 661.50
18.50	Providing and fixing single equal plain invert branch of required degree:		
18.50.1	100x100x100 mm		
18.50.1.1	Sand cast iron S&S as per iron 1729	each	₹ 623.30
18.50.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 636.00

Code No.	Description	Unit	Rate
18.50.2	75x75x75 mm		
18.50.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 483.20
18.50.2.2	Sand cast iron S&S as per IS - 3989	each	₹ 521.40
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	each	₹ 839.80
18.51.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 1,094.40
18.52	Providing and fixing single unequal plain invert branch of required degree :		
18.52.1	100x100x75 mm		
18.52.1.1	Sand cast iron S&S as per IS - 1729	each	₹ 725.20
18.51.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 827.00
18.53	Providing and fixing sand cast iron S&S offsets as per IS: 1729		
18.53.1	76 mm offsets		
18.53.1.1	With 75 mm dia. pipe	each	₹ 259.90
18.53.1.2	With 100 mm dia. pipe	each	₹ 415.40
18.53.2	114 mm offsets		
18.53.2.1	With 75 mm dia. pipe	each	₹ 421.60
18.53.2.2	With 100 mm dia. Pipe	each	₹ 539.80
18.53.3	152 mm offsets		
18.53.3.1	With 75 mm dia. Pipe	each	₹ 527.30
18.53.3.2	With 100 mm dia. pipe	each	₹ 651.70
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	each	₹ 353.20
18.54.2	150 mm offsets		
18.54.2.1	With 75 mm dia. pipe	each	₹ 427.80
18.54.2.2	With 100 mm dia. pipe	each	₹ 602.30
18.55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete		
18.55.1	100mm		
18.55.1.1	Sand cast iron S&S as per IS - 1729	each	₹ 486.60
18.55.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 454.80
18.55.2	75 mm		
18.55.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 407.70
18.55.2.2	Sand cast iron S&S as per IS - 3989	each	₹ 360.90
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	each	₹ 256.50
18.56.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 316.30
18.56.2	75 mm		
18.56.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 196.70

Code No.	Description	Unit	Rate
18.56.2.2	Sand cast iron S&S as per IS - 3989	each	₹ 304.40
18.57	Providing and fixing collar:		
18.57.1	100 mm		
18.57.1.1	Sand cast iron S&S as per IS - 1729	each	₹ 234.40
18.57.1.2	Sand cast iron S&S as per IS - 3989	each	₹ 282.70
18.57.2	75 mm		
18.57.2.1	Sand cast iron S&S as per IS - 1729	each	₹ 186.10
18.57.2.2	Sand cast iron S&S as per IS- 3989	each	₹ 252.50
18.58	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:		
18.58.1	100mm	each	₹ 303.10
18.58.2	75 mm	each	₹ 265.10
18.58.3	50 mm	each	₹ 231.10
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	each	₹ 91.50
18.59.2	75 mm	each	₹ 78.20
18.59.3	50 mm	each	₹ 69.00
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.	each	₹ 828.90
18.60.1.2	Sand Cast Iron S&S as per IS: 1729.	each	₹ 667.30
18.60.2	100 mm inlet and 75 mm outlet		
18.60.2.1	Sand cast iron S&S as per IS - 3989	each	₹ 870.40
18.60.2.2	Sand Cast Iron S&S as per IS- 1729.	each	₹ 570.50
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):		
18.61.1	100mmdia.	metre	₹ 345.30
18.61.2	75 mmdia.	metre	₹ 263.00
18.61.3	50mmdia.	metre	₹ 180.30
18.62	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.	each	₹ 398.90

Code No.	Description	Unit	Rate
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.	each	₹ 369.90
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.	each	₹ 200.20
18.65	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 :		
18.65.1	100 mm diameter pipe	metre	₹ 38.30
18.65.2	75 mm diameter pipe	metre	₹ 27.20
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 :		
18.66.1	100 mm diameter pipe	metre	₹ 19.20
18.66.2	75 mm diameter pipe	metre	₹ 13.40
18.67	Repainting bath tub of size 1700x730x430mm with enamel paint.	each	₹ 481.90
18.68	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 bend.	each	₹ 5,698.60
18.69	Providing and fixing PTMT Waste Coupling for washbasin and sink, of approved quality and colour.		
18.69.1	Waste coupling 3.1 mm of 79mm length and 62mm breadth weighing not less than 45 gms.	each	₹ 110.30
18.69.2	Waste coupling 38mm of 83mm length and 77mm breadth, weighing not less than 60gms.	each	₹ 139.90
18.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.		

Code No.	Description	Unit	Rate
18.70.1	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.	each	₹ 453.80
18.70.2	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.	each	₹ 477.50
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.	each	₹ 188.50
18.72	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.	each	₹ 217.50
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.	each	₹ 449.40
18.73.2	600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	each	₹ 508.00
18.74	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300gms.	each	₹ 508.60
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.	each	₹ 289.30
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	each	₹ 154.30

Code No.	Description	Unit	Rate
18.77	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.		
18.77.1	Total bracket length 580mm of approved shape and design (for single 100mm dia pipes)	each	₹ 191.90
18.77.2	Total bracket length 810 mm of approved shape and design (for two 100mm dia pipes)	each	₹ 238.90
18.77.3	Total bracket length 1040 mm of approved shape and design (for three 100mm dia pipes)	each	₹ 292.10
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.	each	₹ 10,342.60
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.	each	₹ 17,510.20
18.80	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.	each	₹ 5,573.70
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.	each	₹ 12,910.70

u - PVC PIPES WITH FITTINGS

Code No.	Description	Unit	Rate
18.82	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes (working pressure 4 kg / cm ²) 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	Single socketed pipe - 75 mm OD	metre	₹ 142.30
18.82.2	Single socketed pipe - 110 mm OD	metre	₹ 239.00
18.83	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes (working pressure 6 kg / cm ²) conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion:		
18.83.1	Single socketed pipe - 110 mm OD	metre	₹ 288.10
18.84	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water 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	each	₹ 57.90
18.84.1.2	110 mm	each	₹ 99.00
18.84.2	Single pushfit Coupler		
18.84.2.1	75 mm	each	₹ 57.90
18.84.2.2	110 mm	each	₹ 89.30
18.84.3	Single equal tee without door		
18.84.3.1	75x75x75 mm	each	₹ 107.40
18.84.3.2	110x110x110mm	each	₹ 175.10
18.84.4	Single equal tee with door		
18.84.4.1	75x75x75 mm	each	₹ 125.60
18.84.4.2	110x110x110mm	each	₹ 190.80
18.84.5	Bend 87.5°		
18.84.5.1	75mm	each	₹ 70.00
18.84.5.2	110mm	each	₹ 109.80
18.84.6	Plain shoe		
18.84.6.1	75mm	each	₹ 57.90
18.84.6.2	110mm	each	₹ 92.90
18.84.7	Double equal junction of required degree without door		
18.84.7.1	75x75x75 x 75 mm	each	₹ 125.50
18.84.7.2	110x110x110 x110 mm	each	₹ 186.00

Code No.	Description	Unit	Rate
18.84.8	Double equal junction of required degree with door		
18.84.8.1	75x75x75 x 75 mm	each	₹ 155.80
18.84.8.2	110x110x110 x110 mm	each	₹ 222.20
18.84.9	Double unequal junction of required degree without door		
18.84.9.1	110x110x75 x 75 mm	each	₹ 258.50
18.84.10	Double unequal junction of required degree with door		
18.84.10.1	110x110x75 x 75 mm	each	₹ 294.70
18.84.11	Single unequal junction of required degree without door		
18.84.11.1	110x110x75 mm	each	₹ 228.20
18.84.12	Single unequal junction of required degree with door		
18.84.12.1	110x110x75 mm	each	₹ 258.50
18.85	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC 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	75mm	each	₹ 189.80
18.85.2	110mm	each	₹ 191.20
18.86	Providing and fixing to the inlet mouth of PVC pipe PTMT grating with thickness of 8mm and weighing not less than 100gm. complete.		
18.86.1	75mm	each	₹ 90.30
18.86.2	100mm	each	₹ 100.00

SUB-HEAD - 19



WATER SUPPLY

SUB HEAD: 19.0 WATER SUPPLY
BASIC RATES

Code No.	Description	Unit	Rate
0114	Derrick monkey rope and other accessories- Hire charges	Day	₹ 864.00
0203	Belder	Day	₹ 300.00
0205	Bhisti/Waterman	Day	₹ 300.00
0208	Carpenter (average)	Day	₹ 400.00
0210	Carpenter 2nd Class	Day	₹ 380.00
0212	Coolie/Helper	Day	₹ 300.00
0214	Fitter (2nd class)	Day	₹ 300.00
0215	Fitter (grade-1)	Day	₹ 380.00
0216	Foreman	Day	₹ 425.00
0218	Mason (average)	Day	₹ 400.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0227	Painter	Day	₹ 340.00
	CARRIAGE		
0406	Bricks	1000 Nos	₹ 332.82
0405	Brick/ Stone aggregate below 40 mm nominal size	cum	₹ 159.75
0468	Steel	tonne	₹ 110.94
0404	Brick/ Stone aggregate 40 mm nominal size and above	cum	₹ 172.74
0421	Cement	tonne	₹ 110.94
0425	Fine Sand	cum	₹ 142.63
0427	G.I. pipes below 100 mm dia	tonne	₹ 110.94
0407	Cast iron fittings	tonne	₹ 110.94
0456	Spun iron S & S pipes 100 mm dia	100 metre	₹ 272.80
0457	Spun iron S & S pipes 125 mm dia	100 metre	₹ 363.73
0458	Spun iron S & S pipes 150 mm dia	100 metre	₹ 454.67
0459	Spun iron S & S pipes 200 mm dia	100 metre	₹ 737.30
0460	Spun iron S & S pipes 250 mm dia	100 metre	₹ 1,049.23
0461	Spun iron S & S pipes 300 mm dia	100 metre	₹ 1,299.05
0462	Spun iron S & S pipes 350 mm dia	100 metre	₹ 1,818.67
0463	Spun iron S & S pipes 400 mm dia	100 metre	₹ 2,480.01

Code No.	Description	Unit	Rate
0464	Spun iron S & S pipes 450 mm dia	100 metre	₹ 3,031.11
0465	Spun iron S & S pipes 500 mm dia	100 metre	₹ 3,011.11
0466	Spun iron S & S pipes 600mm dia	100 metre	₹ 4,546.68
0433	Pig lead	tonne	₹ 110.94
0423	Ductile iron pipes (k7) 100 mm dia	100 metre	₹ 272.80
0409	Cast iron pipes 150 mm dia	100 metre	₹ 454.67
0410	Cast iron pipes 200 mm dia	100 metre	₹ 737.30
0411	Cast iron pipes 250 mm dia	100 metre	₹ 1,049.23
0412	Cast iron pipes 300 mm dia	100 metre	₹ 1,299.05
0413	Cast iron pipes 350 mm dia	100 metre	₹ 1,818.67
0414	Cast iron pipes 400 mm dia	100 metre	₹ 2,480.01
0415	Cast iron pipes 450 mm dia	100 metre	₹ 3,031.11
0416	Cast iron pipes 500 mm dia	100 metre	₹ 3,031.11
0417	Cast iron pipes 600 mm dia	100 metre	₹ 4,546.68
0418	Cast iron pipes 700 mm dia	100 metre	₹ 4,546.68
0419	Cast iron pipes 800 mm dia	100 metre	₹ 4,546.68
0420	Cast iron pipes 900 mm dia	100 metre	₹ 6,820.02
0408	Cast iron pipes 1000 mm dia	100 metre	₹ 9,093.35
	MATERIALS		
04004	Stone Aggregate (Single size) : 40 mm nominal size	cum	₹ 3,532.00
04006	Stone Aggregate (Single size) : 20 mm nominal size	cum	₹ 3,969.00
04007	Stone Aggregate (Single size) : 12 mm nominal size	cum	₹ 4,005.00
04010	Safeda ballies 125 mm diameter	metre	₹ 59.00
03001	Portland Cement	tonne	₹ 6,100.00
11016	Fuel wood	quintal	₹ 480.00
02004	Kerosene oil	litre	₹ 48.00
12008	Anticorrosive bituminous paint (black)	litre	₹ 125.00
12040	Synthetic enamel paint in all shades except black or chocolate shade	litre	₹ 190.00
02002	Fine sand (local quarry)	cum	₹ 300.00
02003	Fine sand (selected quarry)	cum	₹ 370.00
05062	Twisted steel / deformed bars	quintal	₹ 4,102.00
04014	Second local wood in planks	10 cudm	₹ 145.00

Code No.	Description	Unit	Rate
19001	Bleaching powder	quintal	₹ 2,400.00
19002	Surface box for stop cock	each	₹ 130.00
19003	Surface box for sluice valve	each	₹ 210.00
19004	Surface box for water meter	each	₹ 260.00
19005	Brass bib-cock 15 mm dia	each	₹ 215.00
19006	Brass bib-cock 20 mm dia	each	₹ 265.00
19007	Brass stop-cock 15 mm dia	each	₹ 225.00
19008	Brass stop-cock 20 mm dia	each	₹ 320.00
19009	C.I.mouth, brass ferrule 15 mm dia	each	₹ 140.00
19010	C.I.mouth, brass ferrule 20 mm dia	each	₹ 165.00
19011	C.I.mouth, brass ferrule 25 mm dia	each	₹ 228.00
19012	Rubber insertions for 80 mm dia pipe joints	each	₹ 13.00
19013	Rubber insertions for 100 mm dia pipe joints	each	₹ 17.00
19014	Rubber insertions for 125 mm dia pipe joints	each	₹ 19.00
19015	Rubber insertions for 150 mm dia pipe joints	each	₹ 22.00
19016	Rubber insertions for 200 mm dia pipe joints	each	₹ 29.00
19017	Rubber insertions for 250 mm dia pipe joints	each	₹ 44.00
19018	Rubber insertions for 300 mm dia pipe joints	each	₹ 55.00
19019	Rubber insertions for 350 mm dia pipe joints	each	₹ 66.00
19020	Rubber insertions for 400 mm dia pipe joints	each	₹ 96.00
19021	Rubber insertions for 450 mm dia pipe joints	each	₹ 120.00
19022	Rubber insertions for 500 mm dia pipe joints	each	₹ 154.00
19023	Rubber insertions for 600 mm dia pipe joints	each	₹ 171.00
1397	Pig lead	kilogram	₹ 140.00
19024	S & S.C.I.standard specials up to 300 mm dia (heavy class)	quintal	₹ 3,600.00
19025	S & S.C.I.standard specials over 300 mm dia (heavy class)	quintal	₹ 3,700.00
19026	Flanged C.I. standard specials up to 300 mm dia(heavy class)	quintal	₹ 5,800.00
19027	Flanged C.I. standard specials over 300 mm dia(heavy class)	quintal	₹ 6,200.00
19028	G.I. pipes 15 mm dia	metre	₹ 90.00
19029	G.I. pipes 20 mm dia	metre	₹ 120.00
19030	G.I. pipes 25 mm dia	metre	₹ 150.00
19031	G.I. pipes 32 mm dia	metre	₹ 210.00

Code No.	Description	Unit	Rate
19032	G.I. pipes 40 mm dia	metre	₹ 240.00
19033	G.I. pipes 50 mm dia	metre	₹ 340.00
19034	G.I. pipes 65 mm dia	metre	₹ 405.00
19035	G.I. pipes 80 mm dia	metre	₹ 515.00
19036	G.I. back (jam) nuts 25 mm dia	each	₹ 8.00
19037	G.I. back (jam) nuts 65 mm dia	each	₹ 23.00
19038	G.I. tees (equal) 25 mm	each	₹ 64.00
19039	G.I. tees (equal) 65 mm	each	₹ 280.00
19040	G.I. Union 15 mm nominal bore	each	₹ 48.00
19041	G.I. Union 20 mm nominal bore	each	₹ 64.00
19042	G.I. Union 25 mm nominal bore	each	₹ 80.00
19043	G.I. Union 32 mm nominal bore	each	₹ 127.00
19044	G.I. Union 40 mm nominal bore	each	₹ 180.00
19045	G.I. Union 50 mm nominal bore	each	₹ 239.00
19046	G.I. Union 65 mm nominal bore	each	₹ 420.00
19047	G.I. Union 80mm nominal bore	each	₹ 500.00
19048	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	₹ 7.25
19049	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	₹ 35.00
19050	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	₹ 50.00
19051	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	₹ 50.00
19052	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	₹ 70.00
19053	S.C.I. hand pump	each	₹ 750.00
19054	Shower rose C.P.brass for 15 to 20 mm inlet 100 mm dia	each	₹ 70.00
19055	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	₹ 100.00
19056	Spun yarn	kilogram	₹ 43.00
19057	Strainer brass 40 mm dia 1.5 metre long	each	₹ 580.00
19058	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	₹ 250.00
19059	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	₹ 372.00
19060	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	₹ 430.00

Code No.	Description	Unit	Rate
19061	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	₹ 336.00
19062	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	₹ 424.00
19063	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	₹ 473.00
19064	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	₹ 691.00
19065	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	₹ 1,002.00
19066	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	₹ 1,660.00
19067	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	₹ 340.00
19068	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	₹ 437.00
19069	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	₹ 587.00
19070	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	₹ 884.00
19071	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	₹ 1,553.00
19072	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	₹ 2,204.00
19073	C.I.slucice valve (with caps) class I : 100 mm dia	each	₹ 2,705.00
19074	C.I.slucice valve (with caps) class I : 125 mm dia	each	₹ 3,385.00
19075	C.I.slucice valve (with caps) class I : 150 mm dia	each	₹ 4,064.00
19076	C.I.slucice valve (with caps) class I : 200 mm dia	each	₹ 7,735.00
19077	C.I.slucice valve (with caps) class I : 250 mm dia	each	₹ 11,520.00
19078	C.I.slucice valve (with caps) class I : 300 mm dia	each	₹ 14,196.00
19079	Bolts and nuts 16 mm dia 60 mm long	each	₹ 12.00
19080	Bolts and nuts 16 mm dia 65 mm long	each	₹ 12.00
19081	Bolts and nuts 20 mm dia 65 mm long	each	₹ 17.00
19082	Bolts and nuts 20 mm dia 70 mm long	each	₹ 17.00
19083	Bolts and nuts 20 mm dia 75 mm long	each	₹ 17.00
19084	Bolts and nuts 20 mm dia 80 mm long	each	₹ 19.00
19085	Bolts and nuts 24 mm dia 85 mm long	each	₹ 34.00
19086	Bolts and nuts 24 mm dia 90 mm long	each	₹ 37.00
19087	Bolts and nuts 27 mm dia 100 mm long	each	₹ 43.00

Code No.	Description	Unit	Rate
06001	Bricks 1st Class	1000 Nos	₹ 8,027.00
06002	Bricks 2nd Class	1000 Nos	₹ 6,690.00
19088	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	₹ 372.00
19089	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	₹ 551.00
19090	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	₹ 723.00
19091	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	₹ 1,019.00
19092	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	₹ 1,782.00
19093	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	₹ 2,332.00
19094	C.I.sluice valve (with caps) class II : 100 mm dia	each	₹ 2,791.00
19095	C.I.sluice valve (with caps) class II : 125 mm dia	each	₹ 3,528.00
19096	C.I.sluice valve (with caps) class II : 150 mm dia	each	₹ 4,293.00
19097	C.I.sluice valve (with caps) class II : 200 mm dia	each	₹ 8,300.00
19098	C.I.sluice valve (with caps) class II : 250 mm dia	each	₹ 11,734.00
19099	C.I.sluice valve (with caps) class II : 300 mm dia	each	₹ 14,668.00
19100	C.P. Brass bib cock 15 mm	each	₹ 380.00
19101	C.P. Brass long nose bibcock 15 mm	each	₹ 350.00
19102	C.P. Brass long body bibcock 15 mm	each	₹ 400.00
19103	C.P. Brass stop cock (concealed) 15 mm	each	₹ 430.00
19104	C.P. Brass angle valve 15 mm	each	₹ 390.00
19105	15 mm PTMT bib cock	each	₹ 100.00
19106	15 mm PTMT bib cock with flange (fancy)	each	₹ 155.00
19107	15 mm PTMT bib cock long body with flange	each	₹ 155.00
19108	15 mm dia PTMT stop cock(male thread)	each	₹ 100.00
19109	20 mm dia. PTMT stop cock	each	₹ 135.00
19110	PTMT pillar cock	each	₹ 145.00
19111	PTMT push cock 15 mm dia.	each	₹ 90.00
19112	PTMT push cock 12 mm dia. 20 mm BSP	each	₹ 82.00
19113	PTMT grating 100 mm dia.	each	₹ 26.00
19114	PTMT grating 75 mm dia.	each	₹ 34.00
19115	125 mm grating with waste hole	each	₹ 35.00
19116	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia. (110 gm)	each	₹ 125.00
19117	Double acting air valve 50 mm	each	₹ 4,000.00
19118	Double acting air valve 80 mm	each	₹ 5,000.00
19119	Double acting air valve 100 mm	each	₹ 6,500.00

Code No.	Description	Unit	Rate
19120	Water meter (including testing charges) 80 mm	each	₹ 2,400.00
19121	Water meter (including testing charges) 100 mm	each	₹ 3,500.00
19122	Water meter (including testing charges) 150 mm	each	₹ 5,000.00
19123	Water meter (including testing charges) 200 mm	each	₹ 5,800.00
19124	Dirt box strainer 80 mm	each	₹ 2,800.00
19125	Dirt box strainer 100 mm	each	₹ 4,600.00
19126	Dirt box strainer 150 mm	each	₹ 5,600.00
19127	Dirt box strainer 200 mm	each	₹ 8,400.00
19128	PTMT Ball Cock 15mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	₹ 120.00
19129	PTMT Ball Cock 20mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	₹ 175.00
19130	PTMT Ball Cock 25mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	₹ 340.00
19131	PTMT Ball Cock 40mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	₹ 560.00
19132	PTMT Ball Cock 50mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	₹ 1,010.00
19133	PTMT Angle Stop cock with Flange 15mm	Each	₹ 110.00
19134	PTMT Swiveling shower 15mm	Each	₹ 80.00
19135	PTMT Soap Dish/Holder 138x102x75mm	Each	₹ 90.00
19136	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100mm dia	Metre	₹ 880.00
19137	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150mm dia	Metre	₹ 1,300.00
19138	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200mm dia	Metre	₹ 1,800.00
19139	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250mm dia	Metre	₹ 2,300.00
19140	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 300mm dia	Metre	₹ 2,950.00
19141	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350mm dia	Metre	₹ 3,450.00
19142	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 400mm dia	Metre	₹ 5,000.00
19143	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450mm dia	Metre	₹ 5,500.00
19144	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500mm dia	Metre	₹ 7,200.00
19145	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 600mm dia	Metre	₹ 8,100.00
19146	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700mm dia	Metre	₹ 11,250.00
19147	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750mm dia	Metre	₹ 12,900.00
19148	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800mm dia	Metre	₹ 13,150.00

Code No.	Description	Unit	Rate
19149	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900mm dia	Metre	₹ 15,400.00
19150	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000mm dia	Metre	₹ 17,300.00
19151	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100mm dia	Each	₹ 30.00
19152	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150mm dia	Each	₹ 35.00
19153	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200mm dia	Each	₹ 60.00
19154	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250mm dia	Each	₹ 70.00
19155	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300mm dia	Each	₹ 125.00
19156	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350mm dia	Each	₹ 130.00
19157	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400mm dia	Each	₹ 250.00
19158	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450mm dia	Each	₹ 270.00
19159	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500mm dia	Each	₹ 300.00
19160	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600mm dia	Each	₹ 375.00
19161	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 650mm dia	Each	₹ 575.00
19162	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700mm dia	Each	₹ 700.00
19163	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800mm dia	Each	₹ 750.00
19164	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900mm dia	Each	₹ 990.00
19165	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000mm dia	Each	₹ 1,180.00
19166	Ductile Iron K - 12 specials suitable for push on jointing up to 600mm dia	Quintal	₹ 12,000.00
19167	Ductile Iron K - 12 specials suitable for push on jointing over 600mm dia	Quintal	₹ 18,000.00
19168	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 -up to 600mm dia	Quintal	₹ 13,451.00
19169	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600mm dia	Quintal	₹ 19,600.00
19170	Ductile Iron Pipe Class K-9 flanges and welding 100mm dia	Metre	₹ 1,275.00
19171	Ductile Iron Pipe Class K-9 flanges and welding 150 dia	metre	₹ 1,764.00
19172	Ductile Iron Pipe Class K-9 flanges and welding 200mm dia	Metre	₹ 2,287.00
19173	Ductile Iron Pipe Class K-9 flanges and welding 250mm dia	Metre	₹ 3,200.00
19174	Ductile Iron Pipe Class K-9 flanges and welding 300mm dia	metre	₹ 4,100.00

Code No.	Description	Unit	Rate
19175	Ductile Iron Pipe Class K-9 flanges and welding 350mm dia	Metre	₹ 5,000.00
19176	Ductile Iron Pipe Class K-9 flanges and welding 400mm dia	Metre	₹ 6,550.00
19177	Ductile Iron Pipe Class K-9 flanges and welding 450mm dia	Metre	₹ 7,100.00
19178	Ductile Iron Pipe Class K-9 flanges and welding 500mm dia	Metre	₹ 9,900.00
19179	Ductile Iron Pipe Class K-9 flanges and welding 600mm dia	Metre	₹ 12,800.00
19180	Ductile Iron Pipe Class K-9 flanges and welding 700mm dia	Metre	₹ 15,800.00
19181	S&S Centrifugally (Spun) C.I. Pipe class LA 100mm dia	Metre	₹ 900.00
19182	S&S Centrifugally (Spun) C.I. Pipe class LA 125mm dia	metre	₹ 1,200.00
19183	S&S Centrifugally (Spun) C.I. Pipe class LA 150mm dia	metre	₹ 1,450.00
19184	S&S Centrifugally (Spun) C.I. Pipe class LA 200mm dia	Metre	₹ 2,400.00
19185	S&S Centrifugally (Spun) C.I. Pipe class LA 250mm dia	Metre	₹ 3,000.00
19186	S&S Centrifugally (Spun) C.I. Pipe class LA 300mm dia	Metre	₹ 4,100.00
19187	S&S Centrifugally (Spun) C.I. Pipe class LA 350mm dia	metre	₹ 4,950.00
19188	S&S Centrifugally (Spun) C.I. Pipe class LA 400mm dia	Metre	₹ 6,500.00
19189	S&S Centrifugally (Spun) C.I. Pipe class LA 450mm dia	Metre	₹ 7,900.00
19190	S&S Centrifugally (Spun) C.I. Pipe class LA 500mm dia	Metre	₹ 9,100.00
19191	S&S Centrifugally (Spun) C.I. Pipe class LA 600mm dia	Metre	₹ 12,800.00
19192	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300mm dia for lead jointing up to 300mm dia	Quintal	₹ 5,150.00
19193	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300mm dia	Quintal	₹ 6,250.00
19194	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300mm dia	Quintal	₹ 8,500.00
19195	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per IS 13382 over 300mm dia	Quintal	₹ 9,100.00
19196	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100mm dia	Metre	₹ 1,380.00
19197	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150mm dia	Metre	₹ 2,150.00

Code No.	Description	Unit	Rate
19198	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200mm dia	Metre	₹ 3,350.00
19199	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250mm dia	Metre	₹ 4,000.00
19200	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300mm dia	Metre	₹ 5,120.00
19201	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350mm dia	Metre	₹ 6,460.00
19202	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400mm dia	metre	₹ 8,380.00
19203	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450mm dia	Metre	₹ 10,700.00
19204	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500mm dia	metre	₹ 13,500.00
19205	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600mm dia	Metre	₹ 18,400.00
19206	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100mm dia	Metre	₹ 800.00
19207	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150mm dia	Metre	₹ 1,170.00
19208	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200mm dia	Metre	₹ 1,660.00
19209	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250mm dia	Metre	₹ 2,250.00
19210	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300mm dia	Metre	₹ 3,150.00
19211	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350mm dia	Metre	₹ 3,650.00
19212	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400mm dia	Metre	₹ 4,350.00
19213	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450mm dia	Metre	₹ 5,150.00
19214	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500mm dia	Metre	₹ 6,150.00
19215	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600mm dia	metre	₹ 8,110.00
19216	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700mm dia	Metre	₹ 10,050.00
19217	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800mm dia	Metre	₹ 14,000.00
19218	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900mm dia	metre	₹ 17,250.00
19219	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000mm dia	metre	₹ 20,950.00

Code No.	Description	Unit	Rate
19220	P.T.M.T. Bib cock with nozzle 15mm	each	₹ 130.00
19221	P.T.M.T. Stop cock (concealed) 15mm	each	₹ 150.00
19222	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	₹ 38.00
19223	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	₹ 40.00
19224	P.T.M.T. extension nipple 15mm	each	₹ 25.00
19225	P.T.M.T. extension nipple 20mm	each	₹ 35.00
19226	P.T.M.T. extension nipple 25mm	each	₹ 45.00
19227	1216 mm PE-AL-PE Composite pressure pipe	Metre	₹ 90.00
19228	1620 mm PE-AL-PE Composite pressure pipe	Metre	₹ 110.00
19229	2025 mm PE-AL-PE Composite pressure pipe	Metre	₹ 140.00
19230	2532 mm PE-AL-PE Composite pressure pipe	Metre	₹ 175.00
19231	3240 mm PE-AL-PE Composite pressure pipe	Metre	₹ 260.00
19232	4050 mm PE-AL-PE Composite pressure pipe	Metre	₹ 350.00
12037	Steel Primer	litre	₹ 85.00
19233	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 Outer dia	metre	₹ 38.00
19234	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 -20mm Outer dia.	metre	₹ 58.00
19235	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia.	metre	₹ 75.00
19236	Poly propylene - Random - Co - poymer (PPR) pipes SDR 7.4 -32 mm Outer dia.	metre	₹ 112.00
19237	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -40mm Outer dia.	metre	₹ 150.00
19238	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -50mm Outer dia.	metre	₹ 260.00
19239	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -63mm Outer dia.	metre	₹ 700.00
19240	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -75mm Outer dia.	metre	₹ 790.00
19241	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 -90 mm Outer dia.	metre	₹ 950.00
19242	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 -110mm Outer dia.	metre	₹ 1,050.00
19243	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11-160mm Outer dia.	metre	₹ 1,750.00
19244	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia.	metre	₹ 45.00
19245	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia.	metre	₹ 65.00

Code No.	Description	Unit	Rate
19246	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia.	metre	₹ 85.00
19247	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia.	metre	₹ 125.00
19248	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia.	metre	₹ 165.00
19249	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia.	metre	₹ 285.00
19250	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5mm inner dia.	metre	₹ 720.00
19251	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia.	metre	₹ 820.00
19252	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia.	metre	₹ 1,030.00
19253	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia.	metre	₹ 1,700.00
19254	15 mm Battery Based Sensor Pillar Cock	each	₹ 5,800.00

SUB HEAD : 19.0

WATER SUPPLY

Code No.	Description	Unit	Rate
PE-AL-PE COMPOSITE PRESSURE PIPES			
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 ⁰ 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.		
<i>Internal work - Exposed on wall</i>			
19.1.1	1216 (16 mm OD) pipe	metre	₹ 208.70
19.1.2	1620 (20 mm OD) pipe	metre	₹ 244.00
19.1.3	2025 (25 mm OD) pipe	metre	₹ 295.30
19.1.4	2532 (32 mm OD) pipe	metre	₹ 373.80
19.1.5	3240 (40 mm OD) pipe	metre	₹ 531.30
19.1.6	4050 (50 mm OD) pipe	metre	₹ 670.80
19.2	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 ⁰ 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.		
<i>Concealed work including cutting chases and making good the wall etc.</i>			
19.2.1	1216 (16 mm OD) pipe	metre	₹ 373.10
19.2.2	1620 (20 mm OD) pipe	metre	₹ 411.00
19.2.3	2025 (25 mm OD) pipe	metre	₹ 469.60
19.2.4	2532 (32 mm OD) pipe	metre	₹ 534.90

Code No.	Description	Unit	Rate
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 ⁰ 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.		
	<i>External work</i>		
19.3.1	1216 (16 mm OD) pipe	metre	₹ 229.80
19.3.2	1620 (20 mm OD) pipe	metre	₹ 256.80
19.3.3	2025 (25 mm OD) pipe.	metre	₹ 301.90
19.3.4	2532 (32 mm OD) pipe.	metre	₹ 363.90
19.3.5	3240 (40 mm OD) pipe.	metre	₹ 513.70
19.3.6	4050 (50 mm OD) pipe.	metre	₹ 652.90
	PP - R PIPES		
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.		
	<i>Internal work - Exposed on wall</i>		
19.4.1	PN-16 Pipe, 16 mm OD	metre	₹ 139.00
19.4.2	PN-16 Pipe, 20 mm OD	metre	₹ 168.20
19.4.3	PN-16 Pipe, 25 mm OD	metre	₹ 199.10
19.4.4	PN-16 Pipe, 32 mm OD	metre	₹ 276.40
19.4.5	PN-16 Pipe, 40 mm OD	metre	₹ 359.30
19.4.6	PN-16 Pipe, 50 mm OD	metre	₹ 533.00

Code No.	Description	Unit	Rate
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.		
	<i>Concealed work including cutting chases and making good the walls etc.</i>		
19.5.1	PN- 16 Pipe, 16 mm OD	metre	₹ 277.70
19.5.2	PN- 16 Pipe, 20 mm OD	metre	₹ 312.30
19.5.3	PN- 16 Pipe, 25 mm OD	metre	₹ 343.10
19.5.4	PN- 16 Pipe, 32 mm OD	metre	₹ 412.90
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.		
	<i>External work</i>		
19.6.1	PN-16 Pipe, 16 mm OD (SDR-7.4)	metre	₹ 126.40
19.6.2	PN-16 Pipe, 20 mm OD (SDR-7.4)	metre	₹ 157.40
19.6.3	PN-16 Pipe, 25 mm OD (SDR-7.4)	metre	₹ 185.20
19.6.4	PN-16 Pipe, 32 mm OD (SDR-7.4)	metre	₹ 244.40
19.6.5	PN-16 Pipe, 40 mm OD (SDR-7.4)	metre	₹ 318.00
19.6.6	PN-16 Pipe, 50 mm OD (SDR-7.4)	metre	₹ 494.70
19.6.7	PN-16 Pipe, 63 mm OD (SDR-7.4)	metre	₹ 1,201.80
19.6.8	PN-16 Pipe, 75 mm OD (SDR-7.4)	metre	₹ 1,350.70
19.6.9	PN-16 Pipe, 90 mm OD (SDR-7.4)	metre	₹ 1,618.40
19.6.10	PN-10 Pipe, 110 mm OD(SDR-11)	metre	₹ 1,777.10
19.6.11	PN-10 Pipe, 160 mm OD(SDR-11)	metre	₹ 2,921.30
	C.P.V.C. PIPES		
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.		

Code No.	Description	Unit	Rate
Internal work - Exposed on wall			
19.7.1	15 mm nominal outer dia .Pipes.	metre	₹ 148.00
19.7.2	20 mm nominal outer dia .Pipes.	metre	₹ 174.80
19.7.3	25 mm nominal outer dia .Pipes.	metre	₹ 231.90
19.7.4	32 mm nominal outer dia .Pipes.	metre	₹ 304.50
19.7.5	40 mm nominal outer dia .Pipes.	metre	₹ 360.30
19.7.6	50 mm nominal outer dia .Pipes.	metre	₹ 543.90
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	15 mm nominal outer dia .Pipes.	metre	₹ 277.80
19.8.2	20 mm nominal outer dia .Pipes.	metre	₹ 315.00
19.8.3	25 mm nominal outer dia .Pipes.	metre	₹ 350.50
19.8.4	32 mm nominal outer dia .Pipes.	metre	₹ 428.40
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.		
External work			
19.9.1	15 mm nominal outer dia .Pipes.	metre	₹ 138.00
19.9.2	20 mm nominal outer dia .Pipes.	metre	₹ 168.90
19.9.3	25 mm nominal outer dia .Pipes.	metre	₹ 202.40
19.9.4	32 mm nominal outer dia .Pipes.	metre	₹ 262.60
19.9.5	40 mm nominal outer dia .Pipes.	metre	₹ 337.80
19.9.6	50 mm nominal outer dia .Pipes.	metre	₹ 525.10
19.9.7	62.50 mm nominal inner dia .Pipes.	metre	₹ 1,220.30
19.9.8	75 mm nominal inner dia .Pipes.	metre	₹ 1,423.70
19.9.9	100 mm nominal inner dia .Pipes.	metre	₹ 1,789.50
19.9.10	150 mm nominal inner dia .Pipes.	metre	₹ 2,930.90

Code No.	Description	Unit	Rate
G.L. PIPES			
19.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. <i>Internal work - Exposed on wall.</i>		
19.10.1	15 mm dia. nominal bore	metre	₹ 195.60
19.10.2	20 mm dia. nominal bore	metre	₹ 245.50
19.10.3	25 mm dia. nominal bore	metre	₹ 294.70
19.10.4	32 mm dia. nominal bore	metre	₹ 395.10
19.10.5	40 mm dia. nominal bore	metre	₹ 463.30
19.10.6	50 mm dia. nominal bore	metre	₹ 635.70
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	15 mm dia nominal bore	metre	₹ 350.30
19.11.2	20 mm dia nominal bore	metre	₹ 409.30
19.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. <i>External work</i>		
19.12.1	15 mm dia. nominal bore	metre	₹ 190.60
19.12.2	20 mm dia. nominal bore	metre	₹ 233.30
19.12.3	25 mm dia. nominal bore	metre	₹ 275.00
19.12.4	32 mm dia. nominal bore	metre	₹ 355.50
19.12.5	40 mm dia. nominal bore	metre	₹ 400.40
19.12.6	50 mm dia. nominal bore	metre	₹ 527.40
19.12.7	65 mm dia. nominal bore	metre	₹ 614.30
19.12.8	80 mm dia. nominal bore	metre	₹ 746.90
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	25 to 40 mm nominal bore	each	₹ 395.30
19.13.2	50 to 80 mm nominal bore	each	₹ 728.60
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).	each	₹ 327.90
BRASS FITTINGS			
19.15	Providing and fixing brass bib cock of approved quality :		
19.15.1	15 mm nominal bore	each	₹ 267.40

Code No.	Description	Unit	Rate
19.15.2	20 mm nominal bore	each	₹ 328.00
19.16	Providing and fixing brass stop cock of approved quality :		
19.16.1	15 mm nominal bore	each	₹ 278.50
19.16.2	20 mm nominal bore	each	₹ 396.10
19.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):		
19.17.1	25 mm nominal bore	each	₹ 413.90
19.17.2	32 mm nominal bore	each	₹ 522.30
19.17.3	40 mm nominal bore	each	₹ 582.70
19.17.4	50 mm nominal bore	each	₹ 843.00
19.17.5	65 mm nominal bore	each	₹ 1,216.50
19.17.6	80 mm nominal bore	each	₹ 2,005.60
19.18	Providing and fixing ball valve (brass) of approved quality complete :		
19.18.1	15 mm nominal bore	each	₹ 326.80
19.18.2	20 mm nominal bore	each	₹ 484.70
19.18.3	25 mm nominal bore	each	₹ 560.30
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	Horizontal	each	₹ 422.90
19.19.1.2	Vertical	each	₹ 462.70
19.19.2	32 mm nominal bore		
19.19.2.1	Horizontal	each	₹ 540.90
19.19.2.2	Vertical	each	₹ 682.00
19.19.3	40 mm nominal bore		
19.19.3.1	Horizontal	each	₹ 723.10
19.19.3.2	Vertical	each	₹ 890.60
19.19.4	50 mm nominal bore		
19.19.4.1	Horizontal	each	₹ 1,078.50
19.19.4.2	Vertical	each	₹ 1,243.20
19.19.5	65 mm nominal bore		
19.19.5.1	Horizontal	each	₹ 1,876.30
19.19.5.2	Vertical	each	₹ 2,153.00
19.19.6	80 mm nominal bore		
19.19.6.1	Horizontal	each	₹ 2,636.70
19.19.6.2	Vertical	each	₹ 2,789.90

Code No.	Description	Unit	Rate
19.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :		
19.20.1	15 mm nominal bore	each	₹ 248.70
19.20.2	20 mm nominal bore	each	₹ 289.30
19.20.3	25 mm nominal bore	each	₹ 364.60
19.21	Providing and fixing uplasticised PVC connection pipe with brass unions :		
19.2.1	30 cm length		
19.21.1.1	15 mm nominal bore	each	₹ 70.50
19.21.2.1	20 mm nominal bore	each	₹ 88.80
19.21.2	45 cm length		
19.21.2.1	15 mm nominal bore	each	₹ 91.80
19.21.2.2	20 mm nominal bore	each	₹ 116.10
19.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet:		
19.22.1	100 mm diameter	each	₹ 103.60
19.22.2	150 mm diameter	each	₹ 144.50
C.I / DUCTILE IRON PIPES & SPECIALS			
19.23	Laying in position centrifugally cast (spun) iron S&S or flanged pipes (excluding cost of pipe).	quintal	₹ 130.40
19.24	Laying in position S&S or flanged C.I. special such tees, bends collars, tapers and caps etc. (excluding cost of specials).	quintal	₹ 233.50
19.25	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class).		
19.25.1	Upto 300 mm dia.	quintal	₹ 4,787.10
19.25.2	Over 300 mm dia.	quintal	₹ 4,803.80
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 :		
19.26.1	Upto 300 mm dia.	quintal	₹ 7,740.70
19.26.2	Over 300 mm dia.	quintal	₹ 7,822.20
19.27	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536		
19.27.1	100 mm dia. Pipe	metre	₹ 1,110.50
19.27.2	125 mm dia. Pipe	metre	₹ 1,467.20
19.27.3	150 mm dia. Pipe	metre	₹ 1,792.10

Code No.	Description	Unit	Rate
19.27.4	200 mm dia. Pipe	metre	₹ 2,955.80
19.27.5	250 mm dia. Pipe	metre	₹ 3,701.40
19.27.6	300 mm dia. Pipe	metre	₹ 5,050.30
19.27.7	350 mm dia. Pipe	metre	₹ 6,102.40
19.27.8	400 mm dia. Pipe	metre	₹ 7,979.20
19.27.9	450 mm dia. Pipe	metre	₹ 9,700.10
19.27.10	500 mm dia. Pipe	metre	₹ 11,154.00
19.27.11	600 mm dia. Pipe	metre	₹ 15,645.30
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 :		
19.28.1	100 mm dia. Pipe	each	₹ 186.10
19.28.2	125 mm dia. Pipe	each	₹ 271.70
19.28.3	150 mm dia. Pipe	each	₹ 276.30
19.28.4	200 mm dia. Pipe	each	₹ 363.00
19.28.5	250 mm dia. Pipe	each	₹ 459.70
19.28.6	300 mm dia. Pipe	each	₹ 546.80
19.28.7	350 mm dia. Pipe	each	₹ 566.60
19.28.8	400 mm dia. Pipe	each	₹ 733.60
19.28.9	450 mm dia. Pipe	each	₹ 826.70
19.28.10	500 mm dia. Pipe	each	₹ 881.70
19.28.11	600 mm dia. Pipe	each	₹ 1,181.40
19.29	Supplying pig lead at site of work.	quintal	₹ 16,596.10
19.3	Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints:		
19.30.1	80 mm dia. Pipe	each	₹ 116.20
19.30.2	100 mm dia. Pipe	each	₹ 195.20
19.30.3	125 mm dia. Pipe	each	₹ 198.10
19.30.4	150 mm dia. Pipe	each	₹ 259.20
19.30.5	200 mm dia. Pipe	each	₹ 270.50
19.30.6	250 mm dia. Pipe	each	₹ 387.20
19.30.7	300 mm dia. Pipe	each	₹ 400.80
19.30.8	350 mm dia. Pipe	each	₹ 546.90
19.30.9	400 mm dia. Pipe	each	₹ 875.20
19.30.10	450 mm dia. Pipe	each	₹ 1,087.90
19.30.11	500 mm dia. Pipe	each	₹ 1,208.40
19.30.12	600 mm dia. Pipe	each	₹ 1,392.20

C.I. SLUICE VALVES / FIRE HYDRANTS & FIXTURES

Code No.	Description	Unit	Rate
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):		
19.31.1	100 mm diameter		
19.31.1.1	Class I	each	₹ 3,679.20
19.31.1.2	Class II	each	₹ 3,781.80
19.31.2	125 mm diameter		
19.31.2.1	Class I	each	₹ 4,490.20
19.31.2.2	Class II	each	₹ 4,669.40
19.31.3	150 mm diameter		
19.31.3.1	Class I	each	₹ 5,405.20
19.31.3.2	Class II	each	₹ 5,676.50
19.31.4	200 mm diameter		
19.31.4.1	Class I	each	₹ 9,944.70
19.31.4.2	Class II	each	₹ 10,636.00
19.31.5	250 mm diameter		
19.31.5.1	Class I	each	₹ 14,748.20
19.31.5.2	Class II	each	₹ 15,024.20
19.31.6	300 mm diameter		
19.31.6.1	Class I	each	₹ 18,129.60
19.31.6.2	Class II	each	₹ 18,728.30
19.32	Constructing masonry Chamber 30x30x50 cm, inside , in 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	each	₹ 1,621.60

Code No.	Description	Unit	Rate
19.33	Constructing masonry Chamber 60x60x75 cm, inside in 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 190 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	each	₹ 7,488.40
19.34	Constructing masonry Chamber 90x90x100 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 190 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	each	₹ 12,647.30
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	each	₹ 16,850.00

Code No.	Description	Unit	Rate
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	With Second Class bricks	each	₹ 7,287.10
19.37	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 bricks	each	₹ 6,776.80
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 :		
19.38.1	15 mm diameter pipe	metre	₹ 8.50
19.38.2	20 mm diameter pipe	metre	₹ 9.60
19.38.3	25 mm diameter pipe	metre	₹ 12.60
19.38.4	32 mm diameter pipe	metre	₹ 15.30
19.38.5	40 mm diameter pipe	metre	₹ 18.80
19.38.6	50 mm diameter pipe	metre	₹ 21.00
19.39	Repainting G.I. pipes and fittings with synthetic enamel white paint of approved quality :		
19.39.1	15 mm diameter pipe	metre	₹ 5.10
19.39.2	20 mm diameter pipe	metre	₹ 5.70
19.39.3	25 mm diameter pipe	metre	₹ 7.10
19.39.4	32 mm diameter pipe	metre	₹ 8.50
19.39.5	40 mm diameter pipe	metre	₹ 9.80

Code No.	Description	Unit	Rate
19.39.6	50 mm diameter pipe	metre	₹ 11.50
19.40	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :		
19.40.1	15 mm diameter pipe	metre	₹ 6.00
19.40.2	20 mm diameter pipe	metre	₹ 7.10
19.40.3	25 mm diameter pipe	metre	₹ 8.60
19.40.4	32 mm diameter pipe	metre	₹ 10.80
19.40.5	40 mm diameter pipe	metre	₹ 12.50
19.40.6	50 mm diameter pipe	metre	₹ 14.00
19.40.7	65 mm diameter pipe	metre	₹ 20.10
19.40.8	80 mm diameter pipe	metre	₹ 24.80
19.41	Providing and filling sand of grading zone IV or fine grade around the G.I. pipes in external work.		
19.41.1	15 mm diameter pipe	metre	₹ 45.60
19.41.2	20 mm diameter pipe	metre	₹ 47.80
19.41.3	25 mm diameter pipe	metre	₹ 49.40
19.41.4	32 mm diameter pipe	metre	₹ 51.10
19.41.5	40 mm diameter pipe	metre	₹ 51.70
19.41.6	50 mm diameter pipe	metre	₹ 53.60
19.41.7	65 mm diameter pipe	metre	₹ 81.90
19.41.8	80 mm diameter pipe	metre	₹ 84.40
19.41.9	100 mm diameter pipe	metre	₹ 90.30
19.41.10	150 mm diameter pipe	metre	₹ 134.90
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.	metre	₹ 379.70
19.42.2	Beyond 6m and upto 12 m depth.	metre	₹ 449.80
19.42.3	Beyond 12 m and upto 19 m depth.	metre	₹ 523.80
19.43	Providing and placing in position filters of 40 mm diameter G.I. pipe with brass strainer of approved quality.	metre	₹ 595.70
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.	metre	₹ 343.00
19.45	Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.	each	₹ 1,154.80

Code No.	Description	Unit	Rate
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	each	₹ 145.50
19.46.2	20 mm nominal bore	each	₹ 164.40
19.46.3	25 mm nominal bore	each	₹ 183.40
19.46.4	32 mm nominal bore	each	₹ 239.00
19.46.5	40 mm nominal bore	each	₹ 301.80
19.46.6	50 mm nominal bore	each	₹ 403.90
19.46.7	65 mm nominal bore	each	₹ 618.30
19.46.8	80 mm nominal bore	each	₹ 713.10
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 :		
19.47.1	15 mm nominal bore	each	₹ 353.30
19.47.2	20 mm nominal bore	each	₹ 408.60
19.47.3	25 mm nominal bore	each	₹ 442.00
19.47.4	32 mm nominal bore	each	₹ 539.90
19.47.5	40 mm nominal bore	each	₹ 617.00
19.47.6	50 mm nominal bore	each	₹ 822.30
19.47.7	65 mm nominal bore	each	₹ 1,058.90
19.47.8	80 mm nominal bore	each	₹ 1,191.90
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.	per litre	₹ 9.50
	C.P. BRASS FITTINGS		
19.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931		
19.49.1	15 mm nominal bore	each	₹ 472.60
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	15 mm nominal bore	each	₹ 447.70
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.		

Code No.	Description	Unit	Rate
19.51.1	15mm nominal bore.	each	₹ 511.70
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	15 mm nominal bore.	each	₹ 539.90
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	15 mm nominal bore	each	₹ 487.40
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.	each	₹ 56.20
	PTMT FITTINGS		
19.54	Providing and fixing PTMT bib cock of approved quality and colour.		
19.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms.	each	₹ 131.50
19.54.2	15 mm nominal bore, 122 mm long, weighing not less than 99 gms.	each	₹ 192.80
19.54.3	15 mm nominal bore, 165 mm long, weighing not less than 110 grams.	each	₹ 202.00
19.54.4	15mm nominal bore, 90 mm long, weighing not less than 93 gms.	each	₹ 166.30
19.55	Providing and fixing PTMT stop cock of approved quality and colour.		
19.55.1	15 mm nominal bore, 86mm long, weighing not less than 88 grams.	each	₹ 131.50
19.55.2	20 mm nominal bore, 89mm long, weighing not less than 88 grams.	each	₹ 175.90
19.55.3	Concealed stop cock, 15mm nominal bore, 108mm long, weighing not less than 108 grams.	each	₹ 191.00
19.56	Providing and fixing PTMT pillar cock of approved quality and colour .		
19.56.1	15mm nominal bore, 107mm long, weighing not less than 110 grams.	each	₹ 185.50
19.56.2	15mm nominal bore, 125mm long foam flow, Weighing not less than 120 gms.	each	₹ 194.60
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 75 gms.	each	₹ 119.40
19.57.2	15 mm nominal bore, 80mm long, Weighing not less than 46 gms.	each	₹ 110.70

Code No.	Description	Unit	Rate
19.58	Providing and fixing PTMT grating of approved quality and colour.		
19.58.1	Circular type.		
19.58.1.1	100 mm nominal dia.	each	₹ 37.00
19.58.1.2	125 mm nominal dia with 25 mm waste hole.	each	₹ 48.50
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.	each	₹ 159.20
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	50 mm dia	each	₹ 4,918.80
19.59.2	80 mm dia	each	₹ 6,111.10
19.59.3	100 mm dia	each	₹ 7,929.30
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	each	₹ 3,272.70
19.60.2	100 mm dia nominal bore	each	₹ 4,771.80
19.60.3	150 mm dia nominal bore	each	₹ 6,788.00
19.60.4	200 mm dia nominal bore	each	₹ 7,838.30
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	80 mm dia	each	₹ 3,818.90
19.61.2	100 mm dia	each	₹ 6,075.00
19.61.3	150 mm dia	each	₹ 7,429.10
19.61.4	200 mm dia	each	₹ 10,898.60
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.	each	₹ 172.00
19.62.2	20 mm nominal bore, 120mm long, weighing not less than 198gms.	each	₹ 244.60
19.62.3	25 mm nominal bore, 152mm long, weighing not less than 440gms.	each	₹ 475.20

Code No.	Description	Unit	Rate
19.62.4	40mm nominal bore, 206mm long, weighing not less than 690gms.	each	₹ 709.80
19.62.5	50 mm nominal bore, 242 mm long, weighing not less than 1240gms.	each	₹ 1,268.10
19.63	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85gms.	each	₹ 143.30
19.64	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40gms.	each	₹ 106.10
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.	each	₹ 117.30
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	quintal	₹ 6,682.70
19.66.2	Above 300 mm dia	quintal	₹ 7,884.70
19.67	Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS : 13382		
19.67.1	Upto 300 mm dia	quintal	₹ 10,812.90
19.67.2	Above 300 mm dia	quintal	₹ 11,580.60
19.68	Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS : 9523		
19.68.1	Upto 600 mm dia	quintal	₹ 14,532.80
19.68.2	Above 600 mm dia	quintal	₹ 21,616.80
19.69	Providing and laying D.I Specials of Class K-12 suitable for mechanical jointing as per IS :9523		
19.69.1	Upto 600 mm dia	quintal	₹ 16,255.80
19.69.2	Above 600 mm dia	quintal	₹ 23,513.50
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:		
19.70.1	100 mm dia pipes	joint	₹ 69.00
19.70.2	150 mm dia pipes	joint	₹ 105.20
19.70.3	200 mm dia pipes	joint	₹ 157.30
19.70.4	250 mm dia pipes	joint	₹ 192.40
19.70.5	300 mm dia pipes	joint	₹ 266.80
19.70.6	350 mm dia pipes	joint	₹ 279.20
19.70.7	400 mm dia pipes	joint	₹ 467.80
19.70.8	450 mm dia pipes	joint	₹ 507.00

Code No.	Description	Unit	Rate
19.70.9	500 mm dia pipes	joint	₹ 554.80
19.70.10	600 mm dia pipes	joint	₹ 709.50
19.70.11	650 mm dia pipes	joint	₹ 988.70
19.70.12	700 mm dia pipes	joint	₹ 1,169.00
19.70.13	800 mm dia pipes	joint	₹ 1,240.80
19.70.14	900 mm dia pipes	joint	₹ 1,577.20
19.70.15	1000 mm dia pipes	joint	₹ 1,840.50
19.71	Providing and laying Double Flanged (screwed/ welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536):		
19.71.1	100 mm dia C.I. Double Flanged Pipe	metre	₹ 1,689.80
19.71.2	150 mm dia C.I. Double Flanged Pipe	metre	₹ 2,635.90
19.71.3	200 mm dia C.I. Double Flanged Pipe	metre	₹ 4,100.50
19.71.4	250 mm dia C.I. Double Flanged Pipe	metre	₹ 4,910.60
19.71.5	300 mm dia C.I. Double Flanged Pipe	metre	₹ 6,286.00
19.71.6	350 mm dia C.I. Double Flanged Pipe	metre	₹ 7,929.30
19.71.7	400 mm dia C.I. Double Flanged Pipe	metre	₹ 10,275.10
19.71.8	450 mm dia C.I. Double Flanged Pipe	metre	₹ 13,103.20
19.71.9	500 mm dia C.I. Double Flanged Pipe	metre	₹ 16,496.50
19.71.10	600 mm dia C.I. Double Flanged Pipe	metre	₹ 22,483.30
19.72	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329		
19.72.1	100 mm dia Ductile Iron Class K-7 pipes	metre	₹ 993.80
19.72.2	150 mm dia Ductile Iron Class K-7 pipes	metre	₹ 1,455.00
19.72.3	200 mm dia Ductile Iron Class K-7 pipes	metre	₹ 2,059.90
19.72.4	250 mm dia Ductile Iron Class K-7 pipes	metre	₹ 2,790.20
19.72.5	300 mm dia Ductile Iron Class K-7 pipes	metre	₹ 3,893.40
19.72.6	350 mm dia Ductile Iron Class K-7 pipes	metre	₹ 4,524.10
19.72.7	400 mm dia Ductile Iron Class K-7 pipes	metre	₹ 5,392.90
19.72.8	450 mm dia Ductile Iron Class K-7 pipes	metre	₹ 6,387.60
19.72.9	500 mm dia Ductile Iron Class K-7 pipes	metre	₹ 7,615.20
19.72.10	600 mm dia Ductile Iron Class K-7 pipes	metre	₹ 10,041.70
19.72.11	700 mm dia Ductile Iron Class K-7 pipes	metre	₹ 12,434.50
19.72.12	800 mm dia Ductile Iron Class K-7 pipes	metre	₹ 17,240.10
19.72.13	900 mm dia Ductile Iron Class K-7 pipes	metre	₹ 21,243.30
19.72.14	1000 mm dia Ductile Iron Class K-7 pipes	metre	₹ 25,778.70
19.72.15	100 mm dia Ductile Iron Class K-9 pipes	metre	₹ 1,089.90
19.72.16	150 mm dia Ductile Iron Class K-9 pipes	metre	₹ 1,611.10
19.72.17	200 mm dia Ductile Iron Class K-9 pipes	metre	₹ 2,227.90

Code No.	Description	Unit	Rate
19.72.18	250 mm dia Ductile Iron Class K-9 pipes	metre	₹ 2,850.20
19.72.19	300 mm dia Ductile Iron Class K-9 pipes	metre	₹ 3,653.70
19.72.20	350 mm dia Ductile Iron Class K-9 pipes	metre	₹ 4,284.40
19.72.21	400 mm dia Ductile Iron Class K-9 pipes	metre	₹ 6,171.70
19.72.22	450 mm dia Ductile Iron Class K-9 pipes	metre	₹ 6,806.90
19.72.23	500 mm dia Ductile Iron Class K-9 pipes	metre	₹ 8,872.90
19.72.24	600 mm dia Ductile Iron Class K-9 pipes	metre	₹ 10,029.70
19.72.25	700 mm dia Ductile Iron Class K-9 pipes	metre	₹ 13,871.30
19.72.26	750 mm dia Ductile Iron Class K-9 pipes	metre	₹ 15,894.40
19.72.27	800 mm dia Ductile Iron Class K-9 pipes	metre	₹ 16,222.50
19.72.28	900 mm dia Ductile Iron Class K-9 pipes	metre	₹ 19,029.00
19.72.29	1000 mm dia Ductile Iron Class K-9 pipes	metre	₹ 21,410.70
19.73	Providing and laying Double Flanged (Screwed/Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K 9 conforming to IS : 8329 :		
19.73.1	100 mm dia Ductile Iron Double Flanged	metre	₹ 1,557.40
19.73.2	150 mm dia Ductile Iron Double Flanged	metre	₹ 2,158.80
19.73.3	200 mm dia Ductile Iron Double Flanged	metre	₹ 2,803.20
19.73.4	250 mm dia Ductile Iron Double Flanged	metre	₹ 3,919.20
19.73.5	300 mm dia Ductile Iron Double Flanged	metre	₹ 5,021.40
19.73.6	350 mm dia Ductile Iron Double Flanged	metre	₹ 6,124.10
19.73.7	400 mm dia Ductile Iron Double Flanged	metre	₹ 8,008.20
19.73.8	450 mm dia Ductile Iron Double Flanged	metre	₹ 8,698.90
19.73.9	500 mm dia Ductile Iron Double Flanged	metre	₹ 12,075.10
19.73.10	600 mm dia Ductile Iron Double Flanged	metre	₹ 15,630.20
19.73.11	700 mm dia Ductile Iron Double Flanged	metre	₹ 19,293.10
19.74	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts of approved quality and colour.		
19.74.1	15 mm nominal bore with 30cm length.	each	₹ 67.50
19.74.2	15 mm nominal bore with 45 cm length.	each	₹ 71.10
19.75	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.		
19.75.1	15 mm nominal bore. Weighing not less than 32gms.	each	₹ 35.50
19.75.2	20 mm nominal bore. Weighing not less than 40 gms.	each	₹ 48.90

Code No.	Description	Unit	Rate
19.75.3	25 mm nominal bore. Weighing not less than 62 gms.	each	₹ 59.70
19.76	Cutting holes upto 30x30 cm in walls including making good the same :		
19.76.1	With 1st class bricks.	each	₹ 216.80
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.	each	₹ 201.60
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.	metre	₹ 121.20
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.	metre	₹ 224.80
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 diameter C.I. pipe	100 metre	₹ 797.50
19.80.2	100 mm diameter C.I. pipe	100 metre	₹ 1,080.90
19.80.3	125 mm diameter C.I. pipe	100 metre	₹ 1,296.70
19.80.4	150 mm diameter C.I. pipe	100 metre	₹ 1,621.80
19.80.5	200 mm diameter C.I. pipe	100 metre	₹ 1,829.00
19.80.6	250 mm diameter C.I. pipe	100 metre	₹ 2,360.70
19.80.7	300 mm diameter C.I. pipe	100 metre	₹ 2,714.30
19.80.8	350 mm diameter C.I. pipe	100 metre	₹ 3,034.30
19.80.9	400 mm diameter C.I. pipe	100 metre	₹ 3,436.30
19.80.10	450 mm diameter C.I. pipe	100 metre	₹ 3,849.90
19.80.11	500 mm diameter C.I. pipe	100 metre	₹ 4,173.80
19.80.12	600 mm diameter C.I. pipe	100 metre	₹ 5,055.40

Code No.	Description	Unit	Rate
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	80 mm diameter C.I. pipe	100 metre	₹ 281.10
19.81.2	100 mm diameter C.I. pipe	100 metre	₹ 388.60
19.81.3	125 mm diameter C.I. pipe	100 metre	₹ 455.10
19.81.4	150 mm diameter C.I. pipe	100 metre	₹ 582.10
19.81.5	200 mm diameter C.I. pipe	100 metre	₹ 682.70
19.81.6	250 mm diameter C.I. pipe	100 metre	₹ 872.60
19.81.7	300 mm diameter C.I. pipe	100 metre	₹ 1,026.20
19.81.8	350 mm diameter C.I. pipe	100 metre	₹ 1,143.00
19.81.9	400 mm diameter C.I. pipe	100 metre	₹ 1,311.50
19.81.10	450 mm diameter C.I. pipe	100 metre	₹ 1,435.00
19.81.11	500 mm diameter C.I. pipe	100 metre	₹ 1,626.80
19.81.12	600 mm diameter C.I. pipe	100 metre	₹ 1,845.40
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	80 mm diameter C.I. pipe	metre	₹ 244.60
19.82.2	100 mm diameter C.I. pipe	metre	₹ 253.50
19.82.3	125 mm diameter C.I. pipe	metre	₹ 262.00
19.82.4	150 mm diameter C.I. pipe	metre	₹ 261.90
19.82.5	200 mm diameter C.I. pipe	metre	₹ 285.10
19.82.6	250 mm diameter C.I. pipe	metre	₹ 305.80
19.82.7	300 mm diameter C.I. pipe	metre	₹ 323.80
19.82.8	350 mm diameter C.I. pipe	metre	₹ 348.00
19.82.9	400 mm diameter C.I. pipe	metre	₹ 358.10
19.82.10	450 mm diameter C.I. pipe	metre	₹ 392.10
19.82.11	500 mm diameter C.I. pipe	metre	₹ 431.60
19.82.12	600 mm diameter C.I. pipe	metre	₹ 490.20
19.83	Labour for cutting C.I. pipe with steel saw.		
19.83.1	80 mm diameter C.I. pipe	Each cut	₹ 59.20
19.83.2	100 mm diameter C.I. pipe	Each cut	₹ 79.70

Code No.	Description	Unit	Rate
19.83.3	125 mm diameter C.I. pipe	Each cut	₹ 109.80
19.83.4	150 mm diameter C.I. pipe	Each cut	₹ 150.10
19.83.5	200 mm diameter C.I. pipe	Each cut	₹ 198.30
19.83.6	250 mm diameter C.I. pipe	Each cut	₹ 245.60
19.83.7	300 mm diameter C.I. pipe	Each cut	₹ 294.10
19.83.8	350 mm diameter C.I. pipe	Each cut	₹ 342.30
19.83.9	400 mm diameter C.I. pipe	Each cut	₹ 394.80
19.83.10	450 mm diameter C.I. pipe	Each cut	₹ 192.90
19.83.11	500 mm diameter C.I. pipe	Each cut	₹ 495.70
19.83.12	600 mm diameter C.I. pipe	Each cut	₹ 588.20
19.84	Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology		
19.84.1	15 mm nominal bore	Each	₹ 6,940.00

SUB-HEAD - 20



SEWAGE AND DRAINAGE

SUB HEAD : 20.0 / SEWAGE AND DRAINAGE

BASIC RATES

Code No	Description	Unit	Rate
0203	Belder	Day	₹ 300.00
0205	Bhisti/Waterman	Day	₹ 300.00
0207	Blacksmith 2nd Class	Day	₹ 380.00
0212	Coolie/Helper	Day	₹ 300.00
0219	Mason (brick layer) 1st class	Day	₹ 425.00
0220	Mason (brick layer) 2nd class	Day	₹ 380.00
0221	Mason (for ornamental stone work) 1st class	Day	₹ 425.00
0222	Mason (for plain stone work) 2nd class	Day	₹ 380.00
	Carriage		
0406	Bricks	1000 Nos	₹ 332.82
0404	Brick/ Stone aggregate 40 mm nominal size and above	cum	₹ 172.74
0421	Cement	tonne	₹ 110.94
0447	S.W. pipes 100 mm dia	100 metre	₹ 170.68
0448	S.W. pipes 150 mm dia	100 metre	₹ 332.82
0449	S.W. pipes 200 mm dia	100 metre	₹ 554.70
0450	S.W. pipes 230 mm dia	100 metre	₹ 792.42
0451	S.W. pipes 250 mm dia	100 metre	₹ 950.90
0452	S.W. pipes 300 mm dia	100 metre	₹ 1,188.63
0425	Fine Sand	cum	₹ 142.63
0435	R.C.C. pipes 100 mm dia	100 metre	₹ 272.80
0439	R.C.C. pipes 150 mm dia	100 metre	₹ 454.67
0440	R.C.C. pipes 250 mm dia	100 metre	₹ 1,049.23
0441	R.C.C. pipes 300 mm dia	100 metre	₹ 1,299.05
0442	R.C.C. pipes 450 & 500 mm dia	100 metre	₹ 3,031.11
0443	R.C.C. pipes 600, 700, 750 & 800 mm dia	100 metre	₹ 4,546.68
0444	R.C.C. pipes 900 mm dia	100 metre	₹ 6,820.02
0436	R.C.C. pipes 1000 mm dia	100 metre	₹ 9,093.35

0437	R.C.C. pipes 1100 mm dia	100 metre	₹ 9,093.35
0438	R.C.C. pipes 1200 mm dia	100 metre	₹ 9,093.35
	Materials		
20001	Rectangular cover 455x610 mm with frame (low duty)	each	₹ 2,000.00
20002	Rectangular cover 455x610mm without frame (low duty)	each	₹ 1,200.00
20003	500 mm dia cover without frame (medium duty)	each	₹ 3,000.00
20004	R.C.C. pipes NP2 class 100 mm dia	metre	₹ 388.00
20005	R.C.C. pipes NP2 class 150 mm dia	metre	₹ 443.00
20006	R.C.C. pipes NP2 class 250 mm dia	metre	₹ 516.00
20007	R.C.C. pipes NP2 class 300 mm dia	metre	₹ 750.00
20008	R.C.C. pipes NP2 class 450 mm dia	metre	₹ 1,525.00
20009	R.C.C. pipes NP2 class 500 mm dia	metre	₹ 1,624.00
20010	R.C.C. pipes NP2 class 600 mm dia	metre	₹ 2,196.00
20011	R.C.C. pipes NP2 class 700 mm dia	metre	₹ 2,493.00
20012	R.C.C. pipes NP2 class 800 mm dia	metre	₹ 2,899.00
20013	R.C.C. pipes NP2 class 900 mm dia	metre	₹ 3,534.00
20014	R.C.C. pipes NP2 class 1000 mm dia	metre	₹ 4,438.00
20015	R.C.C. pipes NP2 class 1100 mm dia	metre	₹ 5,355.00
20016	R.C.C. pipes NP2 class 1200 mm dia	metre	₹ 5,573.00
20017	R.C.C. collarsNP2 class 100 mm dia	each	₹ 56.00
20018	R.C.C. collarsNP2 class 150 mm dia	each	₹ 72.00
20019	R.C.C. collarsNP2 class 250 mm dia	each	₹ 117.00
20020	R.C.C. collarsNP2 class 300 mm dia	each	₹ 145.00
20021	R.C.C. collarsNP2 class 450 mm dia	each	₹ 353.00
20022	R.C.C. collarsNP2 class 500 mm dia	each	₹ 410.00
20023	R.C.C. collarsNP2 class 600 mm dia	each	₹ 514.00
20024	R.C.C. collarsNP2 class 700 mm dia	each	₹ 521.00
20025	R.C.C. collarsNP2 class 800 mm dia	each	₹ 746.00
20026	R.C.C. collarsNP2 class 900 mm dia	each	₹ 910.00
20027	R.C.C. collarsNP2 class 1000 mm dia	each	₹ 932.00
20028	R.C.C. collarsNP2 class 1100 mm dia	each	₹ 1,069.00

20029	R.C.C. collarsNP2 class 1200 mm dia	each	₹ 1,242.00
20030	Stoneware pipes grade A (60 cm long) 100 mm dia	each	₹ 54.00
20031	Stoneware pipes grade A (60 cm long) 150 mm dia	each	₹ 70.00
20032	Stoneware pipes grade A (60 cm long) 200 mm dia	each	₹ 128.00
20033	Stoneware pipes grade A (60 cm long) 230 mm dia	each	₹ 134.00
20034	Stoneware pipes grade A (60 cm long) 250 mm dia	each	₹ 183.00
20035	Stoneware pipes grade A (60 cm long) 300 mm dia	each	₹ 262.00
20036	Spun yarn	kilogram	₹ 48.00
20037	560 mm dia cover without frame (Heavy duty)	each	₹ 5,908.00
20038	Brick Aggregate (Single size) : 63 mm nominal size	cum	₹ 2,500.00
20039	Brick bats (mix class)	cum	₹ 1,950.00
20040	Brick Aggregate (Single size) : 50 to 80 mm nominal size (mix class)	cum	₹ 2,180.00
20041	Brick Aggregate (Single size) : 40 mm nominal size (mix class)	cum	₹ 2,240.00
06002	2nd Class Bricks	1000 Nos	₹ 6,690.00
04001	Brick Aggregate (Single size) : 40 mm nominal size	cum	₹ 2,550.00
03001	Portland Cement	tonne	₹ 6,100.00
02003	Fine sand (zone IV)	cum	₹ 370.00
05039	Mild steel round bar above 12 mm dia	quintal	₹ 4,010.00
05042	Mild steel square bars	quintal	₹ 4,140.00

SUB HEAD : 20.0

SEWAGE AND DRAINAGE

Code No.	Description	Unit	Rate
20.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the of 1:1 (1 cement: 1 fine sand) including testing of joints etc. complete :		
20.1.1	100 mm diameter	Meter	₹ 214.20
20.1.2	150 mm diameter	Meter	₹ 292.40
20.1.3	200 mm diameter	Meter	₹ 455.70
20.1.4	230 mm diameter	Meter	₹ 489.00
20.1.5	250 mm diameter	Meter	₹ 622.90
20.1.6	300 mm diameter	Meter	₹ 827.20
20.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) around S.W. pipes including bed concrete as per standard design:		
20.2.1	100 mm diameter S. W. pipe	Meter	₹ 918.70
20.2.2	150 mm diameter S.W, pipe	Meter	₹ 1,123.60
20.2.3	200 mm diameter S.W. pipe	Meter	₹ 1,309.80
20.2.4	230 mm diameter S.W, pipe	Meter	₹ 1,434.00
20.2.5	250 mm diameter S.W. pipe	Meter	₹ 1,514.70
20.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of S.W. pipes including bed concrete as per standard design :		
20.3.1	100 mm diameter S.W. pipe	Meter	₹ 436.70
20.3.2	150 mm diameter S.W. pipe	Meter	₹ 707.70
20.3.3	200 mm diameter S.W. pipe	Meter	₹ 831.80
20.3.4	230 mm diameter S.W. pipe	Meter	₹ 912.50
20.3.5	250 mm diameter S.W. pipe	Meter	₹ 968.40
20.3.6	300 mm diameter S.W. pipe	Meter	₹ 1,117.40

Code No.	Description	Unit	Rate
20.4:	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps:		
20.4.1:	100 mm diameter	Meter	₹ 30.50
20.4.2:	150 mm diameter	Meter	₹ 33.70
20.4.3	200 mm diameter	Meter	₹ 35.90
20.4.4	230 mm diameter	Meter	₹ 37.00
20.4.5	250 mm diameter	Meter	₹ 38.00
20.4.6	300 mm diameter	Meter	₹ 40.20
20.4.7	350 mm diameter	Meter	₹ 46.30
20.4.8	400 mm diameter	Meter	₹ 50.60
20.4.9	450 mm diameter	Meter	₹ 52.80
20.5	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 sand:cement: 2 fine) including testing of joints etc. complete.		
20.5.1	100 mm dia. R.C.C. pipe	Meter	₹ 564.20
20.5.2	150mmdia. R.C.C. pipe	Meter	₹ 654.70
20.5.3	250 mm dia. R.C.C. pipe	Meter	₹ 821.40
20.5.4	300 mm dia. R.C.C. pipe	Meter	₹ 1,096.90
20.5.5	450 mm dia. R.C.C. pipe	Meter	₹ 2,187.40
20.5.6	500 mm dia. R.C.C. pipe	Meter	₹ 2,344.90
20.5.7	600 mm dia. R.C.C. pipe	Meter	₹ 3,120.10
20.5.8	700 mm dia. R.C.C. pipe	Meter	₹ 3,505.00
20.5.9	800 mm dia. R.C.C. pipe	Meter	₹ 4,121.00
20.5.10	900 mm dia. R.C.C. pipe	Meter	₹ 5,067.80
20.5.11	1000 mm dia. R.C.C. pipe	Meter	₹ 6,213.90
20.5.12	1100 mm dia. R.C.C. pipe	Meter	₹ 7,466.30
20.5.13	1200 mm dia. R.C.C. pipe	Meter	₹ 7,914.90

Code No.	Description	Unit	Rate
20.6	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement: 3 fine sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :		
20.6.1	With 20 x 20 mm square bar	Each	₹ 267.70
20.6.2	With 20 mm diameter round bar	Each	₹ 235.20
20.7	Supplying and fixing C.I. cover without frame for manholes :		
20.7.1	455 x 610 mm rectangular C.I. cover (light duty)the weight of the cover to be not less than 23 kg.	Each	₹ 1,478.70
20.7.2	500 mm diameter C.I. cover (medium duty) the weight of the cover to be not less than 58 kg.	Each	₹ 3,608.50
20.7.3	560 mm diameter C.I. cover (Heavy duty) the weight of the cover to be not less than 108 kg.	Each	₹ 7,087.40
20.8	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 1st class bricks in cement mortar 1:4 (1 cement : 4 fine sand) C.I. cover with frame (light duty) 455x610 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 stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 fine sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :		
20.8.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :	Each	₹ 6,073.60
20.8.2	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :	Each	₹ 6,818.70
20.8.3	Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :	Each	₹ 7,862.90

Code No.	Description	Unit	Rate
20.9	Extra for depth beyond 450 mm of brick masonry chamber for underground C.I. inspection chamber with same specification as mentioned in item no 20.330 complete as per standard design :		
20.9.1	For 455x610 mm size	Meter	₹ 4,231.40
20.9.2	For 500x700 mm size	Meter	₹ 4,612.40
20.9.3	For 600x850 mm size	Meter	₹ 5,366.00
20.10	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with well burnt 2nd class bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.	Each	₹ 45,096.00
20.11	Constructing soak pit 1.20 x 1.20 x 1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	Each	₹ 5,138.20

SUB-HEAD - 21



BAMBOO AND THATCH
ROOFING WORK

SUB HEAD : 21.0 / BAMBOO WORK AND THATCH ROOFING WORK

BASIC RATES

Code No	Description	Unit	Rate
0203	Beldar	Day	₹ 300.00
0212	Coolie/Helper	Day	₹ 300.00
0224	Mate	Day	₹ 300.00
0231	Thatcher	Day	₹ 300.00
21001	Muli Bamboo 25 mm to 40 mm dia	m	₹ 4.50
21002	G.I. wire 1.0 mm	kg	₹ 58.00
21003	Bamboo dhari mat	sqm	₹ 50.00
21004	Thatch (Sungrass) 300 mm dia. Bundle	bundle	₹ 55.00
21005	Barak bamboo	m	₹ 20.00

SUB HEAD : 21.0

BAMBOO WORK AND THATCH ROOFING WORK

Code No.	Description	Unit	Rate
21.1	Providing and fixing roof frame with muli bamboo of 25 mm to 40 mm dia, placed at 150 mm centre to centre, including a layer of bamboo dhari mat lining over the frame, tied with 1.0 mm G.I. wire complete as per specification.	sqm	₹ 224.40
21.2	Providing and fixing roof frame with muli bamboo of 25 mm to 40 mm dia, placed at 225 mm centre to centre, including a layer of bamboo dhari mat lining over the frame, tied with 1.0 mm G.I. wire complete as per specification.	sqm	₹ 199.50
21.3	Providing and fixing ceiling frame with muli bamboo of 25 mm to 40 mm dia, placed at 600 mm centre to centre, tied with 1.0 mm G.I. wire complete as per specification.	sqm	₹ 126.10
21.4	Providing and fixing muli bamboo shingle roofing with 100 mm spacing of shingles and bamboo battens tied with G.I. wire 1.0 mm with roof frame complete (roof frame to be paid separately) as per specification.	sqm	₹ 480.80
21.5	Providing and fixing muli bamboo shingle roofing with 100 mm spacing of shingles and bamboo battens tied with G.I. wire 1.0 mm with roof frame complete (roof frame to be paid separately) as per specification.		
21.5.1	225 mm thick thatching	sqm	₹ 460.80
21.5.2	150 mm thick thatching	sqm	₹ 334.10
21.5.3	100 mm thick thatching	sqm	₹ 214.30
21.5.4	75 mm thick thatching	sqm	₹ 189.20
21.6	Providing and fixing 600 mm wide ridges & hips with double layer bamboo dhari mat and top layer with one layer bamboo tarja, tied with G.I. wire 1.0 mm with roof frame complete (roof frame to be paid separately) as per specification.	metre	₹ 219.20
21.7	Providing and fixing 600 mm wide ridges & hips with sungrass tied with G.I. wire 1.0 mm with roof frame complete (roof frame to be paid separately) as per specification.	metre	₹ 250.80
21.8	Providing and fixing double dhari mat ceiling, strengthening with single split bamboo battens (both side) and tied with G.I. wire 1.0 mm complete (over required beams or fixed with a frame of suitable type, which will be paid separately) as per specification.		

Code No.	Description	Unit	Rate
21.8.1	with batten at 150 mm centre to centre	sqm	₹ 243.70
21.8.2	with batten at 225 mm centre to centre	sqm	₹ 198.40
21.8.3	with batten at 300 mm centre to centre	sqm	₹ 165.30
21.9	Providing and fixing muli bamboo champakampa tarja (75 mm wide) ceiling, strengthening with single split bamboo battens (both side) at 300 mm centre to centre and tied with G.I. wire 1.0 mm complete (over required beams or fixed with a frame of suitable type, which will be paid separately) as per specification.	sqm	₹ 398.30
21.10	Providing and fixing muli bamboo champakampa tarja (75 mm wide) walling, strengthening with single split bamboo battens (both side) at 300 mm centre to centre and tied with G.I. wire 1.0 mm complete as per specification.	sqm	₹ 357.40
21.11	Providing and fixing muli bamboo champakampa tarja (75 mm wide) walling, strengthening with single split bamboo battens (both side) at 300 mm centre to centre and tied with G.I. wire 1.0 mm including one layer of dhari mat lining complete as per specification.	sqm	₹ 420.10
21.12	Providing and fixing muli bamboo plain oven tarja (75 mm wide) walling, strengthening with single split bamboo battens (both side) at 300 mm centre to centre and tied with G.I. wire 1.0 mm including one layer of dhari mat lining complete as per specification.	sqm	₹ 314.50
21.13	Providing and fixing double layer dhari mat walling, strengthening with single split bamboo battens (both side) at 300 mm centre to centre and tied with G.I. wire 1.0 mm complete as per specification.	sqm	₹ 269.70
21.14	Providing and fixing muli bamboo (tarja) jafri, strengthening with single split bamboo battens (both side) at 450 mm centre to centre and tied with G.I. wire 1.0 mm complete as per specification.	sqm	₹ 232.10
21.15	Providing and fixing muli bamboo plain oven tarja walling in compound fencing , strengthening with single split bamboo battens (both side) at 450 mm centre to centre and tied with G.I. wire 1.0 mm complete as per specification.	sqm	₹ 230.50
21.16	Providing and fixing whole muli bamboo (placed closely) walling, strengthening with whole muli bamboo battens (both side) at 600 mm centre to centre and tied with G.I. wire 1.0 mm complete as per specification.	sqm	₹ 316.60

Code No.	Description	Unit	Rate
21.17	Providing and fixing whole muli bamboo machan, each bamboo tied with coir rope at 150 mm centre to centre, with one layer of champakampa tarja matting complete over a suitable structure properly tied with coir rope as per specification.	sqm	₹ 424.00
21.18	Providing and fixing barak bamboo 75 mm to 100 mm dia posts, post plates, ties, king posts, rafters, runners etc. tied with coir rope complete as per specification.	metre	₹ 42.20
21.19	Providing and fixing barak bamboo 75 mm to 100 mm dia posts, runners, struts, bracings, collars etc. fixed with MS nails complete as per specification.	metre	₹ 34.30
21.20	Excavating holes upto 0.10 cum including getting out the excavated soil, placing posts, then returning the soil as required in holes in layers not exceeding 200 mm in depth, consolidating each deposited layer by watering and ramming, disposal of surplus excavated soil as directed with all leads and lifts complete as per specification.	per hole	₹ 49.30
21.21	Dismantling all types of thatch roofing with sungrass 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.	sqm	₹ 41.10
21.22	Dismantling bamboo roof frame 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.	sqm	₹ 65.50
21.23	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.	metre	₹ 73.80
21.24	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.	metre	₹ 12.20
21.25	Dismantling all kinds of bamboo ceiling, walling, machan etc. 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.	sqm	₹ 82.10