

# **GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT**

# DELHI SCHEDULE OF RATES 2013



Published under the Authority of Director General, CPWD, New Delhi

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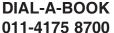
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### MINISTER OF URBAN DEVELOPMENT INDIA

## MESSAGE

The Delhi Schedule of Rates, published by the Central Public Works Department periodically since 1931, is a benchmark for the construction industry in India.

The Delhi Schedule of Rates-2013 edition is being brought out by CPWD after incorporating Green Building concepts and new technology items, which will facilitate the sustenance of environment and our rich heritage.

The Delhi Schedule of Rates-2013 will benefit CPWD as well as the entire construction sector in India.

My best wishes to CPWD.

(Kamal Nath)

डॉ॰ सुधीर कृष्ण Dr. Sudhir Krishna



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#### MESSAGE

Central Public Works Department under the Ministry of Urban Development is one of the oldest Central Government Department, providing engineering excellence over 150 years in the construction field. It has been entrusted with construction and maintenance of Heritage Buildings, Buildings for most of the Central Government, Ministries, Departments, besides the PSUs and autonomous bodies.

For any construction work, Schedule of Rates plays an important role in preconstruction stage like preparation of estimates, design etc. To meet this objective, CPWD is publishing the Delhi Schedule of Rates since the year 1931 on regular intervals based on the experiences and latest technologies that can be adopted in the construction sector.

It gives me immense pleasure to know that CPWD is releasing Delhi Schedule of Rates 2013, after updating the existing items and incorporating many useful new items, including items related to green building concepts, new technology in construction sector, which can be used for new constructions by all concerned departments and organisations.

I congratulate all the officers involved in the preparation of DSR -2013. I am sure this will be a great help to officers of CPWD and of other organisations also.

I wish all success to Central Public Works Department in its efforts.

Mahrie

(Sudhir Krishna)

#### FOREWORD

Delhi Schedule of Rates, being published by C.P.W.D. from time to time, is a very comprehensive document and useful in execution of works. Apart from C.P.W.D., this Schedule of Rates is used as a guide by a number of departments, public sector undertakings, private sector builders and architects etc.

The Central Public Works Department Schedule of Rates was first compiled in the year 1931, followed by a number of revisions from time to time in order to bring it in line with the prevailing technology and market rates. The Delhi Schedule of Rates were revised many times in the subsequent years viz. 1977,1981, 1985, 1989, 1993, 1997, 2002, 2007 & 2010 (Reprint), 2012.

The last Delhi Schedule of Rates was printed in 2012. The prices of labour and materials have registered substantial increase since then. Besides the cost, there has been spurt of new construction materials and introduction of Green Building concepts, new technology items etc. This has necessitated revision of existing DSR-2012 to include the above changes. The DSR-2012 Supplement (Green Building and New technology items) was published in Feb-2013. Several new items, based on new materials and new technologies in the construction sector, being adopted in CPWD works, have also been included in this document.

Although this DSR contains most of the items of DSR 2012, and incorporate the items of the DSR Supplement, the nomenclature of existing items has been reviewed & updated wherever found necessary. The Similar items have been clubbed together to facilitate convenience of use.

I wish to place on record the technical input effective coordination on the part of Shri B.B Bhatia, the then ADG(TD) and Shri V.K. Rokade , the then CE(CSQ), and the efforts put in by Shri Mathura Prasad, SE(TAS) and his team of officers in TAS unit in finalizing the DSR-2013 in a record time.

I am sure that this Schedule of Rates-2013 will be quite useful to all concerned in the Building construction industry in general and CPWD in particular.

da-yu

(V.K. Gupta) DIRECTOR GENERAL, CPWD

New Delhi

#### PREFACE

- 1. Delhi Schedule of Rates- 2013 includes the existing items of DSR 2012 & its Supplement, with deletion of few obsolete items, merger of similar items and addition of new items in line with emerging trends in construction Industry.
- 2. Following are the **salient features** of DSR- 2013.
  - (a) DSR- 2013 is a bilingual (Hindi version will follow).
  - (b) A new sub-head for Structural Glazing & Aluminium Composite panel as introduced in DSR-2012 Supplement has been incorporated.
  - (c) This DSR 2013 shall be read along with CPWD specifications 2009 Vol. I & II with up to date Correction Slips.
  - (d) New Material Codes have been assigned for the newly introduced materials.
  - (e) The basic materials incorporated in this DSR 2013 are considered to be conforming to BIS Standards/CPWD Specifications/ Materials of good quality generally available in the market.
  - 3 Sub- head wise additions, items introduced in supplement to DSR 2012 and included in this DSR- 2013 are as under:
  - 3.1 Sub head 5 : Reinforced Cement Concrete

Items of the expansion joints.

#### 3.2 Sub head 8 : Marble and Granite Work

- (a) Items of Italian marble stone for wall lining
- (b) Item of flame finish granite for flooring in open areas.
- 3.3 Sub head 11 : Flooring
  - (a) Items of Italian marble flooring.
  - (b) Item of glass mosaic tiles on walls.
  - (c) Items of Raised flooring for computer rooms, work stations etc.

#### 3.4 Sub head 12 : Roofing

- (a) Items of fully perforated calcium silicate tiles for false ceiling.
- (b) Items of calcium silicate board for false ceiling.

#### 3.5 **Sub head 16 : Road work**

(a) Items of Granite stone flooring for footpaths.

	(b) Items of Granite stone blocks for paving in floors, drains etc.
	(c) Items of matt finish vitrified tiles for foothpaths.
	(d) Item of tactile tile for vision impaired persons for approaches & footpaths.
	(e) Items of PU moulded paver blocks for footpath & pathways.
3.6	Sub head 19 : Drainage
	Items of NP3 & NP4 RCC pipes.
3.7	Sub head 26 : Structural glazing and Aluminium composite panel (New Sub Head):-
	(a) Items of structural glazing.
	(b) Items of Aluminium composite panel.
4.	The following <b>new items</b> have been introduced in the DSR -2013.
4.1.	Sub head 5: Reinforced Cement Concrete.
	(a) Items of RCC frames for doors and windows.
	(b) Items of self compacting Concrete.
	(c) Items of Diaphragm wall.
4.2	Sub head 9: Wood and PVC Work.
	Items for MDF board.
4.3	Sub head 18: Water Supply
	Items for $SS - 304$ grade water supply pipes with fittings.
4.4	Sub head 26: Structural Glazing and Aluminium composite Panel.
	Item of Spider Glazing for main entrance lobby etc.
5.	The following items have been deleted/ modified from DSR-2012 & DSR - 2012 Supplement.
5.1	Sub head 6: Brick Work
	Items of Fly ash lime autoclaved bricks deleted.
5.2	Sub head 12: Roofing
	The heading for Non asbestos sheet roofing and accessories has been deleted.

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#### 5.3 Sub head 16: Road work

Item no 16.93 of the plain quality concrete for road work with slip form paver deleted.

- 6. Wherever the work of Flyover, Bridge, Grade separator and Highways/ Hill Road/Major Road are involved, MoRTH specifications and its Standard data book for the analysis of rates shall be followed.
- 7. DSR- 2013 is based on the prevailing market rates of materials in Delhi between Jan. 2013 to March 2013. The labour rates adopted are as per minimum wages issued by Govt. of Delhi w.e.f. 1/4/2013.
- 7.1 The cost index for DSR 2013 is 100 with reference to DPAR- 2012, having base 100 as on 1/10/2012.
- 7.2. The technical sanctioning Authority may decide non application of cost index judiciously on the items, where the estimated cost of the item is close to the market rate.
- 8. I convey my deep appreciation and sincere thanks to Shri V.K. Rokade, the then CE(CSQ), Shri Mathura Prasad, SE(TAS), Shri A.P. Mathur, SE(QA), Shri R.K. Saraswat, EE-I (TAS), Shri R.K.Vashisth, AE, Shri Chhabilal Singh, AE, Shri R.K.Goel, JE, Shri Abhishek Kumar, JE, Shri Ram Janam Chaudhary, JE, Shri Kashinath Ratha, JE, Shri Vijay Singh, Estimator, Shri Bahal Singh, Estimator and other officers and staff of TAS unit for sincere efforts made in the preparation of this document in such a short time. Various field units, who contributed field inputs, also deserve appreciation for their timely help.

I also express my sincere thanks to Shri V. J. Reddy EE(P), Hyderabad Central Circle-II, CPWD who has contributed & helped in finalizing the DSR in addition of his normal duties.

9. Although due care has been taken to print the DSR- 2013 as correctly as possible, there is possibility that some errors might have crept in inadvertently.

In case, any error or omission is noticed, it may be brought to the notice of Superintending Engineer (TAS), CPWD, Room no. 418, 'A', Nirman Bhawan, New Delhi – 110011.

Suggestions for improvement are always welcome.

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(B.B. Bhatia) Addl. D.G. (TD), CPWD,

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# BASIC RATES

#### **BASIC RATES**

#### 0.1 HIRE CHARGES OF PLANTS

Code No.	Description	Unit	Rate ₹
0001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	830.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	1500.00
0004	Production cost of concrete by batch mix plant	cum	350.00
0005	Hire charges of Diesel Truck - 9 tonne	day	1700.00
0006	Hire charges of Spraying machine including electric charges	day	250.00
0007	Hire charges of Coaltar Sprayer	day	300.00
8000	Hire charges of Barber green, drying, mixing and Asphalt Plant, with accessories, capacity 30/45 tonne	day	7700.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	150.00
0010	Hire charges of Derrick monkey rope	day	800.00
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	550.00
0012	Vibrator (Needle type 40 mm)	day	325.00
0013	Machine for rubbing of floors	day	350.00
0014	Front end loader capacity 1.00 cum	day	5000.00
0016	Mastic Cooker	day	750.00
0017	Hire and running charges of tipper	day	1700.00
0018	Hire and running charges of loader	day	5000.00
0019	Hand Grinder for mirror polish	day	230.00
0020	Hydraulic Excavator (3D) with driver and fuel	day	8000.00
0021	Pin vibrator	day	325.00
0022	Surface Vibrator	day	400.00
0023	Hot Bitumen Mixer 0.5 cum i/c hand cart	day	4000.00
0024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site	day	34000.00
0025	Hire and running charges of light crane	day	2200.00
0026	Hire and running charges of bentonite pump	day	4200.00
0027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories	day	35000.00
0028	Hire and running charges of crane 20 tonne capacity	day	9300.00
0029	Carriage of concrete by transit mixer	km/cum	30.00
0030	Generator 250 KVA	day	2200.00
0033	Paint applicator	day	750.00
0037	Mobile crane	day	6500.00

BASIC RATES - 0.1 HIRE CHARGES OF PLANTS

3

Code No.	Description	Unit	Rate ₹
0038	Tractor with ripper attachment	day	1350.00
0039	Tractor with trolley	day	1500.00
0040	Air compressor 250 cfm with two leads for pneumatic cutters / hammers	day	1900.00
0041	Joint cutting machine with 2-3 blades	day	1000.00
0042	C.C .batch mix plant	day	10000.00
0043	Road sweeper	day	550.00
0045	Slip form paver with sensor	day	13000.00
0046	Water tanker 5000 litre	day	1000.00
0047	Concrete joint cutting machine	day	900.00
0048	Texturing machine	day	925.00
	Note :- Above hire - charges include cost of services of operating staff and supply of lubricating oil.		
0049	Dozer D-80-A 12	hour	3800.00
0050	Motor Grader 3.35 metre blade	hour	2450.00
0051	Hydraulic Excavator of 1 cum bucket	hour	1300.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	800.00
0053	Tipper -5 Cum	tonne km	3.00
0054	Vibratory roller 8 to 10 tonne	hour	1500.00
0055	Smooth Wheeled Roller 8 to 10 tonne	hour	460.00
0056	Tandem Road Roller	hour	1150.00
0057	Water Tanker 5 to 6 KL capacity	hour	150.00
0058	Air compressor	hour	325.00
0059	Wet Mix Plant 60 TPH	hour	1200.00
0060	Mechanical Broom Hydraulic	hour	360.00
0061	Emulsion Pressure Distributor @ 1750 sqm per hour	hour	800.00
0062	Hot mix Plant -120 TPH capacity	hour	23700.00
0063	Hot mix Plant 100 TPH Capacity	hour	17500.00
0064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	2700.00
0065	Paver finisher Mechanical 100 TPH	hour	1000.00
0066	Batching and Mixing Plant @ 75 cum per hour	hour	2500.00
0068	Concrete Paver finisher with 40 HP Motor and sensor	hour	2900.00
0069	Generator 250 KVA	hour	900.00
0070	Generator 100 KVA/125 KVA	hour	700.00
0071	Truck 5.5 cum/ 10 tonnes	tonne km	3.00
0075	Road sweeper (Mechamical Broom) @ 1250 sqm per hour	hour	360.00

Code No.	Description	Unit	Rate ₹
0076	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	14000.00
0080	Hire and running charges of drill machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary soil and operator)	day	7500.00
0081	Pile Integrity testing equipment	day	3000.00
0082	Excavation of Diaphragm wall by Mechanical Grab	sqm	1500.00
	Note :- Above hire - charges (from item code 0049 to 0082) in- clude cost of services of operating staff, supply of lubricating oil		

and diesel also.

#### **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 ₹
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0102	Blacksmith 1 st class	day	393.00
0103	Blacksmith 2nd class	day	361.00
0111	Carpenter 1 st class	day	393.00
0112	Carpenter 2nd class	day	361.00
0113	Chowkidar	day	297.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0117	Assistant Fitter or 2nd class Fitter	day	361.00
0119	Glazier	day	361.00
0122	Mason (for plaster of paris work) 1 st class	day	393.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0125	Mason (for plain stone work) 2nd class	day	361.00
0126	Mason (for ornamental stone work) 1 st class	day	393.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	393.00
0128	Mate	day	328.00
0130	Mistry	day	393.00
0131	Painter	day	361.00
0132	Rock Excavator	day	297.00
0133	Rock Breaker	day	297.00
0134	Rock Hole Driller	day	297.00
0135	Stone Chiseller	day	328.00
0138	Sprayer (for bitumen, tar etc.)	day	328.00
0139	Skilled Beldar (for floor rubbing etc.)	day	328.00
0141	White Washer	day	328.00

BASIC RATES - 0.2 LABOUR

Code No.	Description	Unit	Rate ₹
0155*	Mason (average)	day	377.00
0156*	Carpenter (average)	day	377.00
0157	Operator (Pile/ Special machine)	day	350.00
0159	Skilled torch operator for laying tack	day	393.00
0160	Technician	day	700.00
0161	Helper (Technician)	day	300.00
	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 ₹
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	40.00
0223	Fibre (high impact poly propelene reinforced) cement corrugated sheet 6 mm thick	sqm	250.00
0224	Fibre (high impact poly propelene reinforced) cement close fitting adjustable ridge	metre	210.00
0225	Fibre (high impact poly propelene reinforced) cement corrugate serrated adjustable ridge	metre	210.00
0226	Fibre (high impact poly propelene reinforced) cement plain wing adjustable ridge	metre	200.00
0227	Fibre (high impact poly propelene reinforced) cement unserrated adjustable ridge for hips	metre	300.00
0228	Fibre (high impact poly propelene reinforced) cement corrugated apron piece	metre	225.00
0229	Fibre (high impact poly propelene reinforced) cement eaves filler piece	each	175.00
0230	Fibre (high impact poly propelene reinforced) cement north light curves	metre	310.00
0231	Fibre (high impact poly propelene reinforced) cement ventilator curves	each	410.00
0232	Fibre (high impact poly propelene reinforced) cement barge boards 6 mm thick	metre	410.00
0233	Fibre (high impact poly propelene reinforced) cement ridge finial	pair	160.00
0234	Fibre (high impact poly propelene reinforced) cement special north light curves	each	550.00
0235	Fibre (high impact poly propelene reinforced) cement S type louvers	each	250.00
0236	Multi purpose fibre (high impact poly propelene reinforced) cement board 6 mm thick	sqm	200.00
0237	Multi purpose fibre (high impact poly propelene reinforced) cement board 8 mm thick	sqm	250.00
0285	Brick Aggregate (Single size) : 63 mm nominal size	cum	500.00
0286	Brick Aggregate (Single size) : 50 mm nominal size	cum	500.00
0287	Brick Aggregate (Single size) : 40 mm nominal size	cum	510.00
0291	Stone Aggregate (Single size) : 63 mm nominal size	cum	1000.00
0292	Stone Aggregate (Single size) : 50 mm nominal size	cum	1000.00
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	1000.00
0294	Stone Aggregate (Single size) : 25 mm nominal size	cum	1050.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1200.00
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	1050.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1050.00
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	1100.00
0302	Safeda ballies 125 mm diameter	metre	42.00

0304Bajricum1000.000305Barboo 25 mm dia 2.5 metre longscore350.000308Bhusaquintal400.000309Paving bitumen of grade VG-10 of approved qualitytonne40000.000310Bitumen emulsiontonne41400.000312Bitumen grade PMB - 40tonne41400.000313Blown type petroleum bitumen of penetration 85/25 of approved qualitytonne37000.000314Bitumen hot sealing compound : grade Akilogram26.000316Bitumen folt fibre base (vegetable or animal):As per IS 7193 Grade Isqm36.000319Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade Isqm76.000322Bitumen felt 71ype 3 grade 1sqm35.000323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm35.000324Coal Tarlitre30.000325Blasting powderkilogram35.000336Flame retardant face insulating board: 12 mm thicksqm350.000341Flame retardant face insulating board: 12 mm thicksqm350.000341Flame retardant face insulating on other sidesqm260.000344Extra for veneered particle board (medium density) Grade 1, t2 mm thicksqm350.000345Flame retardant face insulating on other sidesqm350.000346Extra for veneered particle board with Teak veneering on one both sidessqm50.000346<	Code No.	Description	Unit	Rate ₹
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0308Bhusaquintal4000.000309Paving bitumen of grade VG-10 of approved qualitytonne40000.000310Bitumen emulsiontonne30000.000312Bitumen grade PMB - 40tonne37000.000313Blown type petroleum bitumen of penetration 85/25 of approved qualitytonne37000.000314Bitumen hot sealing compound : grade Akilogram26.000316Bitumen solution primer of approved qualitylitre45.000317Premoulded joint filler 12 mm thicksqm60.000318Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade Isqm60.000322Bitumen felt rörbe ag vegetable or animal):As per IS 7193 Grade Isqm76.000323Separation Membrane of inpermeable plastic sheeting 125 micron thicksqm12.000324Coal Tarlitre30.000325Blasting powderkilogram35.000336Flame retardant face insulating board: 12 mm thicksqm315.000337Flame retardant face insulating board: 12 mm thicksqm325.000338Flame retardant face insulating board: 12 mm thicksqm325.000339Flame retardant face insulating on ortic sidesqm326.000344Extra for veneered particle board with Teak veneering on one both sidessqm370.000346Extra for veneered particle board with Teak veneering on one both sidessqm326.000349Curing compoundlitre	0304	Bajri	cum	1000.00
0309Paving bitumen of grade VG-10 of approved qualitytonne40000.000310Bitumen emulsiontonne30000.000312Bitumen grade PMB - 40tonne41400.000313Blown type petroleum bitumen of penetration 85/25 of approved qualitytonne37000.000314Bitumen hot sealing compound : grade Akilogram26.000317Premoulded joint filler 12 mm thicksqm350.000318Bitumen fell tibre base (vegetable or animal):As per IS 7193 Grade Isqm60.000319Bitumen felt .Type 3 grade 1sqm60.000322Bitumen felt .Type 3 grade 1sqm12.000324Coal Tarsqm12.000325Blasting powderkilogram35.000326Blasting powderkilogram35.000327Bitumen felt .Type 3 grade 1sqm35.000328White face insulating board: 12 mm thicksqm35.000339Flame retardant face insulating board: 12 mm thicksqm350.000340Flame retardant face insulating board: 12 mm thicksqm325.000341Flame retardant face insulating board: 12 mm thicksqm325.000344Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm30.000347Extra for veneered particle board with Teak veneering on one 	0305	Bamboo 25 mm dia 2.5 metre long	score	350.00
0310Bitumen emulsiontonne30000.000312Bitumen grade PMB - 40tonne41400.000313Blown type petroleum bitumen of penetration 85/25 of approved qualitytonne37000.000314Bitumen hot sealing compound : grade Akilogram26.000316Bitumen hot sealing compound : grade Akilogram26.000317Premoulded join filler 12 mm thicksqm350.000318Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade Isqm60.000322Bitumen felt as per IS 7193 Grade Isqm76.000323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm35.000324Coal Tarlitre30.000325Blasting powderkilogram35.000326Blasting fuse (fuse wire)each15.000327Natural colour insulating board: 12 mm thicksqm3700.000336Flame retardant face insulating board: 12 mm thicksqm35.000337Flame retardent face insulating board: 12 mm thicksqm35.000346Extra for veneered particle board (medium density) Grade 1, 12 mm thicksqm35.000347Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm360.000348Extra for veneered particle board with Teak veneering on bit sidessqm50.000344Extra for veneered particle board with Teak veneering on bit sidessqm50.00 <td< td=""><td>0308</td><td>Bhusa</td><td>quintal</td><td>400.00</td></td<>	0308	Bhusa	quintal	400.00
Bitumen grade PMB - 40tonne41400.000313Blown type petroleum bitumen of penetration 85/25 of approved qualitytonne37000.000314Bitumen hot sealing compound : grade Akilogram26.000316Bitumen solution primer of approved qualitylitre45.000317Premoulded joint filler 12 mm thicksqm350.000318Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade Isqm60.000319Bitumen felt Type 3 grade 1sqm76.000322Bitumen felt Type 3 grade 1sqm60.000323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm12.000324Coal Tarlitre30.000325Blasting powderkilogram35.000326Blasting powderkilogram350.000337Flame retardant face insulating board: 12 mm thicksqm3700.000339Flame retardant face insulating board: 12 mm thicksqm350.000339Flame retardant face insulating board: 12 mm thicksqm350.000341Flat pressed 3 layer particle board (medium density) Grade 1, tide and commercial veneering on one side and commercial veneering on one side and commercial veneering on other sidesqm350.000344Extra for veneered particle board with Teak veneering on one side and commercial veneering on ther sidesqm350.000344Extra for veneered particle board with Teak veneering on both sidessqm350.000345Soft	0309	Paving bitumen of grade VG-10 of approved quality	tonne	40000.00
Blown type petroleum bitumen of penetration 85/25 of approved qualitytonne37000.000314Bitumen hot sealing compound : grade Akilogram26.000316Bitumen solution primer of approved qualitylitre45.000317Premoulded joint filler 12 mm thicksqm350.000318Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade Isqm60.000321Bitumen felt as per IS 7193 Grade IIsqm76.000322Bitumen felt as per IS 7193 Grade IIsqm60.000323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm12.000324Coal Tarlitre30.000325Blasting powderkilogram35.000326Blasting fuse (fuse wire)each15.000328White face insulating board: 12 mm thicksqm316.000339Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm350.000341Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm350.000344Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm360.000348Extra for veneered particle board with Teak veneering both sidessqm350.000344Flat pressed 3 layer particle board with Teak veneering on one side and commercial veneering on other sidesqm500.000345Bitwen felt face insulationcum500.000346Extra for veneered particle board	0310	Bitumen emulsion	tonne	30000.00
qualitytonne37000.000314Bitumen hot sealing compound : grade Akilogram26.000316Bitumen solution primer of approved qualitylitre45.000317Premoulded joint filler 12 mm thicksqm350.000318Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade Isqm60.000319Bitumen felt as per IS 7193 Grade IIsqm60.000322Bitumen felt : Type 3 grade 1sqm60.000323Separation Membrane of impermeable plastic sheeting 125 micronsqm12.000324Coal Tarlitre30.000325Blasting powderkilogram35.000326Blasting fuse (fuse wire)each15.000328White face insulating board: 12 mm thicksqm316.000339Flame retardant face insulating board: 12 mm thicksqm3350.000341Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000344Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm326.000347Extra for veneered particle board with Teak veneering on both sidessqm170.000348Extra for veneered particle board with Teak veneering on obth sidessqm260.000344Flat pressed 3 layer particle board with Teak veneering on obth sidessqm350.000347Extra for veneered particle board with Teak veneering on obth sidessqm50.000348	0312	Bitumen grade PMB - 40	tonne	41400.00
0316Bitumen solution primer of approved qualitylire45.000317Premoulded joint filler 12 mm thicksqm350.000318Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade Isqm60.000322Bitumen felt as per IS 7193 Grade IIsqm76.000323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm12.000324Coal Tarlitre30.000325Blasting powderkilogram35.000326Blasting powderkilogram36.000327Natural colour insulating board:12 mm thicksqm360.000328White face insulating board:12 mm thicksqm360.000329Flame retardant face insulating board: 12 mm thicksqm350.000330Flame retardant face insulating board: 12 mm thicksqm350.000341Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm326.000341Star for veneered particle board (medium density) Grade 1, 12 mm thicksqm326.000347Extra for veneered particle board with Teak veneering on one stra for veneered particle board with Teak veneering on both sidessqm50.000348Extra for veneered particle board with Teak veneering on both sidessqm50.000349Curing compoundlitre50.000349Curing compoundlitre50.000349Curing compoundlitre50.000350Soft brusheach18.00	0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	37000.00
0317Premoulded joint filler 12 mm thicksqm350.000318Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade Isqm60.000319Bitumen felt as per IS 7193 Grade IIsqm76.000322Bitumen felt Type 3 grade 1sqm60.000323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm12.000324Coal Tarlitre30.000325Blasting powderkilogram35.000326Blasting fuse (fuse wire)each15.000327Natural colour insulating board: 12 mm thicksqm360.000336Flame retardant face insulating board: 12 mm thicksqm350.000336Flame retardant face insulating, lmpregnated fibre board 12 mm thicksqm350.000341f.Plat pressed 3 layer particle board (medium density) Grade 1, side and commercial veneering on other sidesqm326.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm500.000348Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm500.000349Curing compoundlitre50.0050.000340Extra for veneered particle board with Teak veneering both sidessqm500.000341Flat pressed 3 layer particle board with Teak veneering on one side and commercial veneering on other sidesqm500.000342Brick batscuring compoundlitr	0314	Bitumen hot sealing compound : grade A	kilogram	26.00
0318Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade Isqm60.000319Bitumen felt as per IS 7193 Grade IIsqm76.000322Bitumen felt :Type 3 grade 1sqm60.000323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm12.000324Coal Tarlittre30.000325Blasting powderkilogram35.000326Blasting fuse (fuse wire)each15.000327Natural colour insulating board:12 mm thicksqm360.000336Flame retardant face insulating board:12 mm thicksqm350.000339Flame retardant face insulating board:12 mm thicksqm350.000341flame retardant face insulating, Impregnated fibre board 12 mm thicksqm350.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm260.000348Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm500.000349Curing compoundlittre50.0000.000349Curing compoundlittre50.000360Brick batscum500.000361Soft brusheach18.000362Brick batscum500.000363Outing compoundlittre50.000364Wire brusheach18.000365Soft brusheach18.000366B	0316	Bitumen solution primer of approved quality	litre	45.00
0319Bitumen felt as per IS 7193 Grade IIsqm76.000322Bitumen felt :Type 3 grade 1sqm60.000323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm12.000324Coal Tarlitre30.000325Blasting powderkilogram35.000326Blasting fuse (fuse wire)each15.000328White face insulating board: 12 mm thicksqm270.000336Flame retardant face insulating board: 12 mm thicksqm315.000339Flame retardant face insulating board: 12 mm thicksqm350.000341Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm170.000348Extra for veneered particle board with Teak veneering on both sidessqm500.000349Curing compoundlitre50.000340Brick batscurm500.000351Soft brusheach18.000365Soft brusheach18.000366Portland Cementtonne1400.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0317	Premoulded joint filler 12 mm thick	sqm	350.00
0322Bitumen felt : Type 3 grade 1sqm60.000323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm12.000324Coal Tarlitre30.000325Blasting powderkilogram35.000326Blasting fuse (fuse wire)each15.000328White face insulating board: 12 mm thicksqm360.000332Natural colour insulating board: 12 mm thicksqm315.000336Flame retardant face insulating, loard: 12 mm thicksqm315.000339Flame retardant face insulating, lmpregnated fibre board 12 mm thicksqm325.000346Extra for veneered particle board (medium density) Grade 1, 12 mm thicksqm326.000347Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm170.000348Extra for veneered particle board with Teak veneering on both sidessqm500.000349Curing compoundlitre50.000362Brick batscum500.000363Soft brusheach18.000364Wire brusheach18.000365Soft brusheach18.00.000366Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0318	Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade I	sqm	60.00
0323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm12.000324Coal Tarlitre30.000325Blasting powderkilogram35.000326Blasting fuse (fuse wire)each15.000328White face insulating board: 12 mm thicksqm360.000332Natural colour insulating board: 12 mm thicksqm315.000339Flame retardant face insulating board: 12 mm thicksqm350.000339Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm325.000341Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm260.000347Extra for veneered particle board with Teak veneering on both sidessqm500.000348Extra for veneered particle board with Teak veneering on both sidessqm500.000349Curing compoundlitre500.000362Brick batscum500.000363Soft brusheach18.000364Wire brusheach18.000365Soft brusheach18.000366Portland Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371<	0319	Bitumen felt as per IS 7193 Grade II	sqm	76.00
thicksqm12.000324Coal Tarlitre30.000325Blasting powderkilogram35.000326Blasting fuse (fuse wire)each15.000328White face insulating board: 12 mm thicksqm360.000332Natural colour insulating board: 12 mm thicksqm370.000336Flame retardant face insulating board: 12 mm thicksqm315.000339Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm320.000341Stat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm170.000348Extra for veneered particle board with Teak veneering on both sidessqm500.000349Curing compoundlitre50.000362Brick batscum500.000364Wire brusheach18.000365Soft brusheach18.000367Portland Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0322	Bitumen felt :Type 3 grade 1	sqm	60.00
0325Blasting powderkilogram35.000326Blasting fuse (fuse wire)each15.000328White face insulating board:12 mm thicksqm360.000332Natural colour insulating board:12 mm thicksqm270.000336Flame retardant face insulating board: 12 mm thicksqm315.000339Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm350.000341Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm260.000347Extra for veneered particle board with Commercial veneering on both sidessqm500.000348Extra for veneered particle board with Teak veneering on both sidessqm500.000349Curing compoundlitre50.000362Brick batscum500.000363Soft brusheach18.000364Wire brusheach18.000365Soft brusheach18.000366Portland Cementtonne5240.000368White Cementtonne1400.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0323		sqm	12.00
0326Blasting fuse (fuse wire)each15.000328White face insulating board:12 mm thicksqm360.000332Natural colour insulating board:12 mm thicksqm270.000336Flame retardant face insulating board: 12 mm thicksqm315.000339Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm350.000341Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm260.000347Extra for veneered particle board with Commercial veneering on both sidessqm500.000348Extra for veneered particle board with Teak veneering on both sidessqm500.000349Curing compoundlitre50.000362Brick batscum500.000363Soft brusheach18.000364Wire brusheach18.000365Soft brusheach1400.000368White Cementtonne14000.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0324	Coal Tar	litre	30.00
0328White face insulating board: 12 mm thicksqm360.000332Natural colour insulating board: 12 mm thicksqm270.000336Flame retardant face insulating board: 12 mm thicksqm315.000339Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm350.000341Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm260.000347Extra for veneered particle board with Teak veneering on both sidessqm170.000348Extra for veneered particle board with Teak veneering both sidessqm500.000349Curing compoundlitre50.000364Wire brusheach260.000365Soft brusheach18.000366White Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0325	Blasting powder	kilogram	35.00
0332Natural colour insulating board: 12 mm thicksqm270.000336Flame retardant face insulating board: 12 mm thicksqm315.000339Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm350.000341Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm260.000347Extra for veneered particle board with Commercial veneering on both sidessqm500.000348Extra for veneered particle board with Teak veneering both sidessqm500.000349Curing compoundlitre50.000364Wire brusheach20.000365Soft brusheach18.000366White Cementtonne5240.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0326	Blasting fuse (fuse wire)	each	15.00
0332Natural colour insulating board: 12 mm thicksqm270.000336Flame retardant face insulating board: 12 mm thicksqm315.000339Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm350.000341Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm260.000347Extra for veneered particle board with Commercial veneering on both sidessqm500.000348Extra for veneered particle board with Teak veneering both sidessqm500.000349Curing compoundlitre50.000364Wire brusheach20.000365Soft brusheach18.000366White Cementtonne5240.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0328	White face insulating board:12 mm thick	sqm	360.00
0339Flame retardant face insulating, Impregnated fibre board 12 mm thicksqm350.000341Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm260.000347Extra for veneered particle board with Commercial veneering on both sidessqm170.000348Extra for veneered particle board with Teak veneering on both sidessqm500.000349Curing compoundlitre50.000362Brick batscum500.000364Wire brusheach20.000365Soft brusheach18.000367Portland Cementtonne5240.000368White Cementtonne14000.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0332	-	sqm	270.00
thicksqm350.000341Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm260.000347Extra for veneered particle board with Commercial veneering on both sidessqm170.000348Extra for veneered particle board with Teak veneering both sidessqm500.000349Curing compoundlitre50.000362Brick batscum500.000364Wire brusheach20.000365Soft brusheach18.000367Portland Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0336	Flame retardant face insulating board: 12 mm thick	sqm	315.00
12 mm thicksqm325.000346Extra for veneered particle board with Teak veneering on one side and commercial veneering on other sidesqm260.000347Extra for veneered particle board with Commercial veneering on both sidessqm170.000348Extra for veneered particle board with Teak veneering both sidessqm500.000349Curing compoundlitre50.000362Brick batscum500.000364Wire brusheach20.000365Soft brusheach18.000366White Cementtonne5240.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0339		sqm	350.00
side and commercial veneering on other sidesqm260.000347Extra for veneered particle board with Commercial veneering on both sidessqm170.000348Extra for veneered particle board with Teak veneering both sidessqm500.000349Curing compoundlitre50.000362Brick batscum500.000364Wire brusheach20.000365Soft brusheach18.000367Portland Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0341		sqm	325.00
both sidessqm170.000348Extra for veneered particle board with Teak veneering both sidessqm500.000349Curing compoundlitre50.000362Brick batscum500.000364Wire brusheach20.000365Soft brusheach18.000367Portland Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0346	Extra for veneered particle board with Teak veneering on one side and commercial veneering on other side	sqm	260.00
0349Curing compoundlitre50.000362Brick batscum500.000364Wire brusheach20.000365Soft brusheach18.000367Portland Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath,1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0347		sqm	170.00
0362Brick batscum500.000364Wire brusheach20.000365Soft brusheach18.000367Portland Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath,1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0348	Extra for veneered particle board with Teak veneering both sides	sqm	500.00
0364Wire brusheach20.000365Soft brusheach18.000367Portland Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0349	Curing compound	litre	50.00
0365Soft brusheach18.000367Portland Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0362	Brick bats	cum	500.00
0367Portland Cementtonne5240.000368White Cementtonne14000.000369Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0364	Wire brush	each	20.00
0368White Cementtonne14000.000369Plastic sheath,1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0365	Soft brush	each	18.00
0369Plastic sheath, 1.25 mm thick for dowel barssqm30.000370Coal (steam)quintal400.000371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0367	Portland Cement	tonne	5240.00
0370     Coal (steam)     quintal     400.00       0371     Sealant primer     kg     125.00       0373     Cramp Gun metal 25x6x300 mm     each     80.00	0368	White Cement	tonne	14000.00
0371Sealant primerkg125.000373Cramp Gun metal 25x6x300 mmeach80.00	0369	Plastic sheath,1.25 mm thick for dowel bars	sqm	30.00
0373 Cramp Gun metal 25x6x300 mm each 80.00	0370	Coal (steam)	quintal	400.00
0373         Cramp Gun metal 25x6x300 mm         each         80.00	0371		kg	
	0373		-	80.00
	0374	Pre moulded Joint filler, 25 mm thick for expansion joint.	sqm	500.00

Code No.	Description	Unit	Rate ₹
0378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	850.00
0379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	700.00
0380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	430.00
0381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	180.00
0382	Brass butt hinges (heavy type) : 125x85x5.5 mm(0.70 kg)	10 Nos	3100.00
0383	Brass butt hinges (heavy type) : 100x85x5.5 mm(0.56 kg)	10Nos	2750.00
0384	Brass butt hinges (heavy type) :75x65x4.0 mm(0.20 kg)	10 Nos	950.00
0385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	2850.00
0386	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	2500.00
0387	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	2300.00
0388	Brass parliamentary hinges 75x100x20x3.2 mm	10 Nos	1750.00
0389	Brass single acting spring hinges 150 mm	each	310.00
0390	Brass single acting spring hinges 125 mm	each	270.00
0391	Brass single acting spring hinges 100 mm	each	170.00
0392	Brass double acting spring hinges 150 mm	each	500.00
0393	Brass double acting spring hinges 125 mm	each	370.00
0394	Brass double acting spring hinges 100 mm	each	320.00
0400	Brass tower bolt (barrel type) 250x10 mm	each	230.00
0401	Brass tower bolt (barrel type) 200x10 mm	each	180.00
0402	Brass tower bolt (barrel type) 150x10 mm	each	145.00
0403	Brass tower bolt (barrel type) 100x10 mm	each	95.00
0404	Brass flush bolt 250 mm	each	150.00
0405	Brass flush bolt 150 mm	each	130.00
0406	Brass flush bolt 100 mm	each	90.00
0408	Brass handles 125 mm with plate 175x32 mm	each	140.00
0409	Brass handles 100 mm with plate 150x32 mm	each	130.00
0410	Brass handles 75 mm with plate 125x32 mm	each	100.00
0411	Brass door latch 300x16x5 mm (0.380 kg)	each	165.00
0412	Brass door latch 250x16x5 mm (0.350 kg)	each	160.00
0413	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	370.00
0414	Brass mortice latch 100x65mm with a pair of brass lever handles	each	320.00
0417	Brass 150 mm floor door stopper (0.357kg)	each	170.00
0418	Brass hard drawn hooks and eyes 300 mm	10 Nos	750.00
0419	Brass hard drawn hooks and eyes 250 mm	10 Nos	700.00
0420	Brass hard drawn hooks and eyes 200 mm	10 Nos	645.00
0421	Brass hard drawn hooks and eyes 150 mm	10 Nos	620.00
0422	Brass hard drawn hooks and eyes 100 mm	10 Nos	525.00
0423	Brass casement window fastener	each	50.00
0424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	135.00
0425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	110.00

Code No.	Description	Unit	Rate ₹
0426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	100.00
0427	Brass quadrant stays 300 mm	each	125.00
0428	Brass fanlight catch	10Nos	175.00
0429	Brass fanlight pivot	10 Nos	195.00
0430	Brass chain with hook for fan light catch	each	40.00
0431	Brass hasps and staples (safety type) 150 mm	10 Nos	775.00
0432	Brass hasps and staples (safety type) 115 mm	10 Nos	650.00
0433	Brass hasps and staples (safety type) 90 mm	10Nos	560.00
0438	Brass night latch	each	495.00
0442	Brass helical spring 150 mm	each	310.00
0444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	115.00
0445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	135.00
0446	Brass brackets (curtain rods) 20 mm	each	42.00
0447	Brass cupboard knob or wardrobe knob 50 mm	each	35.00
0449	Brass screws 50 mm	100 Nos	210.00
0450	Brass screws 40 mm	100 Nos	170.00
0451	Brass screws 30 mm	100 Nos	135.00
0452	Brass screws 25 mm	100 Nos	95.00
0453	Brass screws 20 mm	100 Nos	90.00
0524	Chromium plated Brass butt hinges (heavy) type 75x65x4 mm (200gms)	10 Nos	1000.00
0525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4mm	10 Nos	850.00
0526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10Nos	700.00
0527	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5 mm	10Nos	460.00
0528	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5 mm	10Nos	200.00
0555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	175.00
0556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	150.00
0557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	130.00
0558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	540.00
0568	Chromium plated brass casement window fastener	each	95.00
0569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	150.00
0570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	130.00
0571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	115.00
0583	Chromium plated Brass Night latch	each	530.00
0584	Chromium plated Brass Wardrobe Knob 50 mm	each	48.00
0585	Chromium plated Brass screws 50 mm	100 Nos	240.00
0586	Chromium plated Brass screws 40 mm	100Nos	200.00
0587	Chromium plated Brass screws 30 mm	100 Nos	155.00
0588	Chromium plated Brass screws 25 mm	100 Nos	120.00

Code No.	Description	Unit	Rate ₹
0589	Chromium plated Brass screws 20 mm	100 nos	100.00
0590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	190.00
0591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	260.00
0592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	350.00
0594	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 Nos	140.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10Nos	85.00
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 nos	60.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	50.00
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	40.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	65.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	50.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	40.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	35.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	30.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	7.00
0642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	140.00
0643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	90.00
0644	Oxidised mild steel butt hinges 75x47x1.70 mm	10 Nos	65.00
0645	Oxidised mild steel butt hinges 50x37x1.50 mm	10 Nos	55.00
0646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	340.00
0647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	315.00
0648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	235.00
0649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	200.00
0650	Oxidised mild steel single acting spring hinges 150 mm	each	115.00
0651	Oxidised mild steel single acting spring hinges 125 mm	each	110.00
0652	Oxidised mild steel single acting spring hinges 100 mm	each	90.00
0653	Oxidised mild steel double acting spring hinges 150 mm	each	115.00
0654	Oxidised mild steel double acting spring hinges 125 mm	each	110.00
0655	Oxidised mild steel double acting spring hinges 100 mm	each	90.00
0656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	45.00
0660	Oxidised mild steel sliding door bolt 300x16 mm	each	95.00
0661	Oxidised mild steel sliding door bolt 250x16 mm	each	90.00
0662	Oxidised mild steel door latch 300x20x6 mm	each	48.00
0663	Oxidised mild steel door latch 250x20x6 mm	each	40.00
0664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	45.00
0665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	40.00
0666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	30.00
0667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	25.00

Code No.	Description	Unit	Rate ₹
0668	Oxidised mild steel handles 125 mm	each	19.00
0669	Oxidised mild steel handles 100 mm	each	16.00
0670	Oxidised mild steel handles 75 mm	each	15.00
0679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 Nos	125.00
0680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 Nos	100.00
0681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 Nos	75.00
0682	Oxidised mild steel screws 50 mm	100 Nos	75.00
0683	Oxidised mild steel screws 40 mm	100 Nos	60.00
0684	Oxidised mild steel screws 30 mm	100 Nos	55.00
0685	Oxidised mild steel screws 25 mm	100 Nos	45.00
0686	Oxidised mild steel screws 20 mm	100 Nos	35.00
0687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	570.00
0688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	530.00
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	520.00
0690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	500.00
0691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	510.00
0692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	500.00
0693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	470.00
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	390.00
0696	Anodised Aluminium sliding door bolt 300x16 mm	each	160.00
0697	Anodised Aluminium sliding door bolt 250x16 mm	each	130.00
0698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos	750.00
0699	Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 Nos	600.00
0700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	480.00
0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos	380.00
0702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	300.00
0703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	500.00
0704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	380.00
0705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	320.00
0706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	130.00
0713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	1700.00
0714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	1550.00
0715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	1400.00
0717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	1150.00
0718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	1000.00
0719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	900.00
0752	Block board construction flush door lipping	sqm of door area	300.00

Code No.	Description	Unit	Rate ₹
0753	Square vision panel in Block board construction flush door	sqm of door area	115.00
)754	Circular vision panel in Block board construction flush door	sqm of door area	180.00
)755	Decorative type louvers in Block board construction flush door	sqm of door area	310.00
)757	Rebate cutting in block board construction flush door	sqm of door area	85.00
)759	Decorative plywood 4 mm	sqm	420.00
761	Fuel wood	quintal	500.00
763	Glue	kilogram	68.00
765	Hessian cloth	sqm	25.00
768	Cement Concrete Jali 50 mm thick	sqm	210.00
769	Cement Concrete Jali 40 mm thick	sqm	180.00
770	Cement Concrete Jali 25 mm thick	sqm	150.00
771	Kerosene oil	litre	45.00
773	Unslaked lime	quintal	300.00
775	Dehradun white lime	quintal	480.00
776	Satna lime	quintal	300.00
777	Dry hydrated lime (factory made)	quintal	230.00
784	Marble dust/ powder	cum	1000.00
785	Marble chips up to 4 mm and down size White & black	quintal	200.00
788	Marble chips large size above 4 mm White & black	quintal	200.00
801	Silicon and acrylic emulsion	litre	200.00
802	Acrylic distemper 1st quality , having VOC content less than 50 grams/ litre	Kg	38.00
803	Acrylic emulsion , having VOC content less than 50 grams/ litre	litre	250.00
804	Premium acrylic emulsion of interior grade, having VOC content less than 50 grams/ litre	litre	350.00
805	Synthetic enamel paint , having VOC (Volatile Organic Compound) content less than 150 grams/ litre	litre	220.00
806	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	litre	120.00
807	Ready mixed red oxide zinc chromatic on steel/ iron work, having VOC content less than 250 grams/ litre	litre	130.00
808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre	litre	60.00
809	Exterior primer	kilogram	40.00
810	Moorum	cum	450.00
811	Mud (dry)	cum	60.00
815	Dry distemper	kilogram	36.00
816	Oil bound washable distemper/Acrylic distemper	kilogram	45.00
818	Linseed oil (double boiled)	litre	110.00
820	Cement primer	litre	90.00
821	Distemper primer	litre	90.00
823	Pink primer (for wood)	litre	90.00

BASIC RATES - 0.3 MATERIALS

0826 0827 0828 0829 0830 0831 0833	White cement based putty Aluminium paint Acid proof paint (chocolate or black) Anticorrosive bituminous paint (black) Black Japan paint Enamel paint Floor enamel paint in all shades except green Synthetic enamel paint in black or chocolate shade Synthetic enamel paint in all shades except black or chocolate	kg litre litre litre litre litre litre litre	24.00 130.00 150.00 90.00 95.00 160.00 120.00
0827 0828 0829 0830 0831 0833	Acid proof paint (chocolate or black) Anticorrosive bituminous paint (black) Black Japan paint Enamel paint Floor enamel paint in all shades except green Synthetic enamel paint in black or chocolate shade	litre litre litre litre litre	150.00 90.00 95.00 160.00
0828 0829 0830 0831 0833	Anticorrosive bituminous paint (black) Black Japan paint Enamel paint Floor enamel paint in all shades except green Synthetic enamel paint in black or chocolate shade	litre litre litre litre	90.00 95.00 160.00
0829 0830 0831 0833	Black Japan paint Enamel paint Floor enamel paint in all shades except green Synthetic enamel paint in black or chocolate shade	litre litre litre	95.00 160.00
0830 0831 0833	Enamel paint Floor enamel paint in all shades except green Synthetic enamel paint in black or chocolate shade	litre litre	160.00
0831 0833	Floor enamel paint in all shades except green Synthetic enamel paint in black or chocolate shade	litre	
0833	Synthetic enamel paint in black or chocolate shade		120.00
		litre	120.00
0004	Synthetic enamel paint in all shades except black or chocolate		130.00
	shade	litre	140.00
0835	Plastic emulsion paint	litre	180.00
0845	Roofing paint for iron sheets in red colour	litre	120.00
0850	White lead	kilogram	90.00
0851	Water proofing cement paint	kilogram	45.00
0855	Wax polish (ready made)	kilogram	200.00
0856	Ordinary varnish	litre	75.00
0857	Superior copal varnish	litre	125.00
0858	Superior spar varnish	litre	125.00
0859	Oil type wood preservative	litre	80.00
0863	Putty for wood work	kilogram	30.00
0865	Piglead	kilogram	125.00
0868	Premixed super white gypsum plaster.	kg	7.00
0869	Plaster of Paris	kilogram	4.00
0870	Plug	each	10.00
0873	Copper pins 6 mm dia 7.5 cm long	each	10.00
0874	Black colour dark shade pigment	kilogram	55.00
	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	75.00
0876	Green or blue medium shade pigment	kilogram	65.00
	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	25.00
0966	Sand Cast iron plain shoe 150 mm dia	each	325.00
0967	Copper plate	kilogram	270.00
0969	Pulley 25 mm dia	each	35.00
0973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	1250.00
0974	Top cover for rolling shutters 1.25 mm thick	metre	600.00
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	280.00
0976	Ball bearing for rolling shutters	each	330.00
	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 10.00 sqm and up to 16.80 sqm area of door	sqm	550.00
	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 16.80 sqm area of door	sqm	580.00
	Royalty for good earth	cum	30.00

Code No.	Description	Unit	Rate ₹
0980	Royalty for sludge	cum	90.00
0982	Coarse sand (zone III)	cum	1120.00
0983	Fine sand (zone IV)	cum	650.00
0992	Galvanised steel plain sheets	quintal	5200.00
0994	Standard quality hard board sheet 3 mm thick	sqm	125.00
0996	Standard quality hard board sheet 4.5 mm thick	sqm	150.00
0999	Shellac	kilogram	210.00
1000	Spirit	litre	70.00
1001	Spun yarn	kilogram	40.00
1002	Mild steel round bar 12 mm dia and below	quintal	4500.00
1003	Mild steel round bar above 12 mm dia	quintal	4300.00
1004	Average rate of Mild steel round bars for reinforcement	quintal	4500.00
1005	Twisted steel/ deformed bars	quintal	4700.00
1006	Mild steel square bars	quintal	4500.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4650.00
1008	Flats up to 10 mm in thickness	quintal	4200.00
1009	Flats exceeding 10 mm in thickness	quintal	4500.00
1010	Mild steel plates	quintal	4700.00
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	48.00
1013	Mild steel sheets for tanks	quintal	4900.00
1015	Mild steel expanded metal 20x60 mm strands	sqm	290.00
1019	Mild steel hooks	each	35.00
1020	Mild steel rivets	quintal	5000.00
1021	Hard drawn steel wire fabric	sqm	430.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	25.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	110.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	12.00
1025	Mild steel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	30.00
1028	Straining bolts	each	70.00
1029	Galvanised steel barbed wire	quintal	5200.00
1030	Galvanised steel turn buckles	each	17.00
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	25.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	20.00
1034	Bolts and nuts up to 300 mm in length	quintal	5600.00
1035	Bolts and nuts above 300 mm in length	quintal	5600.00
1036	Iron pintels including welded pin	each	40.00
1143	Steel beading	metre	25.00
1145	Aluminium Plain Strip edging 38x12x3 mm	metre	100.00

Code No.	Description	Unit	Rate ₹
1149	Glass strip 4 mm thick 40 mm deep	metre	9.00
1151	Boundary stone top chisel dressed 15x15x90 cm	each	60.00
1154	Through and bond stone	100 Nos	1200.00
1157	Stone for masonry work	cum	700.00
1158	Stone for pitching 15 cm x 22.5 cm	cum	450.00
1159	Stone dust	cum	1000.00
1160	Red sand stone block	10 cudm	65.00
1161	White sand stone block	10 cudm	70.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	300.00
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	160.00
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	180.00
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	130.00
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	290.00
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	210.00
1174	Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	172.00
1175	White sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	225.00
1177	Stone grit 6 mm and down size or pea sized gravel	cum	925.00
179	Crushed stone 2.36 mm to 12.5 mm size	cum	950.00
1182	Surkhi	cum	700.00
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	1100.00
1187	First class teak wood in scantling	10 cudm	800.00
1188	First class teak wood in planks	10 cudm	850.00
1189	Second class teak wood in scantling	10 cudm	660.00
1190	Second class teak wood in planks	10 cudm	725.00
1194	Second class deodar wood in planks	10 cudm	500.00
1196	First class kail wood in planks	10 cudm	310.00
1197	Second class kail wood in scantling	10 cudm	260.00
1198	Second class kail wood in planks	10 cudm	260.00
1199	Sal wood in scantling	10 cudm	520.00
1200	Kiln seasoned selected sheesham wood planks	10 cudm	650.00
1201	Precast terrazzo tiles 22 mm thick (light shade)	sqm	260.00
1202	Precast terrazzo tiles 22 mm thick(medium shade)	sqm	240.00
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	220.00
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	482.00
1207	G.I. Limpet washer	100 nos	35.00
208	Bitumen washer	100 Nos	30.00
1209	G.I. plain washer thick	100 Nos	35.00
1210	G.I. plain washer thin	100 Nos	32.00
1211	G.I. plain washer for seam bolts	100Nos	30.00
1213	Water proofing materials	kilogram	32.00
1214	Welding by gas plant	cm	2.00

BASIC RATES - 0.3 MATERIALS

Code No.	Description	Unit	Rate ₹
1215	Welding by electric plant	cm	1.80
1216	Whiting	quintal	500.00
1219	Wire nails	kilogram	60.00
1220	Wire mesh (rabbit)	sqm	45.00
1221	20 mm dia holding down bolts	quintal	5800.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	130.00
1224	Hard drawn steel wire	quintal	5500.00
1225	Mild steel flat strap fitting	quintal	4450.00
1227	Chequered terrazzo tiles 22 mm thick(light shade)	sqm	325.00
1228	Chequered terrazzo tiles 22 mm thick(medium shade)	sqm	285.00
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	250.00
1231	Extra for selected planks of second class teakwood	10 cudm	140.00
1234	Aluminium Plain Strip edging 57x12x3 mm	metre	135.00
1235	Diesel oil	litre	48.63
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	9.00
1238	Extra for selected planks of first class teakwood	10 cudm	140.00
1239	18 mm thick Flamed finish granite stone slab	sqm	1695.00
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	3330.00
1241	Commercial LPG in cylinder	kg	70.00
1242	Glass mossaic tiles (20 mm x 20 mm x 4 mm ).	sqm	1050.00
1243	Tile fixing chemical adhesive	kg	34.00
1244	Cement Polymer Grout Compound	kg	34.00
1245	Acid for cleaning tiles	litre	16.00
1301	Bleaching powder	quintal	1750.00
1304	Surface box for stop cock	each	125.00
1305	Surface box for sluice valve	each	210.00
1307	Surface box for water meter	each	250.00
1309	C.I. bracket for wash basin and sinks	pair	70.00
1314	C.P.brass chain with 32 mm dia rubber plug	each	40.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	40.00
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	35.00
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	20.00
1332	M.S.Holder bat clamp of approved design for75 mm S.C.I. pipe	each	18.00
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	28.00
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	30.00
1336	Clearing eye with chain and lid 100 mm dia	each	44.00
1337	Clearing eye with chain and lid 150 mm dia	each	50.00
1339	Brass bib-cock 15 mm dia	each	210.00
1340	Brass bib-cock 20 mm dia	each	225.00
1342	Brass stop-cock 15 mm dia	each	210.00
1343	Brass stop-cock 20 mm dia	each	280.00

BASIC RATES - 0.3 MATERIALS

Code No.	Description	Unit	Rate ₹
1350	Mosquito proof coupling of approved design	each	30.00
1352	C.I. cover and frame 300x300 mm inside	each	300.00
1353	C.I.cover without frame 300x300 mm inside i/c cover of 4.50 kg	each	225.00
1354	Rectangular cover 455x610 mm with frame (low duty)	each	1500.00
1355	Rectangular cover 455x610 mm without frame (low duty)	each	1000.00
1356	500 mm dia cover with frame (medium duty)	each	4750.00
1357	500 mm dia cover without frame (medium duty)	each	2300.00
1360	C.I.mouth, brass ferrule 15 mm dia	each	140.00
1361	C.I.mouth, brass ferrule 20 mm dia	each	160.00
1362	C.I.mouth, brass ferrule 25 mm dia	each	220.00
1363	Vitreous china foot rests 250x130x30 mm	pair	100.00
1364	C.I. grating 100x100 mm	each	15.00
1366	C.I. grating 150x150 mm	each	25.00
1367	C.I. grating 180x180 mm	each	30.00
1369	S.C.I. gully or nahani grating 100 mm dia	each	18.00
1373	Rubber insertions for 80 mm dia pipe joints	each	15.00
1374	Rubber insertions for 100 mm dia pipe joints	each	18.00
1375	Rubber insertions for 125 mm dia pipe joints	each	20.00
1376	Rubber insertions for 150 mm dia pipe joints	each	20.00
1377	Rubber insertions for 200 mm dia pipe joints	each	25.00
1378	Rubber insertions for 250 mm dia pipe joints	each	40.00
1379	Rubber insertions for 300 mm dia pipe joints	each	45.00
1380	Rubber insertions for 350 mm dia pipe joints	each	50.00
1381	Rubber insertions for 400 mm dia pipe joints	each	73.00
1382	Rubber insertions for 450 mm dia pipe joints	each	92.00
1383	Rubber insertions for 500 mm dia pipe joints	each	110.00
1384	Rubber insertions for 600 mm dia pipe joints	each	125.00
1392	Mirror of superior make glass 60x45 cm	each	310.00
1396	Vitreous china pedestal for wash basin	each	700.00
1397	Piglead	kilogram	90.00
1464	S & S.C.I. standard specials upto 300 mm dia (heavy class)	quintal	3600.00
1466	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	3700.00
1468	Flanged C.I. standard specials upto 300 mm dia (heavy class)	quintal	5500.00
1470	Flanged C.I. standard specials over 300 mm dia (heavy class)	quintal	5800.00
1472	Casing pipe 100 mm dia	metre	335.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	270.00
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	400.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	520.00
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	600.00

Code No.	Description	Unit	Rate ₹
1540	Flush pipe and spreaders G.I. for single set of one squatting plate	eeeb	475.00
4544	urinal	each	175.00
1541 1542	Flush pipe and spreaders G.I. for range of two squatting plates urinal	each	250.00
1542	Flush pipe and spreaders G.I. for range of three squatting plates urinal	each	300.00
1543 1545	Flush pipe and spreaders G.I. for range of four squatting plates urinal	each	390.00
1545 1546	G.I. pipes 15 mm dia	metre	85.00
1546 1547	G.I. pipes 20 mm dia	metre	110.00
1547	G.I. pipes 25 mm dia	metre	150.00
1548	G.I. pipes 32 mm dia	metre	180.00
1549 1550	G.I. pipes 40 mm dia	metre	220.00
1550	G.I. pipes 50 mm dia	metre	275.00
1551	G.I. pipes 65 mm dia	metre	365.00
1552	G.I. pipes 80 mm dia	metre	460.00
1555	G.I. back (jam) nuts 25 mm dia	each	10.00
1559	G.I. back (jam) nuts 65 mm dia	each	22.00
1608	G.I. tees (equal) 25 mm	each	45.00
1612	G.I. tees (equal) 65 mm	each	280.00
1614	G.I. inlet connection	each	65.00
1616	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75 mm dia	each	950.00
1617	S.C. I. soil, waste and vent single socketed pipe 1.80 metres long: 100 mm dia	each	1150.00
1618	S.C.I. soil, waste and vent single socketed pipe1.80 metres long: 150 mm dia each 1750.00		
1620	S.C.I. plain bend 75 mm dia	each	170.00
1621	S.C.I. plain bend 100 mm dia	each	350.00
1622	S.C.I. plain bend 150 mm dia	each	600.00
1624	S.C.I. bend with access door 75 mm dia	each	200.00
1625	S.C.I. bend with access door 100 mm dia	each	252.00
1627	S.C.I. plain single equal junctions 75x75x75 mm dia	each	265.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	450.00
1630	S.C.I. single equal junctions 75x75x75 mm dia with access door	each	278.00
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door	each	376.00
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	346.00
1634	S.C.I. plain double equal junctions 100x100x100x100 mm dia	each	520.00
1636	S.C.I. double equal junctions 75x75x75x75 mm dia with access door	each	425.00
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door	each	550.00
1639	Slotted cowl (terminal guard ) 75 mm dia	each	151.00
1640	Slotted cowl (terminal guard) 100 mm dia	each	190.00
1641	G.I. Union 15 mm nominal bore	each	55.00
1642	G.I. Union 20 mm nominal bore	each	75.00
1643	G.I. Union 25 mm nominal bore	each	85.00
1644	G.I. Union 32 mm nominal bore	each	120.00

Code No.	Description	Unit	Rate ₹
1645	G.I. Union 40 mm nominal bore	each	185.00
1646	G.I. Union 50 mm nominal bore	each	220.00
1647	G.I. Union 65 mm nominal bore	each	430.00
1648	G.I. Union 80 mm nominal bore	each	510.00
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	4.50
1653	Sand cast iron S&S plain single unequal junctions: 100x100x 75 mm dia	each	370.00
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door	each	400.00
1659	Sand cast iron S&S plain double unequal junctions:100x100x 75x75 mm dia	each	550.00
1662	Sand cast iron S&S double unequal junctions: 100x100x 75x75 mm dia with access door	each	550.00
1666	Sand cast iron heel rest bend 75 mm dia	each	220.00
1667	Sand cast iron heel rest bend 100 mm dia	each	250.00
1669	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	320.00
1670	S.C.I. single equal invert branch of required degree 100x100x 100 mm dia	each	410.00
1672	S.C.I. double equal invert branch of required degree 75x75x75x 75 mm dia	each	410.00
1673	S.C.I. double equal invert branch of required degree 100x100x 100x100 mm dia	each	550.00
1674	S.C.I. single unequal invert branch of required degree 100x100x 75 mm dia	each	495.00
1677	S.C.I. double unequal invert branch of required degree 100x100x75x 75 mm dia	each	570.00
1682	S.C.I. door pieces 75 mm dia	each	275.00
1683	S.C.I. door pieces 100 mm dia	each	400.00
1685	S.C.I. collar 75 mm dia	each	113.00
1686	S.C.I. collar 100 mm dia	each	143.00
1687	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	30.00
1688	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	35.00
1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	35.00
1690	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	48.00
1693	S.C.I. hand pump	each	670.00
1700	R.C.C. pipes NP2 class 100 mm dia	metre	200.00
1701	R.C.C. pipes NP2 class 150 mm dia	metre	210.00
1702	R.C.C. pipes NP2 class 250 mm dia	metre	260.00
1703	R.C.C. pipes NP2 class 300 mm dia	metre	300.00
1704	R.C.C. pipes NP2 class 450 mm dia	metre	400.00
1705	R.C.C. pipes NP2 class 500 mm dia	metre	580.00
1706	R.C.C. pipes NP2 class 600 mm dia	metre	920.00

Code No.	Description	Unit	Rate ₹
1707	R.C.C. pipes NP2 class 700 mm dia	metre	1050.00
1709	R.C.C. pipes NP2 class 800 mm dia	metre	1170.00
1710	R.C.C. pipes NP2 class 900 mm dia	metre	1280.00
1711	R.C.C. pipes NP2 class 1000 mm dia	metre	1590.00
1712	R.C.C. pipes NP2 class 1100 mm dia	metre	1875.00
1713	R.C.C. pipes NP2 class 1200 mm dia	metre	1925.00
1714	R.C.C. collars NP2 class 100 mm dia	each	30.00
1715	R.C.C. collars NP2 class 150 mm dia	each	35.00
1716	R.C.C. collars NP2 class 250 mm dia	each	50.00
1717	R.C.C. collars NP2 class 300 mm dia	each	55.00
1718	R.C.C. collars NP2 class 450 mm dia	each	100.00
1719	R.C.C. collars NP2 class 500 mm dia	each	115.00
1720	R.C.C. collars NP2 class 600 mm dia	each	140.00
1721	R.C.C. collars NP2 class 700 mm dia	each	150.00
1723	R.C.C. collars NP2 class 800 mm dia	each	200.00
1724	R.C.C. collars NP2 class 900 mm dia	each	235.00
1725	R.C.C. collars NP2 class 1000 mm dia	each	280.00
1726	R.C.C. collars NP2 class 1100 mm dia	each	300.00
1727	R.C.C. collars NP2 class 1200 mm dia	each	350.00
1728	RCC pipe 450 mm dia NP-3 spigot	metre	1496.00
1729	RCC pipe 600 mm dia NP-3 spigot	metre	1995.00
1730	RCC pipe 900 mm dia NP-3 spigot	metre	3150.00
1731	RCC pipe 1000 mm dia NP-3 spigot	metre	3885.00
1732	RCC pipe 1200 mm dia NP-3 spigot	metre	5040.00
1733	RCC pipe 1800 mm dia NP-3 spigot	metre	9450.00
1734	RCC pipe 450 mm dia NP-4 spigot	metre	1733.00
1735	RCC pipe 600 mm dia NP-4 spigot	metre	2310.00
1736	RCC pipe 900 mm dia NP-4 spigot	metre	4595.00
1737	RCC pipe 1000 mm dia NP-4 spigot	metre	5565.00
1738	RCC pipe 1200 mm dia NP-4 spigot	metre	6510.00
1739	RCC pipe 1800 mm dia NP-4 spigot	metre	13650.00
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	50.00
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	80.00
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	135.00
1857	Stoneware pipes grade A (60 cm long) 230 mm dia	each	170.00
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	220.00
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	240.00
1863	Fire clay kitchen sink: 600x450x250 mm	each	1350.00
1871	White vitreous china laboratory sink 450x300x150 mm	each	820.00
1872	White vitreous china laboratory sink 600x450x200 mm	each	1525.00
1875	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	330.00

Code No.	Description	Unit	Rate ₹
1876	Black plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	310.00
1878	Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia	each	50.00
1879	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	60.00
1881	Spun yarn	kilogram	50.00
1882	Strainer brass 40 mm dia 1.5 metre long	each	600.00
1885	15 mm C.P. brass tap	each	210.00
1889	C.P. brass toilet paper holder of standard size	each	170.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 50 mm dia	each	170.00
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 80 mm dia	each	225.00
1895	C.P. brass trap 40 mm dia	each	150.00
1896	100 mm S.C.I. trap with vent heel	each	315.00
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	275.00
1898	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	218.00
1900	S.W. gully trap P type 100x100 mm	each	90.00
1902	S.W. gully trap P type 150x100 mm	each	130.00
1904	S.W. gully trap P type 180x150 mm	each	225.00
1913	Vitreous china lipped front urinal	each	460.00
1915	Vitreous china squatting plate urinal	each	760.00
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	210.00
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	305.00
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	330.00
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	350.00
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	410.00
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	480.00
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	620.00
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	1080.00
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	1620.00
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	330.00
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	450.00
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	560.00
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	820.00
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1490.00
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	2120.00
1940	C.I. sluice valve (with caps) class I: 100 mm dia	each	2410.00
1941	C.I. sluice valve (with caps) class I : 125 mm dia	each	2600.00
1942	C.I. sluice valve (with caps) class I: 150 mm dia	each	3600.00
1943	C.I. sluice valve (with caps) class I : 200 mm dia	each	7500.00
1944	C.I. sluice valve (with caps) class I : 250 mm dia	each	10980.00
1945	C.I. sluice valve (with caps) class I: 300 mm dia	each	15500.00
1947	Vitreous china flat back wash basin 630x450 mm	each	725.00

Code No.	Description	Unit	Rate ₹
1949	Vitreous china angle back wash basin 600x480 mm	each	725.00
1950	Vitreous china angle back wash basin 400x400 mm	each	425.00
1951	C.P. brass waste 32 mm	each	80.00
1952	C.P. brass waste 40 mm	each	95.00
1953	Vitreous china Indian type W.C. pan size 580 mm	each	450.00
1954	Vitreous china orrisa type W.C. pan size 580 mm	each	780.00
1955	Vitreous china pedestal type water closet	each	700.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	12.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	12.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	15.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	15.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	16.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	18.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	28.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	32.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	38.00
1965	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	1300.00
1970	Vitreous china foot rests 250x125x25 mm		100.00
1970		pair	7.75
1980	Fly ash	cum 1000 Nos	4800.00
1986	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	4800.00 5250.00
	Common burnt clay modular bricks class designation 12.5		228.00
2391	Strips-Aluminium fluted 3.15 mm thick and 150 mm wide	metre	
2392	Strips Aluminium fluted 3.15 mm thick and 200 mm wide	metre	323.00
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	275.00 67.00
2394 2395	Coupler 16 mm dia	each	
	Coupler 20 mm dia	each	88.00 130.00
2396	Coupler 25 mm dia	each	
2397	Coupler 28 mm dia	each	192.00
2398	Coupler 32 mm dia	each	231.00
2399	Complete Roof Joint of 100 mm	metre	4500.00
2400	Complete Roof Joint of 150 mm	metre	4800.00
2401	Complete Roof Joint of 200 mm	metre	5000.00
2402	Epoxy adhesive	kg	150.00
2403	Floor Joint of 100 mm	metre	4500.00
2404	Floor Joint of 150 mm	metre	5000.00
2405	Floor Joint of 200 mm	metre	5400.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	330.00
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	500.00
2408	Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/sqm)	sqm	700.00

Code No.	Description	Unit	Rate ₹
2409	Wall Joint of 100 mm	metre	3400.00
2410	Wall Joint of 150 mm	metre	3700.00
2411	Wall Joint of 200 mm	metre	4000.00
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	360.00
2413	12 mm commercial ply	sqm	580.00
2414	18 mm thick block board with commercial ply veneering on both side	sqm	700.00
2447	Hollock ballies 125 mm diameter	metre	35.00
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	50.00
2451	Brass cupboard lock 6 levers of approved quality, 40 mm size	each	70.00
2452	Brass cupboard lock 6 levers of approved quality, 50 mm size	each	75.00
2453	Brass cupboard lock 6 levers of approved quality, 65 mm size	each	80.00
2454	Brass cupboard lock 6 levers of approved quality, 75 mm size	each	100.00
2455	Brass hanging type door stopper 150 mm	each	65.00
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	590.00
2459	Anodised Aluminium hanging type door stopper	each	25.00
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	50.00
2465	Anodised Aluminium Casement stay 250 mm	each	50.00
2466	Hollock wood in scantling	10 cudm	325.00
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	165.00
2468	Nickled Chromium Brass cupboard lock 40 mm size	each	65.00
2469	Nickled Chromium Brass cupboard lock 50 mm size	each	75.00
2470	Nickled Chromium Brass cupboard lock 65 mm size	each	85.00
2471	Nickled Chromium Brass cupboard lock 75 mm size	each	110.00
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	1030.00
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	840.00
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	920.00
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	691.90
2485	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	922.50
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	1198.15
2487	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	641.25
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	860.65
2489	PVC edge bending tape 2.00 mm thick	metre	28.55
2500	Extra for selected planks of second class deodar wood	10 cudm	100.00

Code No.	Description	Unit	Rate ₹
2504	Kiln seasoning of timber	cum	730.00
2505	Hollock wood in planks	10 cudm	370.00
2506	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 60 mm	10 nos	250.00
2507	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 80 mm	10nos	293.00
2508	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 120 mm	10 nos	364.00
2509	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 140 mm	10 Nos	450.00
2510	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 160 mm	10 Nos	570.00
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	4800.00
2603	Common burnt clay F.P.S. (non modular) bricks class designation 5.0	1000 Nos	3500.00
2605	Structural sealant - 6 mm x 12 mm	metre	31.60
2606	Spacer tape 6.4 mm thick x 6 mm wide	metre	18.00
2607	Weather Sealant - Non Staining (600 ml)	each	459.15
2608	Weather Sealant - Normal (300 ml)	each	143.20
2609	MS Brackets/Aluminium Alloy Brackets	kg	100.00
2610	Silicon Gasket in Kg (Above 50 g / m)	kg	601.25
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	160.00
2612	Anchor Fastner - M10	each	110.95
2613	SS Bolt with washer of sizes for structural glazing / ACP Cladding	each	35.00
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	5.00
2615	Protective Tape	metre	25.00
2616	GI flashing - 1.2 mm Thick	kg	66.00
2617	6 mm thick High performance glass	sqm	1910.00
2618	6 mm thick clear heat strengthened glass	sqm	770.00
2619	6 mm thick clear heat strengthened glass	each	145.00
2620	ARMS GS HD - TOP HUNG - 20"- TYPE P-COUPLE	pair	1570.80
2621	Connection Block	each	39.35
2622	Curtain wall striker	each	102.70
2623	Adjustable Fastening Pawl	each	38.25
2624	Corner drive	each	294.95
2625	Top wedge Block	each	136.55
2626	Glass wool Denisity 48 Kg / m3 with Black Glass Tissue (BGT)	sqm	230.00
2627	SS Screws - # 8 x 19	each	10.00
2628	Weather Sealant - DC 789	cartridge	135.00
2629	Cement Board	sqm	250.00

Code No.	Description	Unit	Rate ₹
2630	Baker rod	metre	5.00
2631	4 mm thick ACP	sqm	1200.00
2632	Fire Stop	metre	561.95
2634	GI/Aluminium Sheet (0.8 mm thick)	kg	57.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	220.00
2708	Truf Paver (500 x 500 x 40 mm)	sqm	1090.00
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	135.00
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	140.00
2711	FS800H Grade Flooring Panel (Size 600 mm x600 mm x32 mm)	each	750.00
2712	Zinc Electroplated Pedestals - 300 mm	each	140.00
2713	Zinc Electroplated Pedestals - 450 mm	each	150.00
2714	Zinc Electroplated Tube Stinger	each	70.00
2715	Machine Screw for Fixing	each	2.00
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	700.00
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	360.00
2901	Stone Aggregate (Single size) : 100 mm nominal size	cum	800.00
2902	Stone Aggregate (Single size) : 80 mm nominal size	cum	800.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	1150.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	1150.00
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	380.00
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	400.00
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1100.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1100.00
2914	Solvent	kilogram	25.00
2916	Paving Asphalt VG 10 of approved quality	tonne	40000.00
3002	Polyvinyle chloride sheet 400 micron thick	sqm	35.00
3004	Stone ware spouts 100 mm dia 60 cm long	each	35.00
3050	Galvanised steel corrugated sheets	quintal	5400.00
3080	Gunmetal non-return valve - vertical (screwed end) 25 mm dia	each	360.00
3084	Gunmetal non-return valve - vertical (screwed end) 32 mm dia	each	520.00
3088	Gunmetal non-return valve - vertical (screwed end) 40 mm dia	each	750.00
3092	Gunmetal non-return valve - vertical (screwed end) 50 mm dia	each	1010.00
3096	Gunmetal non-return valve - vertical (screwed end) 65 mm dia	each	1710.00
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1100.00
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	each	250.00
3229	Vitreous china flat back wash basin 550x400 mm	each	550.00
3300	Gunmetal non-return valve - vertical (screwed end) 80 mm dia	each	2890.00
3311	C.I.sluice valve (with caps) class II : 100 mm dia	each	2910.00
3314	C.I.sluice valve (with caps) class II : 125 mm dia	each	3500.00
3317	C.I.sluice valve (with caps) class II : 150 mm dia	each	4300.00

Code No.	Description	Unit	Rate ₹
3320	C.I.sluice valve (with caps) class II : 200 mm dia	each	9210.00
3321	C.I.sluice valve (with caps) class II : 250 mm dia	each	14800.00
3326	C.I.sluice valve (with caps) class II : 300 mm dia	each	18500.00
3327	15 mm Battery Based Sensor Pillar Cock	each	5822.00
3617	C.P. Brass union 40mm dia	each	195.00
3620	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long:100 mm dia	each	1250.00
3621	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long: 75 mm dia	each	1035.00
3624	S.C.I. S&S bends with access door 100 mm dia	each	290.00
3625	S.C.I. S&S bends with access door 75 mm dia	each	240.00
3628	S.C.I. S&S bend 100 mm dia	each	265.00
3629	S.C.I. S&S bend 75 mm dia	each	195.00
3634	S.C.I. S&S heel rest sanitary bend 100 mm dia	each	296.00
3635	S.C.I. S&S heel rest sanitary bend 75 mm dia	each	250.00
3640	S.C.I. S&S single equal junctions 100x100x100 mm	each	472.00
3641	S.C.I. S&S single equal junctions 75x75x75 mm	each	330.00
3644	S.C.I. S&S single equal junctions with access door 100x100x 100 mm	each	495.00
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	373.00
3650	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	620.00
3651	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	462.00
3654	S.C.I. S&S double equal junctions with access door 100x100x 100x100 mm	each	615.00
3655	S.C.I. S&S double equal junctions with access door 75x75x75x 75 mm	each	480.00
3660	S.C.I. S&S single unequal junctions 100x100x75 mm	each	570.00
3664	S.C.I. S&S single unequal junctions with access door 100x100x 75 mm	each	640.00
3670	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	800.00
3674	S.C.I. S&S double unequal junctions with access door 100x100x 75x75 mm	each	850.00
3681	S.C.I. S&S single equal invert branch of required degree 100x100x 100 mm dia	each	425.00
3682	S.C.I. S&S single equal invert branch of required degree 75x75x 75 mm dia	each	323.00
3685	S.C.I. S&S double equal invert branch of required degree 100x100x 100x100 mm dia	each	530.00
3686	S.C.I. S&S double equal invert branch of required degree 75x75x 75x75 mm dia	each	425.00
3690	S.C.I. S&S single unequal invert branch of required degree 100x 100x75 mm dia	each	545.00
3695	S.C.I. S&S double unequal invert branch of required degree 100x 100x75x75 mm dia	each	725.00
3699	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	225.00
3707	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	285.00

Code No.	Description	Unit	Rate ₹
3708	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	390.00
3712	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	300.00
3713	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	383.00
3716	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	358.00
3717	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	465.00
3728	S.C.I. S&S door pieces 100 mm dia	each	400.00
3729	S.C.I. S&S door pieces 75 mm dia	each	295.00
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	350.00
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	300.00
3738	S.C.I. S&S, collars 100 mm	each	250.00
3739	S.C.I. S&S, collars 75 mm	each	170.00
3746	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	218.00
3747	S.C.I. S&S, 75 mm offset for 100 mm dia pipe	each	363.00
3749	Vitreous china toilet paper holder of standard size	each	150.00
3860	560 mm dia cover with frame (Heavy duty)	each	9000.00
3861	560 mm dia cover without frame (Heavy duty)	each	5000.00
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	350.00
4002	Stainless steel bolts/square bar and plates	kg	130.00
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B"	metre	220.00
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C"	metre	240.00
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	270.00
4009	Mild steel tubes hot finished welded type	kilogram	52.00
4010	Mild steel tubes hot finished seamless type	kilogram	65.00
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	70.00
4012	Circular C.I. Box for ceiling fan	each	60.00
4013	Pulley 40 mm dia	each	30.00
4201	Aluminium primer	litre	100.00
4202	Red oxide Zinc chromate primer	litre	70.00
4203	Copper acetate	kilogram	300.00
4204	Hydrochloric acid	kilogram	35.00
4205	Copper chloride	kilogram	300.00
4206	Copper nitrate	kilogram	220.00
4207	Ammonium chloride	kilogram	20.00
5001	Mobil oil	litre	200.00
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	1870.00
6007	Pink marble slab plain 18 mm thick	sqm	645.00
6010	Udaypur green marble slab plain 18 mm thick	sqm	690.00
6019	Black Zebra marble slab plain 18 mm thick	sqm	500.00
6501	Sand zone V (Jamuna)	cum	550.00
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	260.00
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	315.00

Code No.	Description	Unit	Rate ₹
7004	Vitreous china flat back wash basin 450x300 mm	each	425.00
7005	Vitreous china 10 litres low level cistern without fittings	each	925.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1600.00
7008	F.P.S. (non modular) clay fly ash bricks class designation 7.5	1000 Nos	4600.00
7009	12.5 mm thick tapered edge gypsum plain borad	sqm	200.00
7010	Galvanised Steel celling section (size 80x26x0.50 mm)	metre	39.00
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	27.00
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	42.00
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	19.00
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	6.20
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	4.00
7016	Joint filler	kilogram	22.00
7017	Joint finisher	kilogram	24.00
7018	Joint tape roll	roll	145.00
7019	Dash fastener / Chemical fastner	each	15.00
7020	All drive screws ( for gypsum board)	100 Nos	60.00
7021	Primer ( for gypsum board)	litre	85.00
7022	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	160.00
7023	Chromium plated brackets (curtain rods)	each	7.00
7024	Acid Proof cement	tonne	8150.00
7027	M.S. Butt hinges 125x90x4 mm	10 Nos	110.00
7028	12.5 mm thick Fully Perforated gypsum board	sqm	927.00
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	250.00
7030	12.5 mm thick tapered edge gypsum fire resistant board	sqm	237.00
7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	271.00
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	335.00
7033	Nickel plated M.S. pipe 25 mm dia	metre	80.00
7034	Nickel plated M.S. pipe 20 mm dia	metre	70.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	7.00
7036	Nickel plated M.S - Brackets for curtain rod 25 mm	each	8.00
7040	Oxidised mild steel screws 35 mm	100 Nos	50.00
7042	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia	metre	60.00
7043	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia	metre	70.00
7044	Rolling shutters of 80x0.90 mm laths	sqm	1080.00
7045	Rolling shutters of 80x1.2 mm laths	sqm	1150.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	320.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	350.00
7048	Rawl plug 50 mm (designation 10 nos)	each	10.00
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	22.00

Code No.	Description	Unit	Rate ₹
7050	PU Primer	sqm	41.00
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	421.00
7052	GI wire netting 3/4" x 24 G	sqm	27.00
7053	400 G polythene sheet	sqm	15.00
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	420.00
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	50.00
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	65.00
7060	Hydraulic door closer tubular type Aluminium section body	each	840.00
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	22.00
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	20.00
7065	Oxidised M.S. casement stay (straight peg type) 200 mm not less than 0.24 kg	each	18.00
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod	sqm	270.00
7070	Chequered precast cement concrete tiles 22 mm thick using marble chips of size 6mm - Light shade using white cement	sqm	470.00
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	600.00
7072	Wall mounted water closet	each	4650.00
7073	Adjustable Vetrious China Cistern with fittings	each	2500.00
7074	White Vetrious China Waterless Urinal	each	15000.00
7075	Cistern with fittings for Waterless Urinal	each	3400.00
7076	White Vetrious Urinal	each	14000.00
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	570.00
7087	S.C.I. Tee 150 mm	each	600.00
7090	Expanded polystyrene type N- Normal	sqm	130.00
7091	Expanded polystyrene type - SE	sqm	155.00
7095	Stainless steel kitchen sink - with drain board bowl depth 250 mm	each	5185.00
7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm	each	4950.00
7097	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 200 mm	each	4250.00
7098	Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 178 mm	each	3000.00
7101	Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 mm	each	3150.00
7102	Stainless steel kitchen sink - without drain board 610x460 mm bowl depth 200 mm	each	2845.00
7103	Stainless steel kitchen sink - without drain board 470x420 mm bowl depth 178 mm	each	2120.00
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	1320.00
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	1150.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	1720.00
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	550.00
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	450.00

Code No.	Description	Unit	Rate ₹
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	300.00
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	350.00
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	700.00
7116	Hard board 6 mm thick	sqm	175.00
7117	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	30.00
7118	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	35.00
7119	Flexible (coil shaped) PVC waste pipe for sink and washbasin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	28.00
7120	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	30.00
7123	Coloured High density polyethylene / poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	685.00
7126	White Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	975.00
7127	Coloured Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	1500.00
7128	S.W. intercepting trap 100 mm dia	each	190.00
7129	S.W. intercepting trap 150 mm dia	each	250.00
7130	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D 25	each	750.00
7131	Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D 25	each	650.00
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D 25	each	600.00
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D 10	each	700.00
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame -M.D10	each	660.00
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D 20	each	1100.00
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D 35	each	1225.00
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1850.00
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 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 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2030.00
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 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 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1950.00

Code No.	Description	Unit	Rate ₹
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	1650.00
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1630.00
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles &rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1450.00
7157	Laminated veneer lumber confirming to TADS 15:1995 manufa- ctured in factory in frames of doors, windows	10 cudm	710.00
7178	Chemical ASTMC-type I	kg	110.00
7181	C.I. pile shoe	kilogram	50.00
7182	M.S. clamps for pile shoe	kilogram	45.00
7183	Bentonite	tonne	3100.00
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	60.00
7187	C.I. grating 150 mm dia, weighing not less than 440 gm	each	25.00
7188	uPVC pipes (working pressure 4 kg / cm² ) Single socketed pipe 75 mm dia	metre	67.00
7189	uPVC pipes (working pressure 4 kg / cm² ) Single socketed pipe 110 mm dia	metre	129.00
7190	uPVC pipes (working pressure 4 kg / cm² ) Rubber (Seal) Ring 75 mm dia	each	16.00
7191	uPVC pipes (working pressure 4 kg / cm² ) Rubber (Seal) Ring 110 mm dia	each	20.00
7192	uPVC coupler for UPVC drainage pipes 75 mm	each	34.00
7193	uPVC coupler for UPVC drainage pipes 110 mm	each	52.00
7194	uPVC pushfit coupler (single) 75 mm thick	each	50.00
7195	uPVC pushfit coupler (single) 110 mm thick	each	81.00
7196	uPVC single equal Tee (without door) 75x75x75 mm	each	95.00
7197	uPVC single equal Tee (without door) 110x110x110 mm	each	128.00
7198	uPVC single equal Tee (with door) 75x75x75 mm	each	115.00
7199	uPVC single equal Tee (with door) 110x110x110 mm	each	180.00
7208	UPVC bend 87.5° 75 mm bend	each	56.00
7209	UPVC bend 87.5° 110 mm bend	each	95.00
7212	UPVC plain shoe 75 mm bend	each	107.00
7213	UPVC plain shoe 110 mm bend	each	207.00
7214	UPVC pipe clip 75 mm bend	each	16.00
7215	UPVC pipe clip 110 mm bend	each	31.00
7231	Resin Bonded Glass wool 16 kg/ m3: 50 mm thick	sqm	145.00
7232	Resin Bonded Glass wool 24 kg/ m3: 50 mm thick	sqm	204.00
7233	Fibre glass tissue reinforcement Type II Grade I	sqm	72.00
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement	sqm	230.00

Code No.	Description	Unit	Rate ₹
7237	Precast chequered cement tiles 22 mm thick medium shade using 50% white cement 50% ordinary cement	sqm	370.00
7238	High Albedo paint	kg	246.00
7239	Epoxy paint	litre	250.00
7240	Fire retardant paint	litre	260.00
7241	Melamine polish	litre	300.00
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	1750.00
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone- 18 mm thick	sqm	1800.00
7246	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	pertest	33200.00
7247	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	pertest	40300.00
7248	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	pertest	48500.00
7249	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	15000.00
7250	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	23000.00
7251	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	29500.00
7252	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	15000.00
7253	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile above 50	·	0000000
7054	tonne capacity	per test	23600.00
7254	Hardening compound	litre	40.00
7255	Road marking paint (spirit based)	litre	120.00
7256	Superior quality road marking paint (water based)	litre	170.00
7257	C.P. Brass bibcock 15 mm	each	375.00
7258	C.P. Brass long nose bibcock 15 mm	each	657.00
7259	C.P. Brass long body bibcock 15 mm	each	501.00
7260	C.P. Brass stop cock (concealed) 15 mm	each	513.00
7261	C.P. Brass angle valve 15 mm	each	417.00
7266	Pressed clay tiles 20mm thick 250x250 mm size	1000 Nos	12150.00
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	120.00

Code No.	Description	Unit	Rate ₹
7268	Semi perforated ceiling tiles (600x600x12 mm)	each	120.00
7269	25 mm thick particle board	sqm	480.00
7270	30 mm thick prelaminated flush door shutter	sqm	850.00
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	40.00
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	940.00
7273	Resin Bonded Rockwool 48 kg/m3	sqm	211.00
7280	Waste plastic additive	tonne	40000.00
7281	Chemical ASTMC-type II	kg	170.00
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	1900.00
7296	Granite of any colour, 30 mm thick (slab area upto 0.50 sqm)	sqm	2300.00
7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	2000.00
7306	Aluminium T or L sections	kilogram	200.00
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	340.00
7309	Paving Asphalt of grade VG-30 of approved quality	tonne	41000.00
7312	Expandable fastener with plastic sleeve and M.S. screws : 25 mm long	each	10.00
7313	Expandable fastener with plastic sleeve and M.S. screws : 32 mm long	each	11.00
7314	Expandable fastener with plastic sleeve and M.S. screws : 40 mm long	each	14.00
7315	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	15.00
7318	Plasticizer / super plasticizer	kilogram	38.00
7319	Wall form panel 1250x500 mm	each	1050.00
7320	Tie bolt 12 mm dia 100 mm length	each	50.00
7321	Tie bolt 12 mm dia 150 mm length	each	60.00
7322	Tie bolt 20 mm dia 150 mm length	each	75.00
7323	Tie bolt 20 mm dia 225 mm length	each	90.00
7324	Spring coil 12 mm	each	16.00
7325	Plastic cone 12 mm dia	each	18.00
7326	Corner angle 45x45x5 mm 1.50 m long	each	300.00
7327	100 mm channel shoulder 2.5 m long	each	1160.00
7328	Double clip ( bridge clip)	each	97.00
7329	Single clip	each	77.00
7330	M.S. tube 40 mm dia	metre	280.00
7331	Wall form panel 1250x450 mm	each	1040.00
7332	Corner angle 45x45x5 mm 2.50 m long	each	340.00
7333	Column clamp 450x1070 mm	each	1220.00
7334	Prop 2 m ( 2-3.5 m)	each	830.00
7335	Binding wire	kilogram	53.00
7338	Gun metal cramp	kilogram	330.00
7339	Stainless steel cramp	kilogram	340.00

Code No.	Description	Unit	Rate ₹
7340	Stainless steel pin.	kg	190.00
7342	Adjustable span ESO+SI (2.35-3.40)	each	1900.00
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	1200.00
7344	Beam clamp 300-380 mm (450-1070 mm)	each set	422.00
7345	Prop 4 m	each	1170.00
7346	Double coupler	each	55.00
7347	Cadmium plated full threaded steel screws (30x4 mm dia)	100 Nos	28.00
7348	Aluminium washer 2 mm thick 15 mm dia	100 nos	10.00
7349	12 mm M.S. 'U' beading	metre	15.00
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	115.00
7358	Flushing Cistern P.V.C. 10 litre capacity ( low level ) (White) ( with fittings, accessories and flush pipe)	each	640.00
7359	P.V.C. automatic flushing cistern 5 litre capacity	each	490.00
7361	P.V.C. automatic flushing cistern 10 litre capacity	each	530.00
7363	15 mm C.P. brass tap with elbow operation lever	each	700.00
7364	White glazed fire clay draining board 600x450x25 mm	each	550.00
7366	Glass reinforced Gypsum ( GRG) board 12.5 mm thick	sqm	240.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	60.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	75.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	465.00
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	1050.00
7377	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1250.00
7378	G.I. flush pipe and C.P. brass spreader including C.P.connecting pipe Range of four lipped urinals	each	1900.00
7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS:		4000.00
7000	2556	each	1600.00
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	650.00
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	325.00
7382	Bitumen emulsion rapid setting (R.S.) confirming to IS : 8887	tonne	29800.00
7385	3 mm thick translucent white acrylic plastic sheet	sqm	570.00
7386	12 mm thick particle board ceiling tile Spigot for standard jointing	sqm	260.00
7387 7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	kilogram each	45.00 50.00
7389	Anodising 15 microns on aluminium sections		
7390	Neoprene/EPDM rubber gasket	kilogram metre	40.00 25.00
7390	Anodising 25 microns on aluminium sections	kilogram	25.00 50.00
7392	Powder coating 50 microns on aluminium sections	kilogram	64.00
7393	Polyester powder coating 50 microns on aluminium sections	kilogram	70.00
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1550.00
7395	6 mm dia G.I. adjustable hangers including clips (up to 1.2 m length)	each	28.00

7397Base Jackeach1807398Challieseach8007399Cup lockseach8007399Cup lockseach100740015 mm PTMT bib cock with flange (fancy)each140740215 mm PTMT bib cock long body with flangeeach100740315 mm dia PTMT stop cock (male thread)each100740520 mm dia PTMT stop cockeach1307406PTMT push cock 15 mm diaeach8007407PTMT push cock 12 mm dia 20 mm BSPeach8007408PTMT grating 100 mm diaeach8017410PTMT grating 100 mm diaeach2257411125 mm grating with waste holeeach427412Rectangular type with openable circular lid 150 mm size 18 mmhigh with 100 mm dia (110 gm)each7416Double acting air valve 50 mmeach62007417Double acting air valve 80 mmeach23007418Water meter (including testing charges) 100 mmeach52007419Water meter (including testing charges) 100 mmeach54007422Dirt box strainer 100 mmeach58107423Dirt box strainer 100 mmeach68007424Water meter (including testing charges) 200 mmeach64007425Dirt box strainer 100 mmeach68007426Cat's eyeeach68007427Water stainer 100 mmeach6800	Code No.	Description	Unit	Rate ₹
7398Challieseach8007399Cup lockseach6007399Cup lockseach100740015 mm PTMT bib cock winf flange (fancy)each1100740115 mm PTMT bib-cock long body with flangeeach1100740215 mm PTMT bib-cock long body with flangeeach1100740315 mm M dia PTMT stop cockeach1307406PTMT pillar cockeach1307407PTMT push cock 15 mm diaeach6007408PTMT grating 100 mm diaeach2017410PTMT grating 100 mm diaeach2427411125 mm grating with waste holeeach4227412Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each42007415Double acting air valve 50 mmeach23007416Double acting air valve 60 mmeach23007417Double acting air valve 60 mmeach23007420Water meter (including testing charges) 100 mmeach23007421Water meter (including testing charges) 100 mmeach45007422Dirt box strainer 100 mmeach25007423Dirt box strainer 100 mmeach25007424Water meter (including testing charges) 100 mmeach25007425Dirt box strainer 100 mmeach25007426Carls eyeeach1607427Water stops Dumb bell with	7396	Double action hydraulic floor spring with brass cover plate	each	1700.00
7399Cup lockseach80740015 mm PTMT bib cockeach100740115 mm PTMT bib cock with flange (fancy)each140740215 mm PTMT bib cock (ong body with flangeeach160740315 mm dia PTMT stop cockeach1307406PTMT pillar cockeach1307407PTMT push cock 15 mm diaeach907408PTMT push cock 12 mm dia 20 mm BSPeach807409PTMT grating 100 mm diaeach4207410PTMT push cock (fancy) 15 mm foam floweach4227411125 mm grating with waste holeeach4227415Double acting air valve 50 mmeach2207416Double acting air valve 80 mmeach2207417Double acting air valve 80 mmeach2107418Water meter (including testing charges) 80 mmeach5007420Water meter (including testing charges) 100 mmeach5007421Water meter (including testing charges) 200 mmeach5807422Dirt box strainer 100 mmeach5807423Dirt box strainer 100 mmeach5807424Dirt box strainer 100 mmeach5807425Dirt box strainer 100 mmeach5807426Cat's eyeeach1467427Water stops Serated with central bulb (225 mm wide, 8-11 mm thick)metre7430Wedge expansion hold fastener 1/4" or 6 mm	7397	Base Jack	each	180.00
740015 mm PTMT bib cockeach100740115 mm PTMT bib cock with flange (fancy)each144740215 mm PTMT bib-cock long body with flangeeach160740315 mm dia PTMT stop cock (male thread)each100740520 mm dia PTMT stop cockeach1307406PTMT push cock 15 mm diaeach1607407PTMT push cock 12 mm dia 20 mm BSPeach807408PTMT push cock 12 mm dia 20 mm BSPeach4227410PTMT push cock (fancy) 15 mm foam floweach2257411125 mm grating with waste holeeach4227412Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each1227415Double acting air valve 50 mmeach4207416Double acting air valve 80 mmeach2307417Double acting air valve 80 mmeach2307418Water meter (including testing charges) 100 mmeach2307420Water meter (including testing charges) 100 mmeach2407421Water meter (including testing charges) 200 mmeach2407422Dirt box strainer 100 mmeach2507424Dirt box strainer 100 mmeach2507425Dirt box strainer 100 mmeach2507426Cat's eyeeach4507427Water stops Serrated with central bulb2557427428Water stops Dumb bell with	7398	Challies	each	800.00
740115 mm PTMT bib cock with flange (fancy)each140740215 mm PTMT bib-cock long body with flangeeach160740315 mm dia PTMT stop cock (male thread)each100740520 mm dia PTMT stop cockeach1607406PTMT pillar cockeach1607407PTMT publa cock 15 mm diaeach907408PTMT push cock 12 mm dia 20 mm BSPeach807409PTMT grating 100 mm diaeach207410PTMT Pillar cock (fancy) 15 mm foam floweach247411125 mm grating with waste holeeach427412Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each4207415Double acting air valve 80 mmeach62007416Double acting air valve 80 mmeach63007418Water meter (including testing charges) 80 mmeach50007420Water meter (including testing charges) 100 mmeach54007421Water meter (including testing charges) 100 mmeach54007422Dirt box strainer 80 mmeach54007423Dirt box strainer 100 mmeach54007424Water stops Serrated with central bulbmetre3907425Dirt box strainer 100 mmeach54007426Cat's eyeeach1407427Water stops Serrated with central bulbmetre3707428Water stops Serrated wit	7399	Cup locks	each	80.00
740215 mm PTMT bib-cock long body with flangeeach160740315 mm dia PTMT stop cock (male thread)each100740520 mm dia PTMT stop cockeach1307406PTMT pillar cockeach1607407PTMT push cock 15 mm diaeach607408PTMT push cock 12 mm dia 20 mm BSPeach807409PTMT grating 100 mm diaeach2257411125 mm grating with waste holeeach427412Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each4227415Double acting air valve 80 mmeach62007416Double acting air valve 80 mmeach62007417Double acting air valve 80 mmeach63007418Water meter (including testing charges) 80 mmeach63007420Water meter (including testing charges) 100 mmeach63007421Water meter (including testing charges) 100 mmeach63007422Dirt box strainer 80 mmeach64007423Dirt box strainer 100 mmeach63007424Dirt box strainer 100 mmeach63007425Dirt box strainer 100 mmeach63007426Cat's eyeeach1607427Water stops Serrated with central bulbmetre33007428Water stops Serrated with central bulbmetre33007429Kickersmetre3400<	7400	15 mm PTMT bib cock	each	100.00
740315 mm dia PTMT stop cock (male thread)each100740520 mm dia PTMT stop cockeach1307406PTMT pillar cockeach1607407PTMT push cock 15 mm diaeach907408PTMT push cock 12 mm dia 20 mm BSPeach807409PTMT grating 100 mm diaeach317410PTMT grating 100 mm diaeach427411125 mm grating with waste holeeach427412Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each1227415Double acting air valve 50 mmeach4207416Double acting air valve 80 mmeach68007417Double acting air valve 100 mmeach68007418Water meter (including testing charges) 100 mmeach30007420Water meter (including testing charges) 100 mmeach30007421Water meter (including testing charges) 150 mmeach58007422Dirt box strainer 80 mmeach48007424Dirt box strainer 100 mmeach58007425Dirt box strainer 200 mmeach18007426Cat's eyeeach18007430Wedge expansion hold fastener 1/4" or 6 mmeach14007431Wedge expansion hold fastener 1/2" or 12 mmeach1407432Wedge expansion hold fastener 1/2" or 12 mmeach1407433Wedge expansion hold fastener 1/2" or 1	7401	15 mm PTMT bib cock with flange (fancy)	each	140.00
740520 mm dia PTMT stop cockeach1307406PTMT pillar cockeach1607407PTMT push cock 15 mm diaeach807408PTMT push cock 12 mm dia 20 mm BSPeach807409PTMT grating 100 mm diaeach317410PTMT Pillar cock (fancy) 15 mm foam floweach4227411125 mm grating with waste holeeach4227412Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each4227415Double acting air valve 50 mmeach4207416Double acting air valve 80 mmeach68007417Double acting air valve 80 mmeach68007418Water meter (including testing charges) 100 mmeach50007419Water meter (including testing charges) 150 mmeach50007420Water meter (including testing charges) 200 mmeach58107423Dirt box strainer 100 mmeach45807424Dirt box strainer 100 mmeach45807425Dirt box strainer 150 mmeach18677426Cat's eyeeach1867427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre3927428Water stops Serrated with central bulbmetre3927429Kickersmetre3767430Wedge expansion hold fastener 1/4" or 6 mmeach1457431Wedge expansion hold fastener 3	7402	15 mm PTMT bib-cock long body with flange	each	160.00
7406PTMT pillar cockeach1607407PTMT push cock 12 mm dia 20 mm BSPeach807408PTMT push cock 12 mm dia 20 mm BSPeach807409PTMT grating 100 mm diaeach317410PTMT Pillar cock (fancy) 15 mm foam floweach2257411125 mm grating with waste holeeach427412Rectangular type with openable circular lid 150 mm size 18 mmeach4207415Double acting air valve 50 mmeach42007416Double acting air valve 100 mmeach68007418Water meter (including testing charges) 80 mmeach52007419Water meter (including testing charges) 100 mmeach54007420Water meter (including testing charges) 150 mmeach54007421Water meter (including testing charges) 200 mmeach54007422Dirt box strainer 100 mmeach58107423Dirt box strainer 200 mmeach58107424Dirt box strainer 200 mmeach1867425Dirt box strainer 200 mmeach1867426Cat's eyeeach1467427Water stops Serrated with central bulb(22 mm wide, 8-11 mm thick)metre7430Wedge expansion hold fastener 1/2" or 12 mmeach1567432Wedge expansion hold fastener 3/8" or 10 mmeach6507433Wedge expansion hold fastener 1/2" or 12 mmeach1667434Alum	7403	15 mm dia PTMT stop cock(male thread)	each	100.00
7407PTMT push cock 15 mm diaeach907408PTMT push cock 12 mm dia 20 mm BSPeach807409PTMT grating 100 mm diaeach317410PTMT Pillar cock (fancy) 15 mm foam floweach2257411125 mm grating with waste holeeach427412Rectangular type with openable circular lid 150 mm size 18 mmeach4227415Double acting air valve 50 mmeach4207416Double acting air valve 80 mmeach52007417Double acting air valve 80 mmeach68007418Water meter (including testing charges) 80 mmeach68007419Water meter (including testing charges) 100 mmeach50007420Water meter (including testing charges) 100 mmeach50007421Water meter (including testing charges) 200 mmeach58007422Dirt box strainer 80 mmeach58007423Dirt box strainer 100 mmeach58007424Dirt box strainer 100 mmeach58007425Dirt box strainer 200 mmeach18607426Cat's eyeeach18007427Water stops Serrated with central bulbmetre39007428Water stops Sum hold fastener 1/4" or 6 mmeach1447431Wedge expansion hold fastener 1/2" or 12 mmeach1507432Wedge expansion hold fastener 1/4" or 6 mmeach1627433Wedge expansion hold fast	7405	20 mm dia PTMT stop cock	each	130.00
7408PTMT push cock 12 mm dia 20 mm BSPeach807409PTMT grating 100 mm diaeach317410PTMT Pillar cock (fancy) 15 mm foam floweach2257411125 mm grating with waste holeeach42Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each1227415Double acting air valve 50 mmeach40007416Double acting air valve 50 mmeach68007417Double acting air valve 80 mmeach68007418Water meter (including testing charges) 80 mmeach68007419Water meter (including testing charges) 100 mmeach50007420Water meter (including testing charges) 100 mmeach50007421Water meter (including testing charges) 200 mmeach58007422Dirt box strainer 80 mmeach58007423Dirt box strainer 100 mmeach58007424Dirt box strainer 200 mmeach18607425Dirt box strainer 200 mmeach18607429Kickersmetre37207430Wedge expansion hold fastener 1/4" or 6 mmeach2607431Wedge expansion hold fastener 1/2" or 12 mmeach2607432Wedge expansion hold fastener 1/2" or 12 mmeach6607433Rim thick (miror polished tiles machine cut deg) Raj Nagar whitesqm5007434Aluminium single cleat of size 30x32x3 mmeach	7406	PTMT pillar cock	each	160.00
7409PTMT grating 100 mm diaeach317410PTMT Pillar cock (fancy) 15 mm foam floweach2257411125 mm grating with waste holeeach427412Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each1227415Double acting air valve 50 mmeach4207416Double acting air valve 80 mmeach68007417Double acting air valve 80 mmeach21307418Water meter (including testing charges) 80 mmeach21307419Water meter (including testing charges) 150 mmeach50007420Water meter (including testing charges) 200 mmeach50007421Water meter (including testing charges) 200 mmeach28007422Dirt box strainer 80 mmeach28007423Dirt box strainer 100 mmeach58007424Dirt box strainer 100 mmeach58007425Dirt box strainer 200 mmeach18007426Cat's eyeeach18007429Kickersmetre39007429Kickersmetre39007431Wedge expansion hold fastener 1/4" or 6 mmeach1427432Wedge expansion hold fastener 1/4" or 6 mmeach1427433Wedge expansion hold fastener 1/2" or 12 mmeach1267434Wedge expansion hold fastener 1/2" or 12 mmeach257433Wedge expansion hold fasten	7407	PTMT push cock 15 mm dia	each	90.00
7410PTMT Fillar cock (fancy) 15 mm foam floweach2257411125 mm grating with waste holeeach427412Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each1227415Double acting air valve 50 mmeach40007416Double acting air valve 80 mmeach68007417Double acting air valve 100 mmeach68007418Water meter (including testing charges) 80 mmeach21307419Water meter (including testing charges) 100 mmeach33007420Water meter (including testing charges) 150 mmeach50007421Water meter (including testing charges) 200 mmeach28007422Dirt box strainer 80 mmeach281007423Dirt box strainer 100 mmeach48007424Dirt box strainer 100 mmeach48207425Dirt box strainer 200 mmeach18007426Cat's eyeeach18007429Kickersmetre39007430Wedge expansion hold fastener 1/4" or 6 mmeach14007431Wedge expansion hold fastener 1/4" or 6 mmeach14007432Wedge expansion hold fastener 1/4" or 6 mmeach14007433Smm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm50007432Wedge expansion hold fastener 1/4" or 6 mmeach14007433Wedge expansion hold fastener 1/4" or 6 mm	7408	PTMT push cock 12 mm dia 20 mm BSP	each	80.00
7411125 mm grating with waste holeeach427412Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each1227415Double acting air valve 50 mmeach40007416Double acting air valve 80 mmeach52007417Double acting air valve 80 mmeach68007418Water meter (including testing charges) 80 mmeach68007419Water meter (including testing charges) 100 mmeach50007420Water meter (including testing charges) 150 mmeach50007421Water meter (including testing charges) 200 mmeach58007422Dirt box strainer 80 mmeach28107423Dirt box strainer 100 mmeach58007424Dirt box strainer 200 mmeach88007425Dirt box strainer 200 mmeach82507426Cat's eyeeach18607427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre7430Wedge expansion hold fastener 1/4" or 6 mmeach1477431Wedge expansion hold fastener 3/8" or 10 mmeach287432Wedge expansion hold fastener 3/8" or 10 mmeach287433Singer polished tiles machine cut edge) Raj Nagar whitesqm5007444Aluminium single cleat of size 30x32x3 mmeach667443Aluminium grip strip of size 50x12x2 mmeach667444Aluminium U beadi	7409	PTMT grating 100 mm dia	each	31.00
7412Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)each1227415Double acting air valve 50 mmeach40007416Double acting air valve 80 mmeach52007417Double acting air valve 100 mmeach68007418Water meter (including testing charges) 80 mmeach21307419Water meter (including testing charges) 100 mmeach33007420Water meter (including testing charges) 150 mmeach54007421Water meter (including testing charges) 200 mmeach28107422Dirt box strainer 80 mmeach28107423Dirt box strainer 100 mmeach58107424Dirt box strainer 100 mmeach58107425Dirt box strainer 200 mmeach88107426Cat's eyeeach18607427Water stops Serrated with central bulbmetre33007430Wedge expansion hold fastener 1/4" or 6 mmeach1467431Wedge expansion hold fastener 3/8" or 10 mmeach1457432Wedge expansion hold fastener 1/2" or 12 mmeach6507433Smm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach6507443Aluminium single cleat of size 50x12x2 mmeach1477444Aluminium grip strip of size 50x12x2 mmeach147744525 mm thick prelami	7410	PTMT Pillar cock (fancy) 15 mm foam flow	each	225.00
high with 100 mm dia (110 gm)each1227415Double acting air valve 50 mmeach40007416Double acting air valve 80 mmeach52007417Double acting air valve 100 mmeach68007418Water meter (including testing charges) 80 mmeach21307419Water meter (including testing charges) 100 mmeach33007420Water meter (including testing charges) 150 mmeach50007421Water meter (including testing charges) 200 mmeach54007422Dirt box strainer 80 mmeach28107423Dirt box strainer 100 mmeach58107424Dirt box strainer 150 mmeach58107425Dirt box strainer 200 mmeach18257426Cat's eyeeach18607427Water stops Serrated with central bulbmetre39007428Water stops Dumb bell with central bulbmetre39007430Wedge expansion hold fastener 1/4" or 6 mmeach1477431Wedge expansion hold fastener 1/2" or 12 mmeach1487432Wedge expansion hold fastener 1/2" or 12 mmeach65007443Aluminium single cleat of size 30x32x3 mmeach1447444Aluminium single cleat of size 30x32x3 mmeach1447444Aluminium U beadingkilogram220	7411	125 mm grating with waste hole	each	42.00
7416Double acting air valve 80 mmeach52007417Double acting air valve 100 mmeach68007418Water meter (including testing charges) 80 mmeach21307419Water meter (including testing charges) 100 mmeach33007420Water meter (including testing charges) 150 mmeach50007421Water meter (including testing charges) 200 mmeach54007422Dirt box strainer 80 mmeach28107423Dirt box strainer 100 mmeach58107424Dirt box strainer 100 mmeach58107425Dirt box strainer 200 mmeach58107426Cat's eyeeach18007427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre39007429Kickersmetre39007430Wedge expansion hold fastener 1/4" or 6 mmeach14007431Wedge expansion hold fastener 3/8" or 10 mmeach28007432Wheel 75 mm dia. 40 mm wideeach66007443Aluminium single cleat of size 30x32x3 mmeach14007444Aluminium grip strip of size 50x12x2 mmeach1400744525 mm thick prelaminated flush door shutter both side decorativesqm83007449Aluminium U beadingkilogram2200	7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)	each	122.00
7417Double acting air valve 100 mmeach68007418Water meter (including testing charges) 80 mmeach21307419Water meter (including testing charges) 100 mmeach33007420Water meter (including testing charges) 150 mmeach50007421Water meter (including testing charges) 200 mmeach54007422Dirt box strainer 80 mmeach28107423Dirt box strainer 100 mmeach45807424Dirt box strainer 100 mmeach58107425Dirt box strainer 200 mmeach82507426Cat's eyeeach18607427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre7429Kickersmetre39007431Wedge expansion hold fastener 1/4" or 6 mmeach1477432Wedge expansion hold fastener 3/8" or 10 mmeach1457433Rimm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm50007444Aluminium single cleat of size 30x32x3 mmeach147744525 mm thick prelaminated flush door shutter both side decorativesqm83007449Aluminium U beadingkilogram2200	7415	Double acting air valve 50 mm	each	4000.00
7418Water meter (including testing charges) 80 mmeach21307419Water meter (including testing charges) 100 mmeach33007420Water meter (including testing charges) 150 mmeach50007421Water meter (including testing charges) 200 mmeach54007422Dirt box strainer 80 mmeach28107423Dirt box strainer 100 mmeach58107424Dirt box strainer 150 mmeach58107425Dirt box strainer 200 mmeach58107426Cat's eyeeach18207427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre3907429Kickersmetre3907420Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 1/2" or 12 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach14744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7416	Double acting air valve 80 mm	each	5200.00
7419Water meter (including testing charges) 100 mmeach33007420Water meter (including testing charges) 150 mmeach50007421Water meter (including testing charges) 200 mmeach54007422Dirt box strainer 80 mmeach28107423Dirt box strainer 100 mmeach45807424Dirt box strainer 150 mmeach58107425Dirt box strainer 200 mmeach82507426Cat's eyeeach18007427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre41607429Kickersmetre39007429Kickersmetre39007430Wedge expansion hold fastener 1/4" or 6 mmeach1477431Wedge expansion hold fastener 1/2" or 12 mmeach28007432Wheel 75 mm dia. 40 mm wideeach65007443Aluminium single cleat of size 30x32x3 mmeach1477444Aluminium gip strip of size 50x12x2 mmeach1177449Aluminium U beadingkilogram22007449Aluminium U beadingkilogram2200	7417	Double acting air valve 100 mm	each	6800.00
7420Water meter (including testing charges) 150 mmeach50007421Water meter (including testing charges) 200 mmeach54007422Dirt box strainer 80 mmeach28107423Dirt box strainer 100 mmeach45807424Dirt box strainer 150 mmeach58107425Dirt box strainer 200 mmeach82507426Cat's eyeeach1807427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre3907429Kickersmetre3907420Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 1/2" or 12 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach6507442Wheel 75 mm dia. 40 mm wideeach6507443Aluminium single cleat of size 50x12x2 mmeach147444Aluminium grip strip of size 50x12x2 mmeach147449Aluminium U beadingkilogram220	7418	Water meter (including testing charges) 80 mm	each	2130.00
7421Water meter (including testing charges) 200 mmeach54007422Dirt box strainer 80 mmeach28107423Dirt box strainer 100 mmeach45807424Dirt box strainer 150 mmeach58107425Dirt box strainer 200 mmeach82507426Cat's eyeeach1807427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre3907428Water stops Dumb bell with central bulbmetre3907429Kickersmetre3757430Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 3/8" or 10 mmeach287432Wedge expansion hold fastener 1/2" or 12 mmeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach117449Aluminium U beadingkilogram220	7419	Water meter (including testing charges) 100 mm	each	3300.00
7422Dirt box strainer 80 mmeach28107423Dirt box strainer 100 mmeach45807424Dirt box strainer 150 mmeach58107425Dirt box strainer 200 mmeach82507426Cat's eyeeach1807427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre4157428Water stops Dumb bell with central bulbmetre3907429Kickersmetre3757430Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 3/8" or 10 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach2874338mm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007444Aluminium single cleat of size 30x32x3 mmeach14744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7420	Water meter (including testing charges) 150 mm	each	5000.00
7423Dirt box strainer 100 mmeach45807424Dirt box strainer 150 mmeach58107425Dirt box strainer 200 mmeach82507426Cat's eyeeach1807427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre4157428Water stops Dumb bell with central bulbmetre3907429Kickersmetre3757430Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 3/8" or 10 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach287433Bmm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach147444Aluminium single cleat of size 30x32x3 mmeach14744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7421	Water meter (including testing charges) 200 mm	each	5400.00
7424Dirt box strainer 150 mmeach58107425Dirt box strainer 200 mmeach82507426Cat's eyeeach1807427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre3907428Water stops Dumb bell with central bulbmetre3907429Kickersmetre3907430Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 3/8" or 10 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach287433Smm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach11744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7422	Dirt box strainer 80 mm	each	2810.00
7425Dirt box strainer 200 mmeach82507426Cat's eyeeach1807427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre4157428Water stops Dumb bell with central bulbmetre3907429Kickersmetre3757430Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 3/8" or 10 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach2874398mm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach147444Aluminium single cleat of size 30x32x3 mmeach14744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7423	Dirt box strainer 100 mm	each	4580.00
7426Cat's eyeeach1807427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre4157428Water stops Dumb bell with central bulbmetre3907429Kickersmetre3757430Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 3/8" or 10 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach2874398mm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach11744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7424	Dirt box strainer 150 mm	each	5810.00
7427Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)metre4157428Water stops Dumb bell with central bulbmetre3907429Kickersmetre3757430Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 3/8" or 10 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach2874398mm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach117449Aluminium U beadingkilogram220	7425	Dirt box strainer 200 mm	each	8250.00
7428Water stops Dumb bell with central bulbmetre3907429Kickersmetre3757430Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 3/8" or 10 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach2874398mm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach117449Aluminium U beadingkilogram220	7426	Cat's eye	each	180.00
7429Kickersmetre3757430Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 3/8" or 10 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach2874398mm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach11744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	415.00
7430Wedge expansion hold fastener 1/4" or 6 mmeach147431Wedge expansion hold fastener 3/8" or 10 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach2874398mm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach11744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7428	Water stops Dumb bell with central bulb	metre	390.00
7431Wedge expansion hold fastener 3/8" or 10 mmeach157432Wedge expansion hold fastener 1/2" or 12 mmeach2874398mm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach11744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7429	Kickers	metre	375.00
7432Wedge expansion hold fastener 1/2" or 12 mmeach2874398mm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach11744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7430	Wedge expansion hold fastener 1/4" or 6 mm	each	14.00
74398mm thick (mirror polished tiles machine cut edge) Raj Nagar whitesqm5007442Wheel 75 mm dia. 40 mm wideeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach11744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7431	Wedge expansion hold fastener 3/8" or 10 mm	each	15.00
7442Wheel 75 mm dia. 40 mm wideeach657443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach11744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7432	Wedge expansion hold fastener 1/2" or 12 mm	each	28.00
7443Aluminium single cleat of size 30x32x3 mmeach147444Aluminium grip strip of size 50x12x2 mmeach11744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	500.00
7444Aluminium grip strip of size 50x12x2 mmeach11744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7442	Wheel 75 mm dia. 40 mm wide	each	65.00
744525 mm thick prelaminated flush door shutter both side decorativesqm8307449Aluminium U beadingkilogram220	7443	Aluminium single cleat of size 30x32x3 mm	each	14.00
7449 Aluminium U beading kilogram 220	7444	Aluminium grip strip of size 50x12x2 mm	each	11.00
	7445	25 mm thick prelaminated flush door shutter both side decorative	sqm	830.00
7451 Glass sheet (Pin headed) 4 mm thick som 300	7449	Aluminium U beading	kilogram	220.00
	7451	Glass sheet (Pin headed) 4 mm thick	sqm	300.00

Code No.	Description	Unit	Rate ₹
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	650.00
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	750.00
7466	Second class deodar teak wood lipping 30 mm wide x 12 mm thick	metre	30.00
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	500.00
7477	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	740.00
7478	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	850.00
7479	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	930.00
7480	Pre/aminated 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	780.00
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	42.00
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	54.00
7491	PTMT - Waste Coupling 31/32 mm	each	51.00
7492	PTMT - Waste Coupling 38/40 mm	each	64.00
7493	PTMT - Bottle Trap 31/32 mm	each	317.00
7494	PTMT - Bottle Trap 38/40 mm	each	345.00
7495	PTMT Ball Cock 15mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	134.00
7496	PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	195.00
7497	PTMT Ball Cock 25mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	420.00
7498	PTMT Ball Cock 40mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	780.00
7499	PTMT Ball Cock 50mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	1150.00
7500	PTMT Angle Stop cock with Flange 15 mm	each	130.00
7501	PTMT Swiveling shower 15 mm	each	87.00
7503	PTMT Liquid Soap Container of 400 ml capacity	each	145.00
7504	PTMT Towel Ring 215x200x37 mm	each	116.00
7505	PTMT- Towel Rail (450 mm)	each	192.00
7506	PTMT - Towel Rail (600 mm)	each	226.00
7507	PTMT Shelf 450x124x36 mm	each	258.00
7508	PTMT - Urinal Spreader 15 mm	each	127.00

Code No.	Description	Unit	Rate ₹
7509	PTMT Soap Dish/Holder 138x102x75 mm	each	120.00
7512	PTMT handle 125x34x24 mm	each	30.00
7513	PTMT handle 150x34x24 mm	each	34.00
7514	PTMT butt hinges 75x60x10 mm	each	42.00
7515	PTMT butt hinges 100x75x10 mm	each	56.00
7516	PTMT Tower bolt 152x42x18 mm	each	65.00
7517	PTMT Tower bolt 202x42x18 mm	each	80.00
7518	PTMT door catcher 72x42 mm	each	27.00
7552	Coir veneered board 4 mm thick	sqm	290.00
7553	Coir veneered board 6 mm thick	sqm	390.00
7555	Coir veneered board 12 mm thick	sqm	650.00
7556	Coir veneered board 18 mm thick	sqm	1030.00
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100 mm dia	metre	800.00
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150 mm dia	metre	1200.00
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200 mm dia	metre	1650.00
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia	metre	2300.00
7655	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 300 mm dia	metre	2860.00
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350 mm dia	metre	3510.00
7657	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 400 mm dia	metre	4500.00
7658	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 450 mm dia	metre	5200.00
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500 mm dia	metre	6580.00
7660	Ductile Iron class K -9 pipe Conforming to I.S. 8329 - 600 mm dia	metre	7930.00
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700 mm dia	metre	11000.00
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750 mm dia	metre	11900.00
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800 mm dia	metre	12000.00
7664	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 900 mm dia	metre	14500.00
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000 mm dia	metre	16300.00
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	each	30.00
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia	each	38.00
7669	Rubber Gaskets Conforming to 1.S 5382 of S.B.R quality 200 mm dia	each	66.00
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia	each	78.00
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	each	115.00
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	each	132.00
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	each	240.00
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	each	280.00
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	each	305.00
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	each	380.00
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	each	575.00
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia	each	690.00
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	each	760.00
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	each	1000.00
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	each	1200.00

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7682	Ductile Iron K - 12 specials suitable for push on jointing up to 600 mm dia	quintal	13000.00
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600 mm dia	quintal	18000.00
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600 mm dia	quintal	13700.00
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm dia	quintal	19650.00
7686	Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia	metre	2180.00
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 mm dia	metre	3500.00
7688	Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia	metre	4110.00
7689	Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia	metre	3425.00
7690	Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia	metre	6960.00
7691	Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia	metre	8800.00
7692	Ductile Iron Pipe Class K-9 flanges and welding 400 mm dia	metre	10610.00
7693	Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia	metre	12900.00
7694	Ductile Iron Pipe Class K-9 flanges and welding 500 mm dia	metre	15100.00
7695	Ductile Iron Pipe Class K-9 flanges and welding 600 mm dia	metre	20630.00
7696	Ductile Iron Pipe Class K-9 flanges and welding 700 mm dia	metre	25600.00
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia	metre	900.00
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125 mm dia	metre	1120.00
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia	metre	1350.00
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia	metre	2300.00
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia	metre	3000.00
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia	metre	4050.00
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350 mm dia	metre	4850.00
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400 mm dia	metre	6400.00
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450 mm dia	metre	7750.00
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500 mm dia	metre	9000.00
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia	metre	12595.00
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	quintal	5450.00
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	quintal	8200.00
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	quintal	9000.00
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per I.S. 13382 over 300 mm dia	quintal	9500.00
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	metre	1375.00
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	metre	2150.00
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	metre	3400.00
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	metre	4100.00

Code No.	Description	Unit	Rate ₹
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	metre	5240.00
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	metre	6600.00
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	metre	8550.00
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	metre	10900.00
7720	Screwed double flanged centrifugally cast (spun) C./. Pipe of Class B conforming to I.S. 1536, - 500 mm dia	metre	13560.00
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	metre	18800.00
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia	metre	775.00
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia	metre	1120.00
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200 mm dia	metre	1550.00
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia	metre	2100.00
7726	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300 mm dia	metre	2900.00
7727	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350 mm dia	metre	3445.00
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia	metre	4015.00
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia	metre	4852.00
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia	metre	5735.00
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia	metre	7480.00
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia	metre	9613.00
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia	metre	12100.00
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia	metre	16070.00
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000 mm dia	metre	17032.00
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	5400.00
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	4700.00
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	5000.00
7739	Modified Bitumen Refinery produced CRMB - 55	tonne	40900.00
7741	Modified Bitumen Refinery produced CRMB - 60	tonne	40800.00
7742	Bitumen emulsion medium setting (M.S.) confirming to IS : 8887	tonne	30000.00
7743	M.S. pipe 150 mm dia casing pipe	metre	1060.00
7744	M.S. pipe 200 mm dia casing pipe	metre	1300.00
7745	PVC blind pipe 150 mm dia as per IS: 12818	metre	500.00
7746	PVC blind pipe 200 mm dia as per IS: 12818	metre	750.00
7747	M.S. cap 150 mm dia	each	160.00
7748	M.S. cap 200 mm dia	each	200.00
7749	M.S bail plug 150 mm dia	each	200.00
7750	M.S bail plug 200 mm dia	each	220.00
7751	PVC slotted pipe 150 mm dia as per IS: 12818	metre	450.00
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	700.00
7753	Boulder 50 mm to 200 mm	cum	350.00
7754	Gravel 5 mm to 10 mm	cum	700.00

Code No.	Description	Unit	Rate ₹
7755	Gravel 1.5 mm to 2 mm	cum	650.00
7756	Gravel 3 mm to 6 mm	cum	680.00
7757	M.S. pipe 100 mm dia casing pipe	metre	770.00
7758	uPVC blind pipe 100 mm dia as per IS: 12818	metre	360.00
7759	uPVC slotted pipe 100 mm dia as per IS: 12818	metre	380.00
7760	M.S. cap 100 mm dia	each	130.00
7761	M.S. bail plug 100 mm dia	each	160.00
7762	Precast R.C.C. perforated slab	each	800.008
7763	Water supply tanker of 5000 litre capacity	each	800.00
7764	M.S. socket 100 mm dia	each	180.00
7765	M.S. socket 150 mm dia	each	220.00
7766	M.S. socket 200 mm dia	each	280.00
7767	Stone cleaning chemical approved by ASI	litre	165.00
7768	Water repallent chemical approved by ASI	litre	1587.00
7769	Stone surface strengthening chemical approved by ASI	litre	1020.00
7770	Turpentine oil	litre	68.00
7771	Liquid Amonia 5%	litre	161.00
7772	PeaGravel	cum	750.00
7773	Coloured inter locking C.C. paver Block	sqm	500.00
7774	Stone size 10x10x7.50cm	each	9.00
7775	Sodium pentachlorophenate	kilogram	630.00
7800	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	sqm	300.00
7801	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	365.00
7802	Ceramic Glazed Tiles 1st quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	375.00
7803	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	sqm	515.00
7804	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	545.00
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724 mm X 578 mm	each	3800.00
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355 mm	each	1850.00
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345 mm	each	1650.00
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	435.00
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	468.00
7850	Agaria White marble slab plain 18 mm thick	sqm	1120.00
7857	P.T.M.T. Grating square slit 150 mm	each	77.00
7858	P.T.M.T. Urinal cock 15 mm dia	each	120.00
7859	P.T.M.T. Bib cock with nozzle 15 mm	each	145.00
7861	P.T.M.T. Stop cock (concealed) 15 mm	each	158.00
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	32.00

Code No.	Description	Unit	Rate ₹
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	40.00
7864	P.T.M.T. extension nipple 15 mm	each	32.00
7865	P.T.M.T. extension nipple 20 mm	each	38.00
7866	P.T.M.T. extension nipple 25 mm	each	57.00
7893	Tactile tile	sqm	868.00
7895	Matt finished vitrified tile 100x100 x16 mm	sqm	930.00
7896	Vitrified tile	sqm	510.00
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	4500.00
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	4600.00
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	4600.00
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	4500.00
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	5000.00
8001	24 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2150.00
8002	30 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2250.00
8003	Factory made PVC rigid foam panelled shutter i/c carriage	sqm	2150.00
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/ c carriage	sqm	2550.00
8006	Factory made PVC rigid foam sheet 1 mm thick	sqm	185.00
8007	Factory made PVC rigid foam sheet 5 mm thick	sqm	632.00
8008	Factory made prelaminated PVC rigid foam sheet 5 mm thick	sqm	752.00
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	150.00
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	350.00
8012	Adhesive solvent cement	kg	165.00
8014	Factory made door frame of size 50x47 mm with wall thickness 5 mm made of single piece extruded profile	metre	490.00
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	85.00
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	60.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	99.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	167.00
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	207.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	245.00
8206	Bitumen primer for bitumen membrane	litre	82.00
8207	Geotextile 120 grams per sqm membrane	sqm	38.00
8210	Stainless steel screws 50 mm	100 Nos	250.00
8211	Stainless steel screws 40 mm	100 Nos	200.00
8212	Stainless steel screws 30 mm	100 Nos	150.00
8214	Stainless steel screws 20 mm	100 Nos	100.00
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	250.00

Code No.	Description	Unit	Rate ₹
8216	Stainless steel butt hinges 100x58x1.9 mm IS: 12817 marked	10 Nos	230.00
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	150.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	130.00
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	330.00
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	240.00
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	195.00
8222	M.S. heavy weight butt hinges 125x90x4.0 mm IS: 1341 marked.	10 Nos	330.00
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos	170.00
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 nos	90.00
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	75.00
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	95.00
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	125.00
8302	2025 mm PE-AL-PE Composite pressure pipe	metre	160.00
8303	2532 mm PE-AL-PE Composite pressure pipe	metre	205.00
8304	3240 mm PE-AL-PE Composite pressure pipe	metre	340.00
8305	4050 mm PE-AL-PE Composite pressure pipe	metre	375.00
8501	Polymer modified cementation coating	kilogram	135.00
8502	Fibre glass cloth	sqm	44.00
8504	Multi surface paint	litre	275.00
8505	Acrylic exterior paint	litre	140.00
8506	Premium Acrylic exterior paint	litre	235.00
8507	Textured exterior paint	litre	200.00
8508	Primer for cement paint	litre	78.00
8509	Special Primer (C.W.)	litre	83.00
8510	Metal Primer (U.G.)	litre	120.00
8589	Calcium Silicate tegular edged celling tiles 595x595 mm and 15 mm thick	sqm	858.00
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long)	each	192.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	125.00
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	77.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm ( 0.6 metre long)	each	39.00
8594	Galvanised Steel soffit cleat size 25x35x1.60 mm	each	3.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	0.60
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	895.00
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	1000.00
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	809.00

Code No.	Description	Unit	Rate ₹
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	906.00
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	468.00
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	484.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	180.00
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	155.00
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	164.00
8607	Spring T-connector	each	5.00
8608	C Carrier Connector	each	11.00
8609	C Suspension Clip	each	11.00
8610	Wire Coupling Clip	each	9.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	187.00
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	118.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long)	each	72.00
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long)	each	34.00
8615	Hanger rod 4 mm thick	each	8.00
8616	Adjustment clip 85x30x0.8 mm	each	6.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	3.00
8618	Dash fastener 6 mm dia 50 mm long	each	11.00
8620	Vitrified floor tile 50x50 cm	sqm	745.00
8621	Vitrified floor tile 60x60 cm	sqm	880.00
8622	Vitrified floor tile 80x80 cm	sqm	1085.00
8623	Vitrified floor tile 100x100 cm	sqm	1650.00
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 mm Outer dia	metre	37.00
8626	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 - 20 mm Outer dia	metre	57.00
8627	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia	metre	88.00
8628	Poly propylene - Random - Co - poymer (PPR) pipes SDR 7.4 - 32 mm Outer dia	metre	142.00
8629	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 40 mm Outer dia	metre	213.00
8630	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 50 mm Outer dia	metre	333.00
8631	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 63 mm Outer dia	metre	513.00
8632	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 75 mm Outer dia	metre	700.00
8633	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 90 mm Outer dia	metre	1066.00
8634	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 - 110 mm Outer dia	metre	1200.00
8635	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11- 160 mm Outer dia	metre	2500.00

No.8636Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer diametre8637Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer diametre8638Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer diametre8639Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer diametre8640Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer diametre8641Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer diametre8642Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner diametre8643Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner diametre8644Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner diametre8645Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner diametre8646Silicon sealantcartridge8647Stainless steel screws 30 mm x4 mm100 Nos8648Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gapsqm8650Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mmeach8651Stainless steel (SS 304 grade) adjustable friction window stay 255 x 10 mmadjustable friction window stay	55.00 68.00 95.00 130.00 185.00 300.00 910.00 1300.00 1800.00 2150.00
8638Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer diametre8639Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer diametre8640Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer diametre8641Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer diametre8642Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner diametre8643Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner diametre8644Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner diametre8645Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner diametre8646Silicon sealantcartridge8647Stainless steel screws 30 mm x4 mm100 Nos8648Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gapsqm8649Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mmeach8650Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mmeach	95.00 130.00 185.00 300.00 910.00 1300.00 1800.00
8639Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer diametre8640Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer diametre8641Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer diametre8642Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner diametre8643Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner diametre8644Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner diametre8645Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner diametre8646Silicon sealantcartridge8647Stainless steel screws 30 mm x4 mm100 Nos8648Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gapsqm8649Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mmeach8651Stainless steel (SS 304 grade) adjustable friction window stayeach	130.00 185.00 300.00 910.00 1300.00 1800.00
8640Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer diametre8641Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer diametre8642Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner diametre8643Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner diametre8644Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner diametre8645Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner diametre8646Silicon sealantcartridge8647Stainless steel screws 30 mm x4 mm100 Nos8648Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gapsqm8649Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mmeach8650Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mmeach	185.00 300.00 910.00 1300.00 1800.00
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8642Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner diametre8643Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner diametre8644Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner diametre8645Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner diametre8646Silicon sealantcartridge8647Stainless steel screws 30 mm x4 mm100 Nos8648Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gapsqm8649Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mmeach8650Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mmeach	910.00 1300.00 1800.00
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8644Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner diametre8645Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner diametre8646Silicon sealantcartridge8647Stainless steel screws 30 mm x4 mm100 Nos8648Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gapsqm8649Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mmeach8650Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mmeach8651Stainless steel (SS 304 grade) adjustable friction window stayeach	1800.00
8645Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner diametre8646Silicon sealantcartridge8647Stainless steel screws 30 mm x4 mm100 Nos8648Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gapsqm8649Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mmeach8650Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mmeach8651Stainless steel (SS 304 grade) adjustable friction window stayeach	
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8647Stainless steel screws 30 mm x4 mm100 Nos8648Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gapsqm8649Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mmeach8650Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mmeach8651Stainless steel (SS 304 grade) adjustable friction window stayeach	
<ul> <li>8648 Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap</li> <li>8649 Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm</li> <li>8650 Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mm</li> <li>8651 Stainless steel (SS 304 grade) adjustable friction window stay</li> </ul>	e 307.00
clear float glass both side having 12 mm air gapsqm8649Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mmeach8650Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mmeach8651Stainless steel (SS 304 grade) adjustable friction window stayeach	s 29.00
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255 x 19 mmeach8651Stainless steel (SS 304 grade) adjustable friction window stay	172.00
	215.00
355 x 19 mm each	275.00
8652       Stainless steel (SS 304 grade) adjustable friction window stay         510 x 19 mm       each	490.00
8653Stainless steel (SS 304 grade) adjustable friction window stay710 x 19 mmeach	850.00
8654 Masking tape metre	2.50
8655 Autoclaved aerated cement (AAC) blocks cum	2025.00
8656 Gypsum panel 666 X 500 X 100 mm size sqm	480.00
8657 Bonding plaster for Gypsum panel kg	55.00
8659 Water proof ply 12 mm thick sqm	650.00
8660 Aluminium casement window fastener (Anodised AC 15) each	40.00
8661 Aluminium casement window fastener (powder coated ) each	41.00
8662 Aluminium casement window fastener (polyester powder coated) each	40.00
8663 Aluminium round shape handle (anodised AC 15) each	49.00
8664 Aluminium round shape handle (powder coated) each	54.00
8665 Aluminium round shape handle (polyester powder coated) each	59.00
8666 Stainless steel screws 25 mm x4 mm 100 Nos	s 32.00
8667 UV stabilised 2 mm thick plain FRP sheet sqm	465.00
8668 UV stabilised 2 mm thick corrugated FRP sheet sqm	538.00
8669 Mangalore ridge tiles 20 mm thick each	29.00
8670 Mangalore tiles 20 mm thick each	10.50
8671 Precoated galvanised iron profile sheet 0.50 mm TCT sqm	435.00
8672 Precoated galvanised steel plain ridges metre	
8673 Precoated galvanised steel flashings/aprons metre	440.00

Code No.	Description	Unit	Rate ₹
8674	Precoated galvanised steel gutter	metre	455.00
8675	Precoated galvanised steel north light curves	metre	455.00
8676	Precoated galvanised steel barge board	metre	445.00
8677	Precoated galvanised steel crimp curve	sqm	475.00
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	40.00
8682	Epoxy Grout	kg	510.00
8683	Red sand stone gang saw cut 30 mm thick	sqm	460.00
8684	White sand stone gang saw cut 30 mm thick	sqm	480.00
8685	Delineator	each	310.00
8686	Precast C.C. Kerb stone M - 25	cum	4100.00
8687	Thermoplastic paint	kg	63.00
8688	Glass beads	kg	62.00
8689	Interlocking C.C. paver block ( 60 mm thick, M-30)	sqm	325.00
8690	High intensity retro - reflective sheet	sqm	1525.00
8691	Punched tape concertina coil 600 mm dia 10 m openable length (Total length 90 m)	bundle	750.00
8692	RBT reinforced barbed wire	metre	9.00
8693	Turn buckle and strengthening bolt	each set	40.00
8694	Precast pavement slab 450 x 450 x 50 mm (M - 30)	each	60.00
8695	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm	sqm	258.00
8696	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm, PVC coated to outer dia 5 mm	sqm	285.00
8697	Chain link fabric fencing mesh of size 25x25 mm made of G.I. wire of dia 3 mm	sqm	340.00
8698	Stainless steel cramps(weight 260 grams) with nuts, bolts and washer for dry stone cladding	each	90.00
8699	8 mm thick tapered edge calcium silicate board	sqm	368.00
8700	10 mm thick calcium silicate board	sqm	390.00
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	680.00
8702	Coupling/Socket fittings for 15.88 mm outer dia SS pipe	each	57.00
8703	Telescopic drawer channels 300 mm long	set	140.00
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/ cabinets shutter	each	8.00
8705	50 mmX42 mmX2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	140.00
8706	25 mm thick factory made PVC flush door shutter i/c carriage	sqm	2150.00
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage	metre	380.00
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage	sqm	1850.00
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both	·	
0746	side)	sqm	2650.00
8710	Factory made solid PVC door frame 60 x 30 mm i/c carriage	metre	290.00

Code No.	Description	Unit	Rate ₹
8711	28 mm factory made solid PVC panel door shutter i/c carriage	sqm	2250.00
8712	30 mm thick factory made solid PVC profile panelled door single		
	piece extruded profile non decorative finish	sqm	2108.00
8713	Fiber glass reinforced plastic chajja	sqm	3600.00
8714	Magnetic catcher triple strip vertical type	each	20.00
8715	Magnetic catcher double strip horizontal type	each	15.00
8716	100 mm mortice lock with 6 levers for aluminium door	each	330.00
8717	12.5 mm thick Glass fibre reinforced Gypsum board	sqm	170.00
8719	2nd class teak wood lipping / moulded beading or Taj beading of size 18X5 mm	metre	30.00
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	40.00
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	25.00
8722	Nylon sleeves & wooden screws (40 mm)	each	2.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	75.00
8724	12 mm thick marine plywood conforming to IS: 710	sqm	850.00
8725	12 mm thick fire retardant plywood conforming to IS: 5509	sqm	880.00
8726	1.5 mm thick decorative laminated sheet	sqm	490.00
8727	1.0 mm thick decorative laminated sheet	sqm	380.00
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	sqm	2150.00
8731	High polymer modified quickset tile adhesive	per kg	17.00
8732	Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	365.00
8733	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	365.00
8734	P.V.C. Single piece extruded door frame of profile size 50 mm x 47 mm with wall thickness of 5 mm	metre	350.00
8735	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile non decorative finished (Matt finished)	sqm	2100.00
8736	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (wood grain finished)	sqm	2600.00
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	830.00
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermuculite based concrete mix	metre	1000.00
8739	Fire rated door shuttere made with 16 SWG G.I. sheet( 60 minutes) without panel	sqm	5250.00
8740	Fire seal Putty	kg	700.00
8741	Clear fire resistant glass panes 6mm thick (60 minutes)	sqm	21000.00
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/ m2) with ceramic tape of suitable thickness and fire resistant primer		
0740	coating Matrix Minanal Depart	metre	260.00
8743	Matrix Mineral Board	metre	65.00
8744	Panic Bar / latch (Double point)	each	5000.00

Code No.	Description	Unit	Rate ₹
8745	65 mm x 55 mm x 2 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	330.00
8746	37 mm thick Factory made shutter with style,rails and panels of PVC extruded section in white or grey finish i/c carriage		2350.00
8747	75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	350.00
8748	37 mm thick Factory made fusion welded shutter with style,rails and panels of PVC extruded section in wooden finish	sqm	2450.00
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	160.00
8751	Zinc alloy (white powder coated) Touch Lock for uPVC windows	each	110.00
8752	Zinc alloy rollers for uPVC windows	each	50.00
8753	Zinc alloy rollers for uPVC door	each	85.00
8754	Zinc alloy (white powder coated) casement lock for uPVC windows	each	100.00
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	230.00
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	290.00
8757	Stainless steel friction hinge of size 300 mm x 19 x 1.9 mm for uPVC windows	each	370.00
8758	Stainless steel friction hinge of size 350 mm x 19 x 1.9 mm for uPVC windows	each	420.00
8759	Stainless steel friction hinge of size 400 mm x 19 x 1.9 mm for uPVC windows	each	530.00
8760	uPVC extruded profile casement window Frame (50 mm x 50 mm)	metre	165.00
8761	uPVC extruded profile casement window sash (Style and Rail) (62 mm x 34 mm)	metre	150.00
8762	uPVC extruded profile casement window mullion (intermediate section) (66 mm x 50 mm)	metre	185.00
8763	uPVC extruded profile casement window 'T' profile (one vertical length in between two shutters) (24 mm x 34.5 mm)	metre	50.00
8764	uPVC extruded profile casement window glazing bead (12 mm x 18 mm)	metre	50.00
8765	uPVC extruded profile casement window Frame ( 67 mm x 62 mm)	metre	235.00
8766	uPVC extruded profile casement Window Sash/Mullion ( 67 mm x 75 mm)(Style,rail and intermediate section)	metre	265.00
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm)	metre	85.00
8768	uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm)	metre	245.00
8769	uPVC extruded profile Sliding window Sash (60 mm x 44 mm)	metre	230.00
8770	uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm)	metre	50.00
8771	uPVC extruded profile Sliding Door Sash (80 mm x 44 mm)	metre	290.00
8772	Aluminium Track on bottom rail for uPVC window	metre	25.00
8773	Wool Pine for uPVC window	metre	18.00
8774	Aluminium Grill	kg	250.00
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	50.00
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	20.00

Code No.	Description	Unit	Rate ₹
8778	Toughened glass 12 mm thickness	sqm	1900.00
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	144.00
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	254.00
8781	SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia	metre	330.00
8782	SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia	metre	468.00
8783	SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia	metre	582.00
8784	8 mm thick Calcium silicate perforated tiles of size 595 x595 mm	sqm	688.00
8786	Coupling/Socket fittings for 22.22 mm outer dia SS pipe	each	88.00
8787	Coupling/Socket fittings for 28.58 mm outer dia SS pipe	each	108.00
8788	Coupling/Socket fittings for 34.00 mm outer dia SS pipe	each	231.00
8789	Coupling/Socket fittings for 42.70 mm outer dia SS pipe	each	330.00
8790	Coupling/Socket fittings for 48.60 mm outer dia SS pipe	each	446.00
8791	Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe	each	103.00
8792	Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe	each	141.00
8793	Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe	each	145.00
8795	Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe	each	237.00
8796	Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe	each	237.00
8797	Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe	each	359.00
8798	Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe	each	362.00
8799	Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe	each	362.00
8800	Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe	each	387.00
8801	Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe	each	468.00
8802	Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe	each	470.00
8803	Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe	each	474.00
8804	Reducer for 48.60 mm X 34.00 mm outer Dia SS pipe	each	479.00
8805	Reducer for48.60 mm X 42.70 mm outer Dia SS pipe	each	522.00
8806	Slip Coupling / Socket 15.88 mm outer dia SS pipe	each	113.00
8807	Slip Coupling / Socket 22.22 mm outer dia SS pipe	each	184.00
8808	Slip Coupling / Socket 28.58 mm outer dia SS pipe	each	236.00
8809	Slip Coupling / Socket 34.00 mm outer dia SS pipe	each	349.00
8810	Slip Coupling / Socket 42.70 mm outer dia SS pipe	each	490.00
8811	Slip Coupling / Socket 48.60 mm outer dia SS pipe	each	609.00
8812	Elbow 90 <sup>0</sup> for 15.88 mm outer dia SS pipe	each	86.00
8813	Elbow 90 <sup>0</sup> for 22.22 mm outer dia SS pipe	each	153.00
8814	Elbow 90 <sup>0</sup> for 28.58 mm outer dia SS pipe	each	211.00
8815	Elbow 90 <sup>0</sup> for 34.00 mm outer dia SS pipe	each	429.00
8816	Elbow 90 <sup>0</sup> for 42.70 mm outer dia SS pipe	each	657.00
8817	Elbow 90 <sup>0</sup> for 48.60 mm outer dia SS pipe	each	808.00

Code No.	Description	Unit	Rate ₹
8818	Reducing Elbow 90 <sup>0</sup> for 22.22 mm X 15.88 mm outer dia SS pipe	each	148.00
8819	Reducing Elbow 90 <sup>0</sup> for 28.58 mm X 15.88 mm outer dia SS pipe	each	216.00
8820	Reducing Elbow 90 <sup>0</sup> for 28.58 mm X 22.22 mm outer dia SS pipe	each	221.00
8821	Reducing Elbow 90 <sup>0</sup> for 34.00 mm X 22.22 mm outer dia SS pipe	each	321.00
8822	Reducing Elbow 90 <sup>0</sup> for 34.00 mm X 28.58 mm outer dia SS pipe	each	396.00
8823	Reducing Elbow 90 <sup>0</sup> for 42.70 mm X 34.00 mm outer dia SS pipe	each	698.00
8824	Equal Tee for 15.88 mm outer dia SS pipe	each	159.00
8825	Equal Tee for 22.22 mm outer dia SS pipe	each	231.00
8826	Equal Tee for 28.58 mm outer dia SS pipe	each	296.00
8827	Equal Tee for 34.00 mm outer dia SS pipe	each	617.00
8828	Equal Tee for 42.70 mm outer dia SS pipe	each	864.00
8829	Equal Tee for 48.60 mm outer dia SS pipe	each	1028.00
8830	Reducing Tee for 22.22 mm X 15.88 mm outer dia SS pipe	each	225.00
8831	Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe	each	280.00
8832	Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe	each	291.00
8833	Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe	each	548.00
8834	Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe	each	558.00
8835	Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe	each	564.00
8836	Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe	each	819.00
8837	Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe	each	821.00
8838	Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe	each	822.00
8839	Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe	each	830.00
8840	Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe	each	894.00
8841	Reducing Tee for 48.60 mm X 22.22 mm outer dia SS pipe	each	913.00
8842	Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe	each	920.00
8843	Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe	each	958.00
8844	Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe	each	993.00
8845	Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	286.00
8846	Male thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	344.00
8847	Male thread Tee for 22.22 mm outer dia $$ X 20 mm nominal dia threaded	each	368.00
8848	Male thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	414.00
8849	Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	432.00
8850	Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	483.00
8851	Male thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	602.00
8852	Male thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	651.00
8853	Male thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	777.00

Code No.	Description	Unit	Rate ₹
8854	Male thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	981.00
8855	Male thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	919.00
8856	Male thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	941.00
8857	Male thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	1024.00
8858	Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1137.00
8859	Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1381.00
8860	Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	1000.00
8861	Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	1030.00
8862	Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	1074.00
8863	Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	1290.00
8864	Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1431.00
8865	Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1749.00
8866	Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	292.00
8867	Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	344.00
8868	Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	356.00
8869	Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	445.00
8870	Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	455.00
8871	Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	498.00
8872	Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	668.00
8873	Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	679.00
8874	Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	766.00
8875	Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	910.00
8876	Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	894.00
8877	Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	910.00
8878	Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	1022.00
		Caul	1022.00

Code No.	Description	Unit	Rate ₹
8879	Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1067.00
8880	Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1162.00
8881	Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	1065.00
8882	Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	1076.00
8883	Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	1115.00
8884	Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	1184.00
8885	Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1233.00
8886	Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1366.00
8887	Female threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	190.00
8888	Female threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	230.00
8889	Female threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	237.00
8890	Female threaded Connector/Adapter for 28.58 mm outer dia X 15 mm nominal threaded	each	277.00
8891	Female threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	286.00
8892	Female threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	337.00
8893	Female threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	409.00
8894	Female threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	538.00
8895	Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	576.00
8896	Female threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	681.00
8897	Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	838.00
8898	Female threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	965.00
8899	Male threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	193.00
8900	Male threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	227.00
8901	Male threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	248.00
8902	Male threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	313.00
8903	Male threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	320.00
			220.00

Code No.	Description	Unit	Rate ₹
8904	Male threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	461.00
8905	Male threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	565.00
8906	Male threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	649.00
8907	Male threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	726.00
8908	Male threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	840.00
8909	Male threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	1138.00
8910	Valve Connector for 15.88 mm outer dia X 15 mm nominal dia threaded	each	234.00
8911	Valve Connector for 22.22 mm outer dia X 15 mm nominal dia threaded	each	276.00
8912	Valve Connector for 22.22 mm outer dia X 20 mm nominal dia threaded	each	295.00
8913	Valve Connector for 28.58 mm outer dia X 25 mm nominal dia threaded	each	424.00
8914	Valve Connector for 34.00 mm outer dia X 32 mm nominal dia threaded	each	629.00
8915	Valve Connector for 42.70 mm outer dia X 40 mm nominal dia threaded	each	875.00
8916	Valve Connector for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1176.00
8917	Female Threaded Elbow 90 <sup>0</sup> for 15.88 mm outer dia X 15 mm nominal dia threaded	each	205.00
8918	Female Threaded Elbow 90 <sup>0</sup> for 22.22 mm outer dia X 15 mm nominal dia threaded	each	275.00
8919	Female Threaded Elbow 90 <sup>0</sup> for 22.22 mm outer dia X 20 mm nominal dia threaded	each	284.00
8920	Female Threaded Elbow 90 <sup>0</sup> for 28.58 mm outer dia X 25 mm nominal dia threaded	each	421.00
8921	Female Threaded Elbow 90 <sup>0</sup> for 34.00 mm outer dia X 32 mm nominal dia threaded	each	733.00
8922	Female Threaded Elbow 90 <sup>0</sup> for 42.70 mm outer dia X 32 mm nominal dia threaded	each	920.00
8923	Female Threaded Elbow 90 <sup>0</sup> for 42.70 mm outer dia X40 mm nominal dia threaded	each	995.00
8924	Female Threaded Elbow 90 <sup>0</sup> for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1103.00
8925	Female Threaded Elbow 90 <sup>0</sup> for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1286.00
8926	Male Threaded Elbow 90 <sup>0</sup> for 15.88 mm outer dia X 15 mm nominal dia threaded	each	216.00
8927	Male Threaded Elbow 90 <sup>0</sup> for 22.22 mm outer dia X 15 mm nominal		273.00

Code No.	Description	Unit	Rate ₹
8928	Male Threaded Elbow 90 <sup>0</sup> for 22.22 mm outer dia X 20 mm nominal dia threaded	each	288.00
8929	Male Threaded Elbow 90 <sup>0</sup> for 28.58 mm outer dia X 25 mm nominal dia threaded	each	377.00
8930	MaleThreaded Elbow 90 <sup>0</sup> for 34.00 mm outer dia X 25 mm nominal dia threaded	each	605.00
8931	Male Threaded Elbow 90 <sup>0</sup> for 34.00 mm outer dia X 32 mm nominal dia threaded	each	736.00
8932	Male Threaded Elbow 90 <sup>0</sup> for 42.70 mm outer dia X 32 mm nominal dia threaded	each	934.00
8933	Male Threaded Elbow 90 <sup>0</sup> for 42.70 mm outer dia X40 mm nominal dia threaded	each	1060.00
8934	Male Threaded Elbow 90 <sup>0</sup> for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1190.00
8935	Male Threaded Elbow 90 <sup>0</sup> for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1449.00
8936	Cap for 15.88 mm outer dia pipe	each	45.00
8937	Cap for 22.22 mm outer dia pipe	each	64.00
8938	Cap for 28.58 mm outer dia pipe	each	84.00
8939	Cap for 34.00 mm outer dia pipe	each	173.00
8940	Cap for 42.70 mm outer dia pipe	each	253.00
8941	Cap for 48.60 mm outer dia pipe	each	330.00
8942	Pipe Bridge for 15.88 mm outer dia pipe	each	214.00
8943	Pipe Bridge for 15.88 mm outer dia pipe	each	271.00
8944	Pipe Bridge for 28.58 mm outer dia pipe	each	407.00
8945	4 Point facade glass bracket	Nos	3318.00
8946	2 Point facade glass bracket	Nos	1659.00
8947	1 Point facade glass bracket	Nos	1404.00
8948	Flate head bolt	Nos	651.00
8949	400 fin plate at top	pair	5931.00
8953	Micro Silica	kg	32.00
8954	Stop end tubes for diaphragmwall 600 mm dia.	sqm	4.50
8955	Driving end tubes for diaphragm wall 600 mm dia.	sqm	72.00
9999	Sundries	L.S.	1.70

## **BASIC RATES**

## **0.4 CARRIAGE CODES**

## (Carriage by Mechanical Transport including loading, Unloading and stacking)

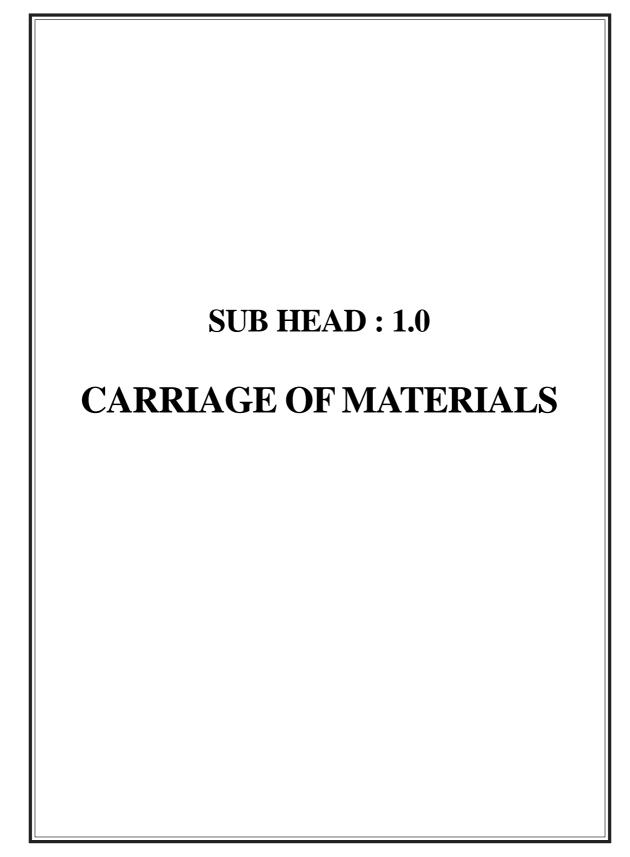
Note: - These rates are exclusive of contractor's profit and overhead charges.

Code No.	Description	Unit	Rate ₹
2200	Steam coal	tonne	121.88
2201	Bricks	1000 Nos	284.39
2202	Stone aggregate below 40 mm nominal size	cum	106.64
2203	Coarse sand	cum	106.64
2204	Timber	cum	121.88
2205	Steel	tonne	94.80
2206	Stone aggregate 40 mm nominal size and above	cum	115.92
2207	Brick tiles	1000 Nos	170.63
2208	Lime	cum	106.64
2209	Cement	tonne	94.80
2211	Tar / Bitumen	tonne	106.64
2215	Soling stone & masonry stone	cum	125.47
2216	Stone blocks white & red sand stone & kota stone slab	tonne	94.80
2224	S.W. pipes 100 mm dia	100 metre	142.19
2225	S.W. pipes 150 mm dia	100 metre	284.39
2226	S.W. pipes 200 mm dia	100 metre	473.98
2228	S.W. pipes 250 mm dia	100 metre	812.54
2229	S.W. pipes 300 mm dia	100 metre	1015.68
2241	Good earth	cum	133.30
2242	Dump manure	cum	115.92
2260	Brick aggregate	cum	115.92
2261	Fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	106.64
2262	Flyash	cum	106.64
2264	Rubbish	cum	106.64
2265	Moorum	cum	106.64
2266	Surkhi	cum	106.64
2267	Stone dust	cum	106.64
2268	Marble dust and/or marble chips	cum	106.64
2271	G.I. pipes below 100 mm dia	tonne	94.80
2272	Stainless Steel pipes below 100 mm dia	tonne	94.80
2273	A.C.sheet and accessories	tonne	94.80

BASIC RATES - 0.4 CARRIAGE CODES

Code No.	Description	Unit	Rate ₹
2275	R.C.C. pipes 100 mm dia	100 metre	233.10
2281	R.C.C. pipes 150 mm dia	100 metre	388.51
2287	R.C.C. pipes 250 mm dia	100 metre	898.07
2290	R.C.C. pipes 300 mm dia	100 metre	1110.03
2299	R.C.C. pipes 450 & 500 mm dia	100 metre	2590.06
2302	G.I.sheet and accessories	tonne	94.80
2303	R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	3885.10
2308	Plaster of paris	tonne	94.80
2309	Cast Iron fittings	tonne	94.80
2311	Red bajri	cum	106.64
2314	Barbed wire	tonne	94.80
2317	Sludge	cum	115.92
2319	Spun iron S & S pipes 100 mm dia	100 metre	233.10
2320	Spun iron S & S pipes 125 mm dia	100 metre	311.37
2321	Spun iron S & S pipes 150 mm dia	100 metre	388.51
2322	Spun iron S & S pipes 200 mm dia	100 metre	631.97
2323	Spun iron S & S pipes 250 mm dia	100 metre	898.07
2324	Spun iron S & S pipes 300 mm. dia	100 metre	1110.03
2325	Spun iron S & S pipes 350 mm dia	100 metre	1554.03
2326	Spun iron S & S pipes 400 mm dia	100 metre	2119.14
2327	Spun iron S & S pipes 450 mm dia	100 metre	2590.06
2328	Spun iron S & S pipes 500 mm dia	100 metre	2590.06
2329	Spun iron S & S pipes 600mm dia	100 metre	3885.10
2330	C.I. pipes 500 mm dia	100 metre	2590.06
2331	R.C.C. pipes 900 mm dia	100 metre	5827.64
2332	R.C.C. pipes 1000 mm dia	100 metre	7770.19
2333	R. C. C. pipes 1100 mm dia	100 metre	7770.19
2334	R.C.C. pipes 1200 mm dia	100 metre	7770.19
2335	Jamuna sand	cum	106.64
2336	R.C.C. pipe above 1200 mm dia and upto 1800 mm dia	100 metre	7339.87
2341	Pig lead	tonne	94.80
2342	Solvent / Diesel.	quintal	10.66
2343	Ductile Iron pipes (k7) 100 mm dia	100 metre	233.10
2344	Cast iron pipes 150 mm dia	100 metre	388.51
2345	Cast iron ptpes 200 mm dia	100 metre	631.97

Code No.	Description	Unit	Rate ₹
2346	Cast iron pipes 250 mm dia	100 metre	898.07
2347	Cast iron pipes 300 mm dia	100 metre	1110.03
2348	Cast iron pipes 350 mm dia	100 metre	1554.03
2349	Cast iron pipes 400 mm dia	100 metre	2119.14
2350	Cast iron pipes 450 mm dia	100 metre	2590.06
2351	Cast iron pipes 500 mm dia	100 metre	2590.06
2352	Cast iron pipes 600 mm dia	100 metre	3885.10
2353	Cast iron pipes 700 mm dia	100 metre	3885.10
2355	Cast iron pipes 800 mm dia	100 metre	3885.10
2356	Cast iron pipes 900 mm dia	100 metre	5827.64
2357	Cast iron pipes 1000 mm dia	100 metre	7770.19



Code No.	Description	Unit	Rate ₹
0005	Hire charges of Diesel Truck - 9 tonne	day	1700.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0128	Mate	day	328.00
1035	Bolts and nuts above 300 mm in length	quintal	5600.00
5001	Mobil oil	litre	200.00
9999	Sundries	L.S.	1.70

## BASIC RATES (SH: 1.0 CARRIAGE OF MATERIALS)

### **1.0 CARRIAGE OF MATERIALS**

### 1.1 By Mechanical Transport including loading ,unloading and stacking

S.No.	Materials	Unit				Rate ( र	)				Remarks
			1 km	2 km	3 km	4 km	5 km	Beyond 5 km upto 10 km per km	Beyond 10 km upto 20 km per km	Beyond 20 km per addl. km	
1	2	3	4	5	6	7	8	9	10	11	12
1.1.1	Lime, moorum, building rubbish	cum	81.02	91.79	102.45	112.69	122.64	8.88	7.28	5.91	The rates will be ap- plicable to net quan-
1.1.2	Earth	cum	101.27	114.74	128.06	140.86	153.30	11.09	9.10	7.39	tities after deduction of prescribed per-
1.1.3	Manure or sludge	cum	88.06	99.77	111.36	122.49	133.31	9.65	7.91	6.42	centage for voids
1.1.4	Excavated rock	cum	162.04	183.59	204.90	225.38	245.29	17.75	14.55	11.82	mentioned in the
1.1.5	Sand, stone aggregate below 40 mm nominal siz	e cum	81.02	91.79	102.45	112.69	122.64	8.88	7.28	5.91	specification under subhead "Carriage of materials".
1.1.6	Stone aggregate 40 mm nominal size and above	cum	88.06	99.77	111.36	122.49	133.31	9.65	7.91	6.42	
1.1.7	Soling stone	cum	95.32	107.99	120.53	132.58	144.29	10.44	8.56	6.95	
1.1.8	Bricks	1,000 Nos.	216.05	244.78	273.20	300.51	327.05	23.67	19.40	15.76	
1.1.9	Brick Tiles	1,000 Nos.	129.63	146.87	163.92	180.31	196.23	14.20	11.64	9.45	
1.1.10	Cement, stone blocks, G.I C.I., A.C., & C.C. pipes below 100 mm dia and other heavy materials	tonne	72.02	81.59	91.07	100.17	109.02	7.89	6.47	5.25	

### SUB HEAD -1.0 CARRIAGE OF MATERIALS

S.No.	Materials	Unit				Rate ( र	)				Remarks
			1 km	2 km	3 km	4 km	5 km	Beyond 5 km upto 10 km per km	Beyond 10 km upto 20 km per km	Beyond 20 km per addl. km	
	2	3	4	5	6	7	8	9	10	11	12
.1.11	Steel	tonne	72.02	81.59	91.07	100.17	109.02	7.89	6.47	5.25	
.1.12	Timber	cum	92.59	104.91	117.09	128.79	140.16	10.14	8.32	6.75	
.1.13	Tar Bitumen	tonne	81.02	91.79	102.45	112.69	122.64	8.88	7.28	5.91	
.1.14	Solvent	qtl	8.10	9.18	10.24	11.27	12.26	0.89	0.73	0.59	
.1.15	Steam Coal	tonne	92.59	104.91	117.09	128.79	140.16	10.14	8.32	6.75	
.1.16	S.W. pipe										
.1.16.1	100 mm dia	100 m	108.03	122.39	136.60	150.25	163.52	11.83	9.70	7.88	
1.16.2	150 mm dia	100 m	216.05	244.78	273.20	300.51	327.05	23.67	19.40	15.76	
1.16.3	200 mm dia	100 m	360.08	407.97	455.33	500.85	545.08	39.45	32.34	26.26	
1.16.5	250 mm dia	100 m	617.29	699.37	780.57	858.60	934.42	67.62	55.44	45.02	
1.16.6	300 mm dia	100 m	771.61	874.22	975.71	1,073.25	1,168.03	84.53	69.30	56.28	
1.16.7	350 mm dia	100 m	1,080.25	1,223.90	1,366.00	1,502.55	1,635.24	118.34	97.02	78.79	
1.16.8	400 mm dia	100 m	1,543.22	1,748.43	1,951.43	2,146.50	2,336.05	169.05	138.60	112.56	
1.16.9	450 mm dia	100 m	1,964.09	2,225.28	2,483.63	2,731.91	2,973.16	215.16	176.40	143.25	
1.16.10	500 mm dia	100 m	2,160.50	2,447.81	2,732.00	3,005.10	3,270.47	236.68	194.04	157.58	
.1.16.11	600 mm dia	100 m	2,700.63	3,059.76	3,415.00	3,756.37	4,088.09	295.85	242.55	196.97	
1.17	R.C.C. pipe, A.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, C.I. pipes and unreinforces cement pipes										

SUB HEAD -1.0 CARRIAGE OF MATERIALS

S.No.	Materials	Unit				Rate ( र	)				Remarks
			1 km	2 km	3 km	4 km	5 km	Beyond 5 km upto 10 km per km	Beyond 10 km upto 20 km per km	Beyond 20 km per addl. km	
1	2	3	4	5	6	7	8	9	10	11	12
1.1.17.1	100 mm dia	100 m	177.09	200.64	223.93	246.32	268.07	19.40	15.91	12.92	
1.1.17.2	125 mm dia	100 m	236.55	268.01	299.12	329.03	358.08	25.91	21.25	17.25	
1.1.17.3	150 mm dia	100 m	295.15	334.40	373.22	410.53	446.79	32.33	26.51	21.53	
1.1.17.4	200 mm dia	100 m	480.11	543.96	607.11	667.80	726.77	52.59	43.12	35.02	
1.1.17.5	250 mm dia	100 m	682.26	772.99	862.74	948.98	1,032.78	74.74	61.28	49.76	
1.1.17.6	300 mm dia	100 m	843.29	955.43	1,066.35	1,172.95	1,276.53	92.38	75.74	61.51	
1.1.17.7	350 mm dia	100 m	1,180.60	1,337.60	1,492.89	1,642.13	1,787.14	129.33	106.03	86.11	
1.1.17.8	400 mm dia	100 m	1,609.91	1,824.00	2,035.76	2,239.27	2,437.01	176.36	144.59	117.42	
1.1.17.9	450 mm & 500 mm dia	100 m	1,967.67	2,229.33	2,488.16	2,736.88	2,978.57	215.55	176.72	143.51	
1.1.17.10	600, 700, 750 & 800 mm dia	100 m	2,951.51	3,344.00	3,732.24	4,105.32	4,467.86	323.33	265.09	215.27	
1.1.17.11	900 mm dia	100 m	4,427.26	5,016.00	5,598.35	6,157.98	6,701.79	484.99	397.63	322.91	
1.1.17.12	1000, 1100 & 1200 mm dia	100 m	5,903.02	6,688.00	7,464.47	8,210.65	8,935.72	646.66	530.17	430.54	

### **1.0 CARRIAGE OF MATERIALS**

S.No.	S.No. Material		Cost of carriage including loading, unloading & stacking for first 50 metres (₹)	Every addition lead of 50 met or part thereof beyond 1 <sup>st</sup> 50 metre upto 9 such additiona leads (₹)	re
1	2	3	4	5	6
1.2.1	Lime, moorum, building rubbish	cum	74.85	16.30	The rates will be appli- cable to net quantities af-
1.2.2	Earth	cum	93.56	20.37	ter deduction of prescribed percentage for voids men-
1.2.3	Manure or sludge	cum	81.36	17.71	tioned in the specification
1.2.4	Excavated rock	cum	149.70	32.59	under subhead "Carriage of materials".
1.2.5	Sand, stone aggregate below 40 mm nominal size	cum	93.56	20.37	
1.2.6	Stone aggregate 40 mn nominal size and above		101.15	22.02	
1.2.7	Soling stone	cum	110.07	23.97	
1.2.8	Bricks	1000 Nos.	174.65	38.03	
1.2.9	Brick Tiles	1000 Nos.	109.15	23.77	
1.2.10	Steam Coal	tonne	87.32	19.01	
1.2.11	Stone blocks ,G.I., C.I. , Stainless Steel pipes below 100 mm dia and other heavy materiall	tonne	56.81	10.02	
1.2.12	Cement	tonne	54.19	7.95	
1.2.13	Steel	tonne	116.38	17.08	
1.2.14	Timber	cum	74.82	10.98	
1.2.15	Tar, bitumen etc.	tonne	68.31	10.02	
1.2.16	S.W. pipe				The length of S.W. pipes
1.2.16.1	100 mm dia	100 m	136.74	20.06	will be measured exclu- sive of the internal depth
1.2.16.2	150 mm dia	100 m	224.77	32.98	of sockets.
1.2.16.3	200 mm dia	100 m	314.54	46.16	
1.2.16.5	250 mm dia	100 m	523.71	76.85	

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.50 KM

SUB HEAD -1.0 CARRIAGE OF MATERIALS

1.2.16.7       350 mm dia       100 m       1047.42       153.70         1.2.16.8       400 mm dia       100 m       1309.28       192.12         1.2.16.9       450 mm dia       100 m       1587.00       232.88         1.2.16.10       500 mm dia       100 m       1939.67       284.63         1.2.16.11       600 mm dia       100 m       2380.50       349.31         1.2.17       R.C.C. pipes, Steel cylinder, R.C. pipes, C.I. pipes and Unreinforces condument pipes       The length of the flanged of sockete pipes shall be measured overall. The length of sockets         1.2.17.1       100 mm dia       100 m       286.50       33.15         1.2.17.2       125 mm dia       100 m       225.90       33.15         1.2.17.3       150 mm dia       100 m       260.12       38.17         1.2.17.4       200 mm dia       100 m       390.34       57.28         1.2.17.5       250 mm dia       100 m       858.54       125.98         1.2.17.4       400 mm dia       100 m       1428.30       209.59         1.2.17.8       400 mm dia       100 m       1904.40       279.45         1.2.17.9       500 mm dia       100 m       2094.84       307.40         1.2.17.9	1	2	3	4	5	6
1.2.16.8       400 mm dia       100 m       1309.28       192.12         1.2.16.9       450 mm dia       100 m       1587.00       232.88         1.2.16.10       500 mm dia       100 m       1939.67       284.63         1.2.16.11       600 mm dia       100 m       2380.50       349.31         1.2.16.11       600 mm dia       100 m       2380.50       349.31         1.2.17       R.C.C. pipes, Steel cylinder, R.C. pipes, and unreinforces cement pipes       The length of the flanged of socketed pipes shall be measured exclusive of intern all optimes and C.I. pipes, steel cylinders, R.C. pipes, and C.I. pipes shall be measured exclusive of intern all optimes and the pipes shall be measured exclusive of intern all optimes and the pipes shall be measured exclusive of intern all optimes and the pipes shall be measured exclusive of intern all optimes and the pipes shall be measured exclusive of intern all optimes and the pipes shall be measured exclusive of intern all optimes and the pipes shall be measured exclusive of intern all optimes and the pipes and the p	1.2.16.6	300 mm dia	100 m	748.16	109.78	
1.2.16.9       450 mm dia       100 m       1587.00       232.88         1.2.16.10       500 mm dia       100 m       2380.50       349.31         1.2.16.11       600 mm dia       100 m       2380.50       349.31         1.2.17       R.C.C. pipes, Steel cylinder, R.C. pipes, C.I. pip	1.2.16.7	350 mm dia	100 m	1047.42	153.70	
1.2.16.10       500 mm dia       100 m       1939.67       284.63         1.2.16.11       600 mm dia       100 m       2380.50       349.31         1.2.17       R.C.C. pipes, Steel cylinder, R.C. pipes, C.I. pipes, Steel cylinders, R.C. pipes	1.2.16.8	400 mm dia	100 m	1309.28	192.12	
1.2.16.11       600 mm dia       100 m       2380.50       349.31         1.2.17       R.C.C. pipes, Steel cylinder, R.C. pipes, C.I. pipes, Steel cylinders, R.C. Copipes, Steel cylinders, R.C. Dipes, Steel cylinders, R.C. Copipes, Steel cylinders, R.C. Copies, Steel cylinder, R.C. Copies, Steel cylinder, R.C. Copies, Steel cylinder, R.C. Copies, Steel cylinder, Steel cylinder, R.C. Copies, Steel cylinder, R.C. Copies, Steel cylinder, Steel cylinde	1.2.16.9	450 mm dia	100 m	1587.00	232.88	
1.2.17       R.C.C. pipes, Steel cylinder, R.C. pipes, c.I. pi	1.2.16.10	500 mm dia	100 m	1939.67	284.63	
cylinder, R.C. pipes, C.I. pipes, C.I. pipes and unreinforces cement pipes       plain ended concrete R.C.C pipes, Steel cylinders, R.C pipes and C.I. pipes shall bit measured overall. The length of socketed pipes shall bit measured exclusive of inter and depth of sockets         1.2.17.1       100 mm dia       100 m       184.62       27.09         1.2.17.2       125 mm dia       100 m       225.90       33.15       nal depth of sockets         1.2.17.3       150 mm dia       100 m       260.12       38.17       12.17.4       200 mm dia       100 m       390.34       57.28         1.2.17.4       200 mm dia       100 m       858.54       125.98       12.17.7       350 mm dia       100 m       1428.30       209.59         1.2.17.8       400 mm dia       100 m       1904.40       279.45       180.11         1.2.17.9       450 mm & 500 mm dia       100 m       2094.84       307.40         1.2.18       Asbestos cement pipes       The length of asbestos coment pipes       The length of asbestos coment ment pipes shall be measured exclusive of intern depth of sockets.         1.2.18.1       50 mm dia       100 m       31.22       4.58       4.58         1.2.18.2       80 mm dia       100 m       85.85       12.60       18.00	1.2.16.11	600 mm dia	100 m	2380.50	349.31	
1.2.17.1       100 mm dia       100 m       184.62       27.09       measured exclusive of internal depth of sockets         1.2.17.2       125 mm dia       100 m       225.90       33.15       nal depth of sockets         1.2.17.3       150 mm dia       100 m       260.12       38.17       11.2.17.4       200 mm dia       100 m       390.34       57.28         1.2.17.4       200 mm dia       100 m       686.08       100.68       100.68         1.2.17.5       250 mm dia       100 m       858.54       125.98         1.2.17.7       350 mm dia       100 m       1227.45       180.11         1.2.17.8       400 mm dia       100 m       1904.40       279.45         1.2.17.9       450 mm & 500 mm dia       100 m       2094.84       307.40         1.2.18.1       50 mm dia       100 m       31.22       4.58       The length of asbestos coment pipes         sured exclusive of intern depth of sockets.       12.18.2       80 mm dia       100 m       31.22       4.58         1.2.18.1       50 mm dia       100 m       85.85       12.60       12.60	1.2.17	cylinder, R.C. pipes, C.I. pipes, C.I. pipes and unreinforces				The length of the flanged or plain ended concrete R.C.C. pipes, Steel cylinders, R.C. pipes and C.I. pipes shall be measured overall. The length
1.2.17.3       150 mm dia       100 m       260.12       38.17         1.2.17.4       200 mm dia       100 m       390.34       57.28         1.2.17.5       250 mm dia       100 m       686.08       100.68         1.2.17.6       300 mm dia       100 m       858.54       125.98         1.2.17.7       350 mm dia       100 m       1428.30       209.59         1.2.17.8       400 mm dia       100 m       1428.30       209.59         1.2.17.9       450 mm & 500 mm dia       100 m       1904.40       279.45         1.2.17.10       600, 700, 750 & 800 mm dia       100 m       2094.84       307.40         1.2.18       Asbestos cement pipes       The length of asbestos coment pipes shall be met sured exclusive of intern depth of sockets.       sured exclusive of intern depth of sockets.         1.2.18.1       50 mm dia       100 m       31.22       4.58         1.2.18.2       80 mm dia       100 m       85.85       12.60         1.2.18.3       100 mm dia       100 m       122.65       18.00	1.2.17.1	100 mm dia	100 m	184.62	27.09	of socketed pipes shall be measured exclusive of inter-
1.2.17.4200 mm dia100 m390.3457.281.2.17.5250 mm dia100 m686.08100.681.2.17.6300 mm dia100 m858.54125.981.2.17.7350 mm dia100 m1227.45180.111.2.17.8400 mm dia100 m1428.30209.591.2.17.9450 mm & 500 mm dia100 m1904.40279.451.2.17.10 $600, 700, 750 \&$ 800 mm dia100 m2094.84307.401.2.18Asbestos cement pipesThe length of asbestos coment pipes shall be mean sured exclusive of interm depth of sockets.1.2.18.150 mm dia100 m31.224.581.2.18.3100 mm dia100 m122.6518.00	1.2.17.2	125 mm dia	100 m	225.90	33.15	nal depth of sockets
1.2.17.5       250 mm dia       100 m       686.08       100.68         1.2.17.6       300 mm dia       100 m       858.54       125.98         1.2.17.7       350 mm dia       100 m       1227.45       180.11         1.2.17.8       400 mm dia       100 m       1428.30       209.59         1.2.17.9       450 mm & 500 mm dia       100 m       1904.40       279.45         1.2.17.10       600, 700, 750 & 800 mm dia       100 m       2094.84       307.40         1.2.18       Asbestos cement pipes       The length of asbestos coment pipes shall be meand sured exclusive of internidepth of sockets.         1.2.18.1       50 mm dia       100 m       31.22       4.58         1.2.18.2       80 mm dia       100 m       85.85       12.60         1.2.18.3       100 mm dia       100 m       122.65       18.00	1.2.17.3	150 mm dia	100 m	260.12	38.17	
1.2.17.6       300 mm dia       100 m       858.54       125.98         1.2.17.7       350 mm dia       100 m       1227.45       180.11         1.2.17.8       400 mm dia       100 m       1428.30       209.59         1.2.17.9       450 mm & 500 mm dia       100 m       1904.40       279.45         1.2.17.10       600, 700, 750 & 800 mm dia       100 m       2094.84       307.40         1.2.18       Asbestos cement pipes       The length of asbestos coment pipes       The length of asbestos coment sured exclusive of intern depth of sockets.         1.2.18.1       50 mm dia       100 m       31.22       4.58         1.2.18.2       80 mm dia       100 m       85.85       12.60	1.2.17.4	200 mm dia	100 m	390.34	57.28	
1.2.17.7       350 mm dia       100 m       1227.45       180.11         1.2.17.8       400 mm dia       100 m       1428.30       209.59         1.2.17.9       450 mm & som dia       100 m       1904.40       279.45         1.2.17.10       600, 700, 750 & som dia       100 m       2094.84       307.40         1.2.18       Asbestos cement pipes       The length of asbestos coment pipes shall be measured exclusive of interm depth of sockets.         1.2.18.1       50 mm dia       100 m       31.22       4.58         1.2.18.2       80 mm dia       100 m       85.85       12.60         1.2.18.3       100 mm dia       100 m       122.65       18.00	1.2.17.5	250 mm dia	100 m	686.08	100.68	
1.2.17.8       400 mm dia       100 m       1428.30       209.59         1.2.17.9       450 mm & 500 mm dia       100 m       1904.40       279.45         1.2.17.10       600, 700, 750 & 800 mm dia       100 m       2094.84       307.40         1.2.18       Asbestos cement pipes       The length of asbestos coment pipes shall be measured exclusive of intern depth of sockets.         1.2.18.1       50 mm dia       100 m       31.22       4.58         1.2.18.2       80 mm dia       100 m       85.85       12.60	1.2.17.6	300 mm dia	100 m	858.54	125.98	
1.2.17.9       450 mm & 500 mm dia       100 m       1904.40       279.45         1.2.17.10       600, 700, 750 & 800 mm dia       100 m       2094.84       307.40         1.2.18       Asbestos cement pipes       The length of asbestos cament pipes shall be measured exclusive of intern depth of sockets.         1.2.18.1       50 mm dia       100 m       31.22       4.58       Sured exclusive of intern depth of sockets.         1.2.18.2       80 mm dia       100 m       85.85       12.60       12.60	1.2.17.7	350 mm dia	100 m	1227.45	180.11	
500 mm dia       100 m       1904.40       279.45         1.2.17.10       600, 700, 750 & 800 mm dia       100 m       2094.84       307.40         1.2.18       Asbestos cement pipes       The length of asbestos cement sured exclusive of intern depth of sockets.       The length of asbestos cement depth of sockets.         1.2.18.1       50 mm dia       100 m       31.22       4.58       Sured exclusive of intern depth of sockets.         1.2.18.2       80 mm dia       100 m       85.85       12.60         1.2.18.3       100 mm dia       100 m       122.65       18.00	1.2.17.8	400 mm dia	100 m	1428.30	209.59	
800 mm dia100 m2094.84307.401.2.18Asbestos cement pipesThe length of asbestos cament ment pipes shall be mea sured exclusive of intern depth of sockets.1.2.18.150 mm dia100 m31.224.581.2.18.280 mm dia100 m85.8512.601.2.18.3100 mm dia100 m122.6518.00	1.2.17.9		100 m	1904.40	279.45	
pipes       ment pipes shall be meany         1.2.18.1       50 mm dia       100 m       31.22       4.58       sured exclusive of intern depth of sockets.         1.2.18.2       80 mm dia       100 m       85.85       12.60         1.2.18.3       100 mm dia       100 m       122.65       18.00	1.2.17.10		100 m	2094.84	307.40	
1.2.18.1       50 mm dia       100 m       31.22       4.58       depth of sockets.         1.2.18.2       80 mm dia       100 m       85.85       12.60         1.2.18.3       100 mm dia       100 m       122.65       18.00	1.2.18					The length of asbestos ce- ment pipes shall be mea-
1.2.18.2       80 mm dia       100 m       85.85       12.60         1.2.18.3       100 mm dia       100 m       122.65       18.00	1.2.18.1	50 mm dia	100 m	31.22	4.58	
	1.2.18.2	80 mm dia	100 m	85.85	12.60	
1.2.18.4 150 mm dia 100 m 171.71 25.20	1.2.18.3	100 mm dia	100 m	122.65	18.00	
	1.2.18.4	150 mm dia	100 m	171.71	25.20	

S.No.	Description	Unit	Rate ₹	Remarks
1	2	3	4	5
1.3	Loading in or unloading cement from the Railway wagon at siding and carrying the same from or into godowns adjacent to the siding, including stacking the same properly in rows upto any height as per the direction of Engineer-in-charge, sweeping the wagons and screening the swept cement and filling in bags complete.	Tonne	55.90	
1.4	Loading in or unloading from the Railway wagon as per the direction of Engineer-in-charge.			
1.4.1	Steel	Tonne	82.75	The rates will be applicable in all cases whether materials are unloaded or loaded from Railway siding or directly unloaded on or loaded from transport.
1.4.2	G.I.,C.I.,R.C.C or C.C. pipes upto 500 mm dia. And similar heavy materials.	Tonne	49.25	
1.4.3	Heavy materials where each piece made or bundle, crate or case weighs such more than one tonne and R.C.C, C.I. loading and concrete pipes above 500 mm dia.	Tonne	93.05	No deduction shall be from carriage rates for direct unloading or

# **SUB HEAD : 2.0** EARTH WORK

Code No.	Description	Unit	Rate ₹
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	1500.00
0017	Hire and running charges of tipper	day	1700.00
0018	Hire and running charges of loader	day	5000.00
0020	Hydraulic Excavator (3D) with driver and fuel	day	8000.00
0101	Bhisti	day	328.00
0103	Blacksmith 2nd class	day	361.00
0112	Carpenter 2nd class	day	361.00
0113	Chowkidar	day	297.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0124	Mason (brick layer) 2nd class	day	361.00
0128	Mate	day	328.00
0132	Rock Excavator	day	297.00
0133	Rock Breaker	day	297.00
0134	Rock Hole Driller	day	297.00
0135	Stone Chiseller	day	328.00
0302	Safeda ballies 125 mm diameter	metre	42.00
0325	Blasting powder	kilogram	35.00
0771	Kerosene oil	litre	45.00
1197	Second class kail wood in scantling	10 cudm	260.00
1198	Second class kail wood in planks	10 cudm	260.00
1235	Diesel oil	litre	48.63
1980	Fly ash	cum	7.75
2204	Carriage of timber	cum	121.88
2262	Carriage of flyash	cum	106.64
2335	Carriage of Jamuna sand	cum	106.64
2342	Carriage of Solvent / Diesel.	quintal	10.66
6501	Sand zone V (Jamuna)	cum	550.00
7022	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	160.00
9999	Sundries	L.S.	1.70

### BASIC RATES (SH: 2.0 EARTH WORK)

SUB HEAD -2.0 EARTH WORK

Code No.	Description	Unit	Rate ₹
2.1	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 :		
	2.1.1 All kinds of soil	100 sqm	4,553.55
2.2	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 :		
	2.2.1 All kinds of soil	cum	346.00
2.3	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 :		
	2.3.1 All kinds of soil	cum	218.35
2.4	Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.	cum	2.85
2.5	Deduct for not watering the excavated earth for banking	cum	15.25
2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m 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.		
	2.6.1 All kinds of soil	cum	146.50
2.7	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.		
	2.7.1 Ordinary rock	cum	227.80
	2.7.2 Hard rock (requiring blasting)	cum	393.60
	2.7.3 Hard rock (blasting prohibited)	cum	571.90
2.8	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.		
	2.8.1 All kinds of soil.	cum	148.25
2.9	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift		

### 2.0 EARTH WORK

Code No.	Descrip	tion	Unit	Rate ₹
		m, including getting out the excavated soil and disposal of excavated soils as directed, within a lead of 50 m.		
	2.9.1	Ordinary rock	cum	244.90
	2.9.2	Hard rock (requiring blasting)	cum	427.75
	2.9.3	Hard rock (blasting prohibited)	cum	574.15
2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :			
	2.10.1	All kinds of soil		
	2.10.1.1	Pipes, cables etc, not exceeding 80 mm dia.	metre	118.00
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	192.75
	2.10.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	metre	300.90
2.11	depth ex	excavating trenches for pipes, cables etc. in all kinds of soil for ceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding m for depth upto 1.5 metre).	metre	135 %
2.12	for deptl	excavating trenches for pipes, cables, etc, in all kinds of soil h exceeding 3 m in depth, but not exceeding 4.5 m. (Rate is responding basic item for depth upto 1.5 metre.)	metre	348%
2.13	excavati excavate 20 cm in watering	Ing trenches of required width for pipes, cables, etc, including on for sockets, depth upto 1.5 m, including getting out the ed materials, returning the soil as required in layers not exceeding depth, including consolidating each deposited layers by ramming, etc., stacking serviceable material for measurements and disposal viceable material as directed, within a lead of 50 m :		
	2.13.1	Ordinary rock :		
	2.13.1.1	Pipes, cables etc. not exceeding 80 mm dia	metre	167.50
	2.13.1.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	414.75
	2.13.1.3	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	477.30
	2.13.2	Hard rock (requiring blasting)		
	2.13.2.1	Pipes, cables etc. not exceeding 80 mm dia	metre	254.85
	2.13.2.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	631.10
	2.13.2.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	metre	726.15
	2.13.3	Hard rock (blasting prohibited)		
	2.13.3.1	Pipes, cables etc. not exceeding 80 mm dia	metre	324.05
	2.13.3.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	802.35
	2.13.3.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	metre	923.30

Code No.	Descrip	otion	Unit	Rate ₹
2.14	rock ex	r excavating trenches for pipes, cables, etc. in ordinary/hard ceeding 1.5 m in depth but not exceeding 3 m. (Rate is over onding basic item for depth upto 1.5 metre).	metre	105.00%
2.15	rock ex	r excavating trenches for pipes, cables, etc. in ordinary/hard ceeding 3m in depth but not exceeding 4.5 m. (Rate is over onding basic item for depth upto 1.5 metre).	metre	264.00%
2.16	cavities	mbering in trenches including strutting, shoring and packing (wherever required) complete. (Measurements to be taken of area timbered).		
	2.16.1	Depth not exceeding 1.5 m	sqm	107.45
	2.16.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	112.75
	2.16.3	Depth exceeding 3 m but not exceeding 4.5 m	sqm	124.75
2.17	includin	mbering in case of shafts, wells, cesspits, manholes and the like g strutting, shoring and packing cavities (wherever required) etc. te. (Measurements to be taken of the face area timbered).		
	2.17.1	Depth not exceeding 1.5 m	sqm	111.40
	2.17.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	122.80
	2.17.3	Depth exceeding 3 m but not exceeding 4.5 m	sqm	134.85
2.18	cavities	mbering over areas including strutting, shoring and packing (wherever required) etc. complete. (Measurements to be taken ace area timbered) :		
	2.18.1	Depth not exceeding 1.5 m	sqm	95.40
	2.18.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	101.70
	2.18.3	Depth exceeding 3 m but not exceeding 4.5 m	sqm	108.45
2.19	timberir	r planking, strutting and packing materials for cavities (in close ng) if required to be left permanently in position. (Face area of permanently left to be measured).	sqm	1384.85
2.20	Open ti	mbering in trenches including strutting and shoring complete rements to be taken of the face area timbered):	- 1	
	2.20.1	Depth not exceeding 1.5 m	sqm	55.50
	2.20.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	58.85
	2.20.3	Depth exceeding 3 m but not exceeding 4.5 m	sqm	64.35
2.21	like inclu	mbering in case of shafts, wells, cesspits, manholes and the uding strutting and shoring complete (Measurements to be taken ace area timbered):		
	2.21.1	Depth not exceeding 1.5 m	sqm	48.00
	2.21.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	53.30
	2.21.3	Depth exceeding 3 m but not exceeding 4.5 m	sqm	60.30
2.22		mbering over areas including strutting, shoring etc. complete. rements to be taken of the face area timbered):		
	2.22.1	Depth not exceeding 1.5 m	sqm	32.90
	2.22.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	36.60
	2.22.3	Depth exceeding 3 m but not exceeding 4.5 m	sqm	42.50

Code No.	Descrip	tion	Unit	Rate ₹
2.23		r planking and strutting in open timbering if required to be lef ently in position. (Face area of the timber permanently left to be		713.55
2.24		tes for quantities of works, executed :		
<i>L.L</i> 1	2.24.1	In or under water and/or liquid mud, including pumping out water as required	metre depth	20.00%
	2.24.2	In or under foul position, including pumping out water as required	metre depth	25.00%
	respect difficult paymer upto the The dep	<b>r item no. 2.24:-</b> The extra percentage rate is applicable in of each item but limited to quantities of work executed in these conditions. The unit, namely, metre depth, to be considered for it, shall be the depth measured from the sub soil water leve centre of gravity of the quantity executed in difficult conditions oth shall be reckoned correct to 0.1 metre. 0.05 metre or more taken as 0.1 metre and less than 0.05 metre ignored.	e r I	
2.25	sides o consolio	vailable excavated earth (excluding rock) in trenches, plinth f foundations etc. in layers not exceeding 20cm in depth dating each deposited layer by ramming and watering, lead up and lift upto 1.5 m.	,	101.50
2.26		r every additional lift of 1.5 m or part thereof in excavation a excavated or stacked materials.	/	
	2.26.1	All kinds of soil	cum	41.75
	2.26.2	Ordinary or hard rock	cum	74.90
2.27		ng and filling in plinth with Jamuna sand under floors, including g, ramming, consolidating and dressing complete.	cum	843.65
2.28	equalitie	dressing of the ground including removing vegetation and in- es not exceeding 15 cm deep and disposal of rubbish, lead upto nd lift upto 1.5 m.		
	2.28.1	All kinds of soil	100sqm	1,124.60
2.29	Ploughir the sam	ng the existing ground to a depth of 15 cm to 25 cm and watering le.	)	
	2.29.1	All kinds of soil	100sqm	1,139.15
2.30	out the e exceedi by rami	ing holes more than 0.10 cum & upto 0.5 cum including getting excavated soil, then returning the soil as required in layers no ng 20 cm in depth, including consolidating each deposited layer ming, watering etc, disposing of surplus excavated soil, as I within a lead of 50 m and lift upto 1.5 m.	t r	
	2.30.1	All kinds of soil	each	47.15
	2.30.2	Ordinary rock	each	76.15
	2.30.3	Hard rock (requiring blasting)	each	131.00
	2.30.4	Hard rock (blasting prohibited)	each	174.90
2.31	trees ar above g	jungle including uprooting of rank vegetation, grass, brush wood nd saplings of girth upto 30 cm measured at a height of 1m ground level and removal of rubbish upto a distance of 50 m the periphery of the area cleared.	n	579.55
2.32	Clearing	grass and removal of the rubbish upto a distance of 50 m outside ohery of the area cleared.		296.80

Code No.	Descrip	tion	Unit	Rate ₹
2.33	level), in	rees of the girth (measured at a height of 1 m above ground cluding cutting of trunks and branches, removing the roots and of serviceable material and disposal of unserviceable material.		177.85
	2.33.1	Beyond 30 cm girth upto and including 60 cm girth	each	177.85
	2.33.2	Beyond 60 cm girth upto and including 120 cm girth	each	786.95
	2.33.3	Beyond 120 cm girth upto and including 240 cm girth	each	3,638.05
	2.33.4	Above 240 cm girth	each	7,297.40
2.34	Supplyin specified	g chemical emulsion in sealed containers including delivery as d.		
	2.34.1	Chlorpyriphos/Lindane emulsifiable concentrate of 20%	litre	185.95
2.35		and injecting chemical emulsion for POST-CONSTRUCTIONAL nite treatment (excluding the cost of chemical emulsion) :		
	2.35.1	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:		
	2.35.1.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	metre	14.05
	2.35.2	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.:		
	2.35.2.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	metre	20.90
	2.35.3	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 Coarse sand) to match the existing floor :		
	2.35.3.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	sqm	107.85
	2.35.4	Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole :		
	2.35.4.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	metre	16.00
	2.35.5	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 degree at 150 mm centre to centre and sealing the same	metre	187.65
2.36	Deduct f	or disposed soil not levelled and neatly dressed.	cum	30.65
2.37	carriage	nd stacking of Fly ash conforming to IRC- 58 at site, including , loading , unloading & stacking up to any lead (measured ill be reduced by 20% for payment).	cum	132.85
2.38	embank intermed four laye shall be cm or as layer by	ith available fly ash and earth (excluding rock) in trenches or ment in layers (each layer should not exceed 15 cm), with diate layer of compacted earth (Soil density of 98%) after every ers of compacted depth of fly ash, sides & top layer of filling done with earth having total minimum compacted thickness 30 is decided by Engineer -in-charge, including compacting each rolling/ ramming and watering, all complete as per drawing and		
	direction	of Engineer -in - charge.	cum	101.50

# **SUB HEAD : 3.0 MORTARS**

Code No.	Description	Unit	Rate ₹
0101	Bhisti	day	328.00
0114	Beldar	day	297.00
0367	Portland Cement	tonne	5240.00
0368	White Cement	tonne	14000.00
0784	Marble dust/ powder	cum	1000.00
0811	Mud (dry)	cum	60.00
0982	Coarse sand (zone III)	cum	1120.00
0983	Fine sand (zone IV)	cum	650.00
1159	Stone dust	cum	1000.00
1182	Surkhi	cum	700.00
2203	Carriage of coarse sand	cum	106.64
2209	Carriage of cement	tonne	94.80
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	106.64
2268	Carriage of marble dust and/or marble chips	cum	106.64
9999	Sundries	L.S.	1.70

### BASIC RATES (SH : 3.0 MORTAR)

### 3.0 MORTAR

Code No.	Description	Unit	Rate ₹
3.1	Cement mortar 1:1 (1 cement : 1 fine sand)	cum	6,295.20
3.2	Cement mortar 1:2 (1 cement : 2 fine sand).	cum	4,660.90
3.3	Cement mortar 1:3 (1 cement : 3 fine sand).	cum	3,844.80
3.4	Cement mortar 1:4 (1 cement : 4 fine sand).	cum	3,151.25
3.5	Cement mortar 1:5 (1 cement : 5 fine sand).	cum	2,777.85
3.6	Cement mortar 1:6 (1 cement : 6 fine sand).	cum	2,457.75
3.7	Cement mortar 1:2 (1 cement : 2 coarse sand).	cum	5,107.40
3.8	Cement mortar 1:3 (1 cement : 3 coarse sand).	cum	4,347.70
3.9	Cement mortar 1:4 (1 cement : 4 coarse sand).	cum	3,654.15
3.10	Cement mortar 1:5 (1 cement : 5 coarse sand).	cum	3,280.75
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand).	cum	2,960.65
3.12	Cement mortar 1:2 (1 cement : 2 stone dust).	cum	4,993.40
3.13	Cement mortar 1:2 (1 cement : 2 marble dust).	cum	4,993.40
3.14	Cement mortar 1:5 (1 cement : 5 marble dust).	cum	3,152.35
3.15	White cement mortar 1:2 (1 white cement : 2 marble dust).	cum	10,950.20
3.16	White cement mortar 1:3 (1 white cement : 3 marble dust).	cum	8,686.90
3.17	White cement mortar 1:5 (1 white cement : 5 marble dust).	cum	5,867.95
3.18	Mud mortar	cum	366.20
3.19	Mortar in lime , surkhi ( 50% red and 50% light yellow) and marble dust 1:1.5:0.5	cum	2,429.65

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

# SUB HEAD : 4.0

# **CONCRETE WORK**

### **BASIC RATES (SH: 4.0 CONCRETE WORK)**

Code No.	Description	Unit	Rate ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	550.00
0012	Vibrator (Needle type 40 mm)	day	325.00
0029	Carriage of concrete by transit mixer	km/cum	30.00
0101	Bhisti	day	328.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0131	Painter	day	361.00
0155*	Mason (average)	day	377.00
0287	Brick Aggregate (Single size) : 40 mm nominal size	cum	510.00
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	1000.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1200.00
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	1050.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1050.00
0309	Paving bitumen of grade VG-10 of approved quality	tonne	40000.00
0367	Portland Cement	tonne	5240.00
0370	Coal (steam)	quintal	400.00
0771	Kerosene oil	litre	45.00
0982	Coarse sand (zone III)	cum	1120.00
0983	Fine sand (zone IV)	cum	650.00
1213	Water proofing materials	kilogram	32.00
1980	Fly ash	cum	7.75
2202	Carriage of stone aggregate below 40 mm nominal size	cum	106.64
2203	Carriage of coarse sand	cum	106.64
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	115.92
2209	Carriage of cement	tonne	94.80
2211	Carriage of tar / bitumen	tonne	106.64

Code No.	Description	Unit	Rate ₹
2260	Carriage of brick aggregate	cum	115.92
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	106.64
2262	Carriage of flyash	cum	106.64
7319	Wall form panel 1250x500 mm	each	1050.00
7326	Corner angle 45x45x5 mm 1.50 m long	each	300.00
7327	100 mm channel shoulder 2.5 m long	each	1160.00
7328	Double clip ( bridge clip)	each	97.00
7329	Single clip	each	77.00
7330	M.S. tube 40 mm dia	metre	280.00
7331	Wall form panel 1250x450 mm	each	1040.00
7332	Corner angle 45x45x5 mm 2.50 m long	each	340.00
7333	Column clamp 450x1070 mm	each	1220.00
7334	Prop 2 m ( 2-3.5 m)	each	830.00
8732	Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	365.00
9999	Sundries	L.S.	1.70

Code No.	Descrip	otion	Unit	Rate ₹
	CEMEN	IT CONCRETE (CAST -IN- SITU)		
4.1		ng and laying in position cement concrete of specified grade ng the cost of centering and shuttering - All work up to plinth		
	4.1.1	1:1:2 (1 Cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	6,631.20
	4.1.2	1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)	cum	5,317.75
	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	4,921.70
	4.1.4	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	cum	4,763.45
	4.1.5	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	4,408.55
	4.1.6	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	4,230.50
	4.1.7	1:3:6 (1 Cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)	cum	3,973.90
	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	3,920.65
	4.1.9	1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	cum	3,664.10
	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	cum	3,672.80
	4.1.11	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)	cum	3,407.25
	4.1.12	1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand : 9 graded stone aggregate 40 mm nominal size)	cum	3,807.65
	4.1.13	1:2½:4:11 (1 ordinary portland cement : 2½ fly ash : 4 coarse sand : 11 graded stone aggregate 40 mm nominal size)	cum	3,517.05
4.2	walls (a abutme parapet sunken	ng and laying cement concrete in retaining walls, return walls, any thickness) including attached pilasters, columns, piers, ants, pillars, posts, struts, buttresses, string or lacing courses, its, coping, bed blocks, anchor blocks, plain window sills, fillets, floor,etc., up to floor five level, excluding the cost of centering, ng and finishing :		
	4.2.1	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	7,531.60
	4.2.2	1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	6,218.20
	4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	5,822.15

### 4.0 CONCRETE WORK

Code No.	Descri	ption	Unit	Rate ₹
	4.2.4	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	cum	5,663.85
	4.2.5	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	5,309.00
	4.2.6	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	5,130.90
	4.2.7	1:3:6 (1 cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)	cum	4,874.35
	4.2.8	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	cum	4,567.90
4.3		ng and shuttering including strutting, propping etc. and removal work for :		
	4.3.1	Foundations, footings, bases for columns	sqm	186.40
	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	sqm	334.50
	4.3.3	Columns, piers, abutments, pillars, posts and struts	sqm	423.00
4.4	Providi	ng and laying cement concrete in kerbs, steps and the like at or bund level excluding the cost of centering, shuttering and finishing.	Sqiii	423.00
	4.4.1	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	4,921.70
	4.4.2	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	4,408.55
	CEMEN	IT CONCRETE (PRE-CAST)		
4.5	or lacir sills, sh setting	ng and fixing up to floor five level precast cement concrete string og courses, copings, bed plates, anchor blocks, plain window helves, louvers, steps, stair cases, etc., including hoisting and in position with cement mortar 1:3 (1 Cement : 3 coarse sand), required centering complete.		
	4.5.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	6,064.80
	4.5.2	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	5,668.70
	4.5.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	5,155.60
4.6	kerbs, e cement	ng and fixing at or near ground level precast cement concrete in edgings etc. as per approved pattern and setting in position with t mortar 1:3 (1 Cement : 3 coarse sand), including the cost of d centering, shuttering complete.		
	4.6.1	1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	cum	5,160.60
4.7		ng and fixing up to floor five level precast cement concrete solid ncluding hoisting and setting in position with cement mortar 1:3		

Code No.	Descrip	otion	Unit	Rate ₹
	(1 cem comple	ent : 3 coarse sand), cost of required centering, shuttering te :		
	4.7.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	8,406.55
	4.7.2	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	7,893.40
4.8	block, ir	ng and fixing up to floor five level precast cement concrete hollow ncluding hoisting and setting in position with cement mortar 1:3 ent : 3 coarse sand), cost of required centering, shuttering te.		
	4.8.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	6,476.40
	4.8.2	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	6,240.40
4.9	require mm lon with 150 in ceme aggrega 250x25	ting and placing in position 125 mm dia Bollards 600 mm high of d shape, including providing M.S. Pipe Sleeve 50 mm dia 300 ig in the Bollard and M.S. Pipes 40 mm dia and 450 mm long 0x150x6mm M.S. plate welded at bottom and embedded 150 mm ent concrete 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone ate 20 mm nominal size), including necessary excavation of size i0x450 mm deep for the same in bitumen/concrete pavement at ed spacing.	each	519.30
	•	PROOF COURSE		
4.10		g and laying damp-proof course 40 mm thick with cement concrete cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm I size).	sqm	220.60
4.11		g and laying damp-proof course 50 mm thick with cement concrete 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm Il size).	sqm	283.80
4.12	Extra fo	r providing and mixing water proofing material in cement concrete doses by weight of cement as per manufacturer's specification.		44.36
4.13	approve after cle	g a coat of residual petroleum bitumen of grade of VG-10 of ed quality using 1.7 kg per square metre on damp proof course eaning the surface with brushes and finally with a piece of cloth soaked in kerosene oil.	sqm	108.75
	MISCEL	LANEOUS		
4.14		or concrete work in superstructure above floor V level for each ors or part thereof.	cum	517.45
4.15		or laying concrete in or under water and/or liquid mud including pumping or bailing out water and removing slush etc. complete.	cum per meter depth	385.60
	the dep of conc execute reckone	<b>tr item No. 4.15 :-</b> The quantity will be calculated by multiplying th measured from the sub-soil water level up to centre of gravity rete under sub-soil water level with quantity of concrete in cum ed under sub-soil water. The depth of centre of gravity shall be ed correct to 0.1m. 0.05m or more shall be taken as 0.1m and an 0.05m ignored.		

Code No.	Description	Unit	Rate ₹
4.16	Extra for laying concrete in or under foul positions.	cum	155.50
4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 ce 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) 75mm thick bed of dry brick ballast 40 mm nominal size, well rar and consolidated and grouted with fine sand, including finishing th smooth.	) over nmed	378.95
4.18	Extra for addition of synthetic Polyester triangular fibre of length 1 effective diameter 10-40 microns and specific gravity of 1.34 to 1 cement concrete/RCC/Flooring/water retaining structures by u 125gms of synthetic Polyester triangular fibre for 50 Kg cement us as per directions of Engineer-in-Charge.	.40 in Ising Per Bag of	53.00
4.19	Providing and laying in position ready mixed plain cement con- using fly ash and cement content as per approved design mix- manufactured in fully automatic batching plant and transported to of work in transit mixer for all leads, having continuous agitated r manufactured as per mix design of specified grade for plain ce concrete work, including pumping of R.M.C. from transit mixer to a laying and curing, excluding the cost of centering, shuttering finishing, including cost of curing, admixtures in recomme proportions as per IS : 9103 to accelerate/ retard setting of con- improve workability without impairing strength and durability a direction of the Engineer - in - charge.	x and to site mixer, ement site of g and ended crete,	
	Note : (1) Excess/less cement used than specified in this ite payable/ recoverable separately.	em is	
	(2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used a replacement of OPC as per IS : 456. Uniform blending with cemer be ensured in accordance with clauses 5.2 and 5.2.1 of IS: 456 -20 the items of BMC and RMC.	nt is to	
	4.19.1 All works upto plinth level :		
	4.19.1.1 M-15 grade plain cement concrete (cement content cons @ 240 kg/cum)	idered cum	5,390.40
	4.19.1.2 M-10 grade plain cement concrete (cement content cons @ 220 kg/cum)	idered cum	5,262.10
	4.19.2 All works above plinth and upto floor V level :		
	4.19.2.1 M-15 grade plain cement concrete (cement content cons @ 240 kg. /cum)	idered cum	5,864.70
	4.19.2.2 M-10 grade plain cement concrete (cement content cons @ 220 kg/cum)	idered cum	5,736.40
	Note :- The above item shall be used judiciously where specified of of Fly Ash is available for mixing in concrete. Also, the guidelines is by CDO, CPWD, vide circular no. CDO/SE(RR)/Fly Ash (Main)/102 9th April 2009 shall be followed in such cases.	ssued	
4.20	Providing and laying in position ready mixed plain cement con- with cement content as per approved design mix and manufactu fully automatic batching plant and transported to site of work in t	red in	

Code No.	Descrip	tion	Unit	Rate ₹
	per mix including curing, e cost of o 9103 to a	r all leads, having continuous agitated mixer, manufactured as design of specified grade for plain cement concrete work, g pumping of R.M.C. from transit mixer to site of laying and xcluding the cost of centering, shuttering and finishing, including curing, admixtures in recommended proportions as per IS : accelerate/ retard setting of concrete, improve workability without g strength and durability as per direction of the Engineer - in -		
	,	Excess/less cement used than specified in this item is payable/ able separately.		
	4.20.1	All works upto plinth level :		
	4.20.1.1	M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)	cum	5,505.00
	4.20.1.2	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)	cum	5,850.95
	4.20.2	All works above plinth and upto floor V level :		
	4.20.2.1	M-15 grade plain cement concrete. (cement content considered @ 240 kg. /cum)	cum	5,979.30
	4.20.2.2	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)	cum	5,850.95

# **SUB HEAD : 5.0**

# REINFORCED CEMENT CONCRETE

## BASIC RATES (SH: 5.0 REINFORCED CEMENT CONCRETE)

Code No.	Description	Unit	Rate ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
0004	Production cost of concrete by batch mix plant	cum	350.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	150.00
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	550.00
0012	Vibrator (Needle type 40 mm)	day	325.00
0025	Hire and running charges of light crane	day	2200.00
0029	Carriage of concrete by transit mixer	km/cum	30.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	800.00
0066	Batching and Mixing Plant @ 75 cum per hour	hour	2500.00
0070	Generator 100 KVA/125 KVA	hour	700.00
0082	Excavation of Diaphragm wall by Mechanical Grab	sqm	1500.00
0101	Bhisti	day	328.00
0102	Blacksmith 1 st class	day	393.00
0103	Blacksmith 2nd class	day	361.00
0112	Carpenter 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0126	Mason (for ornamental stone work) 1 st class	day	393.00
0128	Mate	day	328.00
0155*	Mason (average)	day	377.00
0236	Non - Asbestos multi purpose fibre (high impact poly propelene reinforced) cement board 6 mm thick	sqm	200.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1200.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1050.00
0302	Safeda ballies 125 mm diameter	metre	42.00
0309	Paving bitumen of grade VG-10 of approved quality	tonne	40000.00
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	37000.00
0314	Bitumen hot sealing compound : grade A	kilogram	26.00
0316	Bitumen solution primer of approved quality	litre	45.00
0339	Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	350.00
0367	Portland Cement	tonne	5240.00
0370	Coal (steam)	quintal	400.00

SUB HEAD -5.0 REINFORCED CEMENT CONCRETE

Code No.	Description	Unit	Rate ₹
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 Nos	60.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	35.00
0768	Cement Concrete Jali 50 mm thick	sqm	210.00
0769	Cement Concrete Jali 40 mm thick	sqm	180.00
0770	Cement Concrete Jali 25 mm thick	sqm	150.00
0982	Coarse sand (zone III)	cum	1120.00
0983	Fine sand (zone IV)	cum	650.00
0992	Galvanised steel plain sheets	quintal	5200.00
1004	Average rate of Mild steel round bars for reinforcement	quintal	4500.00
1005	Twisted steel/ deformed bars	quintal	4800.00
1015	Mild steel expanded metal 20x60 mm strands	sqm	290.00
1021	Hard drawn steel wire fabric	sqm	430.00
1034	Bolts and nuts up to 300 mm in length	quintal	5600.00
1197	Second class kail wood in scantling	10 cudm	260.00
1198	Second class kail wood in planks	10 cudm	260.00
1224	Hard drawn steel wire	quintal	5500.00
1225	Mild steel flat strap fitting	quintal	4450.00
2200	Carriage of steam coal	tonne	121.88
2202	Carriage of stone aggregate below 40 mm nominal size	cum	106.64
2203	Carriage of coarse sand	cum	106.64
2204	Carriage of timber	cum	121.88
2205	Carriage of steel	tonne	94.80
2209	Carriage of cement	tonne	94.80
2211	Carriage of tar / bitumen	tonne	106.64
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	106.64
2273	Carriage of A.C.sheet and accessories	tonne	94.80
2302	Carriage of G.I.sheet and accessories	tonne	94.80
2391	Strips-Aluminium fluted 3.15 mm thick and 150 mm wide	metre	228.00
2392	Strips Aluminium fluted 3.15 mm thick and 200 mm wide	metre	323.00
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	275.00
2394	Coupler 16 mm dia	each	67.00
2395	Coupler 20 mm dia	each	88.00
2396	Coupler 25 mm dia	each	130.00
2397	Coupler 28 mm dia	each	192.00
2398	Coupler 32 mm dia	each	231.00
2399	Complete Roof Joint of 100 mm	metre	4500.00
2400	Complete Roof Joint of 150 mm	metre	4800.00

SUB HEAD -5.0 REINFORCED CEMENT CONCRETE

Code No.	Description	Unit	Rate ₹
2401	Complete Roof Joint of 200 mm	metre	5000.00
2402	Epoxy adhesive	kg	150.00
2403	Floor Joint of 100 mm	metre	4500.00
2404	Floor Joint of 150 mm	metre	5000.00
2405	Floor Joint of 200 mm	metre	5400.00
2409	Wall Joint of 100 mm	metre	3400.00
2410	Wall Joint of 150 mm	metre	3700.00
2411	Wall Joint of 200 mm	metre	4000.00
2447	Hollock ballies 125 mm diameter	metre	35.00
7178	Chemical ASTMC-type I	kg	110.00
7183	Bentonite	tonne	3100.00
7281	Chemical ASTMC-type II	kg	170.00
7318	Plasticizer / super plasticizer	kilogram	38.00
7319	Wall form panel 1250x500 mm	each	1050.00
7320	Tie bolt 12 mm dia 100 mm length	each	50.00
7321	Tie bolt 12 mm dia 150 mm length	each	60.00
7322	Tie bolt 20 mm dia 150 mm length	each	75.00
7323	Tie bolt 20 mm dia 225 mm length	each	90.00
7324	Spring coil 12 mm	each	16.00
7325	Plastic cone 12 mm dia	each	18.00
7326	Corner angle 45x45x5 mm 1.50 m long	each	300.00
7327	100 mm channel shoulder 2.5 m long	each	1160.00
7328	Double clip ( bridge clip)	each	97.00
7329	Single clip	each	77.00
7330	M.S. tube 40 mm dia	metre	280.00
7331	Wall form panel 1250x450 mm	each	1040.00
7332	Corner angle 45x45x5 mm 2.50 m long	each	340.00
7333	Column clamp 450x1070 mm	each	1220.00
7334	Prop 2 m ( 2-3.5 m)	each	830.00
7342	Adjustable span ESO+SI (2.35-3.40)	each	1900.00
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	1200.00
7344	Beam clamp 300-380 mm (450-1070 mm)	each set	422.00
7345	Prop 4 m	each	1170.00
7346	Double coupler	each	55.00
8659	Water proof ply 12 mm thick	sqm	650.00
8953	Micro Silica	kg	32.00
8954	Stop end tubes for diaphragmwall 600 mm dia.	sqm	4.50
8955	Driving end tubes for diaphragm wall 600 mm dia.	sqm	72.00
9999	Sundries	L.S.	1.70

SUB HEAD -5.0 REINFORCED CEMENT CONCRETE

95

### Code Description Unit Rate No. ₹ **CAST-IN-SITU** 5.1 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 5.1.1 mm nominal size) 6,865.65 cum 5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) 5,552.25 cum 5.1.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 5.156.20 cum 5.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 5.2.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size) 7,632.65 cum 5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) cum 6,319.20 5.2.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cum 5,923.15 5.3 Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). 6.107.15 cum 5.4 Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). cum 5.731.20 5.5 Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). cum 6,350.40 5.6 Reinforced cement concrete work in chimneys, shafts, up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). cum 6,012.85 5.7 Reinforced cement concrete work in well-steining, excluding the cost of

### 5.0 REINFORCED CEMENT CONCRETE

centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

4,949.30

cum

Code No.	Descrip	tion	Unit	Rate ₹
5.8	or formir excludin with 1:12	ed cement concrete work in vertical and horizontal fins individually ng box louvers, facias and eaves boards up to floor five level, g the cost of centering, shuttering, finishing and reinforcement, $\frac{1}{2}$ :3 (1 cement : $1\frac{1}{2}$ coarse sand : 3 graded stone aggregate nominal size).	cum	5,973.75
	FORM W	NORK		
5.9	Centerin of form f	g and shuttering including strutting, propping etc. and removal or :		
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	186.40
	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	sqm	334.50
	5.9.3	Suspended floors, roofs, landings, balconies and access platform	sqm	371.80
	5.9.4	Shelves (Cast in situ)	sqm	371.80
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	309.80
	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	423.00
	5.9.7	Stairs, (excluding landings) except spiral-staircases	sqm	375.65
	5.9.8	Spiral staircases (including landing)	sqm	339.85
	5.9.9	Arches, domes, vaults up to 6 m span	sqm	1,006.65
	5.9.10	Extra for arches, domes, vaults exceeding 6 m span	sqm	440.40
	5.9.11	Chimneys and shafts	sqm	334.50
	5.9.12	Well steining	sqm	214.55
	5.9.13	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards	sqm	551.45
	5.9.14	Extra for shuttering in circular work (20% of respective centering and shuttering items)	sqm	20.00%
	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	sqm	186.40
	5.9.16	Edges of slabs and breaks in floors and walls		
	5.9.16.1	Under 20 cm wide	metre	111.70
	5.9.16.2	Above 20 cm wide	sqm	490.40
	5.9.17	Cornices and mouldings	sqm	536.20
	5.9.18	Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like	sqm	457.85
	5.9.19	Weather shade, Chajjas, corbels etc., including edges	sqm	468.20
	5.9.20	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12 mm thick	sqm	462.85

Code No.	Descrip	otion	Unit	Rate ₹
	5.9.21	Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick	sqm	400.00
5.10		g and fixing tie bolt, spring coil and plastic cone in wall shuttering te as per the direction of Engineer-in-charge.		
	5.10.1	12 mm dia. & 100 mm length	each set	140.25
	5.10.2	12 mm dia. & 150 mm length	each set	151.90
	5.10.3	20 mm dia. & 150 mm length	each set	169.30
	5.10.4	20 mm dia.& 225 mm length	each set	186.75
5.11	with add	r additional height in centering, shuttering where ever required equate bracing, propping etc., including cost of de-shuttering centering at all levels, over a height of 3.5 m, for every additional of 1 metre or part thereof (Plan area to be measured).		
	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	sqm	145.60
	PRE - C	AST R.C.C.		
5.12	concret blocks, centerir	g, hoisting and fixing up to floor five level precast reinforced cement e work in string courses, bands, copings, bed plates, anchor plain window sills and the like, including the cost of required ng, shuttering but excluding cost of reinforcement, with 1:2:4 (1 : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)	cum	5,829.65
5.13	concret level, in the cos	g, hoisting and fixing up to floor five level precast reinforced cement e in small lintels not exceeding 1.5 m clear span up to floor five cluding the cost of required centering, shuttering but excluding t of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size).	cum	8,042.40
5.14	concret setting i centerir	g, hoisting and fixing up to floor five level precast reinforced cement e in mouldings as in cornices, windows sills etc., including n cement mortar 1:3 (1 cement : 3 coarse sand) cost of required ng, shuttering but excluding the cost of reinforcement, with 1:2:4 ent : 2 coarse sand : 4 graded stone aggregate 20 mm nominal	cum	9,044.00
5.15	Providin concret mortar shutterii	g, hoisting and fixing up to floor five level precast reinforced cement e in lintels, beams and bressumers, including setting in cement 1:3 (1 cement : 3 coarse sand), cost of required centering and ng but excluding the cost of reinforcement, with 1:2:4 (1 cement: e sand : 4 graded stone aggregate 20 mm nominal size).	cum	7,484.20
5.16	concret 3 coarse neat ce reinforc	g, hoisting and fixing up to floor five level precast reinforced cement e in shelves, including setting in cement mortar 1:3 (1 cement : e sand), cost of required centering, shuttering and finishing with ment punning on exposed surfaces but excluding the cost of cement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone ate 12.5 mm nominal size).	cum	11,104.30
5.17	concrete setting i cost of reinforc	g, hoisting and fixing up to floor five level precast reinforced cement e in vertical & horizontal fins, individually or forming box louvers, in cement mortar 1:2 (1 cement : 2 coarse sand), including the required centering, shuttering but excluding the cost of cement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone to 20 mm pomined size)	0.1.22	6 5 4 0 7 0
	ayyrega	ate 20 mm nominal size).	cum	6,519.70

Code No.	Descrip	tion	Unit	Rate ₹
5.18	4 grade dia milo cleaning	g precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand: d stone aggregate 6 mm nominal size), reinforced with 1.6 mm I steel wire, including centering and shuttering, roughening g, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine c. complete, excluding plastering of the jambs, sills and soffits.		
	5.18.1	50 mm thick	sqm	683.80
	5.18.2	40 mm thick	sqm	598.35
	5.18.3	25 mm thick	sqm	563.45
	ENCAS	ING ROLLED STEEL SECTION		
5.19	concrete 12.5 mm	g rolled steel sections, in beams and columns, with cement e 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate n nominal size), including centering and shuttering complete but ng cost of reinforcement.	cum	8,171.55
5.20	cement: size), ind	g rolled steel section in grillages with cement concrete 1:2:4 (1 2 coarse sand: 4 graded stone aggregate 12.5 mm nominal cluding centering and shuttering but excluding cost of expanded and hangers.	cum	5,436.70
5.21	and stra encasir	r providing and fixing expanded metal mesh of size 20x60 mm inds 3.25 mm wide 1.6 mm thick weighing 3.64 kg per sqm for ng of rolled steel sections in beams, columns and grillages, ng cost of hangers.	sqm	379.05
	STEEL F	REINFORCEMENT		
5.22		inforcement for R.C.C. work including straightening, cutting, , placing in position and binding all complete upto plinth level.		
	5.22.1	Mild steel and Medium Tensile steel bars	kilogram	64.05
	5.22.2	Hard drawn steel wire	kilogram	75.75
	5.22.3	Cold twisted bars	kilogram	66.50
	5.22.4	Hot rolled deformed bars	kilogram	66.50
	5.22.5	Hard drawn steel wire fabric	kilogram	74.55
	5.22.6	Thermo-Mechanically Treated bars	kilogram	66.50
5.22A		inforcement for R.C.C. work including straightening, cutting, , placing in position and binding all complete above plinth level.		
	5.22A.1	Mild steel and Medium Tensile steel bars	kilogram	64.05
	5.22A.2	Hard drawn steel wire	kilogram	75.75
	5.22A.3	Cold twisted bars	kilogram	66.50
	5.22A.4	Hot rolled deformed bars	kilogram	66.50
	5.22A.5	Hard drawn steel wire fabric	kilogram	74.55
	5 00 4 0	Thermo-Mechanically Treated bars	kilogram	66.50

Code No.	Description	Unit	Rate ₹
	MISCELLANEOUS		
5.23	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	sqm	120.35
5.24	Extra for rendering smooth the top of suspended floors, landings and staircases (treads and risers) with cement mortar 1:2 (1 cement : 2 coarse sand), including a floating coat of neat cement and protecting the surface with a layer of 7.5 cm of earth laid over 15 mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landings and steps, including subsequent removal and cleaning of the same.	sqm	79.60
5.25	Providing and fixing in position copper plate as per design for expansion	Sqiii	79.00
	joints.	kg	324.70
5.26	Providing and filling in position, blown bitumen in expansion joints.	per cm depth per cm width per 100 m	532.05
5.27	Providing and filling in position bitumen mix filler of Proportion 80 kg of hot bitumen, 1 kg. of cement and 0.25 cubicmetre of coarse sand for expansion joints.	per cm depth per cm width per 100 m	186.10
5.28	Providing and fixing in position 12 mm thick bitumen impregnated fibre board conforming to IS: 1838, including cost of primer, sealing compound in expansion joints.	per cm depth per 100 m	436.30
5.29	Providing and fixing sheet covering over expansion joints with iron screws as per design.		
	5.29.1 Non-asbestos fibre cement board 6 mm thick as per IS: 14862.		
	5.29.1.1 150mm wide	metre	114.05
	5.29.1.2 200mm wide	metre	153.25
	5.29.2 Aluminium fluted strips 3.15 mm thick.		
	5.29.2.1 150 mm wide	metre	324.10
	5.29.2.2 200 mm wide	metre	452.80
5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	27.85
5.31	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.	cum	385.60
	<b>Note For Item No. 5.31:-</b> The quantity will be calculated by multiplying the depth measured from the subsoil water level up to the centre of gravity of the R.C.C. under subsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gravity shall be reckoned correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under sub - soil water conditions.		
5.32	Extra for laying reinforced cement concrete in or under foul positions.	cum	155.50

Code No.	Descrip	tion	Unit	Rate ₹
	DESIGN	I MIX CONCRETE		
5.33	design n work, us pumping shutteri recomm of concr	g and laying in position machine batched and machine mixed nix M-25 grade cement concrete for reinforced cement concrete sing cement content as per approved design mix, including g of concrete to site of laying but excluding the cost of centering, ng, finishing and reinforcement, including admixtures in lended proportions as per IS: 9103 to accelerate, retard setting ete, improve workability without impairing strength and durability irection of Engineer-in-charge.		
		Cement content considered in this item is @ 330 kg/cum. less cement used as per design mix is payable/recoverable ely).		
	5.33.1	All works upto plinth level	cum	5,704.45
	5.33.2	All works above plinth level upto floor V level	cum	6,353.00
5.34	Extra fo	r providing richer mixes at all floor levels.		
		xcess/less cement over the specified cement content used is /recoverable separately.		
	5.34.1	Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)	cum	64.15
	5.34.2	Providing M-35 grade concrete instead of M-25 grade BMC/ RMC. (Note : Cement content considered in M-35 is @ 350 kg/ cum)	cum	128.35
	5.34.3	Providing M-40 grade concrete instead of M-25 grade BMC/ RMC.(Note : Cement content considered in M-40 is @ 360 kg/ cum)	cum	192.50
5.35		using extra cement in the items of design mix over and above cified cement content therein.	quintal	619.65
5.36	waffle u and roo aggrega at joints i holes of steel ho centerir	g and placing in position precast reinforced cement concrete nits, square or rectangular, as per design and shape for floors fs in 1:1½:3 (1 Cement : 1½ coarse sand : 3 graded stone ate 10 mm nominal size), including flush or deep ruled pointing in Cement mortar 1:2 (1 Cement : 2 Fine sand), making necessary required sizes for carrying through service lines etc., providing oks for lifting etc, form work in precasting, handling, hoisting, ng and erection complete for all floor levels but excluding the einforcement.	cum	15,894.25
5.37	Providin reinforce design transpor agitated reinforce transit m finishing proporti improve	g and laying in position ready mixed M-25 grade concrete for ed cement concrete work, using cement content as per approved mix, manufactured in fully automatic batching plant and ted to site of work in transit mixer for all leads, having continuous mixer, manufactured as per mix design of specified grade for ed cement concrete work, including pumping of R.M.C. from nixer to site of laying, excluding the cost of centering, shuttering and reinforcement, including cost of admixtures in recommended ons as per IS : 9103 to accelerate/ retard setting of concrete, e workability without impairing strength and durability as per n of the Engineer - in - charge.	oum	10,007.20

Code No.	Descrip	btion	Unit	Rate ₹
	(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).			
	5.37.1	All works upto plinth level	cum	6,052.90
	5.37.2	All works above plinth level upto floor V level	cum	6,701.45
5.38		r R.C.C./ B.M.C/ R.M.C. work above floor V level for each four part thereof.	cum	174.20
5.40	reinforce per appr plant an continue grade fo from tra shutterin recomm of concr	In and laying in position ready mixed M-25 grade concrete for ed cement concrete work, using fly ash and cement content as roved design mix, and manufactured in fully automatic batching d transported to site of work in transit mixer for all leads, having bus agitated mixer, manufactured as per mix design of specified or reinforced cement concrete work, including pumping of R.M.C. ansit mixer to site of laying, excluding the cost of centering, ng, finishing and reinforcement, including cost of admixtures in hended proportions as per IS : 9103 to accelerate / retard setting ete, improve workability without impairing strength and durability lirection of the Engineer - in - charge.		
		(1) Cement content considered in this item is @ 330 kg/cum. / less cement used as per design mix is payable/ recoverable ely.		
	replace be ensu	sh conforming to grade I of IS 3812 (Part-1) only be used as part ment of OPC as per IS : 456. Uniform blending with cement to red in accordance with clauses 5.2 and 5.2.1 of IS:456 -2000 in as of BMC and RMC.		
	5.40.1	All works up to Plinth level.	cum	5,967.95
	5.40.2	All works above plinth & up to floor V level.	cum	6,616.50
	of Fly As by CDO	The above item shall be used judiciously where specified quality sh is available for mixing in concrete. Also, the guidelines issued , CPWD, vide circular no. CDO/SE(RR)/Fly Ash (Main)/102 dated I 2009 shall be followed in such cases.		
5.41	curing co	ng and applying pre tested and approved water based concrete ompound to concrete/ masonry surface, all as per manufacturer's ation and direction of Engineer-in-charge.		
	5.41.1	Non pigmented wet curing compound	sqm	99.85
	5.41.2	Pigmented wet curing compound	sqm	113.80
5.42	IS code Concret threadin reinforc	ig and fixing tapered / parallel threaded couplers conforming to on "Reinforcement Couplers for Mechanical Splices of Bars for e Reinforcement - Specification", to reinforcement bars including ig, enlargement at connection by forging, protecting the prepared ement bars and related operations as required to complete the er direction of Engineer-in-Charge. (The length of the bars in		

Code No.	Descrip	otion	Unit	Rate ₹
		oupler is to be provided should not be less than 4 metre, no on for labour and binding wire saved for not providing lap length made).		
	5.42.1	Coupler for 16 mm diameter reinforcement bar	each	120.35
	5.42.2	Coupler for 20 mm diameter reinforcement bar	each	163.55
	5.42.3	Coupler for 25 mm diameter reinforcement bar	each	226.60
	5.42.4	Coupler for 28 mm diameter reinforcement bar	each	312.65
	5.42.5	Coupler for 32 mm diameter reinforcement bar	each	363.20
5.43		g and fixing in position Stainless steel Grade 304 plate-1.0 mm per design for expansion joints.		
	5.43.1	200 mm wide.	metre	571.50
	5.43.2	300 mm wide.	metre	827.00
5.44	as per d will be o arrange shall be system accomm it's com aluminu conditio of width requirer pre-eng in all dir sphere extrusio includin- in the Je all as pe	Ig and fixing of expansion joint system related with floor location rawings and direction of Engineer-In-Charge. The joints system f extruded aluminum base members, self aligning / self centering ment and support plates etc. as per ASTM B221-02. The system such that it provides floor to floor /floor to wall expansion control for various vertical localtion in load application areas that nodates multi directional seismic movement without stress to ponents. System shall consist of metal profiles with a universal im base member designed to accommodate various project ns and finish floor treatments. The cover plate shall be designed and thickness required to satisfy projects movement and loading ments and secured to base members by utilizing manufacturer's ineered self-centering arrangement that freely rotates / moves ections. The Self – centering arrangement shall exhibit circular ends that lock and slide inside the corresponding aluminum n cavity to allow freedom of movement and flexure in all directions g vertical displacement. Provision of Moisture Barrier Membrane ont System to have watertight joint is mandatory requirement er the manufactures design and as approved by Engineer -in- . (Material shall confirm to ASTM 6063.)		
	5.44.1	Floor Joint of 100 mm gap	metre	6,334.05
	5.44.2	Floor Joint of 150 mm gap	metre	6,958.35
	5.44.3	Floor Joint of 200 mm gap	metre	7,466.50
5.45	(interna Charge aligning 02. The System new and slipping	In the point of expansion joint system related with wall joint l/external) location as per drawings and direction of Engineer-In- . The joints shall be of extruded aluminum base members, self / centering arrangement and support plates as per ASTM B221- e material shall be such that it provides an Expansion Joints suitable for vertical wall to wall/ wall to corner application, both d existing construction in office Buildings & complexes with no down tendency amongst the components of the Joint System. Int System shall utilize light weight aluminum profiles exhibiting		

Code No.	Descrip	btion	Unit	Rate ₹
		exposed aluminum surfaces mechanically snap locking the lular to facilitate movement. (Material shall confirm to ASTM		
	5.45.1	Wall Joint of 100 mm gap	metre	5,056.40
	5.45.2	Wall Joint of 150 mm gap	metre	5,448.40
	5.45.3	Wall Joint of 200 mm gap	metre	5,840.40
5.46	manufa direction base me plates a watertig that is c without that inc accomm plate sh moveme utilizing freely ro shall ex correspond and flex System ice, exp from ma in the Jo	Ig and fixing of expansion joint system of approved make and ctures for various roof locations as per approved drawings and of Engineer-In-Charge. The joints shall be of extruded aluminum embers with, self aligning and self centering arragement support sper ASTM B221-02. The system shall be such that it provides ht roof to roof/roof to corner joint cover expansion control system apable of accommodating multidirectional seismic movement stress to its components. System shall consist of metal profile orporates a universal aluminum base member designed to nodate various project conditions and roof treatments. The cover hall be designed of width and thickness required to satisfy ent and loading requirements and secured to base members by manufacturer's pre-engineered self-centering arrangement that tates / moves in all directions. The Self centering arrangement that thibit circular sphere ends that lock and slide inside the onding aluminum extrusion cavity to allow freedom of movement sure in all directions including vertical displacement. The Joint shall resists damage or deterioration from the impact of falling osure to UV, airborne contaminants and occasional foot traffic aintenance personnel. Provision of Moisture Barrier Membrane bint System to have water tight joint is mandatory requirement. I shall confirm to ASTM 6063.		
	5.46.1	Roof Joint of 100 mm gap	metre	6,334.05
	5.46.2	Roof Joint of 150 mm gap	metre	6,726.05
	5.46.3	Roof Joint of 200 mm gap	metre	7,001.00
5.47	and win with reir stirrups	ig and fixing in position factory made precast RCC M-40 doors dows frames having excellent smooth finish as per IS: 6523 inforcement of 3 Nos, 6 mm dia main bars tied with 3 mm M.S placed @ 200 mm C/C and 6 numbers high strength polymer		
	designe threade arrange complet fast and	of required size for fixing hinges including providing 6 no specially and M.S. galvanised sleeves for accomodating 6 mm dia fully a bolts for fixing hold fast on vertical members, providing suitable ament for recieving sliding door bolts and tower bolt etc all the, as per the direction of Engineer in charge. (The cost of hold a cc block of 1:3:6 mix is also included in the item.) The frame measured in running meter correct to two places of decimal.		
	designe threade arrange complet fast and	ed M.S. galvanised sleeves for accomodating 6 mm dia fully d bolts for fixing hold fast on vertical members, providing suitable ment for recieving sliding door bolts and tower bolt etc all te, as per the direction of Engineer in charge. (The cost of hold I cc block of 1:3:6 mix is also included in the item.) The frame	metre	412.80
	designe threade arrange complet fast and shall be	ed M.S. galvanised sleeves for accomodating 6 mm dia fully d bolts for fixing hold fast on vertical members, providing suitable ment for recieving sliding door bolts and tower bolt etc all te, as per the direction of Engineer in charge. (The cost of hold t cc block of 1:3:6 mix is also included in the item.) The frame measured in running meter correct to two places of decimal.	metre metre	412.80 378.55

Code No.	Descrip	otion	Unit	Rate ₹
5.48	piers, a seismic grade u require shutteri pier & p and all drawing and po	ng and laying Reinforced cement concrete for construction of butments, portal frames, pier caps and bearing pedestals and arresters over pier/abutment caps at all locations with specified using Ordinary Portland Cement (conforming to strength ment of IS:8112) including the cost of steel centering and ng etc. complete including testing of materials etc. for casting bier cap in one/two stage, necessary tools, plants, machinery related operations as required to complete the work as per gs and Specifications with all leads, lifts and depths true to level sition but excluding the cost of providing reinforcement. cement shall be measured and paid separately.		
	Note:-	Cement content considered in this item is 480 Kg./ Cum. Excess/less cement used as per design mix is payable/ recoverable separately.		
	5.48.1	Reinforced Cement Concrete -M-50	cum	6113.45
	5.48.2	Reinforced Cement Concrete -M-60	cum	7230.00
	5.48.3	Extra for using M -50/ M60 Grade Self-compacting Reinforced Cement Concrete	cum	632.10
5.49	machine cement kg. cem admixtu by the diaphra exceed approve required includin and pun of earth providir required etc., pro depth o includin concrete undulat chipping sound c includin inclined approve	Incting cast-in situ RCC diaphragm wall by providing and laying e batched, machine mixed, self compacting, ready mix reinforced concrete, tramie controlled, of M 30 grade using minimum 400 eent per cum of concrete including providing and mixing required ures in recommended proportions as per IS : 9103, as approved Engineer-in-charge, for achieving 150- 200mm slump, for gm wall having thickness as per approved structural design not ing 600 mm, in pannels of required depth and lengths as per ed drawing, including constructing necessary guide walls as d and as specified including boring in all kinds of soils and rocks, g working in or under water and / or liquid mud, in foul conditions nping or bailing out of water and removing slush, including disposal / rock / slush etc. for all leads and all lifts, including preparing, ng and re-circulating bentonite slurry in the trench as and when d for all depths, including agitating bentonite slurry during trenching poviding and fixing stop ends or form tubes, upto the required if diaphragm wall including extracting the same after casting, ig chipping off the bentonite adulterated concrete or unsound e up to the cut off level for obtaining the sound concrete, dressing ions on the exposed face of diaphragm wall after excavation by g / chiseling etc. including filling the depression/ cavities with oncrete etc. complete and as directed by the Engineer-in-charge, g providing recess for bearing plates and fixing insert boxes for I rock anchors etc. complete as per the specifications and ed design and as directed by the Engineer-in-charge, .but ng the cost of reinforcement and inserts. (rates include cost of s of labour, material and T & P, cost of handling, lifting & placing on the reinforcement cage in the trench, including the additional welding the reinforcement bars etc. involved in the work and all		

Code No.	Description	Unit	Rate ₹
	other incidental expenditure for completing the work as directed by the Engineer-in-charge), However, the actual area of the diaphragm wall, correct to two places of decimal, from design bottom level to the design cut off level (including portion anchored in the rock upto the design bottom level) only shall be measured for payment.		
	Excess/less cement used for design mix including the extra cement required for under water concreting is payable / recoverable separately.	cum	13,087.70

# **SUB HEAD : 6.0 BRICK WORK**

Code No.	Description	Unit	Rate ₹
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	550.00
0037	Mobile crane	day	6500.00
0101	Bhisti	day	328.00
0112	Carpenter 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0155*	Mason (average)	day	377.00
0322	Bitumen felt :Type 3 grade 1	sqm	60.00
1002	Mild steel round bar 12 mm dia and below	quintal	4500.00
1008	Flats up to 10 mm in thickness	quintal	4200.00
1034	Bolts and nuts up to 300 mm in length	quintal	5600.00
1197	Second class kail wood in scantling	10 cudm	260.00
1225	Mild steel flat strap fitting	quintal	4450.00
1235	Diesel oil	litre	48.63
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	4800.00
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	5250.00
2201	Carriage of bricks	1000 Nos	284.39
2204	Carriage of timber	cum	121.88
2205	Carriage of steel	tonne	94.80
2207	Carriage of brick tiles	1000 Nos	170.63
2208	Carriage of lime	cum	106.64
2302	Carriage of G.I.sheet and accessories	tonne	94.80
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	3800.00
7008	F.P.S. (non modular) clay fly ash bricks class designation 7.5	1000 Nos	4600.00
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	5400.00
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	4700.00
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	5000.00
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	4500.00
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	4600.00

# BASIC RATES (SH: 6.0 BRICK WORK)

Code No.	Description	Unit	Rate ₹
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	5350.00
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	5000.00
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	5250.00
8655	Autoclaved aerated cement (AAC) blocks	cum	2025.00
8656	Gypsum panel 666 X 500 X 100 mm size	sqm	480.00
8657	Bonding plaster for Gypsum panel	kg	55.00
9999	Sundries	L.S.	1.70

### 6.0 BRICK WORK

Code No.	•		Description Unit		Unit	Rate ₹
6.1		ork with common burnt clay F.P.S. (non modular) bricks of esignation 7.5 in foundation and plinth in:				
	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	4,847.85		
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	4,646.50		
6.2		ork with common burnt clay modular bricks of class designation bundation and plinth in:				
	6.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	4,347.95		
	6.2.2	Cement Mortar 1:6 (1 cement : 6 coarse sand).	cum	4,170.75		
6.3	of class	ork with common burnt clay machine moulded perforated bricks designation 12.5 conforming to IS: 2222 in superstructure above evel up to floor five level in cement mortar 1:6 (1 cement : 6 sand):				
	6.3.1	With F.P.S.(non modular) bricks	cum	5,210.35		
	6.3.2	With Modular bricks	cum	4,894.15		
6.4	designa	ork with common burnt clay F.P.S. (non modular) bricks of class ation 7.5 in superstructure above plinth level up to floor V level in bes and sizes in :				
	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	5,526.50		
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5,325.10		
6.5	superst	or brick work / AAC block masonry / Tile brick masonry in ructure above floor V level, for each four floors or part thereof by nical means.	cum	263.30		
6.6	weep a fixing b	r forming cavity 5 cm to 7.5 cm wide in cavity walls with necessary nd vent holes including use of cores and cost of providing and itumastic coated M .S. ties 300 mm long of 25x3 mm section at s than 3 ties per sqm as per approved design.	sqm	94.10		
6.7	bricks o coarse	ig half brick masonry with common burnt clay F.P.S. (non modular) of class designation 7.5 in cement mortar 1:3 (1 Cement : 3 sand) in superstructure for closing cavity 5 to 7.5 cm wide in wall complete with 10 cm / 11.4 cm wide bitumen felt type 3 .	metre	182.20		
6.8	brick of	ork 7 cm thick with common burnt clay F.P.S. (non modular) class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse a superstructure above plinth level and upto floor five level.	sqm	497.45		
6.9	Brick work in plain arches in superstructure above plinth level and upto floor five level including centering and shuttering complete for span up to 6 metres with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand).		cum	8,207.50		
6.10	Brick work in gauged arches in superstructure above plinth level and upto floor five level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering and shuttering complete, for span up to 6 meters with common burnt clay F.P.S. (non modular) bricks of class designation 7.5.		cum	9,727.55		
6.11	includir	or additional cost of centering for arches exceeding 6m spaning all shuttering, bolting, wedging and removal (Area of the soffit easured).	sqm	440.40		

Code No.	Description	Unit	Rate ₹
	HALF BRICK MASONRY		
6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :		
	6.12.1 Cement mortar 1:3 (1 cement : 3 coarse sand)	sqm	597.25
	6.12.2 cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	574.70
6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.		
	6.13.1 Cement mortar 1:3 (1 cement :3 coarse sand)	sqm	670.45
	6.13.2 Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	647.90
6.14	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.	sqm	23.35
6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	sqm	69.50
	BRICK TILE WORK		
6.16	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in foundation and plinth in:		
	6.16.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	7,413.10
	6.16.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	7,070.90
6.17	Tile brick masonry with common burnt clay machine moulded tile bricks of class designation 12.5 conforming to IS : 2690 (Part I) in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand).		7,271.40
6.18	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in superstructure above plinth level up to floor V level in cement mortar 1:6 (1 cement : 6 coarse sand).	cum	7,812.30
6.19	Deleted		
6.20	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in plain arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.	cum	10,549.60
6.21	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in gauged arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.	cum	11,983.55
6.22	Tile brick masonry work 5 cm thick with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth and upto floor five level.	sqm	499.25
	HONEY COMB WORK	·	
6.23	Honey-comb brick work 10 / 11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level upto floor V level with cement mortar 1:4 (1 cement : 4 coarse sand).	sqm	422.15
6.24	Extra for laying brick work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.	cum/mtr	385.60
	<b>NOTE :-</b> The quantity will be calculated by multiplying the depth measured from sub - soil water level up to the centre of gravity of brick		

SUBHEAD -6.0 BRICK WORK

Code No.	Descrip	tion	Unit	Rate ₹
	work under sub - water with the quantity of brick work in cum executed under the sub - soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.			
6.25	Extra for	r laying brick work in or under foul position.	cum	155.50
	EXPOS	ED BRICK WORK		
6.26	of class horizont	rk with common burnt clay selected F.P.S. (non modular) bricks designation 7.5 in exposed brick work including making al and vertical grooves 10 mm wide 12 mm deep complete in mortar 1:6 (1 cement : 6 coarse sand)		
	6.26.1	From ground level upto plinth level	cum	4,733.70
	6.26.2	Above plinth level upto floor V level	cum	5,446.80
6.27	7.5 in ex	rk with common burnt clay modular bricks of class designation posed brick work including making horizontal and vertical grooves vide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 cand).		
	6.27.1	From ground level upto plinth level	cum	4,197.70
	6.27.2	Above plinth level upto floor V level	cum	4,876.35
6.28	class de and ver	rk with common burnt clay machine moulded modular bricks of signation 12.5 in exposed brick work including making horizontal tical grooves 10 mm wide 12 mm deep complete in cement :6 (1 cement : 6 coarse sand).		
	6.28.1	From ground level upto plinth level	cum	4,621.95
	6.28.2	Above plinth level upto floor V level	cum	5,300.60
6.29	modular making	ork with common burnt clay machine moulded F.P.S. (non ) bricks of class designation 12.5 in exposed brick work including horizontal and vertical grooves 10 mm wide 12 mm deep e in cement mortar 1:6 (1 cement : 6 coarse sand).		
	6.29.1	From ground level upto plinth level	cum	4,501.30
	6.29.2	Above plinth level upto floor V level	cum	5,153.65
6.30	(non mo exposed	rk with common burnt clay machine moulded perforated F.P.S. dular) bricks of class designation 12.5 conforming IS : 2222 in d brick work including making horizontal and vertical grooves vide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 and).		
	6.30.1	From ground level upto plinth level	cum	4,558.70
	6.30.2	Above plinth level upto floor V level	cum	5,237.30
6.31	bricks of work inc	rk with common burnt clay machine moulded perforated modular class designation 12.5 conforming to IS : 2222 in exposed brick luding making horizontal and vertical grooves 10 mm wide 12mm mplete in cement mortar 1:6 (1 cement : 6 coarse sand).		
	6.31.1	From ground level upto plinth level	cum	4,254.30
	6.31.2	Above plinth level upto floor V level	cum	4,932.90

Code No.	Description	Unit	Rate ₹
6.32	Brick work with clay flyash F.P.S. (non modular) brick of class design 7.5 in superstructure above plinth level up to floor five level in :	ation	
	6.32.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	5,385.30
	6.32.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5,183.90
6.33	Deleted		
6.34	Brick work with non modular fly ash lime bricks (FALG Bricks) confor to IS:12894, class designation 10 average compressive strength in s structure above plinth level up to floor V level in :		
	6.34.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	5,301.25
	6.34.2 Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	5,124.05
6.35	Brick work with modular calcium silicate bricks machine mou conforming to IS:4139, class designation 10 average compre- strength in super structure above plinth level up to floor V level in	ssive	
	6.35.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	5,470.95
	6.35.2 Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	5,293.75
6.36	Brick work with modular extruded brunt fly ash clay sewer b (Conforming to IS: 4885) in foundation and plinth :	ricks	
	6.36.1 Cement Mortar 1:4 (1 cement : 4 coarse sand)	cum	4,857.05
6.37	Brick work with modular extruded brunt fly ash clay sewer bricks (conforming to IS : 4885) in arches in foundation and plinth in cement mortar 1:3 (1 cement : 3 fine sand).		7,687.80
6.38	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand ). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.		4,827.45
6.39	Deleted		
6.40	Providing and laying Gypsum panel partitions 100 mm thick with w proof Gypsum panels of size 666x500x100 mm, made of calcite phose Gypsum fixed with tongue and groove, jointed with bonding plaster a manufacturer's specifications in superstructure above plinth up to floor V level. Gypsum blocks will have a minimum comprese strength of 9.3 kg/cm2	sphor s per level	777.20
6.41	Extra for Gypsum panel Partitions in superstructure above floor V for every four floors or part thereof.	level sqm	59.70
6.42	Deleted		
6.43	Deleted		
6.44	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).		38.55
6.45	Half brick masonry with non modular fly ash lime Gypsum bricks (F bricks) of class designation 10, conforming to IS : 12894, in s structure above plinth and upto floor V level.		
	6.45.1 Cement mortar 1 : 3 (1 cement : 3 coarse sand)	sqm	663.85
	6.45.2 Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	641.30
6.46	Deleted		

# **SUB HEAD : 7.0 STONE WORK**

Code No.	Description	Unit	Rate ₹
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	550.00
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0102	Blacksmith 1 st class	day	393.00
0103	Blacksmith 2nd class	day	361.00
0112	Carpenter 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0125	Mason (for plain stone work) 2nd class	day	361.00
0126	Mason (for ornamental stone work) 1 st class	day	393.00
0139	Skilled Beldar (for floor rubbing etc.)	day	328.00
0367	Portland Cement	tonne	5240.00
0373	Cramp Gun metal 25x6x300 mm	each	80.00
0873	Copper pins 6 mm dia 7.5 cm long	each	10.00
1002	Mild steel round bar 12 mm dia and below	quintal	4500.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4926.00
1034	Bolts and nuts up to 300 mm in length	quintal	5600.00
1154	Through and bond stone	100 Nos	1200.00
1157	Stone for masonry work	cum	700.00
1160	Red sand stone block	10 cudm	65.00
1161	White sand stone block	10 cudm	70.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	300.00
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	160.00
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	180.00
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	210.00
1197	Second class kail wood in scantling	10 cudm	260.00
1215	Welding by electric plant	cm	1.80
1225	Mild steel flat strap fitting	quintal	4450.00

# BASIC RATES (SH: 7.0 STONE WORK)

Code No.	Description	Unit	Rate ₹
1237	Cutting marble or sand stone slab up to 50 mm thick by		
	mechanical device	metre	9.00
2204	Carriage of timber	cum	121.88
2215	Carriage of Soling stone & masonry stone	cum	125.47
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	94.80
2302	Carriage of G.I.sheet and accessories	tonne	94.80
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	700.00
4009	Mild steel tubes hot finished welded type	kilogram	52.00
7339	Stainless steel cramp	kilogram	340.00
7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	500.00
8683	Red sand stone gang saw cut 30 mm thick	sqm	460.00
8684	White sand stone gang saw cut 30 mm thick	sqm	480.00
8698	Stainless steel cramps(weight 260 grams) with nuts, bolts and		
	washer for dry stone cladding	each	90.00
9999	Sundries	L.S.	1.70

Code No.	Descri	otion	Unit	Rate ₹
	RANDO	OM RUBBLE MASONRY		
7.1	levelling	n rubble masonry with hard stone in foundation and plinth including g up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 stone aggregate 20 mm nominal size) upto plinth level with :		
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	3,410.50
7.2	level an 1:6:12	n rubble masonry with hard stone in superstructure above plinth ad upto floor five level, including leveling up with cement concrete (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm Il size) at window sills, ceiling level and the like.		
	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	4,087.25
7.3	Deletec	I		
7.4	Extra fo	or random rubble masonry with hard stone in :		
	7.4.1	Square or rectangular pillars	cum	336.35
	7.4.2	Circular pillars	cum	994.20
7.5		r random rubble masonry with hard stone curved on plan for a adius not exceeding 6 m.	cum	391.90
	COURSED RUBBLE MASONRY			
7.6	Course plinth w	d rubble masonry (first sort) with hard stone in foundation and /ith :		
	7.6.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	3,935.25
7.7	Course plinth w	d rubble masonry (second sort) with hard stone in foundation & /ith :		
	7.7.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	3,678.80
7.8		d rubble masonry with hard stone (first or second sort) in ructure above plinth level and upto floor five level.		
	7.8.1	Masonry work (first sort) , in cement mortar 1:6 (1 cement : 6 coarse sand)	cum	4,602.55
	7.8.2	Masonry work (second sort) , in cement mortar 1:6 (1 cement: 6 coarse sand)	cum	4,346.15
7.9	Deletec	I		
7.10	Extra fo	r coursed rubble masonry with hard stone (first or second sort) in :		
	7.10.1	Square or rectangular pillars	cum	374.05
	7.10.2	Circular pillars	cum	1,127.80
7.11		or coursed rubble masonry with hard stone (first or second sort) on plan for a mean radius not exceeding 6 m.	cum	426.65
	ASHLA	AR MASONRY		
7.12		ork in plain ashlar in super structure upto floor five level in cement 1:6 (1 cement : 6 coarse sand) including pointing with cement		

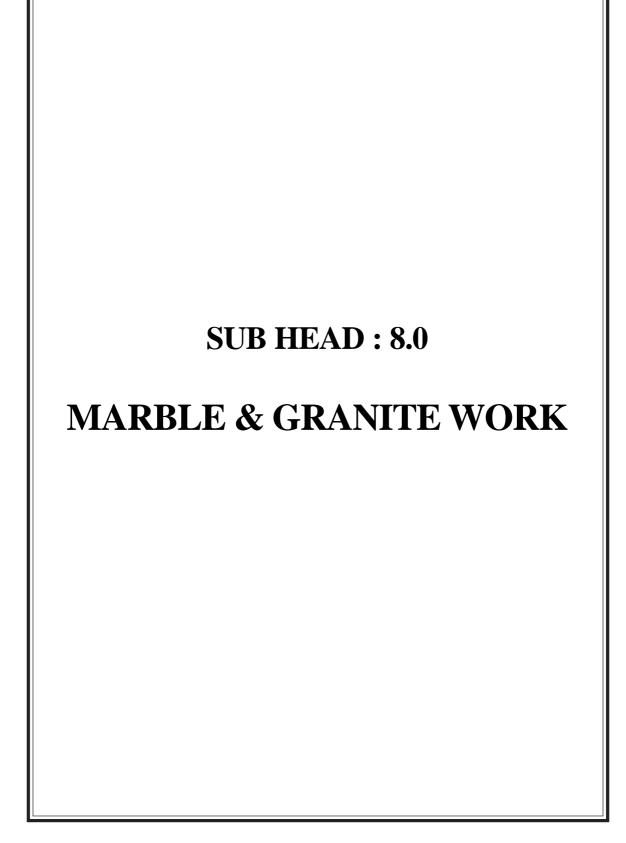
Code No.	Description	Unit	Rate ₹
	mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :		
	7.12.1 One face dressed		
	7.12.1.1 Red sand stone	cum	26,283.00
	7.12.1.2 White sand stone	cum	27,057.00
	7.12.2 Both face dressed		
	7.12.2.1 Red sand stone	cum	34,201.00
	7.12.2.2 White sand stone	cum	34,975.00
7.13	Stone work plain ashlar in arches in super structure upto floor V leve cement mortar 1:3 (1 cement : 3 coarse sand) including centrin shuttering and pointing with white cement mortar 1:2 (1 white ceme 2 stone dust) with an admixture of pigment matching the stone share	ng, nt :	
	7.13.1 One face dressed		
	7.13.1.1 Red sand stone	cum	30,544.00
	7.13.1.2 White sand stone	cum	31,318.00
	7.13.2 Both face dressed		
	7.13.2.1 Red sand stone	cum	38,462.00
	7.13.2.2 White sand stone	cum	39,236.00
7.14	Stone work plain ashlar in domes, in super structure upto floor V level cement mortar 1:3 (1 cement : 3 coarse sand) including centric shuttering and pointing with white cement mortar 1:2 (1 white ceme 2 stone dust) with an admixture of pigment matching the stone share	ng, nt :	
	7.14.1 One face dressed		
	7.14.1.1 Red sand stone	cum	46,145.00
	7.14.1.2 White sand stone	cum	46,919.00
	7.14.2 Both face dressed		
	7.14.2.1 Red sand stone	cum	65,786.00
	7.14.2.2 White sand stone	cum	66,560.00
7.15	Stone work ashlar punched (ordinary) in superstructure upto floor f level in cement mortar 1:6 (1 white cement : 6 coarse sand) includ pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with admixture of pigment matching the stone shade.	ing	
	7.15.1 One face dressed		
	7.15.1.1 Red sand stone	cum	25,068.00
	7.15.1.2 White sand stone	cum	25,840.00
	7.15.2 Both faced punched		
	7.15.2.1 Red sand stone	cum	31,770.00
	7.15.2.2 White sand stone	cum	32,543.00
7.16	Extra for stone work, random rubble / coursed rubble masonry / ash masonry above floor V level for every four floors or part thereof.	ılar cum	690.00

Code No.	Descrip	tion	Unit	Rate ₹
7.17	Extra for	plain ashlar or ashlar punched in :		
	7.17.1	Square or rectangular pillars	cum	1,771.00
7.18		for stone work; plain ashlar or ashlar punched curved on plan with an radius not exceeding 6 m.		1,233.00
7.19	including	Extra for additional cost of centering for arches exceeding 6m span including all strutting, bolting, wedging etc. and removal (area of soffit to be measured).		440.40
	SUNK, I	MOULDED, CARVED ASHLAR MASONRY		
7.20	level in c with whit	ork ashlar sunk or moulded or sunk and moulded upto floor five ement mortar 1:6 (1 cement : 6 coarse sand) including pointing te cement mortar 1:2 (1 white cement : 2 stone dust) with ar re of pigment matching the stone shade :	9	
	7.20.1	Red sand stone	cum	36,386.00
	7.20.2	White sand stone	cum	37,160.00
7.21	Extra for carved ir	stone work ashlar sunk or moulded or sunk and moulded o ו :	r	
	7.21.1	Triangular or Square or rectangular pillars	cum	2,310.00
	7.21.2	Circular or polygonal pillars	cum	6,546.00
7.22	Extra for	stone work ashlar sunk or moulded in cornices.	per metre per cm girth	20.80
	MISCEL	LANEOUS STONE WORK		
7.23	10 metre cement white cer of pigme	ork (machine cut edges) for wall lining etc. (veneer work) upto e height, backing filled with a grout of average 12 mm thicl mortar 1:3 (1 cement : 3 coarse sand) including pointing in ment mortar 1:2 (1 white cement : 2 stone dust) with an admixture ent matching the stone shade : (To be secured to the backing sides by means of cramps and pins which shall be paid fo ely):	< 1 3 3	
	7.23.1	Red sand stone - exposed face fine dressed with rough backing		
	7.23.1.1	70 mm thick	sqm	2,410.75
	7.23.1.2	60 mm thick	sqm	2,306.70
	7.23.1.3	50 mm thick	sqm	2,202.85
	7.23.1.4	40 mm thick	sqm	2,098.60
	7.23.1.5	30 mm thick	sqm	1,994.50
	7.23.2	Red sand stone - Exposed face machine cut and table rubbed with rough backing.	k	
	7.23.2.1	70 mm thick	sqm	3,192.65
	7.23.2.2	60 mm thick	sqm	3,088.60
	7.23.2.3	50 mm thick	sqm	2,984.80
	7 00 0 4	40 mm thick	sqm	2,880.55
	1.23.2.4		Sqiii	2,000.00

Code No.	Description	Unit	Rate ₹
	7.23.3 White sand stone - backing .	exposed face fine dressed with rough	
	7.23.3.1 70 mm thick	sqm	2,464.95
	7.23.3.2 60 mm thick	sqm	2,353.15
	7.23.3.3 50 mm thick	sqm	2,241.60
	7.23.3.4 40 mm thick	sqm	2,129.35
	7.23.3.5 30 mm thick	sqm	2,017.70
	7.23.4 White sand stone - Exwith rough backing.	xposed face machine cut and table rubbed	
	7.23.4.1 70 mm thick	sqm	3,246.85
	7.23.4.2 60 mm thick	sqm	3,135.05
	7.23.4.3 50 mm thick	sqm	3,023.50
	7.23.4.4 40 mm thick	sqm	2,911.25
	7.23.4.5 30 mm thick	sqm	2,799.65
7.24	Extra for stone work (veneer w not exceeding 6 m.	vork) curved on plan with a mean radius cum	1,771.00
7.25	for anchoring stone wall lining t in stone wall lining in cement	steel cramps of required size and shape to the backing or securing adjacent stones a mortar 1:2 (1 cement : 2 coarse sand), sary chases in stone and holes in walls kg	566.80
7.26		wels 10x5x2.50 cm cut to double wedge nt mortar 1:2 (1 cement : 2 coarse sand), ary chases.	34.45
7.27	<b>a b 11 1</b>	is 7.5 cm long 6 mm diameter for securing lining in cement mortar 1:2 (1 cement : 2 ng the necessary chases.	29.10
7.28	Providing and fixing sloping ch wide beyond the wall as mea 1:4 (1 cement : 4 coarse san bar, 45 cm long, fixed in each with bricks cove in cement r	hajja of stone 40 mm thick and upto 80 cm isured along the slope in cement mortar d) with 12 mm diameter anchoring steel h stone and supported on and including mortar 1:4 (1 cement : 4 coarse sand), nortar 1:2 (1 white cement : 2 stone dust)	
	7.28.1 Red sand stone :		
	7.28.1.1 With common burnt designation 7.5	clay F.P.S.(non modular) bricks of class sqm	1,188.55
	7.28.2 White sand stone :		
	7.28.2.1 With common burnt designation 7.5	clay F.P.S.(non modular) bricks of class sqm	1,220.50
7.29	<b>u</b>	l chajja of stone 40 mm thick and upto 80 r 1:4 (1 cement : 4 coarse sand), including	

Code No.	Description	Unit	Rate ₹
	pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :		
	7.29.1 Red sand stone	sqm	724.15
	7.29.2 White sand stone	sqm	752.05
7.30	30 mm red sand stone sun-shade (chisel-dressed) supported on red sand stone brackets, fixed in walls with cement mortar 1:4 (1 cement : 4 coarse sand), including finishing complete.	sqm	783.20
7.31	Providing and fixing red sand stone brackets 55x22.5x45 cm sunk and moulded including providing and fixing with 4 Nos gun metal cramp 25x6 mm 30 cm long and dowel bars 7.5 cm long 6 mm dia as per design.	each	2,714.65
7.32	Stone work, plain in copings, cornices, string courses and plinth courses, upto 75 mm thick in Cement mortar 1:6 (1 cement : 6 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.		
	7.32.1 Red sand stone	cum	35,767.40
	7.32.2 White sand stone	cum	36.540.75
7.33	Providing and fixing stone jali 40 mm thick throughout in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade, jali slab without any chamfers etc.		
	7.33.1 Red sand stone	sqm	8,615.05
	7.33.2 White sand stone	sqm	8,640.60
7.34	Extra for laying stone work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.	cum/ mtr depth	385.60
	NOTE :- The quantity will be calculated by multiplying the depth measured from sub - soil water level up to the centre of gravity of stone work under sub - water with the quantity of stone work in cum executed under the sub - soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.		
7.35	Extra for laying stone work in or under foul position.	cum	155.50
7.36	Wall lining butch work upto 10m height with Dholpur stone 40 mm thick rough facing on the exposed surface with stone strips of minimum length 300 mm and required width, including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 Cement : 3 coarse sand) i/c ruled pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per		
7.37	direction of Engineer-in-charge. Stone work (machine cut edges Veneer work) for wall lining upto 10 m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1:2 (1 cement : 2 stone dust), including rubbing and polishing complete.	sqm	1,380.90

Code No.	Description	Unit	Rate ₹
	(To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately).		
	7.37.1 Kota stone slabs exposed face dressed and rubbed.		
	7.37.1.1 25 mm thick	sqm	1,447.15
7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade.		
	7.38.1 8mm thick (mirror polished and machine cut edge)		
	7.38.1.1 Granite stone of any colour and shade	sqm	1,639.45
	7.38.1.2 Raj Nagar plain white marble/ Udaipur green marble/ Zebra black marble	sqm	1,401.35
7.39	Extra for stone work for wall lining on exterior walls of height more thar 10 m from ground level for every additional height of 3 m or part there of		77.90
	STONE WORK IN DRY CLADDING		
7.40	Providing and fixing dry cladding upto 10 metre heights with 30 mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately).	-   -	
	7.40.1 Red sand stone	sqm	2,351.40
	7.40.2 White sand stone	sqm	2,385.10
7.41	Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square/ rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of M.S. brackets/ lugs of angle iron/ flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) of size 300x230x300 mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps/ pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-in-charge for approval before execution). The frame work shall be fixed in true horizontal & vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel cramps shall be paid for		
	separately and nothing extra shall be paid).	kg	134.50
7.42	Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete	5 	
	as per direction of the Engineer-in-charge.	each	196.80



# BASIC RATES (SH: 8.0 MARBLE & GRANITE WORK)

Code No.	Description	Unit	Rate ₹
0013	Machine for rubbing of floors	day	350.00
0019	Hand Grinder for mirror polish	day	230.00
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0102	Blacksmith 1st class	day	393.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0123	Mason (brick layer) 1st class	day	393.00
0126	Mason (for ornamental stone work) 1st class	day	393.00
0128	Mate	day	328.00
0139	Skilled Beldar (for floor rubbing etc.)	day	328.00
0367	Portland Cement	tonne	5240.00
0368	White Cement	tonne	14000.00
0874	Black colour dark shade pigment	kilogram	55.00
1034	Bolts and nuts up to 300 mm in length	quintal	5600.00
1239	18 mm thick Flamed finish granite stone slab	sqm	1695.00
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	3330.00
2209	Carriage of cement	tonne	94.80
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	94.80
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	700.00
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	360.00
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	1750.00
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone - 18 mm thick	sqm	1800.00
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	1900.00
7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	2000.00
7338	Gun metal cramp	kilogram	330.00
7339	Stainless steel cramp	kilogram	340.00
7430	Wedge expansion hold fastener 1/4" or 6 mm	each	14.00
7431	Wedge expansion hold fastener 3/8" or 10 mm	each	15.00
7432	Wedge expansion hold fastener 1/2" or 12 mm	each	28.00
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	650.00
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	750.00
9999	Sundries	L.S.	1.70

SUB HEAD -8.0 MARBLE & GRANITE WORK

Code No.	Descrip	tion	Unit	Rate ₹
8.1	Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse 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).			
	8.1.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.		
	8.1.1.1	Area of slab upto 0.50 sqm	sqm	2,604.35
	8.1.1.2	Area of slab over 0.50 sqm	sqm	2,737.20
8.2	Providing and fixing 18 mm thick gang saw cut, 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 cement mortar 1:4 (1 cement : 4 coarse sand), 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.			
	8.2.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble		
	8.2.1.1	Area of slab upto 0.50 sqm	sqm	2,200.25
	8.2.1.2	Area of slab over 0.50 sqm	sqm	2,322.25
	8.2.2	Granite of any colour and shade		
	8.2.2.1	Area of slab upto 0.50 sqm	sqm	3,724.70
	8.2.2.2	Area of slab over 0.50 sqm	sqm	3,769.70
8.3	etc., inc	g edge moulding to 18 mm thick marble stone counters, Vanities luding machine polishing to edge to give high gloss finish etc. e as per design approved by Engineer-in-Charge.		
	8.3.1	Marble work	metre	124.45
	8.3.2	Granite work	metre	210.65
8.4	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. complete.		metre	225.75
8.5	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	350.80
8.6		olishing on marble work/Granite work/stone work where ever I to give high gloss finish complete.	sqm	196.85

## 8.0 MARBLE & GRANITE WORK

Code No.	Description		Unit	Rate ₹	
8.7	Providing and fixing cramps of required size & shape in RCC/CC / Brick masonry backing with cement mortar 1:2 (1 cement :2 coarse sand), including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).				
	8.7.1	Gunmetal cramps	kg	539.75	
	8.7.2	Stainless steel cramps	kg	566.80	
8.8	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.				
	8.8.1	Wedge expansion type			
	8.8.1.1	Fastener with threaded dia 6 mm	each	26.05	
	8.8.1.2	Fastener with threaded dia 10 mm	each	27.55	
	8.8.1.3	Fastener with threaded dia 12 mm	each	42.95	
8.9	mortar 1	e (polished) work for wall lining over 12 mm thick bed of cement :3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm g pointing in white cement complete.			
	8.9.1	8mm thick			
	8.9.1.1	Raj nagar plain white marble/ Udaipur green marble/ Zebra black marble	sqm	1,412.10	
	8.9.1.2	Granite of any colour and shade	sqm	1,816.90	
8.10	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, 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 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.				
	8.10.1	White Agaria Marble Stone	sqm	2,893.70	
	8.10.2	Granite Stone of approved shade	sqm	2,963.40	
8.11	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 oarse 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.				
		n thick Italian Marble stone slab,Perlato, Rosso verona, Fire Dark Emperadore etc.	sqm	6,463.35	
8.12		g and laying flamed finish Granite stone flooring in required design terns, in linear as well as curvilinear portions of the building all			

Code No.	Description	Unit	Rate ₹
	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 coarse 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 :		
	a. Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	sqm	2782.15

# **SUB HEAD : 9.0**

# WOOD & PVC WORK

## BASIC RATES (SH: 9.0 WOOD AND P.V.C. WORK)

Code No.	Description	Unit	Rate ₹
0100	Bandhani	day	328.00
0102	Blacksmith 1st class	day	393.00
0103	Blacksmith 2nd class	day	361.00
0111	Carpenter 1st class	day	393.00
0112	Carpenter 2nd class	day	361.00
0114	Beldar	day	297.00
0119	Glazier	day	361.00
0123	Mason (brick layer) 1st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0130	Mistry	day	393.00
0131	Painter	day	361.00
0156*	Carpenter (average)	day	377.00
0237	Non - Asbestos multi purpose fibre (high impact poly propelene reinforced) cement board 8 mm thick	sqm	250.00
0305	Bamboo 25 mm dia 2.5 metre long	score	350.00
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	325.00
0346	Extra for veneered particle board with Teak veneering on one side and commercial veneering on other side	sqm	260.00
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	170.00
0348	Extra for veneered particle board with Teak veneering both sides	sqm	500.00
0378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	850.00
0379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	700.00
0380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	430.00
0381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	180.00
0382	Brass butt hinges (heavy type) : 125x85x5.5 mm(0.70 kg)	10 Nos	3100.00
0383	Brass butt hinges (heavy type) : 100x85x5.5 mm(0.56 kg)	10 Nos	2750.00
0384	Brass butt hinges (heavy type) :75x65x4.0 mm(0.20 kg)	10 Nos	950.00
0385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	2850.00
0386	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	2500.00
0387	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	2300.00
0388	Brass parliamentary hinges 75x100x20x3.2 mm	10 Nos	1750.00
0400	Brass tower bolt (barrel type) 250x10 mm	each	230.00
0401	Brass tower bolt (barrel type) 200x10 mm	each	180.00

Code No.	Description	Unit	Rate ₹
0402	Brass tower bolt (barrel type) 150x10 mm	each	145.00
0403	Brass tower bolt (barrel type) 100x10 mm	each	95.00
0408	Brass handles 125 mm with plate 175x32 mm	each	140.00
0409	Brass handles 100 mm with plate 150x32 mm	each	130.00
0410	Brass handles 75 mm with plate 125x32 mm	each	100.00
0411	Brass door latch 300x16x5 mm (0.380 kg)	each	165.00
0412	Brass door latch 250x16x5 mm (0.350 kg)	each	160.00
0413	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	370.00
0414	Brass mortice latch 100x65mm with a pair of brass lever handles	each	320.00
0423	Brass casement window fastener	each	50.00
0424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	135.00
0425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	110.00
0426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	100.00
0431	Brass hasps and staples (safety type) 150 mm	10 Nos	775.00
0432	Brass hasps and staples (safety type) 115 mm	10 Nos	650.00
0433	Brass hasps and staples (safety type) 90 mm	10 Nos	560.00
0438	Brass night latch	each	495.00
0447	Brass cupboard knob or wardrobe knob 50 mm	each	35.00
0449	Brass screws 50 mm	100 Nos	210.00
0450	Brass screws 40 mm	100 Nos	170.00
0451	Brass screws 30 mm	100 Nos	135.00
0452	Brass screws 25 mm	100 Nos	95.00
0453	Brass screws 20 mm	100 Nos	90.00
0555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	175.00
0556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	150.00
0557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	130.00
0558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	540.00
0568	Chromium plated brass casement window fastener	each	95.00
0569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	150.00
0570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	130.00

Code No.	Description	Unit	Rate ₹
0571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	115.00
0583	Chromium plated Brass Night latch	each	530.00
0584	Chromium plated Brass Wardrobe Knob 50 mm	each	48.00
0585	Chromium plated Brass screws 50 mm	100 Nos	240.00
0586	Chromium plated Brass screws 40 mm	100 Nos	200.00
0587	Chromium plated Brass screws 30 mm	100 Nos	155.00
0588	Chromium plated Brass screws 25 mm	100 Nos	120.00
0589	Chromium plated Brass screws 20 mm	100 Nos	100.00
0590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	190.00
0591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	260.00
0592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	350.00
0594	Bright finished or black enameled mild steel butt hinges 125x65x 2.12 mm	10 Nos	140.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x 1.90 mm	10 Nos	85.00
0596	Bright finished or black enameled mild steel butt hinges 75x47x 1.70 mm	10 Nos	60.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x 1.50 mm	10 Nos	50.00
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	40.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	65.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	50.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 Nos	40.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	35.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	30.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x 6 mm	each	7.00
0642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	140.00
0643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	90.00
0644	Oxidised mild steel butt hinges 75x47x1.70 mm	10 Nos	65.00
0645	Oxidised mild steel butt hinges 50x37x1.50 mm	10 Nos	55.00
0646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	340.00
0647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	315.00
0648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	235.00
0649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	200.00

Code No.	Description	Unit	Rate ₹
0650	Oxidised mild steel single acting spring hinges 150 mm	each	115.00
0651	Oxidised mild steel single acting spring hinges 125 mm	each	110.00
0652	Oxidised mild steel single acting spring hinges 100 mm	each	90.00
0653	Oxidised mild steel double acting spring hinges 150 mm	each	115.00
0654	Oxidised mild steel double acting spring hinges 125 mm	each	110.00
0655	Oxidised mild steel double acting spring hinges 100 mm	each	90.00
0656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	45.00
0660	Oxidised mild steel sliding door bolt 300x16 mm	each	95.00
0661	Oxidised mild steel sliding door bolt 250x16 mm	each	90.00
0662	Oxidised mild steel door latch 300x20x6 mm	each	48.00
0663	Oxidised mild steel door latch 250x20x6 mm	each	40.00
0664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	45.00
0665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	40.00
0666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	30.00
0667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	25.00
0668	Oxidised mild steel handles 125 mm	each	19.00
0669	Oxidised mild steel handles 100 mm	each	16.00
0670	Oxidised mild steel handles 75 mm	each	15.00
0679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 Nos	125.00
0680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 Nos	100.00
0681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 Nos	75.00
0682	Oxidised mild steel screws 50 mm	100 Nos	75.00
0683	Oxidised mild steel screws 40 mm	100 Nos	60.00
0684	Oxidised mild steel screws 30 mm	100 Nos	55.00
0685	Oxidised mild steel screws 25 mm	100 Nos	45.00
0686	Oxidised mild steel screws 20 mm	100 Nos	35.00
0687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	570.00
0688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	530.00
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	520.00
0690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	500.00
0691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	510.00
0692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	500.00
0693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	470.00
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	390.00
0696	Anodised Aluminium sliding door bolt 300x16 mm	each	160.00

Code No.	Description	Unit	Rate ₹
0697	Anodised Aluminium sliding door bolt 250x16 mm	each	130.00
0698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos	750.00
0700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	480.00
0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos	380.00
0702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	300.00
0703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	500.00
0704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	380.00
0705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	320.00
0706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	130.00
0713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	1700.00
0714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	1550.00
0715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	1400.00
0717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	1150.00
0718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	1000.00
0719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	900.00
0752	Block board construction flush door lipping	sqm of door area	300.00
0753	Square vision panel in Block board construction flush door	sqm of door area	115.00
0754	Circular vision panel in Block board construction flush door	sqm of door area	180.00
0755	Decorative type louvers in Block board construction flush door	sqm of door area	310.00
0757	Rebate cutting in block board construction flush door	sqm of door area	85.00
0759	Decorative plywood 4 mm	sqm	420.00
0763	Glue	kilogram	68.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	140.00
0869	Plaster of Paris	kilogram	4.00
1003	Mild steel round bar above 12 mm dia	quintal	4300.00
1008	Flats up to 10 mm in thickness	quintal	4200.00

Code No.	Description	Unit	Rate ₹
1015	Mild steel expanded metal 20x60 mm strands	sqm	290.00
1021	Hard drawn steel wire fabric	sqm	430.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	25.00
1189	Second class teak wood in scantling	10 cudm	660.00
1190	Second class teak wood in planks	10 cudm	725.00
1199	Sal wood in scantling	10 cudm	520.00
1200	Kiln seasoned selected sheesham wood planks	10 cudm	650.00
1211	G.I. plain washer for seam bolts	100 Nos	30.00
1231	Extra for selected planks of second class teakwood	10 cudm	130.00
1238	Extra for selected planks of first class teakwood	10 cudm	140.00
2204	Carriage of timber	cum	121.88
2205	Carriage of steel	tonne	94.80
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	330.00
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	500.00
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	360.00
2413	12 mm commercial ply	sqm	580.00
2414	18 mm thick block board with commercial ply veneering on both side	sqm	700.00
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	50.00
2451	Brass cupboard lock 6 levers of approved quality, 40 mm size	each	70.00
2452	Brass cupboard lock 6 levers of approved quality, 50 mm size	each	75.00
2453	Brass cupboard lock 6 levers of approved quality, 65 mm size	each	80.00
2454	Brass cupboard lock 6 levers of approved quality, 75 mm size	each	100.00
2455	Brass hanging type door stopper 150 mm	each	65.00
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	590.00
2459	Anodised Aluminium hanging type door stopper	each	25.00
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	50.00
2465	Anodised Aluminium Casement stay 250 mm	each	50.00
2466	Hollock wood in scantling	10 cudm	325.00
2468	Nickled Chromium Brass cupboard lock 40 mm size	each	65.00
2469	Nickled Chromium Brass cupboard lock 50 mm size	each	75.00
2470	Nickled Chromium Brass cupboard lock 65 mm size	each	85.00

Code No.	Description	Unit	Rate ₹
2471	Nickled Chromium Brass cupboard lock 75 mm size	each	110.00
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	1030.00
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	840.00
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	920.00
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	691.90
2485	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	922.50
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	1198.15
2487	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	641.25
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	860.65
2489	PVC edge bending tape 2.00 mm thick	metre	28.55
2500	Extra for selected planks of second class deodar wood	10 cudm	100.00
2504	Kiln seasoning of timber	cum	730.00
2505	Hollock wood in planks	10 cudm	370.00
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	260.00
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	315.00
7018	Joint tape roll	roll	145.00
7019	Dash fastener / Chemical fastner	each	15.00
7021	Primer ( for gypsum board)	litre	85.00
7023	Chromium plated brackets ( curtain rods)	each	7.00
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	250.00
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	330.00
7033	Nickel plated M.S. pipe 25 mm dia	metre	80.00
7034	Nickel plated M.S. pipe 20 mm dia	metre	70.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	7.00
7036	Nickel plated M.S - Brackets for curtain rod 25 mm	each	8.00

Code No.	Description	Unit	Rate ₹
7040	Oxidised mild steel screws 35 mm	100 Nos	50.00
7042	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia	metre	60.00
7043	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia	metre	70.00
7048	Rawl plug 50 mm (designation 10 nos)	each	10.00
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	22.00
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	420.00
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	50.00
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	65.00
7060	Hydraulic door closer tubular type Aluminium section body	each	840.00
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	22.00
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	20.00
7065	Oxidised M.S. casement stay (straight peg type) 200 mm not less than 0.24 kg	each	18.00
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1850.00
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 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 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2030.00
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 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 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1950.00
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	1650.00
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1630.00
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles &rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1450.00
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Code No.	Description	Unit	Rate ₹
7157	Laminated veneer lumber confirming to TADS 15:1995 manufactured in factory in frames of doors, windows	10 cudm	710.00
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	60.00
7269	25 mm thick particle board	sqm	480.00
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	40.00
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	940.00
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	340.00
7312	Expandable fastener with plastic sleeve and M.S. screws : 25 mm long	each	10.00
7313	Expandable fastener with plastic sleeve and M.S. screws : 32 mm long	each	11.00
7314	Expandable fastener with plastic sleeve and M.S. screws : 40 mm long	each	14.00
7315	Expandable fastener with plastic sleeve and M.S. screws : 50 mm long	each	15.00
7349	12 mm M.S. 'U' beading	metre	15.00
7366	Glass reinforced Gypsum (GRG) board 12.5 mm thick	sqm	240.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	60.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	75.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	50.00
7443	Aluminium single cleat of size 30x32x3 mm	each	14.00
7444	Aluminium grip strip of size 50x12x2 mm	each	11.00
7445	25 mm thick prelaminated flush door shutter both side decorative	sqm	830.00
7449	Aluminium U beading	kilogram	220.00
7451	Glass sheet (Pin headed) 4 mm thick	sqm	300.00
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	500.00
7477	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	740.00
7478	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	850.00
7479	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	930.00

Code No.	Description	Unit	Rate ₹
7480	Pre/aminated 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	780.00
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	42.00
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	54.00
7512	PTMT handle 125x34x24 mm	each	33.00
7513	PTMT handle 150x34x24 mm	each	40.00
7514	PTMT butt hinges 75x60x10 mm	each	47.00
7515	PTMT butt hinges 100x75x10 mm	each	62.00
7516	PTMT Tower bolt 152x42x18 mm	each	70.00
7517	PTMT Tower bolt 202x42x18 mm	each	85.00
7518	PTMT door catcher 72x42 mm	each	30.00
7552	Coir veneered board 4 mm thick	sqm	290.00
7553	Coir veneered board 6 mm thick	sqm	390.00
7555	Coir veneered board 12 mm thick	sqm	650.00
7556	Coir veneered board 18 mm thick	sqm	1030.00
8001	24 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2150.00
8002	30 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2250.00
8003	Factory made PVC rigid foam panelled shutter i/c carriage	sqm	2150.00
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	2550.00
8006	Factory made PVC rigid foam sheet 1 mm thick	sqm	185.00
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	150.00
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	350.00
8014	Factory made door frame of size 50x47 mm with wall thickness 5 mm made of single piece extruded profile	metre	490.00
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	85.00
8210	Stainless steel screws 50 mm	100 Nos	250.00
8211	Stainless steel screws 40 mm	100 Nos	200.00
8212	Stainless steel screws 30 mm	100 Nos	150.00
8214	Stainless steel screws 20 mm	100 Nos	100.00
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	250.00
8216	Stainless steel butt hinges 100x58x1.9 mm IS: 12817 marked	10 Nos	230.00

Code No.	Description	Unit	Rate ₹
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	150.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	130.00
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	330.00
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	240.00
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	195.00
8222	M.S. heavy weight butt hinges 125x90x4.0 mm IS: 1341 marked.	10 Nos	330.00
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos	170.00
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 Nos	90.00
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	75.00
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	40.00
8699	8 mm thick tapered edge calcium silicate board	sqm	368.00
8700	10 mm thick calcium silicate board	sqm	390.00
8703	Telescopic drawer channels 300 mm long	set	140.00
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/ cabinets shutter	each	8.00
8705	50 mmX42 mmX2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	140.00
8706	25 mm thick factory made PVC flush door shutter i/c carriage	sqm	2150.00
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage	metre	380.00
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage	sqm	1850.00
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both		
	side)	sqm	2650.00
8710	Factory made solid PVC door frame 62 x 32 mm i/c carriage	metre	290.00
8711	28 mm factory made solid PVC panel door shutter i/c carriage	sqm	2250.00
8712	30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish	sqm	2108.00
8713	Fiber glass reinforced plastic chajja	sqm	3600.00
8714	Magnetic catcher triple strip vertical type	each	20.00
8715	Magnetic catcher double strip horizontal type	each	15.00
8716	100 mm mortice lock with 6 levers for aluminium door	each	330.00
8717	12.5 mm thick Glass fibre reinforced Gypsum board	sqm	170.00

8719 8720 8721 8722 8723	<ul> <li>2nd class teak wood lipping / moulded beading or Taj beading of size 18X5 mm</li> <li>Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm</li> <li>Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm</li> <li>Nylon sleeves &amp; wooden screws (40 mm)</li> <li>Counter sunk ribbed head screw 25 mm</li> <li>12 mm thick marine plywood conforming to IS: 710</li> </ul>	metre metre metre each 100 Nos	30.00 40.00 25.00 2.00
8721 8722	and two flanges of 26 mm each with lips of 10.55 mm Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm Nylon sleeves & wooden screws (40 mm) Counter sunk ribbed head screw 25 mm 12 mm thick marine plywood conforming to IS: 710	metre each 100 Nos	25.00 2.00
8722	of 30 mm with thickness of 0.55 mm and web of length 27 mm Nylon sleeves & wooden screws (40 mm) Counter sunk ribbed head screw 25 mm 12 mm thick marine plywood conforming to IS: 710	each 100 Nos	2.00
	Counter sunk ribbed head screw 25 mm 12 mm thick marine plywood conforming to IS: 710	100 Nos	
8723	12 mm thick marine plywood conforming to IS: 710		7- 00
			75.00
8724		sqm	850.00
8725	12 mm thick fire retardant plywood conforming to IS: 5509	sqm	880.00
8726	1.5 mm thick decorative laminated sheet	sqm	490.00
8727	1.0 mm thick decorative laminated sheet	sqm	380.00
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	sqm	2150.00
8734	P.V.C. Single piece extruded door frame of profile size 50 mm x 47 mm with wall thickness of 5 mm	metre	350.00
8735	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile non decorative finished (Matt finished)	sqm	2100.00
8736	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (wood grain finished)	sqm	2600.00
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	830.00
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermuculite based concrete mix	metre	1000.00
8739	Fire rated door shuttere made with 16 SWG G.I. sheet( 60 minutes) without panel	sqm	5250.00
8740	Fire seal Putty	kg	700.00
8741	Clear fire resistant glass panes 6mm thick (60 minutes)	sqm	21000.00
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/ m <sup>2</sup> ) with ceramic tape of suitable thickness and fire resistant		
	primer coating	metre	260.00
8743	Matrix Mineral Board	metre	65.00
8744	Panic Bar / latch (Double point)	each	5000.00
8745	65 mm x 55 mm x 2 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	330.00
8746	37 mm thick Factory made shutter with style, rails and panels of PVC extruded section in white or grey finish i/c carriage	sqm	2350.00
8747	75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	350.00

Code No.	Description	Unit	Rate ₹
8748	37 mm thick Factory made fusion welded shutter with style, rails and panels of PVC extruded section in wooden finish	sqm	2450.00
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	160.00
8751	Zinc alloy (white powder coated) Touch Lock for uPVC windows	each	110.00
8752	Zinc alloy rollers for uPVC windows	each	50.00
8753	Zinc alloy rollers for uPVC door	each	85.00
8754	Zinc alloy (white powder coated) casement lock for uPVC windows	each	100.00
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	230.00
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	290.00
8757	Stainless steel friction hinge of size 300 mm x 19 x 1.9 mm for uPVC windows	each	370.00
8758	Stainless steel friction hinge of size 350 mm x 19 x 1.9 mm for uPVC windows	each	420.00
8759	Stainless steel friction hinge of size 400 mm x 19 x 1.9 mm for uPVC windows	each	530.00
8760	uPVC extruded profile casement window Frame (50 mm x 50 mm)	metre	165.00
8761	uPVC extruded profile casement window sash (Style and Rail) (62 mm x 34 mm)	metre	150.00
8762	uPVC extruded profile casement window mullion (intermediate section) (66 mm x 50 mm)	metre	185.00
8763	uPVC extruded profile casement window 'T' profile (one vertical length in between two shutters) (24 mm x 34.5 mm)	metre	50.00
8764	uPVC extruded profile casement window glazing bead (12 mm x 18 mm)	metre	50.00
8765	uPVC extruded profile casement window Frame (67 mm x 62 mm)	metre	235.00
8766	uPVC extruded profile casement Window Sash/Mullion ( 67 mm x 75 mm)(Style,rail and intermediate section)	metre	265.00
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm)	metre	85.00
8768	uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm)	metre	245.00
8769	uPVC extruded profile Sliding window Sash (60 mm x 44 mm)	metre	230.00
8770	uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm)	metre	50.00
8771	uPVC extruded profile Sliding Door Sash (80 mm x 44 mm)	metre	290.00

Code No.	Description	Unit	Rate ₹
8772	Aluminium Track on bottom rail for uPVC window	metre	25.00
8773	Wool Pine for uPVC window	metre	18.00
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	50.00
9999	Sundries	L.S.	1.70

Code No.	Descrip	otion	Unit	Rate ₹
	species	Wood work items may be substituted with available s of wood as per direction of Engineer-in-charge for which hall be derived from the relevant items.		
	FRAME	ES AND TRUSSES		
9.1	and oth lugs or	ng wood work in frames of doors, windows, clerestory windows er frames, wrought framed and fixed in position with hold fast with dash fasteners of required dia & length ( hold fast lugs or stener shall be paid for separately).		
	9.1.1	Second class teak wood	cum	90,495.80
	9.1.2	Salwood	cum	73,331.40
	9.1.3	Kiln seasoned and chemically treated hollock wood	cum	50,810.85
9.2	2001(F window hold fas	g laminated veneer lumber conforming to IS:14616 and TAD -15: Part B) in factory made frames of doors, windows, clerestory s and other frames, wrought framed and fixing in position with t lugs or with dash fasteners of required dia & length (hold fast dash fastener shall be paid for separately).	cum	93,979.20
9.3		ng wood work in frames of false ceiling, partitions etc. sawn and position :		
	9.3.1	Salwood	cum	69,114.60
	9.3.2	Kiln seasoned and chemically treated hollock wood	cum	46,436.80
9.4	Extra fo light :	r additional labour for circular works, such as in frames of fan		
	9.4.1	Second class teak wood	cum	9,049.15
	9.4.2	Salwood	cum	7,332.80
	9.4.3	Kiln seasoned and chemically treated hollock wood	cum	5,080.85
9.5	window butt hin excludir	ing and fixing panelled or panelled and glazed shutters for doors, is and clerestory windows, including ISI marked M.S. pressed iges bright finished of required size with necessary screws, ing panelling which will be paid for separately, all complete as ction of Engineer-in-charge.		
	9.5.1	Second class teak wood		
	9.5.1.1	35 mm thick shutters	sqm	2,563.75
	9.5.1.2	30 mm thick shutters	sqm	2,290.40
	9.5.2	Kiln seasoned and chemically treated hollock wood		
	9.5.2.1	35 mm thick shutters	sqm	1,618.55
	9.5.2.2	30 mm thick shutters	sqm	1,476.05
	9.5.3	Kiln seasoned selected planks of sheesham wood		
	9.5.3.1	35 mm thick shutters	sqm	2,378.10
	9.5.3.2	30 mm thick shutters	sqm	2,115.50
9.6	door sh	ng and fixing 35 mm thick factory made laminated veneer lumber nutter conforming to IS : 14616 and TADS 15:2001 (Part B), g ISI marked M.S. pressed butt hinges bright finished of required		

### 9.0 WOOD AND P. V. C. WORK

Code No.	Descrip	tion	Unit	Rate ₹
	size with necessary screws, all complete as per directions of Engineer- in-charge and panelling with panels of :			
	9.6.1	12 mm 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	2,428.45
	9.6.2	12 mm thick pre-laminated 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- I, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade 1, Type - II marked :	sqm	2,637.50
	9.6.3	12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides 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 pre-laminated conforming to IS : 12823, Grade -1, Type II marked :	sqm	2,544.60
9.7	panelled (Area of rebates	g and fixing panelling or panelling and glazing in panelled or and glazed shutters for doors, windows and clerestory windows opening for panel inserts excluding portion inside grooves or to be measured). Panelling for panelled or panelled and glazed 25 mm to 40 mm thick :	-	
	9.7.1	Second class teak wood	sqm	2,056.10
	9.7.2	Kiln seasoned and chemically treated hollock wood	sqm	1,293.60
	9.7.3	Ply wood 5 ply, 9 mm thick		
	9.7.3.1	Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type	sqm	1,863.00
	9.7.3.2	Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type	sqm	1,595.50
	9.7.4	Ply wood 7 ply, 9 mm thick		
	9.7.4.1	Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type	sqm	1,708.15
	9.7.5	Particle Board 12 mm thick		
	9.7.5.1	Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, IS : 3087 marked	sqm	870.45
	9.7.5.2	Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS:3097, grade I	sqm	1,116.80
	9.7.5 .3	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II IS: 12823 marked	sqm	1,454.70
	9.7.5.4	Pre-laminated particle board with decorative lamination on both sides, Grade I, Type II, IS:12823 marked	sqm	1,511.05

Code No.	Descrip	tion	Unit	Rate ₹
	9.7.6	Coir Veneer Board (conforming to IS 14842)		
	9.7.6.1	12 mm thick	sqm	1,328.00
	9.7.7	Float glass panes		
	9.7.7.1	4 mm thick glass pane	sqm	1,098.10
	9.7.7.2	5.5 mm thick glass panes	sqm	1,317.50
	9.7.8	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4 mm wide aperture with matching wood beading	sqm	1,549.30
9.8	Deleted			
9.9	windows	g and fixing glazed shutters for doors, windows and clerestory s using 4 mm thick float glass panes, including ISI marked M.S. I butt hinges bright finished of required size with necessary		
	9.9.1	Second class teak wood		
	9.9.1.1	35 mm thick	sqm	3,112.90
	9.9.1.2	30 mm thick	sqm	2,800.50
	9.9.2	Kiln seasoned and chemically treated hollock wood		
	9.9.2.1	35 mm thick	sqm	2,036.80
	9.9.2.2	30 mm thick	sqm	1,873.95
	9.9.3	Kiln seasoned selected planks of sheesham wood		
	9.9.3.1	35 mm thick	sqm	2,901.75
	9.9.3.2	30 mm thick	sqm	2,618.45
9.10	conform float gla ISI marl	g and fixing factory made laminated veneer lumber glazed shutter hing to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick ss panes for doors, windows and clerestory windows, including ked M.S. pressed butt hinges bright finished of required size cessary screws, all as per directions of Engineer-in-charge.		
	9.10.1	30 mm thick shutters	sqm	2,196.15
9.11	float gla	r providing heavy sheet float glass panes instead of ordinary ss in glazed doors, windows and clerestory window shutters. opening for glass panes excluding portion inside rebate shall sured)		
	9.11.1	5.5 mm thick instead of 4 mm thick.	sqm	197.45
9.12	float gla shutters	r providing frosted glass panes 4 mm thick instead of ordinary ss panes 4 mm thick in doors, windows and clerestory window . (Area of opening for glass panes excluding portion inside rebate	0.000	5 00
9.13	Deduct	measured). for providing pin headed glass panes instead of ordinary float	sqm	5.80
	window	anes weighing 4 mm thick in doors, windows and clerestory s shutters (Area of opening for glass panes excluding portion abate shall be measured).	sqm	34.85
9.14	M.S. pre	r providing ISI marked Stainless Steel butt hinges instead of essed butt hinges bright finished of required size with necessary (Shutter area to be measured).	sqm	100.35
9.15		or not providing hinges in doors, windows or clerestory window	·	
	9.15.1	Stainless steel butt hinges with stainless steel screws :		

Code No.	Descrip	tion	Unit	Rate ₹
	9.15.1.1	For 2nd class teak wood and other class of wood shutters	sqm	147.35
	9.15.2	ISI marked M.S. pressed butt hinges bright finished of required size		
	9.15.2.1	For 2nd class teak wood and other class of wood shutters	sqm	47.00
9.16	Providir	ng and fixing 25 mm thick shutters for cup board etc. :		
	9.16.1	Panelled or panelled & glazed shutters :		
	9.16.1.1	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws	sqm	2,617.25
	9.16.1.2	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	2,648.40
	9.16.2	Glazed shutters :		
	9.16.2.1	Second class teak wood including ISI marked anodized aluminium butt hinges with necessary screws	sqm	2,615.00
	9.16.2.2	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	2,587.60
9.17	exterior to frame	g and fixing flat pressed 3 layer particle board medium density grade (Grade I) or graded wood particle board IS : 3087 marked, e, backing or studding with screws etc. complete (Frames, or studding to be paid separately) :		
	9.17.1	12 mm thick	sqm	510.95
	9.17.2	18 mm thick	sqm	628.60
9.18	particle side dec exterior whereve	g and fixing Pre-laminated flat pressed 3 layer (medium density) board or graded wood particle board IS : 3087 marked, with one corative and other side balancing lamination Grade I, Type II grade IS : 12823 marked, in shelves with screws and fittings er required, edges to be painted with polyurethane primer (fittings id separately).		
	9.18.1	18 mm thick	sqm	1,176.70
	9.18.2	25 mm thick	sqm	1,277.25
9.19	Deleted			
9.20	2202 (P frame o	g and fixing ISI marked flush door shutters conforming to IS : Part I) decorative type, core of block board construction with f 1st class hard wood and well matched teak 3 ply veneering tical grains or cross bands and face veneers on both faces of s.		
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	2,323.55
	9.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	2,149.35
	9.20.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	sqm	1,964.45
9.21	2202 (P	g and fixing ISI marked flush door shutters conforming to IS : art I) non-decorative type, core of block board construction with f 1st class hard wood and well matched commercial 3 ply		

Code No.	Descripti	on	Unit	Rate ₹
	veneering with vertical grains or cross bands and face veneers on both faces of shutters :			
		35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1,684.75
		30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1,510.55
		25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	1,383.70
9.22		roviding and fixing flush doors with decorative veneering instead corative ISI marked flush door shutters conforming to IS: 2202		
	9.22.1	On one side only	sqm	394.90
9.23	minimum	providing lipping with 2nd class teak wood battens 25 mm depth on all edges of flush door shutters (over all area of door be measured).	sqm	348.45
9.24		providing vision panel not exceeding 0.1 sqm in all type of flush ost of glass excluded) (overall area of door shutter to be d):		
	9.24.1	Rectangular or square	sqm	133.55
	9.24.2	Circular	sqm	209.05
9.25		vers (not exceeding 0.2 sqm) are provided in flush door shutters rea of door shutters to be measured).		
	9.25.1	Decorative type door	sqm	360.05
9.26	Extra for c be measu	utting rebate in flush door shutters (Total area of the shutter to red).	sqm	98.75
9.27	gauge of a of dia 0.63	and fixing wire gauge shutters using galvanized M.S. wire average width of aperture 1.4 mm in both directions with wire 3 mm, for doors, windows and clerestory windows with hinges ssary screws :		
	9.27.1	35 mm thick shutters		
	9.27.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
	9.27.1.1.1	Second class teak wood	sqm	2,914.00
	9.27.1.1.2	2 Kiln seasoned and chemically treated hollock wood	sqm	1,961.15
	9.27.1.1.3	8 Kiln seasoned selected class of sheesham wood	sqm	2,726.85
	9.27.1.2	With ISI marked stainless steel butt hinges of required size		
	9.27.1.2.1	Second class teak wood	sqm	3,014.30
	9.27.1.2.2	2 Kiln seasoned and chemically treated hollock wood	sqm	2,061.50
	9.27.1.2.3	8 Kiln seasoned selected class of sheesham wood	sqm	2,827.20
	9.27.2	30 mm thick shutters		
	9.27.2.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
	9.27.2.1.1	Second class teak wood	sqm	2,575.40
	9.27.2.1.2	2 Kiln seasoned and chemically treated hollock wood	sqm	1,761.05

Code No.	Description		Unit	Rate ₹
	9.27.2.1.3 Ki	In seasoned selected class of sheesham wood	sqm	2,415.25
	9.27.2.2 W	ith ISI marked stainless steel butt hinges of required size	·	
		econd class teak wood	sqm	2,675.75
	9.27.2.2.2 Ki	In seasoned and chemically treated hollock wood	sqm	1,861.30
		In seasoned selected class of sheesham wood	sqm	2,515.60
9.28	Deleted.			
9.29	Deleted.			
9.30	Deleted.			
9.31	conforming to galvanised win directions with and clerestory	I fixing wire gauge laminated veneer lumber shutters IS : 14616, and as per TADS 15 :2001 (Part B) using re gauge with average width of aperture 1.4 mm in both wire of dia 0.63 mm as per IS :1568, for doors, windows windows, including ISI marked M.S. pressed butt hinges of required size with necessary screws, as per directions -charge:		
	9.31.1 35 m	nm thick shutters	sqm	2,172.90
	9.31.2 30 m	nm thick shutters	sqm	1,963.85
	MISCELLANE	EOUS-WOOD WORK		
9.32		50x50 mm 2nd class teak wood plugs including cutting d fixing in cement mortar 1:3 (1 cement : 3 fine sand) and the walls etc.	each	19.70
9.33	plastic sleeves	ixing expandable fasteners of specified size with necessary s and galvanised M.S. screws including drilling holes in (/CC/ R.C.C. and making good etc. complete.		
	9.33.1 25 m	ım long	each	15.70
	9.33.2 32 m	im long	each	17.90
	9.33.3 40 m	im long	each	21.40
	9.33.4 50 m	im long	each	22.55
9.34		ixing 2nd class teak wood plain lining tongued and grooved, den plugs complete with necessary screws and priming osed surface.		
	9.34.1 40 m	nm thick	sqm	4,730.65
	9.34.2 25 m	nm thick	sqm	3,070.55
	9.34.3 20 m	nm thick	sqm	2,483.25
	9.34.4 12 m	nm thick	sqm	1,597.90
9.35	particle board lamination and 12823 marked	ixing in wall lining flat pressed three layer (medium density) d or graded wood Pre-laminated one side decorative d other side balancing lamination Grade I, Type II, IS : d, including priming coat on unexposed surface, with ng arrangement and screws etc. complete :		
	9.35.1 12 m	nm thick	sqm	1,151.10
	9.35.2 18 m	nm thick	sqm	1,291.60
	9.35.3 25 m	nm thick	sqm	1,393.85

Code No.	Description	Unit	Rate ₹
9.36	Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.		
	9.36.1 Kiln seasoned and chemically treated hollock wood	cum	91,975.40
9.37	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :		
	9.37.1 Decorative veneer facings of approved manufacture	sqm	1,095.75
9.38	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	914.55
9.39	Providing and fixing skirting with Pre-laminated (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 :		
	9.39.1 18 mm thick	sqm	1,480.65
	9.39.2 25 mm thick	sqm	1,582.85
9.40	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :		
	9.40.1 2nd class teak wood		
	9.40.1.1 50x12 mm	metre	110.50
	9.40.1.2 50 x 20 mm	metre	148.10
	9.40.2 Kiln seasoned and chemically treated hollock wood		
	9.40.2.1 50x12 mm	metre	83.30
	9.40.2.2 50x20 mm	metre	102.75
9.41	Providing and fixing plain jaffri of 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with :		
	9.41.1 Second class teak wood	sqm	1,702.60
9.42	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 25x3 mm M.S. flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.	metre	333.25
9.43	Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842, including top cover of 6 mm coir veneer board, nickle plated M.S. Pipe 20 mm dia. (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. Flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.	metre	451.30

Code No.	Descrip	tion	Unit	Rate ₹
9.44	Extra for using veneered particle board conforming to IS 3097 Grade I, in item of pelmet 18mm thick 150mm wide.			
	9.44.1	Non decorative veneer on both sides	metre	31.60
	9.44.2	Particle board with decorative veneering on both sides	metre	92.90
9.45	Providir	ng and fixing teak wood lipping of size 25x3 mm in pelmet.	metre	44.65
9.46	brass pl	g and fixing curtain rods of 1.25 mm thick chromium plated late, with two chromium plated brass brackets fixed with C.P. crews and wooden plugs, etc., wherever necessary complete :		
	9.46.1	12 mm dia	metre	258.25
	9.46.2	20 mm dia	metre	339.55
	9.46.3	25 mm dia	metre	444.10
9.47		g and fixing nickel plated M.S. pipe curtain rods with nickel rackets :		
	9.47.1	20 mm dia (heavy type)	metre	113.25
	9.47.2	25 mm dia (heavy type)	metre	126.00
9.48	etc. with	g and fixing M.S. grills of required pattern in frames of windows n M.S. flats, square or round bars etc. including priming coat proved steel primer all complete.		
	9.48.1	Fixed to steel windows by welding	kg	103.15
	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	kg	110.95
9.49	and 1.6	g and fixing expanded metal 20x60 mm strands 3.25 mm wide mm thick for windows etc. including 62 x19 mm beading of II nd eak wood and priming coat with approved steel primer all e.	sqm	905.90
9.50	Providin weight r 62x19 n	g and fixing hard drawn steel wire fabric 75x25 mm mesh of not less than 7.75 Kg per sqm to window frames etc. including nm beading of second class teak wood and priming coat with ed steel primer all complete.	sqm	1,075.20
9.51	and cler	g and fixing fly proof galvanized M.S. wire gauge to windows estory windows using wire gauge with average width of aperture in both directions with wire of dia 0.63 mm all complete.		
	9.51.1	With 2nd class teak wood beading 62X19 mm	sqm	820.80
	9.51.2	With 12 mm mild steel U beading	sqm	548.75
9.52	less tha	for fixing 75x25 mm hard drawn steel wire fabric of weight not in 7.75 Kg per sqm in panelled and glazed door and window instead of glass sheet 4 mm thick.	sqm	116.15
9.53	frame wi	g 40x5 mm flat iron hold fast 40 cm long including fixing to ith 10 mm diameter bolts, nuts and wooden plugs and embedding nt concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse graded stone aggregate 20mm nominal size).	each	110.20
9.54		g beams including hoisting, fixing in position and applying wood ative for the unexposed surfaces, etc. complete with :		
	9.54.1	Salwood	cum	67,307.30
	9.54.2	Hollock wood	cum	44,200.60

Code No.	Descrip	tion	Unit	Rate ₹
	BRIGH	T FINISHED M.S. FITTINGS		
9.55		g and fixing ISI marked M.S. pressed butt hinges bright finished cessary screws etc. complete :		
	9.55.1	125x65x2.12 mm	each	31.80
	9.55.2	100x58x1.90 mm	each	24.05
	9.55.3	75x47x1.70 mm	each	19.10
	9.55.4	50x37x1.50 mm	each	10.75
9.56		g and fixing ISI marked, IS : 1341, M.S. heavy weight butt hinges cessary screws etc. complete :		
	9.56.1	125x90x4.00 mm	each	53.90
	9.56.2	100x75x3.50 mm	each	33.90
	9.56.3	75x60x3.10 mm	each	22.55
	9.56.4	50x40x2.50 mm	each	13.65
		In coastal areas, M.S. heavy weight butt hinges or stainless nges shall be used.		
		OXIDISED MILD STEEL FITTINGS (COPPER OXIDISED R IS: 1378)		
9.57		g and fixing ISI marked oxidised M.S. pressed butt hinges with ary screws etc. complete.		
	9.57.1	125x65x2.12 mm	each	32.90
	9.57.2	100x58x1.90 mm	each	25.55
	9.57.3	75x47x1.70 mm	each	20.70
	9.57.4	50x37x1.50 mm	each	11.55
9.58		g and fixing ISI marked oxidised M.S. pressed Parliamentary with necessary screws etc. complete :		
	9.58.1	150x125x27x2.80 mm	each	56.30
	9.58.2	125x125x27x2.80 mm	each	53.40
	9.58.3	100x125x27x2.80 mm	each	44.10
	9.58.4	75x100x20x2.24 mm	each	38.30
9.59		g and fixing ISI marked oxidised M.S. single acting spring hinges cessary screws etc. complete :		
	9.59.1	150 mm	each	164.75
	9.59.2	125 mm	each	158.95
	9.59.3	100 mm	each	134.30
9.60		g and fixing oxidised M.S. double acting spring hinges with ary screws etc. complete.		
	9.60.1	150 mm	each	164.75
	9.60.2	125 mm	each	158.95
	9.60.3	100 mm	each	134.30
9.61		g M.S. Piano hinges ISI marked IS : 3818 finished with nickel and fixing with necessary screws etc., complete.		
	9.61.1	Overall width 35 mm	metre	157.80

Code No.	Description		Unit	Rate ₹
	9.61.2 Ove	erall width 50 mm	metre	154.30
	9.61.3 Ove	erall width 65 mm	metre	168.25
9.62	Providing an nuts and scr	d fixing ISI marked oxidised M.S. sliding door bolts with ews etc. complete :		
	9.62.1 300	Dx16 mm	each	161.55
	9.62.2 250	Dx16 mm	each	154.60
9.63		d fixing ISI marked oxidised M.S. tower bolt black finish, with necessary screws etc. complete :		
	9.63.1 250	Dx10 mm	each	63.55
	9.63.2 200	Dx10 mm	each	56.30
	9.63.3 150	Dx10 mm	each	43.40
	9.63.4 100	Dx10 mm	each	36.75
9.64		d fixing ISI marked 85x42 mm oxidised M.S. pull bolt lock o IS : 7534 with necessary screws bolts, nut and washers e.	each	69.80
9.65		d fixing ISI marked oxidised M.S. door latches conforming ith screws etc. complete :		
	9.65.1 300	0x20x6 mm	each	66.20
	9.65.2 250	0x20x6 mm	each	56.90
9.66		d fixing ISI marked oxidised M.S. handles conforming to necessary screws etc. complete :		
	9.66.1 125	5 mm	each	27.20
	9.66.2 100	) mm	each	23.55
	9.66.3 75	mm	each	22.40
9.67		nd fixing oxidised M.S. hasp and staple (safety type) to IS : 363 with necessary screws etc. complete :		
	9.67.1 150	) mm	each	22.40
	9.67.2 115	5 mm	each	19.00
	9.67.3 90	mm	each	16.10
9.68		d fixing oxidised M.S. casement stays (straight peg type) ary screws etc. complete.		
	9.68.1 300	) mm weighing not less than 200 gms	each	32.50
	9.68.2 250	) mm weighing not less than 150 gms	each	29.70
	9.68.3 200	) mm weighing not less than 120 gms	each	27.35
9.69		d fixing oxidised M.S. Safety chain with necessary fixtures eighting not less than 450 gms).	each	77.20
	STAINLESS	STEEL FITTINGS		
9.70		d fixing IS : 12817 marked stainless steel butt hinges with el screws etc. complete :		
	9.70.1 125	5x64x1.90 mm	each	61.80
	9.70.2 100	)X58X1.90 mm	each	54.80
	9.70.3 75x	(47x1.80 mm	each	37.20
	9.70.4 50x	(37x1.50 mm	each	23.30

Code No.	Descrip	tion	Unit	Rate ₹
9.71	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :			
	9.71.1	125x64x2.50 mm	each	71.05
	9.71.2	100x60x2.50 mm	each	55.95
	9.71.3	75x50x2.50 mm	each	42.45
	BRASS	FITTINGS		
9.72		g and fixing bright finished brass butt hinges with necessary etc. complete :		
	9.72.1	125x85x5.5 mm (heavy type)	each	395.00
	9.72.2	125x70x4 mm (ordinary type)	each	133.70
	9.72.3	100x85x5.5 mm (heavy type)	each	345.60
	9.72.4	100x70x4 mm (ordinary type)	each	107.50
	9.72.5	75x65x4 mm (heavy type)	each	130.15
	9.72.6	75x40x2.5 mm (ordinary type)	each	69.75
	9.72.7	50x40x2.5 mm (ordinary type)	each	29.10
9.73		g and fixing bright finished brass parliamentary hinges with ary screws etc. complete :		
	9.73.1	150x125x27x5 mm	each	358.60
	9.73.2	125x125x27x5 mm	each	317.95
	9.73.3	100x125x27x5 mm	each	294.70
	9.73.4	75x100x20x3.2 mm	each	224.45
9.74		g and fixing bright finished brass tower bolts (barrel type) with ary screws etc. complete :		
	9.74.1	250x10 mm	each	288.30
	9.74.2	200x10 mm	each	226.70
	9.74.3	150x10 mm	each	186.05
	9.74.4	100x10 mm	each	124.85
9.75	Providing etc. con	g and fixing bright finished brass door latch with necessary screws nplete:		
	9.75.1	300x16x5 mm	each	207.80
	9.75.2	250x16x5 mm	each	201.95
9.76	with 6 l	g and fixing bright finished brass 100 mm mortice latch and lock evers and a pair of lever handles of approved quality with ary screws etc. complete.	each	514.55
9.77	dead bo	g and fixing bright finished brass 100 mm mortice latch with one It and a pair of lever handles of approved quality with necessary etc. complete.	each	456.45
9.78	Providin	g and fixing bright finished brass night latch of approved quality g necessary screws etc. complete.	each	659.75
9.79	ward rot	g and fixing special quality bright finished brass cupboard or be locks with four levers of approved quality including necessary etc. complete.		
	9.79.1	40 mm	each	166.10

Code No.	Description	Unit	Rate ₹
	9.79.2 50 mm	each	171.90
	9.79.3 65 mm	each	177.70
	9.79.4 75 mm	each	200.95
9.80	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with necessary screws.	each	47.60
9.81	Providing and fixing bright finished brass handles with screws etc. complete :		
	9.81.1 125 mm	each	170.30
	9.81.2 100 mm	each	158.35
	9.81.3 75 mm	each	123.50
9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	each	79.60
9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	each	737.35
9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	1,027.20
9.85	Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.	each	67.25
9.86	Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete :		
	9.86.1 300 mm weighing not less than 330 gms	each	167.80
	9.86.2 250 mm weighing not less than 280 gms	each	136.90
	9.86.3 200 mm weighing not less than 240 gms	each	125.30
9.87	Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete :		
	9.87.1 150 mm	each	102.85
	9.87.2 115 mm	each	86.85
	9.87.3 90 mm	each	76.35
	CHROMIUM PLATED BRASS FITTINGS		
9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	712.00
9.89	Providing and fixing chromium plated brass night latch of approved quality including necessary screws etc. complete.	each	700.40
9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.		
	9.90.1 Size 40 mm	each	160.30
	9.90.2 Size 50 mm	each	171.90
	9.90.3 Size 65 mm	each	183.50
	9.90.4 Size 75 mm	each	212.55

Code No.	Descrip	otion	Unit	Rate ₹
9.91	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.		each	62.70
9.92		ng and fixing chromium plated brass handles with necessary etc. complete:		
	9.92.1	125 mm	each	210.95
	9.92.2	100 mm	each	181.55
	9.92.3	75 mm	each	158.35
9.93		ng and fixing chromium plated brass casement window fastener cessary screws etc. complete.	each	120.65
9.94		ng and fixing chromium plated brass casement stays (straight e) with necessary screws etc. complete :		
	9.94.1	300 mm weighing not less than 330 gms	each	184.55
	9.94.2	250 mm weighing not less than 280 gms	each	161.30
	9.94.3	200 mm weighing not less than 240 gms	each	143.90
	ANODIS ISI MA	SED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE RKED)		
9.95	coating	g and fixing ISI marked aluminium butt hinges anodised (anodic not less than grade AC 10 as per IS : 1868) transparent or dyed red colour or shade with necessary screws etc. complete:		
	9.95.1	125x75x4 mm	each	104.30
	9.95.2	125x63x4 mm	each	99.65
	9.95.3	100x75x4 mm	each	89.00
	9.95.4	100x63x4 mm	each	87.85
	9.95.5	100x63x3.2 mm	each	86.70
	9.95.6	75x63x4 mm	each	78.75
	9.95.7	75x63x3.2 mm	each	75.25
	9.95.8	75x45x3.2 mm	each	65.95
		Aluminum hinges shall not be used in wooden shutters, ss steel hinges shall be preferred.		
9.96	coating	g and fixing aluminium sliding door bolts, ISI marked anodised (anodic not less than grade AC 10 as per IS : 1868), transparent or dyed to d colour or shade, with nuts and screws etc. complete :		
	9.96.1	300x16 mm	each	215.30
	9.96.2	250x16 mm	each	180.45
9.97	coating	g and fixing aluminium tower bolts, ISI marked, anodised (anodic not less than grade AC 10 as per IS : 1868 ) transparent or dyed red colour or shade, with necessary screws etc. complete :		
	9.97.1	300x10 mm	each	108.10
	9.97.2	250x10 mm	each	90.65
	9.97.3	200x10 mm	each	76.40
	9.97.4	150x10 mm	each	62.75
	9.97.5	100x10 mm	each	49.85
9.98		g and fixing aluminium pull bolt lock, ISI marked, anodised (anodic not less than grade AC 10 as per IS : 1868) transparent or dyed		

Code No.	Description	Unit	Rate ₹
	to required colour and shade, with necessary screws bolts, nut and washers etc. complete.		69.80
9.99	Providing and fixing 50 cm long aluminium kicking plate of size 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.	each	162.55
9.100	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 :		
	9.100.1 125 mm	each	66.95
	9.100.2 100 mm	each	52.80
	9.100.3 75 mm	each	44.90
9.101	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.		
	9.101.1 Single rubber stopper	each	33.75
	9.101.2 Twin rubber stopper	each	80.20
9.102	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.	each	68.40
9.103	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 of approved quality with necessary screws etc. complete.	each	754.45
9.104	Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod.	metre	62.20
	GYPSUM BOARD PARTITIONS		
9.105	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/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm 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 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs 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, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher		

Code No.	Description	Unit	Rate ₹
	and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.		
	9.105.1 75 mm overall thickness partition with 12.5 mm th skin fire rated board conforming to IS: 2095: part		1,253.35
	9.105.2 75mm overall thickness partition with 12.5 mm th skin tapered edged plain Gypsum board conform 2095: part I		1,090.75
	9.105.3 66mm overall thickness Partition with 8mm thick of Calcium Silicate Board made with Calcareous a materials reinforced with cellulose fiber manufactu autoclaving process with Compressive Strength 22 Bending Strength 100 kg./ sq.cm	& Siliceous red through	1,550.70
	9.105.4 66mm overall thickness partition using 8mm thick non- asbestos multipurpose cement board rein cellulose fibre manufactured through autoclaving pro- pressure steam cured) as per IS: 14862 with su cement screws	forced with ocess (High	1,276.60
9.106	Providing and fixing PTMT handles with necessary screws etc		1,270.00
	9.106.1 125x34x24 mm weighing not less than 23 gms	each	39.55
	9.106.2 150x34x24 mm weighing not less than 26 gms	each	44.15
9.107	Providing and fixing PTMT Butt hinges with necessary s complete.	screws etc.	
	9.107.1 75x60x10 mm fitted with 5.5 mm dia M.S. Brig weighing not less than 34 gms	ht Bar Rod each	60.90
	9.107.2 100x75x10 mm fitted with 5.5 mm dia MS Bright weighing not less than 53 gms	Bar Rod each	79.20
9.108	Providing and fixing PTMT Tower Bolts with 12 mm one piec and necessary screws etc., complete.	e rod inside	
	9.108.1 152x42x18 mm weighing not less than 60 gms	each	82.20
	9.108.2 202x42x18 mm weighing not less than 78 gms	each	101.35
9.109	Providing and fixing PTMT door catcher of length 72 mm an mm with suitable washers weighing not less than 33 gms	id dia. of 42 each	34.10
9.110	Providing and fixing Bamboo jaffery/ fencing consisting of sup 25 mm dia (Average) half cut bamboo placed vertically and fix with three numbers horizontal running members of hollo scantling of section 50X25 mm, fixed with nails and G.I wire support complete as per direction of Engineer-in-charge.	ed together ck wood in	382.10
9.111	Providing and fixing wooden moulded corner beading of triang to the junction of panelling etc. with iron screws, plugs and p on unexposed surface etc. complete 2nd class teak wood.	riming coat	
	9.111.1 50x50 mm (base and height)	metre	188.30
9.112	Providing and fixing 2nd class teak wood lipping/ moulded be beading of size 18X5 mm fixed with wooden adhesive of appro and screws/ nails on the edges of the Pre-laminated partic per direction of Engineer-in-charge.	oved quality	53.95
9.113	Providing and fixing bright finished 100 mm mortice 6 levers without pair of handles of approved quality for door, with necessary screws etc complete as per direction of	aluminium f Engineer-	
	in-charge.	each	447.80

Code No.	Descrip	tion	Unit	Rate ₹
9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete.			
	9.114.1	Triple strip vertical type	each	28.35
	9.114.2	Double strip (horizontal type)	each	22.55
9.115	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer-in-charge.		one set	186.20
9.116	shutter	g and fixing sliding arrangement in racks/ cupboards/cabinets by with stainless steel rollers to run inside C or E aluminium section (The payment of C or E channel shall be made separately)	each	11.35
9.117	extruded ±1mm), frame to joints m reinforce mm) wa	g and fixing factory made uPVC door frame made of uPVC d sections having an overall dimension as below (tolerance with wall thickness 2.0 mm ( $\pm$ 0.2 mm), corners of the door be Jointed with galvanized brackets and stainless steel screws, itred and Plastic welded. The hinge side vertical of the frames ed by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm$ 0.1 II thickness and 3 nos. stainless steel hinges fixed to the frame e as per manufacturer's specification and direction of Engineer-e		
	9.117.1	Extruded section profile size 48x40 mm	metre	199.55
	9.117.2	Extruded section profile size 42x50 mm	metre	187.95
9.118		g and fixing to existing door frames.		
	9.118.1 9.118.2	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 ( $\pm$ 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm$ 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. 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). 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size	sqm	2,645.70
		60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter		

Code No.	Description	Unit	Rate ₹
	frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	sqm	2,761.85
	9.118.3 25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted 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 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places	sqm	2,645.70
9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. 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 M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.	metre	433.10
9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm 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.		
	9.120.1 30 mm thick plain PVC door shutters	sqm	2,675.15

Code No.	Description	Unit	Rate ₹
9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness .The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat . Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.		467.95
9.122	Providing and fixing to existing door frames.		
	9.122.1 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 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	sqm	2,326.70
	9.122.2 30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm 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, complete as per direction of Engineer-in-charge.	sqm	2,675.15
9.123	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.	metre	363.40
9.124	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mmx 1 mm, painted with primer , all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge.		
	9.124.1 Non decorative finish	sqm	2,626.40
	9.124.2 Decorative finish (both side wood grained finish)	sqm	3,255.90
9.125	Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.	sqm	738.90

Code No.	Description	Unit	Rate ₹
9.126	Providing and fixing 12 mm 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 25 mm to 40 mm thick.		
	9.126.1 Marine plywood conforming to IS: 710	sqm	1,585.55
	9.126.2 Fire retardant plywood conforming to IS: 5509	sqm	1,627.15
9.127	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.		
	9.127.1 1.5 mm thick	sqm	803.75
	9.127.2 1.0 mm thick	sqm	663.20
9.128	Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm 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 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm 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	4,799.35
9.129	Providing and fixing cup board shutters 25 mm 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 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge		
9.130	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.	sqm	1,585.55
	9.130.1 With decorative veneering on one side and commercial veneering on other side	sqm	1,353.25
	9.130.2 With non decorative veneering on both sides	sqm	1,248.70
9.131	Providing and fixing factory made shutters of 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).		

Code No.	Description		Unit	Rate ₹
9.132	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	435.10
9.133	using board thick) having each with lips having one fl of 0.55 mm a floor and the threaded sel with 25 mm complete as joints of the	d fixing, in position concealed G.I. section for wall paneling of required thickness fixed on the 'W' profile (0.55 mm g a knurled web of 51.55 mm and two flanges of 26 mm s of 10.55 mm, placed @ 610 mm C/C in perimeter channel ange of 20 mm and another flange of 30 mm with thickness and web of length 27 mm. Perimeter channel is fixed on the e ceiling with the nylon sleeves @ 610 mm C/C with fully lf-tapping dry wall screws. Board is fixed to the 'W' profile countersunk ribbed head screws @ 200 mm C/C., all g per the drawing & directions of engineer-in-charge, the boards are finished with specially formulated jointing and 48 mm wide jointing tape to provide seamless finish.		
	9.133.1	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.		
	9.133.1.1	10mm thick	sqm	945.70
	9.133.2	Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS : 14862 with suitable fibre cement screw.		
	9.133.2.1	8 mm thick	sqm	766.80
	9.133.3	Gypsum board conforming to IS: 2095 Part - I.		
	9.133.3.1	12.5 mm thick	sqm	664.55
9.134	wire gauge v	d fixing wire gauge shutters using stainless steel grade 304 with wire of dia 0.5 mm and average width of aperture 1.4 directions for doors, windows and clerestory windows with crews :		
	9.134.1	35 mm thick shutters		
	9.134.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
	9.134.1.1.1	Second class teak wood	sqm	3,353.75
	9.134.1.1.2	Kiln seasoned and chemically treated hollock wood	sqm	2,400.90
	9.134.1.1.3	Kiln seasoned selected class of sheesham wood	sqm	3,166.60
	9.134.1.2	With ISI marked stainless steel butt hinges of required size		
	9.134.1.2.1	Second class teak wood	sqm	3,454.10
	9.134.1.2.2	Kiln seasoned and chemically treated hollock wood	sqm	2,501.25
	9.134.1.2.3	Kiln seasoned selected class of sheesham wood	sqm	3,266.95
	9.134.2	30 mm thick shutters		
	9.134.2.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
	9. 134.2.1.1	Second class teak wood	sqm	3,015.20

Code No.	Description	Unit	Rate ₹
	9. 134.2.1.2 Kiln seasoned and chemically treated hollock wood	sqm	2,200.70
	9. 134.2.1.3 Kiln seasoned selected class of sheesham wood	sqm	2,855.00
	9. 134.2.2 With ISI marked stainless steel butt hinges of required size		
	9. 134.2.2.1 Second class teak wood	sqm	3,115.50
	9.134.2.2.2 Kiln seasoned and chemically treated hollock wood	sqm	2,301.05
	9.134.2.2.3 Kiln seasoned selected class of sheesham wood	sqm	2,955.35
9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.		
	9.135.1 With 2nd class teak wood beading 62X19 mm	sqm	1,560.10
	9.135.2 With 12 mm mild steel U beading	sqm	1,288.05
9.136	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/sqm) duly filled with vermuculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumuscent fire seal strip of size 10x4 mm (minimum) alround the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be		
9.137	paid for separately). Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/m <sup>2</sup> ) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge (panneling to be paid	metre	1,190.65
9.138	for separately). Providing and fixing glazing in fire resistant door shutters, fixed panels, ventilators and partitions etc., with G.I. beading of appropriate size, made out of 20 SWG G.I.sheet (zinc coating not less than 120 gm/m <sup>2</sup> ), fire resistant sealant, including applying a coat of approved fire resistant primer on G.I. beading etc., complete all as per direction of Engineer-in-charge.	sqm	6,205.05
	9.138.1 With clear fire resistant glass panes 6mm thick of approved brand, having minimum 60 minutes fire resistance	sqm	26,954.60
9.139	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.	nos.	5,892.30
9.140	Providing and fixing plain lining with necessary screws/nuts & bolts/ nails, including a coat of approved primer on one face, and fixed on wooden /steel frame work, complete as per direction of Engineer-in- charge (Frame work shall be paid for separately).		5,552.00
	9.140.1 12mm thick commercial ply conforming to IS : 1328 BWR type	sqm	891.70

Code No.	Description	Unit	Rate ₹
9.141	Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm ( $\pm$ 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self taping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm, including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.	metre	597.20
9.142	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded soild PVC profiles, 5 mm ( $\pm$ 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mmx 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.		
	9.142.1 Non decorative finish (matt finish)	sqm	2,625.40
	9.142.2 Decorative finish (wood grained finish)	sqm	3,206.15
9.143	Providing and Fixing factory made uPVC door frame, made of uPVC exturded sections, of size 65 mm x 55 mm with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm ( $\pm 0.2$ mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fastners, all complete as per manufacturer's specification and direction of Engineer-in-charge.	metre	408.65
9.144	Providing and fixing 37 mm thick factory made PVC door shutter, styles and rails made of PVC hollow section of size 100 mm x 37 mm with wall thickness 2 mm ( $\pm$ 0.2 mm), with inbuilt bead on one side, styles and rails mitered cut and joint at the corners by means of 2 nos of plastic brackets of size 75 mm x 220 mm at each corner and stainless	mene	400.00

Code No.	Description	Unit	Rate ₹
	steel screws, reinforcing the hinge side of style by inserting PVC profile of size 28 mm x 30 mm, with wall thickness 2 mm ( $\pm$ 0.2 mm). Lockrail of size 100 mm x 37 mm, wall thickness 2 mm (+ 0.2 mm) will be fixed to the vertical styles. Providing with PVC snapfit beads and panel of size 100 mm x 20 mm, and inserting 2 nos tie bar of 6 mm dia and fastening with nuts and washers complete, all as per manufacturer's specification and direction of Engineer-in-charge.	sqm	2,878.00
9.145	Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm ( $\pm$ 0.2 mm). Both verticals sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness ( $\pm$ 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut, jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineer- in-charge.	metre	431.85
9.146	Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm ( $\pm$ 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm ( $\pm$ 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm ( $\pm$ 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge.	sqm	2,994.15
9.147	Providing and Fixing factory made uPVC white colour casement/sliding window / door, made of extruded profiles. Profiles of frames and sash will be mitered cut and fusion welded at all corners, including drilling of holes for fixing hardware and drainage of water etc., making arrangement for fixing of hardware, EPDM gasket, $1.2 \pm 0.2$ mm thick galvanised steel profile to be inserted in required profile, frame will be fixed to the wall with 8 mm x 100 mm long fasteners, all complete as per direction of Engineer-in-charge. (Glazing, hardware hinges and fitting etc. to be paid separately.)		
	Note :- Each member of window to be measured separately with clear length.		

length.

Code No.	Descriptio	on	Unit	Rate ₹
	9.147.1	Casement Window (Outward/Inward opening) with hinge System		
	9.147.1.1	Frame (50 mm x 50 mm)	metre	402.45
	9.147.1.2	Sash (Style and Rail) (62 mm x 34 mm)	metre	384.15
	9.147.1.3	Mullion (intermediate Section) (66 mm x 50 mm)	metre	426.85
	9.147.1.4	'T' Profile (one vertical length in between two shutters) (24 mm x 34.5 mm)	metre	92.80
	9.147.1.5	Glazing bead (12 mm x 18 mm)	metre	123.30
	9.147.2	Casement Window (With friction hinge & outward opening)		
	9.147.2.1	Casement Frame (67 mm x 62 mm)	metre	457.35
	9.147.2.2	Casement Window Sash / Mullion (67 mm x 75 mm ) (style, rail and intermediate section)	metre	493.90
	9.147.2.3	Casement Glazing bead (35 mm x 18 mm)	metre	166.00
	9.147.3	Sliding Window (Two Track, 2/4 Shutters)		
	9.147.3.1	Two Track Sliding Frame (67 mm x 52 mm)	metre	540.40
	9.147.3.2	Sliding window Sash (60 mm x 44 mm)	metre	505.00
	9.147.3.3	Sliding Interlock for Window (one vertical length in each shutter)( 45.5 mm x 28 mm)	metre	138.80
	9.147.3.4	Sliding Glazing bead (35 mm x 18 mm)	metre	166.00
	9.147.4	Sliding Door (Two Track, 2/4 Shutters)		
	9.147.4.1	Two Track Sliding Frame (67 mm x 52 mm)	metre	519.80
	9.147.4.2	Sliding Door Sash (80 mm x 44 mm)	metre	640.75
	9.147.4.3	Sliding Interlock for Door (one vertical length in each shutter) (45.5 mm x 28 mm)	metre	138.80
	9.147.4.4	Sliding Glazing bead (35 mm x 18 mm)	metre	166.00
9.148	side/ top	and fixing stainless steel (SS-304 grade) friction hinges to the hung uPVC windows, of approved quality, with necessary steel screws etc. as per direction of Engineer-in-charge.		
	9.148.1 2	200 x 19 x 1.9 mm	each	279.75
	9.148.2 2	250 x 19 x 1.9 mm	each	349.40
	9.148.3	300 x 19 x 1.9 mm	each	442.35
	9.148.4	350 x 19 x 1.9 mm	each	500.40
	9.148.5 4	400 x 19 x 1.9 mm	each	628.20
9.149	-	and fixing casement handle made of zinc alloyed (white powder or uPVC casement window with necessary screws etc.	each	192.80
9.150	Providing	and fixing zinc alloyed (white powder coated) touch lock for ing window with necessary screws etc. complete.	each	134.70

Code No.	Description	Unit	Rate ₹
9.151	Providing and fixing steel roller for uPVC sliding window with necess screws etc. complete.	sary each	65.00
9.152	Providing and fixing steel roller for uPVC sliding door with necessa screws etc. complete.	ry each	105.65
9.153	Providing and fixing steel (white power coated) crescent lock for uF sliding window/ door with necessary screws etc. complete.	VC each	123.10
9.154	Providing and fixing frame work for partitions/ wall lining etc. mad 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling floor in a grid pattern with spacing @ 60 cm centre to centre both w (vertically & horizontally) or at required spacing near opening, w necessary welding at junctions and fixing the frame to wall/ ceil floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, include making provision for opening for doors, windows, electrical conducts witch boards etc., including providing with two coats of approved s primer etc. complete, all as per direction of Engineer-in-charge.	and ays with ing/ ding uits,	89.15
9.155	Providing and fixing panelling or paneling and glazing in panelled panelled and glazed shutters for doors, windows and clerestory windo ( area of opening for panel inserts excluding portion inside groove rebated to be measured). Panelling for panelled and glazed shut 25mm to 40mm thick: Pre-laminated with decorative lamination on b side exterior Grade - I MDF Board 12 mm thick confirming to IS:14	ows s or ters poth	1,387.00
9.156	Providing and fixing Pre -laminated medium density fibre board externation grade (Grade-I) IS:14587:1998 marked, to frame, backing or stude with screws etc. complete (Frames, backing or studding to be p separately).	erior ding	
	9.156.1 Pre-laminated with decorative lamination on both side exte Grade - I MDF Board 12 mm thick confirming to IS:14587		958.40
	9.156.2 Pre-laminated with decorative lamination on both side exte Grade - I MDF Board 18 mm thick confirming to IS:14587		1,241.40
9.157	Providing and fixing Pre-laminated medium density fibre board 14587:1998 marked, with one side decorative lamination other s balancing lamination Grade-I(exterior grade) in shelves with screws fittings wherever required, edges to be sealed with PVC edge benc tape 2.00 mm thick of approved brand (fittings to be paid separatel	side and ding	
	9.157.1 Pre-laminated with decorative lamination one side and or side balancing lamination exterior Grade - I MDF Bos 18 mm thick confirming to IS:14587		1,355.45
	9.157.2 Pre-laminated with decorative lamination one side and or side balancing lamination exterior Grade - I MDF Board mm thick confirming to IS:14587		1,770.05
9.158	Providing and fixing in wall lining medium density fibre board 14587:1998 marked, Pre-laminated one side decorative lamination other side balancing lamination, with necessary fixing arrangement screws etc. complete.	IS: and	-
	9.158.1 12 mm thick.	sqm	994.15

Code No.	Description	Unit	Rate ₹
	9.158.2 18 mm thick.	sqm	1,274.50
	9.158.3 25 mm thick.	sqm	1,705.70
9.159	Providing and fixing 25mm thick pre-laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked 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 nickeled plated bright finishing M.S. piano hinges IS:3818 marked with necessary screwed complete.	sqm	1,824.05
9.160	Providing and fixing skirting with Pre-laminated medium density fibre board exterior grade (Grade-I) IS: 14587:1998 marked, (one side decorative and other side balancing lamination) with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand complete.		
	9.160.1 18 mm thick.	sqm	1,629.30
	9.160.2 25 mm thick.	sqm	2,060.50

# **SUB HEAD : 10.0 STEEL WORK**

## **BASIC RATES (10.0 STEEL WORK)**

Code No.	Description	Unit	Rate ₹
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0102	Blacksmith 1 st class	day	393.00
0103	Blacksmith 2nd class	day	361.00
0112	Carpenter 2nd class	day	361.00
0114	Beldar	day	297.00
0116	Fitter (grade 1)	day	393.00
0119	Glazier	day	361.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0139	Skilled Beldar (for floor rubbing etc.)	day	328.00
0595	Bright finished or black enameled mild steel butt hinges	(0)	
	100x58x1.90 mm	10 Nos	85.00
0969	Pulley 25 mm dia	each	35.00
0973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	1250.00
0974	Top cover for rolling shutters 1.25 mm thick	metre	600.00
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	280.00
0976	Ball bearing for rolling shutters	each	330.00
0977	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 10.00 sqm and up to 16.80 sqm area of door	sqm	550.00
0978	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 16.80 sqm area of door	sqm	580.00
1002	Mild steel round bar 12 mm dia and below	quintal	4500.00
1003	Mild steel round bar above 12 mm dia	quintal	4300.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4926.00
1008	Flats up to 10 mm in thickness	quintal	4200.00
1009	Flats exceeding 10 mm in thickness	quintal	4500.00
1010	Mild steel plates	quintal	4800.00
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	48.00
1013	Mild steel sheets for tanks	quintal	4900.00
1019	Mild steel hooks	each	35.00
1020	Mild steel rivets	quintal	5000.00
1034	Bolts and nuts up to 300 mm in length	quintal	5600.00
1035	Bolts and nuts above 300 mm in length	quintal	5600.00
1036	Iron pintels including welded pin	each	40.00
1143	Steel beading	metre	25.00
1214	Welding by gas plant	cm	2.00
1215	Welding by electric plant	cm	1.80

SUB HEAD -10.0 STEEL WORK

Code No.	Description	Unit	Rate ₹
1221	20 mm dia holding down bolts	quintal	5800.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	130.00
1549	G.I. pipes 40 mm dia	metre	220.00
2205	Carriage of steel	tonne	94.80
2271	Carriage of G.I. pipes below 100 mm dia	tonne	94.80
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	330.00
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	500.00
2506	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 60 mm	10 Nos	250.00
2507	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 80 mm	10 Nos	293.00
2508	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 120 mm	10 Nos	364.00
2509	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 140 mm	10 Nos	450.00
2510	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 160 mm	10 Nos	570.00
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	350.00
4002	Stainless steel bolts/square bar and plates	kg	130.00
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B"	metre	220.00
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C"	metre	240.00
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	270.00
4009	Mild steel tubes hot finished welded type	kilogram	52.00
4010	Mild steel tubes hot finished seamless type	kilogram	65.00
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	70.00
4012	Circular C.I. Box for ceiling fan	each	60.00
4013	Pulley 40 mm dia	each	30.00
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	250.00
7044	Rolling shutters of 80x0.90 mm laths	sqm	1080.00
7045	Rolling shutters of 80x1.2 mm laths	sqm	1150.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	320.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	350.00
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod	sqm	270.00
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	830.00
9999	Sundries	L.S.	1.70

SUB HEAD -10.0 STEEL WORK

<b>10.0 STEEL</b>	WORK
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Code No.	Descrip	otion	Unit	Rate ₹
10.1	plate, in	al steel work in single section, fixed with or without connecting cluding cutting, hoisting, fixing in position and applying a priming approved steel primer all complete.	kg	66.85
10.2	and frai	al steel work riveted, bolted or welded in built up sections, trusses med work, including cutting, hoisting, fixing in position and g a priming coat of approved steel primer all complete.	kg	73.65
10.3	channel with top pulleys,	g and fixing in position collapsible steel shutters with vertical s 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel complete with bolts, nuts, locking arrangement, stoppers, including applying a priming coat of approved steel primer.	sqm	4,977.95
10.4	and diag at the ju T-iron g	g and fixing 1 mm thick M.S. sheet sliding-shutters, with frame gonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates nctions and corners, 25 mm dia pulley, 40x40x6 mm angle and uide at the top and bottom respectively, including applying a coat of approved steel primer.	sqm	3,419.25
10.5	mm ang all nece	ig and fixing 1mm thick M.S. sheet door with frame of 40x40x6 le iron and 3 mm M.S. gusset plates at the junctions and corners, essary fittings complete, including applying a priming coat of ed steel primer.		
	10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces	sqm	2,942.00
	10.5.2	Using flats 30x6mm for diagonal braces and central cross piece	sqm	2,785.45
10.6	size M. jointed to pipe sha outside cost of manufa conform	ng and fixing rolling shutters of approved make, made of required S. laths, interlocked together through their entire length and ogether at the end by end locks, mounted on specially designed aft with brackets, side guides and arrangements for inside and locking with push and pull operation complete, including the providing and fixing necessary 27.5 cm long wire springs ctured from high tensile steel wire of adequate strength hing to IS: 4454 - part 1 and M.S. top cover of required thickness ig shutters.		
	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	sqm	2,044.15
	10.6.2	80x1.20 mm M.S. laths with 1.20 mm thick top cover	sqm	1,831.20
	10.6.3	80x0.90 mm M.S. laths with 0.90 mm thick top cover	sqm	1,738.30
10.7	Providir	ng and fixing ball bearing for rolling shutters.	each	436.45
10.8		r providing mechanical device chain and crank operation for ng rolling shutters.		
	10.8.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	sqm	665.50
	10.8.2	Exceeding 16.80 sqm in area	sqm	700.35
10.9	M.S. ba	r providing grilled rolling shutters manufactured out of 8 mm dia r instead of laths as per design approved by Engineer-in- charge, grill to be measured).	sqm	313.60

Code No.	Descript	tion	Unit	Rate ₹
10.10	Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal- sash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.			
	10.10.1	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	33.40
	10.10.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	kg	17.95
10.11	and vent such as steel sec and rivet priming o fittings, c	and fixing factory made ISI marked steel glazed doors, windows tilators, side /top /centre hung, with beading and all members F7D, F4B, K11 B and K12 B etc. complete of standard rolled tions, joints mitred and flash butt welded and sash bars tenoned ted, including providing and fixing of hinges, pivots, including coat of approved steel primer, but excluding the cost of other complete all as per approved design, (sectional weight of only mbers shall be measured for payment).		
	10.11.1	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	105.10
	10.11.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	kg	71.70
10.12	type), ap	providing and fixing steel beading of size 10 x 10 x 1.6 mm (box proved shape and section with screws instead of glazing clips al sash putty, in steel doors, windows, ventilators and te units.	metre	35.90
10.13	mild stee necessa	g and fixing T-iron frames for doors, windows and ventilators of el Tee-sections, joints mitred and welded, including fixing of ry butt hinges and screws and applying a priming coat of d steel primer.		
	10.13.1	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	81.95
	10.13.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	kg	78.65
10.14	manufac including mild stee mild stee M.S. pre plate and	g and fixing pressed steel door frames conforming to IS: 4351, stured from commercial mild steel sheet of 1.60 mm thickness, hinges, jamb, lock jamb, bead and if required angle threshold of al angle of section 50x25 mm, or base ties of 1.60 mm, pressed welded or rigidly fixed together by mechanical means, including ssed butt hinges 2.5 mm thick with mortar guards, lock strike- d shock absorbers as specified and applying a coat of approved mer after pre-treatment of the surface as directed by Engineer- e:		
	10.14.1	Profile B		
	10.14.1.1	1 Fixing with adjustable lugs with split end tail to each jamb	metre	360.50
	10.14.1.2	2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	352.60

Code No.	Description	on	Unit	Rate ₹
	10.14.2	Profile C		
	10.14.2.1	Fixing with adjustable lugs with split end tail to each jamb	metre	383.75
	10.14.2.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	375.85
	10.14.3	Profile E		
	10.14.3.1	Fixing with adjustable lugs with split end tail to each jamb	metre	418.60
	10.14.3.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	410.70
10.15	and cupbo M.S. Shee required s	and fixing M.S. Tubular frames for doors, windows, ventilators bard with rectangular/ L-Type sections, made of 1.60 mm thick et, joints mitred, welded and grinded finish, with profiles of ize, including fixing of necessary butt hinges and screws and priming coat of approved steel primer.		
	C	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	133.65
		Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	kg	125.55
10.16	etc.) truss applying a	in built up tubular (round, square or rectangular hollow tubes ses etc., including cutting, hoisting, fixing in position and priming coat of approved steel primer, including welding and h special shaped washers etc. complete.		
	10.16.1 H	Hot finished welded type tubes	kg	95.85
	10.16.2 H	Hot finished seamless type tubes	kg	111.70
	10.16.3 E	Electric resistance or induction butt welded tubes	kg	117.80
10.17	bent to sha	and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, ape with hooked ends in R.C.C. slabs or beams during laying, painting the exposed portion of loop, all as per standard design	each	119.05
10.18	Providing a ceiling fan thick M.S. shall be so dia round	and fixing circular/ Hexagonal cast iron or M.S. sheet box for clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm sheet with its top surface hacked for proper bonding, top lid crewed into the cast iron/ M.S. sheet box by means of 3.3 mm headed screws, one lock at the corners. Clamp shall be 2 mm dia M.S. bar bent to shape as per standard drawing.	each	138.00
10.19	Providing	and fixing mild steel round holding down bolts with nuts and ates complete.	kg	71.85
10.20		and fixing bolts including nuts and washers complete.	kg	95.10
10.20	•	and fixing M.S. rivets of sizes in position.	-	129.80
10.21	-	y gas or electric plant including transportation of plant at site	kg cm	2.85
10.23		ed to Sub head 14 as item 14.73.		
10.24		ed to Sub head 14 as item 14.74.		

Code No.	Description	Unit	Rate ₹
10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.		
	10.25.1 In stringers, treads, landings etc. of stair cases, inclue of chequered plate wherever required, all complete	ding use kg	74.30
	10.25.2 In gratings, frames, guard bar, ladder, railings, bracket and similar works	ts, gates kg	86.50
10.26	Providing and fixing hand rail of approved size by welding etc. ladder railing, balcony railing, staircase railing and similar including applying priming coat of approved steel primer.		
	10.26.1 M.S. tube	kg	97.45
	10.26.2 E.R.W. tubes	kg	122.80
	10.26.3 G.I. pipes	kg	105.15
10.27	Providing and fixing carbon steel galvanised (minimum coating 5 dash fastener of 10 mm dia double threaded 6.8 grade (yield s 480 N/mm <sup>2</sup> ), counter sunk head, comprising of 10 m dia polyar 6 grade sleeve, including drilling of hole in frame, concrete/ m etc. as per direction of Engineer-in-charge.	strength mide PA	
	10.27.1 10 x 60 mm	each	61.60
	10.27.2 10 x 80 mm	each	66.60
	10.27.3 10 x 120 mm	each	82.45
	10.27.4 10 x 140 mm	each	92.45
	10.27.5 10 x 160 mm	each	114.05
10.28	Providing and fixing stainless steel (Grade 304) railing made o tubes, channels, plates etc., including welding, grinding, buffing, p and making curvature (wherever required) and fitting the sa necessary stainless steel nuts and bolts complete, i/c fixing th with necessary accessories & stainless steel dash fasteners, s steel bolts etc., of required size, on the top of the floor or the waist slab with suitable arrangement as per approval of Engineer-in (for payment purpose only weight of stainless steel members considered excluding fixing accessories such as nuts, bolts, fastene	oolishing me with e railing stainless e side of -charge, shall be	611.10
10.29	Providing & fixing fly proof wire gauze to windows, clerestory wir doors with M.S. Flat 15x3 mm and nuts & bolts complete.	ndows &	
	10.29.1 Galvanised M.S. Wire gauze with 0.63 mm dia wire mm aperture on both sides	and 1.4 sqm	512.95
	10.29.2 Stainless steel (grade 304) wire gauze of 0.5 mm dia 1.4 mm aperture on both sides	wire and sqm	1,252.25
10.30	Providing & fixing glass panes with putty and glazing clips in stee windows, clerestory windows, all complete with :	el doors,	
	10.30.1 4.0 mm thick glass panes	sqm	727.70
	10.30.2 5.5 mm thick glass panes	sqm	944.90

# **SUB HEAD : 11.0 FLOORING**

## **BASIC RATES (SH: 11.0 FLOORING)**

Code No.	Description	Unit	Rate ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
0013	Machine for rubbing of floors	day	350.00
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0103	Blacksmith 2nd class	day	361.00
0111	Carpenter 1 st class	day	393.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0126	Mason (for ornamental stone work) 1 st class	day	393.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	393.00
0130	Mistry	day	393.00
0139	Skilled Beldar (for floor rubbing etc.)	day	328.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1200.00
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	1050.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1050.00
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	1100.00
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	37000.00
0367	Portland Cement	tonne	5240.00
0368	White Cement	tonne	14000.00
0682	Oxidised mild steel screws 50 mm	100 Nos	75.00
0784	Marble dust/ powder	cum	1000.00
0785	Marble chips up to 4 mm and down size White & black	quintal	200.00
0788	Marble chips large size above 4 mm White & black	quintal	200.00
0874	Black colour dark shade pigment	kilogram	55.00
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	75.00
0876	Green or blue medium shade pigment	kilogram	65.00
0982	Coarse sand (zone III)	cum	1120.00
0983	Fine sand (zone IV)	cum	650.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4926.00
1008	Flats up to 10 mm in thickness	quintal	4200.00
1149	Glass strip 4 mm thick 40 mm deep	metre	9.00
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	160.00
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	180.00

Code No.	Description	Unit	Rate ₹
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	290.00
1187	First class teak wood in scantling	10 cudm	800.00
1190	Second class teak wood in planks	10 cudm	725.00
1194	Second class deodar wood in planks	10 cudm	500.00
1201	Precast terrazzo tiles 22 mm thick (light shade)	sqm	260.00
1202	Precast terrazzo tiles 22 mm thick(medium shade)	sqm	240.00
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	220.00
1215	Welding by electric plant	cm	1.80
1227	Chequered terrazzo tiles 22 mm thick(light shade)	sqm	325.00
1228	Chequered terrazzo tiles 22 mm thick(medium shade)	sqm	285.00
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	250.00
1231	Extra for selected planks of second class teakwood	10 cudm	130.00
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	3330.00
1241	Commercial LPG in cylinder	kg	70.00
1242	Glass mossaic tiles (20 mm x 20 mm x 4 mm ).	sqm	1050.00
1243	Tile fixing chemical adhesive	kg	34.00
1244	Cement Polymer Grout Compound	kg	34.00
1245	Acid for cleaning tiles	litre	16.00
2201	Carriage of bricks	1000 Nos	284.39
2202	Carriage of stone aggregate below 40 mm nominal size	cum	106.64
2203	Carriage of coarse sand	cum	106.64
2204	Carriage of timber	cum	121.88
2205	Carriage of steel	tonne	94.80
2209	Carriage of cement	tonne	94.80
2211	Carriage of tar / bitumen	tonne	106.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	94.80
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	106.64
2268	Carriage of marble dust and/or marble chips	cum	106.64
2500	Extra for selected planks of second class deodar wood	10 cudm	100.00
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	3800.00
2708	Truf Paver (500 x 500 x 40 mm)	sqm	1090.00
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	135.00
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	140.00
2711	FS800H Grade Flooring Panel ( Size 600 mm x600 mm x32 mm)	each	750.00
2712	Zinc Electroplated Pedestals - 300 mm	each	140.00
2713	Zinc Electroplated Pedestals - 450 mm	each	150.00

SUB HEAD -11.0 FLOORING

Code No.	Description	Unit	Rate ₹
2714	Zinc Electroplated Tube Stinger	each	70.00
2715	Machine Screw for Fixing	each	2.00
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	700.00
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	360.00
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	1870.00
6007	Pink marble slab plain 18 mm thick	sqm	645.00
6010	Udaypur green marble slab plain 18 mm thick	sqm	690.00
6019	Black Zebra marble slab plain 18 mm thick	sqm	500.00
7024	Acid Proof cement	tonne	8150.00
7070	Chequered precast cement concrete tiles 22 mm thick using marble chips of size 6mm - Light shade using white cement	sqm	470.00
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	600.00
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	570.00
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement	sqm	230.00
7237	Precast chequered cement tiles 22 mm thick medium shade using 50% white cement 50% ordinary cement	sqm	370.00
7254	Hardening compound	litre	40.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	50.00
7801	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	365.00
7802	Ceramic Glazed Tiles 1st quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	375.00
7803	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	sqm	515.00
7804	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	545.00
7850	Agaria White marble slab plain 18 mm thick	sqm	1120.00
8620	Vitrified floor tile 50x50 cm	sqm	745.00
8621	Vitrified floor tile 60x60 cm	sqm	880.00
8622	Vitrified floor tile 80x80 cm	sqm	1085.00
8623	Vitrified floor tile 100x100 cm	sqm	1650.00
8682	Epoxy Grout	kg	510.00
8731	High polymer modified quickset tile adhesive	per kg	17.00
9999	Sundries	L.S.	1.70

11.0 FLO	ORING
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Code No.	Description	Unit	Rate ₹
11.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks:		
	11.1.1 1:4 (1 cement : 4 coarse sand)	sqm	650.35
	11.1.2 1:6 (1cement : 6 coarse sand)	sqm	615.40
11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	508.40
11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.		
	11.3.1 40 mm thick with 20 mm nominal size stone aggregate	sqm	316.80
11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	480.10
11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	528.25
11.6	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.	04	
	11.6.1 18 mm thick	sqm	299.20
11.7	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete.	cum	5,188.60
11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	sqm	30.20
	TERRAZO FLOORING		
11.9	40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow 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 :		
	11.9.1 Dark shade pigment with ordinary cement	sqm	530.30

Code No.	Descrip	btion	Unit	Rate ₹
	11.9.2	Light shade pigment with white cement	sqm	578.10
	11.9.3	Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	554.25
	11.9.4	White cement without any pigment	sqm	554.70
	11.9.5	Light shade pigment with ordinary cement	sqm	536.90
	11.9.6	Ordinary cement without any pigment	sqm	510.70
11.10	finish, u coarse s layer 9 marble marble proporti	thick marble chips flooring, rubbed and polished to granolithic inder layer 31 mm thick cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 12.5 mm nominal size) and top mm thick with white, black, chocolate, grey, yellow or green chips of sizes from 4 mm to 7 mm nominal size, laid in cement powder mix 3:1 (3 cement : 1 marble powder) by weight in on of 4:7 (4 cement marble powder : 7 marble chips) by volume, g cement slurry etc. complete.	·	
	11.10.1	Dark shade pigment with Ordinary cement	sqm	547.10
	11.10.2	Light shade pigment with white cement	sqm	615.30
	11.10.3	Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	581.20
	11.10.4	White cement without any pigment	sqm	584.30
	11.10.5	Light shade pigment with ordinary cement	sqm	553.70
	11.10.6	Ordinary cement without any pigment	sqm	520.15
11.11	finish, u coarse s layer 12 marble marble proporti	hick marble chips flooring, rubbed and polished to granolithic inder layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 12.5 mm nominal size) and top 2 mm thick with white, black, chocolate, grey yellow or green chips of sizes from 7 mm to 10 mm nominal size, laid in cement powder mix 3:1 (3 cement : 1 marble powder) by weight in on of 2:3 (2 cement marble powder mix : 3 marble chips) by including cement slurry etc. complete :		
	11.11.1	Dark shade pigment with ordinary cement	sqm	572.00
	11.11.2	Light shade pigment with white cement	sqm	667.60
	11.11.3	Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	619.80
	11.11.4	White cement without any pigment	sqm	617.05
	11.11.5	Light shade pigment with ordinary cement	sqm	585.15
	11.11.6	Ordinary cement without any pigment	sqm	534.65
11.12	granolit grey, ye nomina marble j	chips skirting up to 30 cm height, rubbed and polished to hic finish, top layer 6 mm thick with white, black, chocolate, ellow or green marble chips of sizes from smallest to 4 mm I size, laid in cement marble powder mix 3:1 (3 cement : 1 bowder) by weight in proportion of 4:7 (4 cement marble powder marble chips) by volume :		
	11.12.1	18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand) :		
	11.12.1.	1 Dark shade pigment with ordinary cement	sqm	727.45

Code No.	Description	Unit	Rate ₹
	11.12.1.2 Light shade pigment with white cement	sqm	775.25
	11.12.1.3 Medium shade pigment with 50% white cement and 50	)%	
	ordinary cement	sqm	751.40
	11.12.1.4 White cement without any pigment	sqm	751.85
	11.12.1.5 Light shade pigment with ordinary cement	sqm	734.05
	11.12.1.6 Ordinary cement without any pigment	sqm	708.70
11.13	Providing and fixing glass strips in joints of terrazo/ cement conc floors.	rete	
	11.13.1 40 mm wide and 4 mm thick	metre	33.80
11.14	Extra for laying terrazo flooring on staircase treads not exceeding cm in width, including cost of forming, nosing etc.	g 30 sqm	33.30
11.15	Crazy marble stone flooring, including filling the gaps with light sh pigment with white cement marble powder mixture (3 parts of w cement : 1 part of marble powder) by weight in proportion of 4: cement marble powder mix : 7 white, black or white and black ma chips of sizes from 1 mm to 4 mm nominal size by volume), with ur layer 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sa 4 graded stone aggregate 12.5 mm nominal size), including rubb polishing and cement slurry etc. complete :	hite 7 (4 rble nder nd :	
	11.15.1 18 mm thick crazy marble stone white, black or as speci	fied sqm	850.90
	TILE FLOORING		
11.16	Precast terrazo tiles 22 mm thick with graded marble chips of size of 12 mm, laid in floors, and landings, jointed with neat cement sl mixed with pigment to match the shade of the tiles, including rubb and polishing complete, on 20 mm thick bed of cement mortar (1 cement:4 coarse sand):	urry ping	
	11.16.1 Light shade pigment using white cement	sqm	870.70
	11.16.2 Medium shade pigment using 50% white cement and 50 ordinary cement		819.15
	11.16.3 Dark shade pigment using ordinary cement	sqm	767.65
	11.16.4 Ordinary cement without any pigment	sqm	729.85
11.17	Extra if terrazo tiles are laid in treads of steps not exceeding 30 cr		
	width.	sqm	41.60
11.18	Precast terrazo tiles 22 mm thick with graded marble chips of si upto 12 mm, in skirting and risers of steps not exceeding 30 cr height, on 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sa jointed with neat cement slurry mixed with pigment to match the sh of the tiles, including rubbing and polishing complete with tiles of :	n in nd), ade	
	11.18.1 Light shade pigment using white cement	sqm	1,131.00
	11.18.2 Medium shades pigment using 50% white cement and 5 ordinary cement	50% sqm	1,066.50
	11.18.3 Dark shade pigment using ordinary cement	sqm	1,002.00
	11.18.4 Ordinary cement without any pigment	sqm	954.35
11.19	Chequered terrazo tiles 22 mm thick with graded marble chips of up to 6 mm in floors, jointed with neat cement slurry mixed with pigm	size	

Code No.	Description	Unit	Rate ₹
	to match the shade of the tiles, including rubbing and polishing comp on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sa		
	11.19.1 Light shade pigment using white cement	sqm	953.70
	11.19.2 Medium shade pigment using 50% white cement, 5 ordinary cement	0% sqm	876.65
	11.19.3 Dark shade pigment using ordinary cement	sqm	806.00
	11.19.4 Ordinary cement without any pigment	sqm	768.30
11.20	Chequerred precast cement concrete tiles 22 mm thick in footpa courtyard, jointed with neat cement slurry mixed with pigment to ma the shade of tiles, including rubbing and cleaning etc. complete, of mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).	atch	
	11.20.1 Light shade pigment using white cement	sqm	1008.70
	11.20.2 Medium shade pigment using 50% white cement 5 Grey cement	0% sqm	852.95
	11.20.3 Dark shade pigment using ordinary cement	sqm	646.10
	11.20.4 Ordinary cement without any pigment	sqm	608.25
11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tile approved make and colour using acid and/or alkali resisting mo bedding, and joints filled with acid and/or alkali resisting cement as IS : 4457, complete as per the direction of Engineer-in- Charge.	ortar	
	11.21.1 In flooring on a bed of 10 mm thick mortar 1:4 (1 acid pl cement : 4 coarse sand)	roof	
	11.21.1.1 Acid and alkali resistant tile	sqm	1,197.75
	11.21.2 In dado/skirting on 12 mm thick mortar 1:4 (1 acid pr cement : 4 coarse sand)	oof	
	11.21.2.1 Acid and alkali resistant tile	sqm	1,259.85
11.22	Tile work in skirting, risers of steps and dado up to 2 m height ove mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) jointed with grey cement slurry @ 3.3 kg/sqm, including pointin white cement mixed with pigment of matching shade complete.	and	
	11.22.1 Marble tiles (polished) Raj Nagar		
	11.22.1.1 8 mm thick	sqm	830.05
	STONE FLOORING		
11.23	Marble stone flooring with 18 mm thick marble stone, as per samp marble approved by Engineer-in-charge, over 20 mm (average) t base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and join with grey cement slurry, including rubbing and polishing complete w	hick nted	
	11.23.1 Makrana white second quality	sqm	3,132.05
	11.23.2 Raj Nagar plain	sqm	1,435.70
	11.23.3 Agaria White	sqm	2,130.25
	11.23.4 Black Zebra	sqm	1,302.10
	11.23.5 Udaipur green marble	sqm	1,555.90
	11.23.6 Pink plain marble	sqm	1,495.80
11.24	Extra for pre finished nosing to treads of steps of marble stone.	metre	248.90

SUBHEAD -11.0 FLOORING

Code No.	Description	Unit	Rate ₹
11.25	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre .	sqm	289.65
	KOTA STONE FLOORING		
11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :		
	11.26.1 25 mm thick	sqm	1,071,70
11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm	1,100.85
	SAND STONE FLOORING		
11.28	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 ( 1cement : 5 coarse sand) with joints finished flush.		
	11.28.1 Red sand stone	sqm	521.20
	11.28.2 White sand stone	sqm	546.75
11.29	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand), including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone.		
	11.29.1 Red sand stone	sqm	614.25
	11.29.2 White sand stone	sqm	639.80
11.30	40 mm thick rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) with joints 3 mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar.		
	11.30.1 Red sand stone	sqm	677.95
	11.30.2 White sand stone	sqm	703.50
11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	metre	68.45
11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre .	sqm	15.30
	WOODEN FLOORING		
11.33	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with :		
	11.33.1 Second class teak wood	sqm	3,192.10
	11.33.2 Second class deodar wood	sqm	2,240.25
11.34	38 mm thick wood block flooring of first class 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	6,377.10

Code No.	Description	Unit	Rate ₹
11.35	Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm, 10 cm long, forked at end 60cm apart (minimum three lugs to be provided), including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete.	kg	89.05
	CERAMIC GLAZED TILES		
11.36	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black 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 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	793.60
11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	sqm	822.10
11.38	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (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, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	sqm	834.05
11.39	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.	sqm	987.40
11.40	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	sqm	1023.15
	VITRIFIED FLOOR TILES		
11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.		
	11.41.1 Size of Tile 500x500 mm	sqm	1,241.85
	11.41.2 Size of Tile 600x600 mm	sqm	1,402.55
	11.41.3 Size of Tile 800x800 mm	sqm	1,644.55
	11.41.4 Size of Tile 1000x1000 mm	sqm	2,317.20
11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse		

SUBHEAD -11.0 FLOORING

Code No.	Description	Unit	Rate ₹
11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	sqm	392.00
11.44	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse 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	407.15
11.45	Providing and laying 500x500x40 mm thick Turf paver (Turfpave XD) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate and base course and filling with 150 mm thick jamuna sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.	sqm	1,743.20
11.46	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), including grouting the joint with white cement & matching pigments etc. complete.		
	11.46.1 Size of Tile 500x500 mm	sqm	1,250.75
	11.46.2 Size of Tile 600x600 mm	sqm	1,411.45
	11.46.3 Size of Tile 800x800 mm	sqm	1,655.50
	11.46.4 Size of Tile 1000x1000 mm	sqm	2,328.20
11.47	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).		
	11.47.1 Size of Tile 500x500 mm	sqm	1,436.45
	11.47.2 Size of Tile 600x600 mm	sqm	1,597.20
	11.47.3 Size of Tile 800x800 mm	sqm	1,841.25
	11.47.4 Size of Tile 1000x1000 mm	sqm	2,513.90
11.48	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.		
	11.48.1 Size of Tile 500x500 mm	sqm	214.40
	11.48.2 Size of Tile 600x600 mm	sqm	180.60

Code No.	Description	Unit	Rate ₹
	11.48.3 Size of Tile 800x800 mm	sqm	146.80
	11.48.4 Size of Tile 1000x1000 mm	sqm	107.10
11.49	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).		
	11.49.1 Size of Tile 500x500 mm	sqm	1,379.15
	11.49.2 Size of Tile 600x600 mm	sqm	1,539.85
	11.49.3 Size of Tile 800x800 mm	sqm	1,783.95
	11.49.4 Size of Tile 1000x1000 mm	sqm	2,456.60
11.50	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	sqm	8.15
11.51	Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. a. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.	sqm	5,112.15
11.52	Providing and laying machine cut, mirror polished Marble stone flooring, in required design (Simple geometrical, abstract etc.) and in patterns in combination with Italian marble stones of different colours, shades and finished surface texture etc., in linear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. a. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.		E 220 25
11.53	Providing and fixing Glass mossaic tiles at 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	sqm	5,339.25
11.54	Engineer-in-Charge: Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load	sqm	1,586.70

Code No.	Description	Unit	Rate ₹
	bearing floor panels supported on G.I. rectangular stinger frame work		

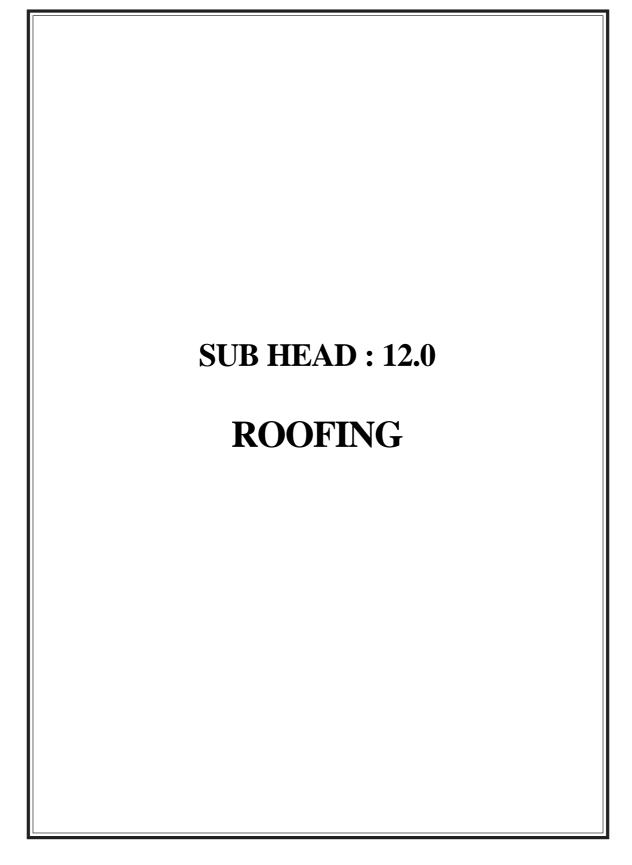
bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of :

a) P roviding at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mmx100mmx3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.

b) S tringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.

c) P r oviding and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.

11.54.1	300 mm Finished Floor Height (FFH)	sqm	4,002.80
11.54.2	450 mm Finished Floor Height (FFH).	sqm	4,044.60



Code No.	Description	Unit	Rate ₹
0013	Machine for rubbing of floors	day	350.00
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0102	Blacksmith 1 st class	day	393.00
0103	Blacksmith 2nd class	day	361.00
0111	Carpenter 1 st class	day	393.00
0112	Carpenter 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0117	Assistant Fitter or 2nd class Fitter	day	361.00
0122	Mason (for plaster of paris work) 1st class	day	393.00
0123	Mason (brick layer) 1st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0128	Mate	day	328.00
0130	Mistry	day	393.00
0131	Painter	day	361.00
0139	Skilled Beldar (for floor rubbing etc.)	day	328.00
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	40.00
0223	Non - Asbestos fibre (high impact poly propelene reinforced) cement corrugated sheet 6 mm thick	sqm	250.00
0224	Non - Asbestos fibre (high impact poly propelene reinforced) cement close fitting adjustable ridge	metre	210.00
0225	Non - Asbestos fibre (high impact poly propelene reinforced) cement corrugate serrated adjustable ridge	metre	210.00
0226	Non - Asbestos fibre (high impact poly propelene reinforced) cement plain wing adjustable ridge	metre	200.00
0227	Non - Asbestos fibre (high impact poly propelene reinforced) cement unserrated adjustable ridge for hips	metre	300.00
0228	Non - Asbestos fibre (high impact poly propelene reinforced) cement corrugated apron piece	metre	225.00
0229	Non - Asbestos fibre (high impact poly propelene reinforced) cement eaves filler piece	each	175.00
0230	Non - Asbestos fibre (high impact poly propelene reinforced) cement north light curves	metre	310.00

## **BASIC RATES (SH: 12.0 ROOFING)**

Code No.	Description	Unit	Rate ₹
0231	Non - Asbestos fibre (high impact poly propelene reinforced) cement ventilator curves	each	410.00
0232	Non - Asbestos fibre (high impact poly propelene reinforced) cement barge boards 6 mm thick	metre	410.00
0233	Non - Asbestos fibre (high impact poly propelene reinforced) cement ridge finial	pair	160.00
0234	Non - Asbestos fibre (high impact poly propelene reinforced) cement special north light curves	each	550.00
0235	Non - Asbestos fibre (high impact poly propelene reinforced) cement S type louvers	each	250.00
0236	Non - Asbestos multi purpose fibre (high impact poly propelene reinforced) cement board 6 mm thick	sqm	200.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1200.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1050.00
0308	Bhusa	quintal	400.00
0309	Paving bitumen of grade VG-10 of approved quality	tonne	40000.00
0314	Bitumen hot sealing compound : grade A	kilogram	26.00
0328	White face insulating board:12 mm thick	sqm	360.00
0332	Natural colour insulating board:12 mm thick	sqm	270.00
0336	Flame retardant face insulating board: 12 mm thick	sqm	315.00
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	325.00
0367	Portland Cement	tonne	5240.00
0368	White Cement	tonne	14000.00
0370	Coal (steam)	quintal	400.00
0452	Brass screws 25 mm	100 Nos	95.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	50.00
0765	Hessian cloth	sqm	25.00
0771	Kerosene oil	litre	45.00
0811	Mud (dry)	cum	60.00
0845	Roofing paint for iron sheets in red colour	litre	120.00
0865	Piglead	kilogram	125.00
0869	Plaster of Paris	kilogram	4.00
0870	Plug	each	10.00
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	75.00

Code No.	Description	Unit	Rate ₹
0886	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	25.00
0966	Sand Cast iron plain shoe 150 mm dia	each	325.00
0982	Coarse sand (zone III)	cum	1120.00
0992	Galvanised steel plain sheets	quintal	5200.00
0994	Standard quality hard board sheet 3 mm thick	sqm	125.00
0996	Standard quality hard board sheet 4.5 mm thick	sqm	150.00
1001	Spun yarn	kilogram	40.00
1008	Flats up to 10 mm in thickness	quintal	4200.00
1015	Mild steel expanded metal 20x60 mm strands	sqm	290.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	25.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	110.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	12.00
1025	Mild steel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	30.00
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	25.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	20.00
1174	Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	172.00
1175	White sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	225.00
1190	Second class teak wood in planks	10 cudm	725.00
1196	First class kail wood in planks	10 cudm	310.00
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	482.00
1207	G.I. Limpet washer	100 Nos	35.00
1208	Bitumen washer	100 Nos	30.00
1209	G.I. plain washer thick	100 Nos	35.00
1210	G.I. plain washer thin	100 Nos	32.00
1211	G.I. plain washer for seam bolts	100 Nos	30.00
1213	Water proofing materials	kilogram	32.00
1219	Wire nails	kilogram	60.00
1220	Wire mesh (rabbit)	sqm	45.00
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	20.00
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	4800.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	106.64

Code No.	Description	Unit	Rate ₹
2203	Carriage of coarse sand	cum	106.64
2204	Carriage of timber	cum	121.88
2205	Carriage of steel	tonne	94.80
2207	Carriage of brick tiles	1000 Nos	170.63
2209	Carriage of cement	tonne	94.80
2211	Carriage of tar / bitumen	tonne	106.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	94.80
2273	Carriage of A.C.sheet and accessories	tonne	94.80
2302	Carriage of G.I.sheet and accessories	tonne	94.80
2308	Carriage of plaster of paris	tonne	94.80
3002	Polyvinyle chloride sheet 400 micron thick	sqm	35.00
3004	Stone ware spouts 100 mm dia 60 cm long	each	35.00
3050	Galvanised steel corrugated sheets	quintal	5400.00
4009	Mild steel tubes hot finished welded type	kilogram	52.00
4202	Red oxide Zinc chromate primer	litre	70.00
7009	12.5 mm thick tapered edge gypsum plain borad	sqm	200.00
7010	Galvanised Steel celling section (size 80x26x0.50 mm)	metre	39.00
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	27.00
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	42.00
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	19.00
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long Gl wire)	each	6.20
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	4.00
7016	Joint filler	kilogram	22.00
7017	Joint finisher	kilogram	24.00
7018	Joint tape roll	roll	145.00
7019	Dash fastener / Chemical fastner	each	15.00
7020	All drive screws ( for gypsum board)	100 Nos	60.00
7021	Primer ( for gypsum board)	litre	85.00
7028	12.5 mm thick Fully Perforated gypsum board	sqm	927.00
7030	12.5 mm thick tapered edge gypsum fire resistant board	sqm	237.00
7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	271.00
7050	PU Primer	sqm	41.00
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	421.00
7052	GI wire netting 3/4" x 24 G	sqm	27.00

Code No.	Description	Unit	Rate ₹
7053	400 G polythene sheet	sqm	15.00
7090	Expanded polystyrene type N- Normal	sqm	130.00
7091	Expanded polystyrene type - SE	sqm	155.00
7187	C.I. grating 150 mm dia, weighing not less than 440 gm	each	25.00
7188	uPVC pipes (working pressure 4 kg / cm 2 ) Single socketed pipe 75 mm dia	metre	67.00
7189	uPVC pipes (working pressure 4 kg / cm 2 ) Single socketed pipe 110 mm dia	metre	129.00
7190	uPVC pipes (working pressure 4 kg / cm 2 ) Rubber (Seal) Ring 75 mm dia	each	16.00
7191	uPVC pipes (working pressure 4 kg / cm 2 ) Rubber (Seal) Ring 110 mm dia	each	20.00
7192	UPVC coupler for UPVC drainage pipes 75 mm	each	34.00
7193	UPVC coupler for UPVC drainage pipes 110 mm	each	52.00
7194	UPVC pushfit coupler (single) 75 mm thick	each	50.00
7195	UPVC pushfit coupler (single) 110 mm thick	each	81.00
7196	UPVC single equal Tee (without door) 75x75x75 mm	each	95.00
7197	UPVC single equal Tee (without door) 110x110x110 mm	each	128.00
7198	UPVC single equal Tee (with door) 75x75x75 mm	each	115.00
7199	UPVC single equal Tee (with door) 110x110x110 mm	each	180.00
7208	uPVC bend 87.5° 75 mm bend	each	56.00
7209	uPVC bend 87.5° 110 mm bend	each	95.00
7212	UPVC plain shoe 75 mm bend	each	107.00
7213	UPVC plain shoe 110 mm bend	each	207.00
7214	UPVC pipe clip 75 mm bend	each	16.00
7215	UPVC pipe clip 110 mm bend	each	31.00
7231	Resin Bonded Glass wool 16 kg/ m3: 50 mm thick	sqm	145.00
7232	Resin Bonded Glass wool 24 kg/ m3: 50 mm thick	sqm	204.00
7238	High Albedo paint	kg	246.00
7266	Pressed clay tiles 20mm thick 250x250 mm size	1000 Nos	12150.00
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	120.00
7268	Semi perforated ceiling tiles (600x600x12 mm)	each	120.00
7273	Resin Bonded Rockwool 48 kg/m3	sqm	211.00
7385	3 mm thick translucent white acrylic plastic sheet	sqm	570.00
7386	12 mm thick particle board ceiling tile	sqm	260.00

Code No.	Description	Unit	Rate ₹
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	50.00
7857	P.T.M.T. Grating square slit 150 mm	each	77.00
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	5250.00
8589	Calcium Silicate tegular edged celling tiles 595x595 mm and 15 mm thick	sqm	858.00
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long)	each	192.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	125.00
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	77.00
8593	Galvanised Steel intermediate cross T section Size $24 \times 25 \times 0.33$ mm ( 0.6 metre long)	each	39.00
8594	Galvanised Steel soffit cleat size 25x35x1.60 mm	each	3.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	0.60
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	895.00
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	1000.00
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	809.00
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	906.00
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	468.00
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	484.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	180.00
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	155.00
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	164.00
8607	Spring T-connector	each	5.00
8608	C Carrier Connector	each	11.00
8609	C Suspension Clip	each	11.00
8610	Wire Coupling Clip	each	9.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	187.00
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	118.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long)	each	72.00

Code No.	Description	Unit	Rate ₹
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long)	each	34.00
8615	Hanger rod 4 mm thick	each	8.00
8616	Adjustment clip 85x30x0.8 mm	each	6.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	3.00
8618	Dash fastener 6 mm dia 50 mm long	each	11.00
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	465.00
8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	538.00
8669	Mangalore ridge tiles 20 mm thick	each	29.00
8670	Mangalore tiles 20 mm thick	each	10.50
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	435.00
8672	Precoated galvanised steel plain ridges	metre	440.00
8673	Precoated galvanised steel flashings/aprons	metre	440.00
8674	Precoated galvanised steel gutter	metre	455.00
8675	Precoated galvanised steel north light curves	metre	455.00
8676	Precoated galvanised steel barge board	metre	445.00
8677	Precoated galvanised steel crimp curve	sqm	475.00
8699	8 mm thick tapered edge calcium silicate board	sqm	368.00
8784	8 mm thick Calcium silicate perforated tiles of size 595 x595 mm	sqm	688.00
9999	Sundries	L.S.	1.70

# 12.0 ROOFING

Code No.	Descrip	tion	Unit	Rate ₹
12.1	surface mm dian washers primer a complete excludin	g corrugated G.S. sheet roofing including vertical / curved fixed with polymer coated J or L hooks, bolts and nuts 8 neter with bitumen and G.I. limpet washers or with G.I. limpet is filled with white lead, including a coat of approved steel and two coats of approved paint on overlapping of sheets e (up to any pitch in horizontal/ vertical or curved surfaces), g the cost of purlins, rafters and trusses and including cutting nd shape wherever required.		
	12.1.1	1.00 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	sqm	957.70
	12.1.2	0.80 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	sqm	813.35
	12.1.3	0.63 mm thick with zinc coating not less than 275 gm/ $m^2$	sqm	690.40
12.2		straight cutting in C.G.S. sheet roofing for making opening of ceeding 40 sq. decimeter for chimney stacks, sky light etc. :		
	12.2.1	1.00 mm thick	metre	40.05
	12.2.2	0.80 mm thick	metre	32.05
	12.2.3	0.63 mm thick	metre	32.05
12.3		circular cutting in C.G.S. sheet roofing for making opening exceeding 40 sq. decimeter :		
	12.3.1	1.00 mm thick	metre	228.40
	12.3.2	0.80 mm thick	metre	182.45
	12.3.3	0.63 mm thick	metre	182.45
12.4	fixed wit	g ridges or hips of width 60 cm overall width plain G.S. sheet h polymer coated J. or L hooks, bolts and nuts 8 mm dia et and bitumen washers complete.		
	12.4.1	0.80 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	metre	539.45
	12.4.2	0.63 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	metre	475.10
12.5	polymer	g valleys of 90 cm wide overall in plain G.S. sheet fixed with coated J, or L hooks, bolts and nuts 8 mm dia G.I. limpet men washers complete :		
	12.5.1	1.60 mm thick with zinc coating not less than 350 gm/m <sup>2</sup>	metre	1,005.90
12.6	with poly bitumen	g and fixing of 40 cm overall width plain G.S. sheet fixed ymer coated J, or L hooks, bolts and nuts, G.I. limpet and washer complete, bent to shape and fixed in wall with mortar 1:3 (1cement : 3 coarse sand).		
	12.6.1	1.00 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	metre	409.10
12.7	G.S. she washers	g and fixing 15 cm wide, 45 cm overall semi-circular plain eet gutter with iron brackets 40x3mm size, bolts, nuts and s etc., including making necessary connections with rain pes complete.		
	12.7.1	0.80 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	metre	507.55
	12.7.2	0.63 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	metre	454.00

Code No.	Descript	ion	Unit	Rate ₹
	NON AC	SHEET ROOFING		
12.8	6 mm thic pitch and mm dia. 0 and EPD	non-asbestos high impact Polypropylene reinforced cement ck corrugated sheets (as per IS: 14871) roofing up to any fixing with polymer coated J, or L hooks, bolts and nuts 8 G.I. plain and bitumen washers or with self drilling fastener M washers etc. complete (excluding the cost of purlins, nd trusses), including cutting sheets to size and shape required.	sqm	389.45
12.9	cement c making o	straight cutting in non- asbestos polypropylene reinforced corrugated, semi-corrugated 6 mm thick sheet roofing for penings of area exceeding 40 square decimeter for chimney kylights etc.	metre	32.05
12.10	Extra for cement c	circular cutting in non-asbestos polypropylene reinforced orrugated/semi-corrugated 6 mm thick sheet roofing for		
40.44	•	penings of area exceeding 40 square decimeter.	metre	88.55
12.11 12.12	Providing	providing and fixing wind ties of 40x 6 mm flat iron section. g and fixing ridges and hips in non-asbestos fibre cement act polypropylene reinforced roofing with suitable fixing	metre	112.25
		ies or self drilling fastener and EPDM washer etc. complete.		
	12.12.1	Corrugated serrated adjustable ridges	metre	338.45
	12.12.2	Plain wing adjustable ridges	metre	324.45
	12.12.3	Close fitting adjustable ridges	metre	385.15
	12.12.4	Unserrated adjustable hips	metre	463.75
	NON AC	ACCESSORIES		
12.13	polyprop polymer o and nuts,	g and fixing non-asbestos fibre cement high impact ylene reinforced roofing accessories in all colours with coated J or L hooks, bolts and nuts and or G.I. seam bolts G.I. plain and bitumen washers or with self drilling fastener M washer etc. complete:		
	12.13.1	Corrugated apron pieces	metre	326.30
	12.13.2	Eave's filler pieces	metre	233.35
	12.13.3	North light curves	metre	434.25
	12.13.4	Ventilator curves	metre	556.95
	12.13.5	Barge boards	metre	540.40
	12.13.6	Ridge finials	pair	216.45
	12.13.7	Special north light curves	each	725.25
	12.13.8	S type louvers	metre	316.60
12.14		flat iron brackets 50x3 mm size with necessary bolts, nuts ners etc. for fixing asbestos cement / G.S. sheets gutters ns.	metre	50.65
12.15	Painting 10 sqm ir sqm, incl	top of roofs with bitumen of approved quality @ 17kg per npregnated with a coat of coarse sand at 60 cudm per 10 uding cleaning the slab surface with brushes and finally ace of cloth lightly soaked in kerosene oil complete :		
	12.15.1	With residual type petroleum bitumen of grade VG - 10	sqm	117.80

Code No.	Description	Unit	Rate ₹
12.16	10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat :		
	12.16.1 With common burnt clay F.P.S.(non modular) brick tile of class designation 10	sqm	501.55
12.17	10cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar with bhusha @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow-dung) and covered with machine moulded tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat.		
	12.17.1 With machine moulded common burnt clay F.P.S. (non modular) brick tiles of class designation 12.5, conforming to IS 2690	sqm	510.35
12.18	Extra for every additional 1 cm thickness of mud phaska.	sqm	10.15
12.19	Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat :		
	12.19.1 With common burnt clay F.P.S. (non modular) brick tiles of class designation 10	sqm	381.20
12.20	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.	sqm	459.40
12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :		
	12.21.1 In 75x75 mm deep chase	metre	127.95
12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	each	167.45
12.23	Providing sand stone slab for roofing and laying them in cement mortar 1 : 4 (1 cement : 4 coarse sand) over wooden karries or R.C.C. battens or structural steel sections (Karries or battens or structural steel sections to be paid separately), including pointing the ceiling joints with cement mortar 1:3 (1 cement : 3 fine sand ) complete :		
	12.23.1 Red sand stone slab		

Code No.	Descriptio	on	Unit	Rate ₹
	12.23.1.1	40 to 50 mm thick	sqm	444.05
	12.23.2	White sand stone slab		
	12.23.2.1	40 to 50 mm thick	sqm	511.80
	CEILING			
12.24	-	and fixing insulating board ceiling of approved quality with nails etc. complete (frame work to be paid separately) :		
	12.24.1	Natural colour insulating board		
	12.24.1.1	12 mm thick	sqm	549.15
	12.24.2	White face insulating board		
	12.24.2.1	12 mm thick	sqm	664.10
	12.24.3	Flame retardant face insulating board		
	12.24.3.1	12 mm thick	sqm	606.60
12.25	or graded	and fixing flat pressed 3 layer medium density particle board particle board (Grade I) IS: 3087 marked, in ceiling with nails etc. complete (frame work to be paid separately) :		
	12.25.1	12 mm thick	sqm	618.90
12.26	steam cure	and fixing plain Multipurpose Cement board ( High Pressure ed ) as per IS : 14862, with suitable screws for fibre cement eiling etc. complete (frame work to be paid separately) :		
	12.26.1	6 mm thick cement board	sqm	459.20
12.27	Extra for C	Circular cutting including wastages in ceiling with:		
	12.27.1	2nd class teak wood planks 20 mm thick	metre	377.00
	12.27.2	Natural colour insulating board		
	12.27.2.1	12 mm thick	metre	197.25
	12.27.3	White face insulating board:		
	12.27.3.1	12 mm thick	metre	211.55
	12.27.4	Flame retardant face insulating board:		
	12.27.4.1	12 mm thick	metre	204.40
	12.27.5	Standard quality hard board sheet:		
	12.27.5.1	3 mm thick	metre	174.10
	12.27.5.2	4.5 mm thick	metre	178.10
12.28	Extra for p widths	roviding and fixing ceiling to curved surfaces in narrow	sqm	156.55
12.29	perforated formaldeh conforming both sides of approve anodised al	and fixing false ceiling with 12 mm thick plain/ semi d or with design ceiling tiles of BWP type phenol byde synthetic resin bonded pressed particle board g to IS:3087, finished with a coat of aluminium primer on & edges, including two coats of synthetic enamel paint ed quality on exposed face, fixed to a grid made out of uminium (with 15 micron anodic coating) T-sections 35 x15x1.5 nain runners, cross runners 23.5x19x1.5 mm fixed to		

Code No.	Descriptio	on	Unit	Rate ₹
	form a gric from ceilin roof slab suspende including f priming co	ers placed 600 mm centre to centre both ways so as to of 600 mm square. The frame work shall be suspended g by level adjusting hangers of 6 mm dia M.S rod fixed to by means of ceiling cleats and dash fastener. The rs shall be placed 600 x 1200 mm centre to centre ixing to the frame with C.P brass screws and applying a at of zinc chromate yellow primer (aluminium frame work hid separately).	sqm	629.55
12.30	of approve	roviding 3 mm thick translucent white acrylic plastic sheets ed quality in false ceiling instead of 12 mm thick plain or ticle board ceiling tiles.	sqm	360.05
12.31	up to a heig 25x6 mm v	10 mm thick plaster of Paris (gypsum anhydrous) ceiling ght of 5 m above floor level, over first class kail wood strips with 10 mm gap in between and reinforced with rabbit wire d to wooden frame (frame work to be paid separately) :		
	12.31.1	Flat surfaces	sqm	770.25
	12.31.2	Curved surfaces	sqm	890.45
12.32	Extra for s anhydrous	unk or raised mouldings in the plaster of Paris (Gypsum	sqm	224.75
12.33		providing plaster of Paris (Gypsum anhydrous) ceiling etres height from floor level.	sqm per metre height	92.35
12.34	with Resin 24kg / m <sup>3</sup> , fixed to ce	fixing thermal insulation of ceiling (under deck insulation) Bonded Fibre glass wool conforming to IS : 8183, density 50mm thick, wrapped in 200 G Virgin Polythene bags, eiling with metallic cleats ( $50x50x3$ mm) @ 60 cm and of 12.5 mm x 24 gauge wire mesh, for top most ceiling	sqm	465.10
12.35	Providing a wool confo in 200G V	and fixing thermal insulation with Resin Bonded Fibre glass rming to IS: 8183. Density 16 kg/m <sup>3</sup> , 50 mm thick, wrapped irgin Polythene bags placed over existing false ceiling position by criss-crossing GI wire.	sqm.	235.60
12.36		nsulation of roofing with Expanded polystyrene fixed with dhesive to the false ceiling as per the directions of the n-charge :		
	12.36.1	With Type N - Normal 50 mm thick	sqm	209.50
	12.36.2	With Type SE - Self Extinguishing type 50 mm thick	sqm	241.45
	RAIN WA	TER SPOUT AND PIPE	·	
12.37		and fixing 100 mm diameter and 60 cm long rain water ement mortar 1:4 (1 cement : 4 fine sand).		
	12.37.1	Stone ware spout	each	77.60
12.38.	C.I. or S.C concrete b sand : 4 gr	and fixing M.S. holder bat clamps of approved design to C.I. rain water pipes embedded in and including cement blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse raded stone aggregate 20 mm nominal size) and cost of les and making good the walls etc. :		
	12.38.1	100 mm diameter	each	140.65
	12.38.2	150 mm diameter	each	146.45

SUBHEAD -12.0 ROOFING

Code No.	Descriptio	on	Unit	Rate ₹
12.39	Providing fittings :	lead caulked joints to sand cast iron rain water pipes and		
	12.39.1	100 mm dia Pipe	each	270.85
	12.39.2	150 mm dia Pipe	each	376.65
12.40	water pipe	fixing and embedding sand cast iron accessories for rain es in the masonry surrounded with 12 mm thick cement the same mix, as that of masonry (lead caulking will be parately):		
	12.40.1	Sand cast iron plain shoes :		
	12.40.1.1	150 mm diameter	each	412.15
12.41	pipes conf ring confor	and fixing on wall face unplasticised Rigid PVC rain water forming to IS : 13592 Type A, including jointing with seal ming to IS : 5382, leaving 10 mm gap for thermal expansion, socketed pipes.		
	12.41.1	75 mm diameter	metre	134.50
	12.41.2	110 mm diameter	metre	218.60
12.42	accessorie to IS : 135	and fixing on wall face unplasticised - PVC moulded fittings/ es for unplasticised Rigid PVC rain water pipes conforming 92 Type A, including jointing with seal ring conforming to leaving 10 mm gap for thermal expansion.		
	12.42.1	Coupler		
	12.42.1.1	75 mm	each	100.55
	12.42.1.2	110 mm	each	133.55
	12.42.2	Single pushfit Coupler		
	12.42.2.1	75 mm	each	119.10
	12.42.2.2	110 mm	each	167.25
	12.42.3	Single tee with door		
	12.42.3.1	75x75x75 mm	each	210.55
	12.42.3.2	110x110x110 mm	each	305.35
	12.42.4	Single tee without door		
	12.42.4.1	75x75x75 mm	each	187.35
	12.42.4.2	110x110x110 mm	each	244.95
	12.42.5	Bend 87.5°		
	12.42.5.1	75 mm bend	each	107.50
	12.42.5.2	110 mm bend	each	160.25
	12.42.6	Shoe (Plain)		
	12.42.6.1	75 mm Shoe	each	166.75
	12.42.6.2	110 mm Shoe	each	290.35
12.43	to unplasti	and fixing unplasticised -PVC pipe clips of approved design cised - PVC rain water pipes by means of 50x50x50 mm d plugs, screwed with M.S. screws of required length,		

Code No.	Descripti	on	Unit	Rate ₹
	-	cutting brick work and fixing in cement mortar 1:4 (1 cement estimation stand) and making good the wall etc. complete.		
	12.43.1	75 mm	each	156.30
	12.43.2	110 mm	each	173.75
12.44	-	and fixing to the inlet mouth of rain water pipe cast iron 5 cm diameter and weighing not less than 440 grams.	each	37.25
12.45	fixing of fr M.S. shee side inclu 25 mm w 1200 mm fastener 1 of cleat fit length with hanger fix at the spa section 0. of 26 mm shall be fix with conn wire at ev thick 27 r perimeter at 450 m interval, i perimeter mm at 23 of tapered compoun layers cov primer sui also inclu diffusers, fixed, all of the Engin	and fixing false ceiling at all height including providing and ame work made of special sections, power pressed from ats and galvanized with zinc coating of 120 gms/sqm (both sive) as per IS : 277 and consisting of angle cleats of size ide x 1.6 mm thick with flanges of 27 mm and 37mm, at centre to centre, one flange fixed to the ceiling with dash 2.5 mm dia x 50mm long with 6mm dia bolts, other flange xed to the angle hangers of $25 \times 10 \times 0.50$ mm of required th nuts & bolts of required size and other end of angle ted with intermediate G.I. channels $45 \times 15 \times 0.9$ mm running acing of 1200 mm centre to centre, to which the ceiling 5 mm thick bottom wedge of 80 mm with tapered flanges each having lips of 10.5 mm, at 450 mm centre to centre, ked in a direction perpendicular to G.I. intermediate channel ecting clips made out of 2.64 mm dia x 230 mm long G.I. rery junction, including fixing perimeter channels 0.5 mm nm high having flanges of 20 mm and 30 mm long, the of ceiling fixed to wall/partition with the help of rawl plugs m centre, with 25mm long dry wall screws @ 230 mm ncluding fixing of gypsum board to ceiling section and channel with the help of dry wall screws of size $3.5 \times 25$ 0 mm c/c, including jointing and finishing to a flush finish and square edges of the board with recommended jointing d , jointing tapes , finishing with jointing compound in 3 vering upto 150 mm on both sides of joint and two coats of itable for board, all as per manufacturer's specification and ding the cost of making openings for light fittings, grills, cutouts made with frame of perimeter channels suitably complete as per drawings, specification and direction of eer in Charge but excluding the cost of painting with :		
	12.45.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I	sqm	804.80
	12.45.2	12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I	sqm	849.95
	12.45.3	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	891.40
	12.45.4	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- in-charge 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	1,691.40

Code No.	Descriptio	on	Unit	Rate ₹
12.46	Engineerir	and fixing to the inlet mouth of rain water pipe PTMT (an ng Thermoplastic) grating square (Slit) 150 mm square µht of 8 mm and weighing not less than 100 gms.	each	97.65
12.47	roofing up hooks, bol but exclud shall be ma minimum approxima pigmentati to IS 10192	& fixing UV stabilised fiberglass reinforced plastic sheet to any pitch, including fixing with polymer coated 'J' or 'L' ts & nuts 8mm dia. G.I plain/bitumen washers complete ling the cost of purlins, rafters, trusses etc. The sheets anufactured out of 2400 TEX panel rovigs incorporating 0.3% ultra-violet stabiliser in resin system under ately 2400 psi and hot cured. They shall be of uniform ion and thickness without air pockets and shall conform 2 and IS 12866.The sheets shall be opaque or translucent, gmented, textured or smooth as specified.		
	12.47.1	2mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6" ) as specified	sqm	960.50
	12.47.2	2mm thick flat	sqm	850.00
12.48	nominal thi on steel f	& fixing on roof pressed clay tile (Mangalore tile) of 20 mm ickness and of approved size and as per approved pattern rame work complete (steel frame work to be paid		
	separately	, ,	sqm	268.40
12.49	20mm thic	& laying on roof pressed clay tile ridge (Mangalore tile) of ckness and of approved pattern on steel frame work steel frame work to be paid separately).	sqm	130.00
12.50	shape and 0.50 mm ( grams per epoxy prim microns. S minimum t supplied in in-charge. screws of pitch in hor	and fixing precoated galvanised iron profile sheets (size, pitch of corrugation as approved by Engineer-in-charge) + 0.05 %) total coated thickness with zinc coating 120 sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns her on both side of the sheet and polyester top coat 15-18 Sheet should have protective guard film of 25 microns to avoid scratches during transportation and should be a single length upto 12 metre or as desired by Engineer- The sheet shall be fixed using self drilling /self tapping size (5.5x 55 mm) with EPDM seal, complete upto any rizontal/ vertical or curved surfaces, excluding the cost of fters and trusses and including cutting to size and shape equired.	sqm	615.35
12.51	Providing accessorie 120 grams microns ep	and fixing precoated galvanised steel sheet roofing es 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating s per sqm as per IS: 277, in 240 mpa steel grade, 5-7 poxy primer on both side of the sheet and polyester top microns using self drilling/ self tapping screws complete :	·	
	12.51.1	Ridges plain (500 - 600mm)	metre	629.25
	12.51.2	Flashings/Aprons.(Upto 600 mm)	metre	606.70
	12.51.3	North light curves	metre	658.55
	12.51.4	Barge board (Upto 300 mm)	metre	572.00
	12.51.5	Crimp curve	sqm	630.20
	12.51.6	Gutter .(600 mm over all girth)	metre	796.05

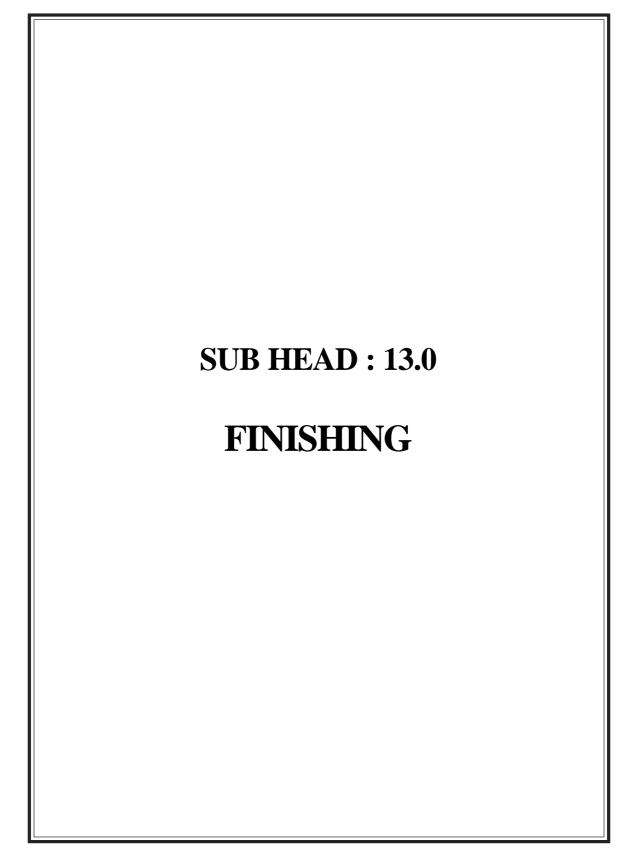
Code No.	Descripti	on	Unit	Rate ₹
12.52	595x595 i grid of hot spaced jo 0.30 mm and cross sheet, 12 center to length 600 sheet to b grids of 60 false ceili cutting/ma fixtures, s ceiling us ceiling wit adjustable mm space width of 2 paint, all o	and fixing tiled false ceiling of approved materials of size mm in true horizontal level, suspended on inter locking metal dipped galvanized steel sections (galvanized @ 120 grams/ a side inclusive) consisting of main "T" runner with suitably bints to get required length and of size 24x38 mm made from thick (minimum) sheet, spaced at 1200 mm center to center a "T" of size 24x25 mm made of 0.30 mm thick (minimum) 00 mm long spaced between main "T" at 600 mm center to form a grid of 1200x600 mm and secondary cross "T" of 0 mm and size 24x25 mm made of 0.30 mm thick (minimum) be interlocked at middle of the 1200x600 mm panel to form 00x600 mm and wall angle of size 24x24x0.3 mm and laying ng tiles of approved texture in the grid including, required aking, opening for services like diffusers, grills, light fittings, moke detectors etc. Main "T" runners to be suspended from ing GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to th 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI e rods with galvanised butterfly level clips of size 85 x 30 x 0.8 ed at 1200 mm center to center along main T, bottom exposed 24 mm of all T-sections shall be pre-painted with polyester complete for all heights as per specifications, drawings and d by Engineer-in-charge.		
	12.52.1	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	1,518.85
	12.52.2	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	1,637.15
	12.52.3	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	1,103.00
	12.52.4	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	·	

Code No.	Description	Unit	Rate ₹
	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	1,122.50
12.53	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture spintone/cosmos / Hexa or equivalent 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 (Spintone / Cosmos/hexa) 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 GI. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI. 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 T-sections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by engineer-in-charge.		
	Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non - combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/m 0 KC.	sqm	1,614.40
12.54	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and		

Code No.	Descripti	on	Unit	Rate ₹
	spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring 'T' with :			
	12.54.1	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, 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	1,658.80
	12.54.2	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.	sqm	1,786.90
12.55	mm x 20 r > 0.70 and of terrace 1:4 (1 cer white cerr polishing	and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm) with SRI (solar refractive index) > 78, solar reflection d initial emittance > 0.75 on waterproof and sloped surface e, laid on 20 mm thick cement sand mortar in the ratio of ment : 4 coarse sand) and grouting the joints with mix of nent & marble powder in ratio of 1:1, including rubbing and of the surface upto 3 cuts complete, including providing pto 150 mm height along the parapet walls in the same	sqm	1,108.70
12.56	Providing sprayed, c conformir cum), ove litre, layin wearing c 2 coarse s rough fini- wire netti	and laying roof insulation with 40 mm thick impervious closed cell free Rigid Polyurethane foam over deck insulation ing to IS - 12432 Pt. III (density of foam being 40-45 kg/ er a coat of polyurethane primer applied @ 6-8 sqm per g 400 G polythene sheet over PUF spray and providing a course of 40 mm thick cement screed 1: 2 : 4 (1 cement : cand : 4 stone aggregate 20 mm nominal size) in chequered sh, in panels of 2.5 m x 2.5 m and embedding with 24 G ng and sealing the joints with polymerized mastic, all as per direction of Engineer-in-Charge.	sqm	1,143.25
12.57	Providing wool conf wrapped rawel plug	and fixing thermal insulation with Resin Bonded Fibre glass orming to IS: 8183 having density 24 kg/m3, 50 mm thick, in 200G Virgin Polythene Bags fixed to wall with screw, g & washers and held in position by criss crossing GI wire		
12.58	Providing 595x595 r grid of hot sqm, both spaced jo from 0.30 center an	and fixing tiled false ceiling of approved materials of size mm in true horizontal level, suspended on interlocking metal dipped galvanized steel sections (galvanized @ 120 grams/ side inclusive) consisting of main "T" runner with suitably pints to get required length and of size 24x38 mm made mm thick (minimum) sheet, spaced at 1200 mm center to ad cross "T" of size 24x25 mm made of 0.30 mm thick h) sheet, 1200 mm long spaced between main "T" at 600	sqm	314.95

Code No.	Description	Unit	Rate ₹
	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.		
	12.58.1 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm, of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.	sqm	1,331.75
12.59	Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I chanels 45 x15 x 0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm c/c, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of 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		

Code No.	Description	Unit	Rate ₹
	opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specificaton and direction of the Engineer in charge but excluding the cost of painting with:		
	12.59.1 a. 8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.	sqm	1,008.85
12.60	Providingand fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Rockwool conforming to IS: 8183,density 48 kg/m3, 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	474.05
12.61	Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m3, 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceilng and held in position by criss- crossing GI wire.	sqm	319.90
12.62	Providing and fixing thermal insulation with Resin Bonded rock wool conforming to IS: 8183, having density 48 kg/m3,50 mm thick,wrapped in 200 G Virgin Polythene Bags fixed to wall wirh screw, rawel plug & washers and held and in position by criss cossing GI wire etc. complete as per directions of Engineer-in-Charge.	sqm	323.85
12.63	Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM) C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall strctly as per manufacturer's specifications and as approved by engineer In charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the perfomance of SRI and also the durabitity of coating, all complete as per direction of Engineer-in-incharge.	sqm	249.70



Code No.	Description	Unit	Rate ₹
0101	Bhisti	day	328.00
0112	Carpenter 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0122	Mason (for plaster of paris work) 1 st class	day	393.00
0123	Mason (brick layer) 1 st class	day	393.00
0131	Painter	day	361.00
0141	White Washer	day	328.00
0155*	Mason (average)	day	377.00
0156*	Carpenter (average)	day	377.00
0324	Coal Tar	litre	30.00
0367	Portland Cement	tonne	5240.00
0368	White Cement	tonne	14000.00
0763	Glue	kilogram	68.00
0771	Kerosene oil	litre	45.00
0775	Dehradun white lime	quintal	480.00
0776	Satna lime	quintal	300.00
0777	Dry hydrated lime (factory made)	quintal	230.00
0801	Silicon and acrylic emulsion	litre	200.00
0802	Acrylic distemper 1st quality , having VOC content less than 50 grams/ litre	Kg	38.00
0803	Acrylic emulsion , having VOC content less than 50 grams/ litre	litre	250.00
0804	Premium acrylic emulsion of interior grade, having VOC content less than 50 grams/ litre	litre	350.00
0805	Synthetic enamel paint , having VOC (Volatile Organic Compound) content less than 150 grams/ litre	litre	220.00
0806	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	litre	120.00
0807	Ready mixed red oxide zinc chromatic on steel/ iron work, having VOC content less than 250 grams/ litre	litre	130.00
0808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre	litre	60.00

# **BASIC RATES (SH: 13.0 FINISHING)**

Code No.	Description	Unit	Rate ₹
0815	Dry distemper	kilogram	36.00
0816	Oil bound washable distemper/Acrylic distemper	kilogram	45.00
0818	Linseed oil (double boiled)	litre	110.00
0820	Cement primer	litre	90.00
0821	Distemper primer	litre	90.00
0823	Pink primer (for wood)	litre	90.00
0826	Aluminium paint	litre	130.00
0827	Acid proof paint (chocolate or black)	litre	150.00
0828	Anticorrosive bituminous paint (black)	litre	90.00
0829	Black Japan paint	litre	95.00
0830	Enamel paint	litre	160.00
0831	Floor enamel paint in all shades except green	litre	120.00
0833	Synthetic enamel paint in black or chocolate shade	litre	130.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	140.00
0835	Plastic emulsion paint	litre	180.00
0850	White lead	kilogram	90.00
0851	Water proofing cement paint	kilogram	45.00
0855	Wax polish (ready made)	kilogram	200.00
0856	Ordinary varnish	litre	75.00
0857	Superior copal varnish	litre	125.00
0858	Superior spar varnish	litre	125.00
0859	Oil type wood preservative	litre	80.00
0868	Premixed super white gypsum plaster.	kg	7.00
0869	Plaster of Paris	kilogram	4.00
0982	Coarse sand (zone III)	cum	1120.00
0999	Shellac	kilogram	210.00
1000	Spirit	litre	70.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	950.00
1198	Second class kail wood in planks	10 cudm	260.00
1213	Water proofing materials	kilogram	32.00
1216	Whiting	quintal	500.00

Code No.	Description	Unit	Rate ₹
2202	Carriage of stone aggregate below 40 mm nominal size	cum	106.64
2203	Carriage of coarse sand	cum	106.64
2209	Carriage of cement	tonne	94.80
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1100.00
4201	Aluminium primer	litre	100.00
4202	Red oxide Zinc chromate primer	litre	70.00
4203	Copper acetate	kilogram	300.00
4204	Hydrochloric acid	kilogram	35.00
4205	Copper chloride	kilogram	300.00
4206	Copper nitrate	kilogram	220.00
4207	Ammonium chloride	kilogram	20.00
7239	Epoxy paint	litre	250.00
7240	Fire retardant paint	litre	260.00
7306	Aluminium T or L sections	kilogram	200.00
8504	Multi surface paint	litre	275.00
8505	Acrylic exterior paint	litre	140.00
8506	Premium Acrylic exterior paint	litre	235.00
8507	Textured exterior paint	litre	200.00
8509	Special Primer (C.W.)	litre	83.00
8510	Metal Primer (U.G.)	litre	120.00
8733	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	365.00
9999	Sundries	L.S.	1.70

#### Code Unit Rate Description No. ₹ Note :- Rates for external plaster are for height upto 10m from ground level unless otherwise stated. **CEMENT PLASTER (IN FINE SAND)** 13.1 12 mm cement plaster of mix : 13.1.1 1:4 (1 cement: 4 fine sand) 145.40 sqm 13.1.2 1:6 (1 cement: 6 fine sand) 133.85 sqm 13.2 15 mm cement plaster on the rough side of single or half brick wall of mix : 13.2.1 1:4 (1 cement: 4 fine sand) sqm 168.55 13.2.2 1:6 (1 cement: 6 fine sand) 154.70 sqm 13.3 20 mm cement plaster of mix : 13.3.1 1:4 (1 cement: 4 fine sand) 202.75 sqm 13.3.2 1:6 (1 cement: 6 fine sand) 184.70 sqm **CEMENT PLASTER (IN COARSE SAND)** 13.4 12 mm cement plaster of mix : 13.4.1 1:4 (1 cement: 4 coarse sand) sqm 153.85 13.4.2 1:6 (1 cement: 6 coarse sand) 142.25 sqm 15 mm cement plaster on rough side of single or half brick wall of mix : 13.5 13.5.1 1:4 (1 cement: 4 coarse sand) sqm 178.60 13.5.2 1:6 (1 cement: 6 coarse sand) 164.75 sqm 13.6 20 mm cement plaster of mix : 13.6.1 1:4 (1 cement: 4 coarse sand) 215.80 sqm 13.6.2 1:6 (1 cement: 6 coarse sand) 197.80 sqm CEMENT PLASTER WITH A FLOATING COAT OF NEAT CEMENT 13.7 12 mm cement plaster finished with a floating coat of neat cement of mix : 13.7.1 1:3 (1 cement: 3 fine sand) sqm 192.20 13.7.2 1:4 (1 cement: 4 fine sand) sqm 180.60 13.8 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 13.8.1 1:3 (1 cement: 3 fine sand) 217.55 sqm 13.8.2 1:4 (1 cement: 4 fine sand) 203.65 sqm 13.9 Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 13.9.1 12 mm cement plaster 200.60 sqm 13.9.2 20 mm cement plaster 269.00 sqm 13.10 15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall. 227.55 sqm

### **13.0 FINISHING**

SUBHEAD -13.0 FINISHING

Code No.	Description	Unit	Rate ₹
	CEMENT PLASTER IN TWO COATS		
13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	sqm	215.40
13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	sqm	231.20
13.13	12 mm cement plaster 1:2 (1 cement : 2 stone dust).	sqm	176.25
13.14	15 mm cement plaster 1:2 (1 cement : 2 stone dust) on the rough side of single or half brick wall.	sqm	205.35
13.15	20 mm cement plaster 1:2 (1 cement : 2 stone dust).	sqm	250.65
	6 MM CEMENT PLASTER	·	
13.16	6 mm cement plaster of mix :		
	13.16.1 1:3 (1 cement : 3 fine sand)	sqm	120.35
13.17	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of		404.05
40.40	walls when dry for bearing of R.C.C. slabs and beams.	sqm	161.95
13.18	Neat cement punning. <b>ROUGH CAST PLASTER</b>	sqm	36.35
13.19	Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.		
	13.19.1 Ordinary cement finish using ordinary cement	sqm	371.25
	PEBBLE DASH PLASTER		
13.20	Pebble dash plaster upto 10 m height above ground level with a mixture of washed pebble or crushed stone 6 mm to 12.5 mm nominal size, dashed over and including fresh plaster in two layers under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume		
	of cement.	sqm	352.10
13.21	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	46.70
13.22	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	sqm	34.95
13.23	Extra for plastering on circular work not exceeding 6 m in radius:	-	
	13.23.1 In one coat	sqm	17.05
	13.23.2 In two coats	sqm	26.15

SUBHEAD -13.0 FINISHING

Code No.	Description		Unit	Rate ₹
13.24	Extra for plastering done on moulding including neat finish to line and level :	, cornices or architraves		
	13.24.1 In one coat		sqm	247.00
	13.24.2 In two coats		sqm	406.65
13.25	Extra for plastering :			
	13.25.1 Spherical ceiling		sqm	63.70
	13.25.2 Groined ceiling		sqm	69.35
	13.25.3 Flewing soffits		sqm	41.80
13.26	Providing and applying plaster of paris pupplestered surface to prepare the surface to prepare to		sqm	100.95
	ARTIFICIAL STONE PLASTER			
13.27	Extra for lining out plaster to imitate stone	or concrete blocks walling.	sqm	39.50
	PLAIN CEMENT MORTAR BANDS			
13.28	12 mm thick plain cement mortar bar (1 cement : 4 fine sand) :	ds in cement mortar 1:4		
	13.28.1 Flush Band		cm per metre	2.85
	13.28.2 Sunk Band		cm per metre	3.10
	13.28.3 Raised Band		cm per metre	3.50
	13.28.4 Moulded Band		cm per metre	5.80
13.29	18 mm thick plain cement mortar band cement : 4 fine sand):	in cement mortar 1:4 (1		
	13.29.1 Flush Band		cm per metre	3.50
	13.29.2 Sunk Band		cm per metre	3.85
	13.29.3 Raised Band		cm per metre	4.35
	13.29.4 Moulded Band		cm per metre	7.85
13.30	18 mm thick moulded cement mortar bar 12 mm thick with cement mortar 1:5 (1 c layer 6 mm thick with cement mortar 1:4	ement : 5 coarse sand) top	cm per metre	7.90
	POINTING OF BRICK WORK			
13.31	Pointing on brick work or brick flooring cement : 3 fine sand) :	with cement mortar 1:3 (1		
	13.31.1 Flush / Ruled/ Struck or wea	thered pointing	sqm	95.65
	13.31.2 Raised and cut pointing		sqm	155.30
	POINTING ON TILE BRICK WORK			
13.32	Pointing on tile brick work with cement m sand) :	ortar 1:3 (1 cement : 3 fine		
	13.32.1 Flush/ Ruled/ Struck or weat	hered pointing	sqm	130.85
	POINTING ON STONE WORK			
13.33	Pointing on stone work with cement 3 fine sand) :	mortar 1:3 (1 cement :		
	13.33.1 Flush/ Ruled pointing		sqm	137.85
	13.33.2 Raised and cut pointing		sqm	249.35

Code No.	Descripti	on	Unit	Rate ₹
13.34		nd cut pointing on stone work in white cement mortar 1:3 cement : 3 marble dust).	sqm	270.70
13.35	Pointing of fine sand	on stone slab ceiling with cement mortar 1:2 (1 cement : 2 ) :		
	13.35.1	Flush/ Ruled pointing	sqm	78.15
13.36		pointing on walls on the outside at height more than 10 m Ind level for every additional height of 3 m or part there of.	sqm	5.30
	INTERIO	R FINISHING		
13.37	White wa	shing with lime to give an even shade :		
	13.37.1	New work (three or more coats)	sqm	14.35
13.38	Satna lim	e wash on walls with one coat.	sqm	5.85
13.39	Colour wa	ashing such as green, blue or buff to give an even shade :		
	13.39.1	New work (two or more coats) with a base coat of white washing with lime	sqm	19.75
	13.39.2	New work (two or more coats) with a base coat of whiting	sqm	19.40
13.40	(two or mo	ring with dry distemper of approved brand and manufacture ore coats) of required shade on new work, over and including mable priming coat to give an even shade.	sqm	61.80
13.41	•	ring with oil bound washable distemper of approved brand ufacture to give an even shade :		
	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	sqm	79.65
13.42	approved	ering with 1st quality acrylic distemper (ready mixed) of I manufacturer, of required shade and colour complete, as facturer's specification.		
	13.42.1	Two or more coats on new work	sqm	45.25
13.43		one coat of water thinnable cement primer of approved d manufacture on wall surface :		
	13.43.1	Water thinnable cement primer	sqm	31.55
	EXTERIC	DR FINISHING		
13.44	Finishing	walls with water proofing cement paint of required shade :		
	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	54.40
13.45	Finishing	walls with textured exterior paint of required shade :		
	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	sqm	127.10
13.46	Finishing	walls with Acrylic Smooth exterior paint of required shade :		
	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sam	70 40
		@ 2.20 kg/ 10 sqm)	sqm	78.1

Code No.	Descripti	ion	Unit	Rate ₹
13.47		walls with Premium Acrylic Smooth exterior paint with additives of required shade :		
	13.47.1	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	90.00
13.48	•	with Deluxe Multi surface paint system for interiors and using Primer as per manufacturers specifications :		
	13.48.1	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	87.85
	13.48.2	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	76.65
	13.48.3	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	80.60
13.49	Deleted			
13.50	Applying	priming coat :		
	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	30.75
	13.50.2	With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	sqm	31.60
	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	sqm	24.95
	13.50.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	sqm	13.60
13.51	of approv	with silicon & acrylic emulsion based water thinnable sealer yed brand and manufacture on wet or patchy portion of l surfaces :		
	13.51.1	One coat	sqm	66.25
	13.51.2	Two coats	sqm	105.50
13.52	prepared	with Epoxy paint (two or more coats) at all locations and applied as per manufacturer's specifications including ate priming coat, preparation of surface, etc. complete.		
	13.52.1	On steel work	sqm	109.80
	13.52.2	On concrete work	sqm	114.30
13.53		on G.S. sheet with synthetic enamel paint of approved d manufacture of required colour to give an even shade :		
	13.53.1	New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution	sqm	71.10

Code No.	Descripti	on	Unit	Rate ₹
13.54	Applying	a coat of mordant solution on G.S. sheet :		
	13.54.1	With a solution of 38 gms of copper acetate in a litre of soft water	sqm	24.75
	13.54.2	With a solution made of 13 gms of hydrochloric acid in a solution of 13 gms each of copper chloride, copper nitrate and ammonium chloride dissolved in a litre of soft water	sqm	24.55
13.55	pipes and brand and	(two or more coats) on rain water, soil, waste and vent fittings with black anticorrosive bitumastic paint of approved d manufacture, over and including a priming of ready mixed mate yellow primer on new work :		
	13.55.1	100 mm diameter pipes	metre	30.75
	13.55.2	150 mm diameter pipes	metre	45.90
13.56	pipes and manufact	(two or more coats) on rain water, soil, waste and vent fittings with synthetic enamel paint of approved brand and sure and required colour over a priming coat of approved her on new work.		
	13.56.1	100 mm diameter pipes	metre	33.95
	13.56.2	150 mm diameter pipes	metre	50.65
13.57	Painting manufact	with oil type wood preservative of approved brand and ure :		
	13.57.1	New work (two or more coats)	sqm	22.45
13.58	wood / ply of base s	and applying two coats of fire retardant paint on cleaned v surface @ 3.5 sqm per litre per coat including preparation urface as per recommendations of manufacturer to make be fire retardant.	sqm	216.60
13.59		ng two coats on new work using 0.16 Litre and 0.12 litre	Sqiii	210.00
10.00		er sqm in the first coat and second coat respectively.	sqm	29.85
13.60		ting with acrylic emulsion paint of approved brand and ure to give an even shade :		
	13.60.1	Two or more coats on new work	sqm	71.65
13.61	-	with synthetic enamel paint of approved brand and ure to give an even shade :		
	13.61.1	Two or more coats on new work	sqm	63.05
13.62		with synthetic enamel paint of approved brand and ure of required colour to give an even shade :		
	13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	sqm	92.75
13.63		vith aluminium paint of approved brand and manufacture to ven shade .		
	13.63.1	Two or more coats on new work	sqm	58.40
13.64	-	vith acid proof paint of approved brand and manufacture of colour to give an even shade :		
	13.64.1	Two or more coats on new work	sqm	65.75

SUBHEAD -13.0 FINISHING

Code No.	Description	Unit	Rate ₹
13.65	Painting with black anti-corrosive bitumastic paint of approved b and manufacture to give an even shade :	rand	
	13.65.1 Two or more coats on new work	sqm	54.15
13.66	Floor painting with floor enamel paint of approved brand manufacture of required colour to give an even shade :	and	
	13.66.1 Two or more coats on new work	sqm	66.15
13.67	Varnishing with varnish of approved brand and manufacture :		
	13.67.1 Two or more coats of glue sizing with copal varnish an under coat of flatting varnish	over sqm	96.35
	13.67.2 Two or more coats glue sizing with spar varnish ounder coat of flatting varnish	or an sqm	97.30
13.68	French spirit polishing :		
	13.68.1 Two or more coats on new works including a co wood filler	at of sqm	175.50
13.69	Polishing on wood work with ready mixed wax polish of appropriate approximation of approximation of a provide the second se	oved	
	13.69.1 New work	sqm	75.05
13.70	Floor polishing on masonry or concrete floors with wax polic approved brand and manufacture.	sh of sqm	35.55
13.71	Lettering with black Japan paint of approved brand and manufa	icture per letter per cm height	2.20
13.72	Washed stone grit plaster on exterior walls height upto 10 n above ground level, in two layers, under layer 12 mm cement pl 1:4 (1 cement : 4 coarse sand), furrowing the under layer scratching tool, applying cement slurry on the under layer @ of cement per square metre, top layer 15 mm cement plaster 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nor size), in panels with groove all around as per approved pat including scrubbing and washing the top layer with brushes water to expose the stone chippings, complete as per specific and direction of Engineer-in- charge (payment for providing gro shall be made separately).	aster with 2 Kg 1:1/ ninal tern, and ation	492.45
13.73	Forming groove of uniform size in the top layer of washed ston plaster as per approved pattern using wooden battens, nailed t under layer, including removal of wooden battens, repair to the e of panels and finishing the groove complete as per specifica and direction of the Engineer-in-charge :	e grit o the dges	TU <b>Z.T</b> U
	13.73.1 15 mm wide and 15 mm deep groove	metre	28.95
	13.73.2 20 mm wide and 15 mm deep groove	metre	29.45
13.74	Extra for washed grit plaster on exterior walls of height more 10 m from ground level for every additional height of 3 m or thereof.		77.90
13.75	Extra for washed stone grit plaster on circular work not excee 6 m in radius (in two coats).	-	50.70

Code No.	Description	Unit	Rate ₹
13.76	Forming groove of uniform size from 12x12 mm and upto 25x15 mm in the top layer of washed stone grit plastered surface as per approved pattern, including providing and fixing aluminum channels of appropriate size and thickness (not less than 2 mm), nailed to the under layer with rust proof screws and nails and finishing the groove complete as per specifications and direction of the Engineer- in-Charge.	metre	69.50
13.77	Extra for using white cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	sqm	101.75
13.78	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	234.20
13.79	Extra for addition of synthetic Polyester triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement plaster/mortar by using 125 gms. of synthetic Polyester triangular fibre for 50 Kgs. cement used in cement mortar as per directions of Engineer-in-Charge.	Per Bag of 50 Kg of cement	53.00
13.80	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	85.40
13.81	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.		
	13.81.1 One coat	sqm	26.10
	13.81.2 Two coats	sqm	41.75
13.82	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.		
	13.82.1 One coat	sqm	47.00
	13.82.2 Two coats	Sqm	70.75
13.83	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.		
	13.83.1 One coat	sqm	46.15
	13.83.2 Two coats	Sqm	70.75

Code No.	Descripti	on	Unit	Rate ₹
13.84	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.			
	13.84.1	One coat	sqm	44.35
	13.84.2	Two coats	Sqm	67.00
13.85		priming coats with primer of approved brand and ure, having low VOC (Volatile Organic Compound) content.		
	13.85.1	With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	sqm	33.40
	13.85.2	With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	sqm	28.75
	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	31.55

# SUB HEAD : 14.0 REPAIRS TO BUILDING

Code No.	Description	Unit	Rate ₹
0006	Hire charges of Spraying machine including electric charges	day	250.00
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	550.00
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0102	Blacksmith 1 st class	day	393.00
0103	Blacksmith 2nd class	day	361.00
0111	Carpenter 1 st class	day	393.00
0112	Carpenter 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0117	Assistant Fitter or 2nd class Fitter	day	361.00
0119	Glazier	day	361.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0128	Mate	day	328.00
0130	Mistry	day	393.00
0131	Painter	day	361.00
0141	White Washer	day	328.00
0155*	Mason (average)	day	377.00
0156*	Carpenter (average)	day	377.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1200.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1050.00
0302	Safeda ballies 125 mm diameter	metre	42.00
0308	Bhusa	quintal	400.00
0367	Portland Cement	tonne	5240.00
0389	Brass single acting spring hinges 150 mm	each	310.00
0390	Brass single acting spring hinges 125 mm	each	270.00
0391	Brass single acting spring hinges 100 mm	each	170.00
0392	Brass double acting spring hinges 150 mm	each	500.00
0393	Brass double acting spring hinges 125 mm	each	370.00
0394	Brass double acting spring hinges 100 mm	each	320.00
0404	Brass flush bolt 250 mm	each	150.00
0405	Brass flush bolt 150 mm	each	130.00
0406	Brass flush bolt 100 mm	each	90.00
0417	Brass 150 mm floor door stopper (0.357kg)	each	170.00
0418	Brass hard drawn hooks and eyes 300 mm	10 Nos	750.00

# BASIC RATES (SH: 14.0 REPAIRS TO BUILDING)

SUB HEAD -14.0 REPAIRS TO BUILDING

Code No.	Description	Unit	Rate ₹
0419	Brass hard drawn hooks and eyes 250 mm	10 Nos	700.00
0420	Brass hard drawn hooks and eyes 200 mm	10 Nos	645.00
0421	Brass hard drawn hooks and eyes 150 mm	10 Nos	620.00
0422	Brass hard drawn hooks and eyes 100 mm	10 Nos	525.00
0423	Brass casement window fastener	each	50.00
0427	Brass quadrant stays 300 mm	each	125.00
0428	Brass fanlight catch	10 Nos	175.00
0429	Brass fanlight pivot	10 Nos	195.00
0430	Brass chain with hook for fan light catch	each	40.00
0442	Brass helical spring 150 mm	each	310.00
0444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	115.00
0445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	135.00
0446	Brass brackets (curtain rods) 20 mm	each	42.00
0449	Brass screws 50 mm	100 Nos	210.00
0450	Brass screws 40 mm	100 Nos	170.00
0452	Brass screws 25 mm	100 Nos	95.00
0524	Chromium plated Brass butt hinges (heavy) type 75x65x4 mm (200gms)	10 Nos	1000.00
0525	Chromium plated Brass butt hinges (light/ordinary) type 125x 70x4 mm	10 Nos	850.00
0526	Chromium plated Brass butt hinges (light/ordinary) type 100x 70x4 mm	10 Nos	700.00
0527	Chromium plated Brass butt hinges (light/ordinary) type 75x 40x2.5 mm	10 Nos	460.00
0528	Chromium plated Brass butt hinges (light/ordinary) type 50x 40x2.5 mm	10 Nos	200.00
0585	Chromium plated Brass screws 50 mm	100 Nos	240.00
0586	Chromium plated Brass screws 40 mm	100 Nos	200.00
0587	Chromium plated Brass screws 30 mm	100 Nos	155.00
0589	Chromium plated Brass screws 20 mm	100 Nos	100.00
0595	Bright finished or black enameled mild steel butt hinges 100x 58x1.90 mm	10 Nos	85.00
0597	Bright finished or black enameled mild steel butt hinges 50x 37x1.50 mm	10 Nos	50.00
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	40.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	50.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	35.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	30.00

Code No.	Description	Unit	Rate ₹
0761	Fuel wood	quintal	500.00
0771	Kerosene oil	litre	45.00
0775	Dehradun white lime	quintal	480.00
0811	Mud (dry)	cum	60.00
0815	Dry distemper	kilogram	36.00
0816	Oil bound washable distemper/Acrylic distemper	kilogram	45.00
0826	Aluminium paint	litre	130.00
0827	Acid proof paint (chocolate or black)	litre	150.00
0828	Anticorrosive bituminous paint (black)	litre	90.00
0829	Black Japan paint	litre	95.00
0833	Synthetic enamel paint in black or chocolate shade	litre	130.00
0835	Plastic emulsion paint	litre	180.00
0845	Roofing paint for iron sheets in red colour	litre	120.00
0851	Water proofing cement paint	kilogram	45.00
0855	Wax polish (ready made)	kilogram	200.00
0856	Ordinary varnish	litre	75.00
0857	Superior copal varnish	litre	125.00
0858	Superior spar varnish	litre	125.00
0859	Oil type wood preservative	litre	80.00
0863	Putty for wood work	kilogram	30.00
0982	Coarse sand (zone III)	cum	1120.00
0999	Shellac	kilogram	210.00
1000	Spirit	litre	70.00
1003	Mild steel round bar above 12 mm dia	quintal	4300.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4926.00
1008	Flats up to 10 mm in thickness	quintal	4200.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	110.00
1034	Bolts and nuts up to 300 mm in length	quintal	5600.00
1174	Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	172.00
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	1100.00
1189	Second class teak wood in scantling	10 cudm	660.00
1190	Second class teak wood in planks	10 cudm	725.00
1194	Second class deodar wood in planks	10 cudm	500.00
1196	First class kail wood in planks	10 cudm	310.00
1199	Sal wood in scantling	10 cudm	520.00
1208	Bitumen washer	100 Nos	30.00

Code No.	Description	Unit	Rate ₹
1209	G.I. plain washer thick	100 Nos	35.00
1213	Water proofing materials	kilogram	32.00
1215	Welding by electric plant	cm	1.80
1314	C.P.brass chain with 32 mm dia rubber plug	each	40.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	40.00
2201	Carriage of bricks	1000 Nos	284.39
2202	Carriage of stone aggregate below 40 mm nominal size	cum	106.64
2203	Carriage of coarse sand	cum	106.64
2204	Carriage of timber	cum	121.88
2205	Carriage of steel	tonne	94.80
2209	Carriage of cement	tonne	94.80
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	94.80
2264	Carriage of rubbish	cum	106.64
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	330.00
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	500.00
2466	Hollock wood in scantling	10 cudm	325.00
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	165.00
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	3800.00
4009	Mild steel tubes hot finished welded type	kilogram	52.00
4202	Red oxide Zinc chromate primer	litre	70.00
7019	Dash fastener / Chemical fastner	each	15.00
7241	Melamine polish	litre	300.00
7340	Stainless steel pin.	kg	190.00
7346	Double coupler	each	55.00
7387	Spigot for standard jointing	kilogram	45.00
7397	Base Jack	each	180.00
7398	Challies	each	800.00
7399	Cup locks	each	80.00
7442	Wheel 75 mm dia. 40 mm wide	each	65.00
8505	Acrylic exterior paint	litre	140.00
8506	Premium Acrylic exterior paint	litre	235.00
8507	Textured exterior paint	litre	200.00
8508	Primer for cement paint	litre	78.00
9999	Sundries	L.S.	1.70

## **14.0 REPAIRS TO BUILDING**

Code No.	Descripti	ion	Unit	Rate ₹
14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead :			
	14.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	sqm	221.15
	14.1.2	With cement mortar 1:4 (1cement: 4 coarse sand)	sqm	231.85
14.2	in floors fasts in ce concrete 20 mm r preservat to walls ar	whats in existing opening including embedding chowkhats or walls cutting masonry for holdfasts, embedding hold ement concrete blocks of size $15 \times 10 \times 10$ cm with cement 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate nominal size), painting two coats of approved wood tive to sides of chowkhats and making good the damages and floors as required complete, including disposal of rubbish mping ground within 50 meters lead :		
	14.2.1	Door chowkhats	each	719.20
	14.2.2	Window chowkhats	each	441.70
	14.2.3	Clerestory window chowkhats	each	321.85
14.3	fasteners vertical m of windov	owkhat in existing opening in brick / RCC wall with dash / Chemical fasteners of appropriate size (3 nos on each ember of door chowkhat and 2 nos on each vertical member v chowkhats), including Cost of dash fasteners/ chemical		
	fastener.		each	152.55
14.4	or walls b flooring a	ne opening in brick masonry including dismantling in floor y cutting masonry and making good the damages to walls, nd jambs complete, to match existing surface i/c disposal ' rubbish to the nearest municipal dumping ground.		
	14.4.1	For door/ window/ clerestory window	sqm	447.40
14.5	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:			
	14.5.1	Float glass panes of thickness 4 mm	sqm	651.40
	14.5.2	Float glass panes of thickness 5.5 mm	sqm	868.60
14.6	Renewing	g glass panes, with wooden fillets wherever necessary:		
	14.6.1	Float glass panes of thickness 4 mm	sqm	825.95
	14.6.2	Float glass panes of thickness 5.5 mm	sqm	1,043.15
14.7	Renewing	g glass panes and refixing existing wooden fillets:		
	14.7.1	Float glass panes of thickness 4 mm	sqm	689.15
	14.7.2	Float glass panes of thickness 5.5 mm	sqm	906.35
14.8	Supplying	g and fixing new wooden fillets wherever necessary:		
	14.8.1	2nd class teak wood fillets	metre	34.65
	14.8.2	Hollock wood fillets	metre	29.30
14.9	Renewal	of old putty of glass panes (length)	metre	21.20

Code No.	Description	n	Unit	Rate ₹
14.10	Refixing old	d glass panes with putty and nails	sqm	275.30
14.11	Fixing old g	plass panes with wooden fillets (excluding cost of fillets)	sqm	239.80
14.12	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.			228.00
14.13	Regrading terracing of mud phaska covered with tiles or brick, in cement by dismantling tiles or bricks, removing mud plaster, preparing the surface of mud phaska to proper slope, relaying mud plaster gobri leaping and tiles or bricks, grouted in cement mortar 1:3 (1 cement : 3 fine sand), including replacing unserviceable tiles or bricks with new ones and disposal of unserviceable material to the dumping ground (the cost of the new tiles or brick excluded) within 50 metres lead.			253.15
14.14	Replacing s cement : 4 pointing wit	sand stone slabs in roofing, laid in cement mortar 1:4 (1 coarse sand), including necessary repairs and cement th same mortar complete, including disposal of rubbish ground within 50 metres of lead :	sqm	200.10
	14.14.1	Red/ white sand stone slabs 30 to 50 mm thick	sqm	527.30
14.15	in wall and p and manuf	wooden battens in roofs, including making good the holes painting with oil type wood preservative of approved brand facture complete, including removal of rubbish to the round within 50 metres lead :		
	14.15.1	Sal wood battens	cum	66,229.65
14.16	in walls and brand and	wooden beams in roofs including making good the holes d painting with oil type wood preservative of approved manufacture complete, including removal of rubbish to ng ground within 50 metres lead :		
	14.16.1	Not exceeding 4.00 metres in length.		
	14.16.1.1	Sal wood beams	cum	68,477.60
	14.16.1.2	Hollock wood beams	cum	45,139.40
	14.16.2	Above 4.00 metres and upto 5.00 metres length.		
	14.16.2.1	Sal wood beams	cum	69,428.80
	14.16.2.2	Hollock wood beams	cum	46,065.20
14.17	for re-point	joints in lime or cement mortar and preparing the surface ing or replastering, including disposal of rubbish to the round within 50 metres lead.	sqm	24.00
14.18	mixed with	ting with cement mortar 1:3 (1 cement : 3 fine sand) 2% of integral water proofing compound by weight of flat tile bricks on top of mud phaska :		
	14.18.1	With F.P.S. brick tiles	sqm	52.20
	14.18.2	With modular brick tiles	sqm	53.20

Code No.	Descriptio	on	Unit	Rate ₹
14.19	nuts etc. a	Taking out wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking.		1.85
14.20	coats with manufactu	Id wind tie with new fittings including painting two or more anticorrosive bitumastic paint of approved brand & urer over and including priming coat of ready mixed zinc yellow primer of approved brand.	metre	67.80
14.21	Renewing making goo	bottom rail and/or top runner of collapsible gate including od all damages and applying priming coat of zinc chromate her of approved brand and manufacturer.	kg	139.75
14.22	and fitting	Wrought iron or M.S. Wheel or roller of steel door or gate and fixing the same with necessary clamps, nuts and ing and erection etc. complete.		
	14.22.1	Wheel 50 mm dia and below	per wheel	121.45
	14.22.2	Wheel above 50 mm dia	per wheel	185.65
	EARTH W	/ORK		
14.23		ut water caused by springs, tidal or river seepage, broken ns or drains and the like.	kilo litre	85.20
14.24	Mud morta	ar made with local clay good earth.	cum	366.20
	BRICK W	ORK		
14.25	Brick work in mud mo	with common burnt clay bricks of class designation 7.5 rtar	cum	3,893.15
	WOOD W	ORK		
14.26	Providing	and fixing 25 mm thick shutters for cup board etc. :		
	14.26.1	Panelled or panelled & glazed shutters :		
	14.26.1.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	3,355.00
	14.26.1.2	Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	2,817.25
	14.26.2	Glazed shutters :		
	14.26.2.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	3,462.50
	14.26.2.2	Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	2,884.45
14.27	bright or/a screws 35	and fixing plain jaffri door and window shutters including and black enamelled M.S. butt hinges with necessary x10 mm laths placed 35 mm apart (frames to be paid y), including fixing 50x12 mm beading complete with :		
	14.27.1	Second class teak wood	sqm	2,858.65
14.28	two brass	and fixing curtain rods of 1.25 mm thick brass plates with brackets fixed with brass screws and wooden plugs etc. necessary complete.		
	14.28.1	20 mm diameter.	metre	210.50
	14.28.2	25 mm diameter.	metre	233.75

Code No.	Description	on	Unit	Rate ₹
14.29	Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.		kg	67.85
14.30		oists (karries) including hoisting, fixing in position and applying servative on unexposed surface etc. complete with :		
	14.30.1	Salwood	cum	65,522.00
	14.30.2	Hollock wood	cum	42,419.80
14.31	-	and fixing bright finished brass single acting spring hinges ssary brass screws etc. complete :		
	14.31.1	150 mm	each	405.45
	14.31.2	125 mm	each	359.00
	14.31.3	100 mm	each	239.15
14.32	-	and fixing bright finished brass double acting spring hinges ssary brass screws etc. complete :		
	14.32.1	150 mm	each	626.15
	14.32.2	125 mm	each	475.15
	14.32.3	100 mm	each	413.35
14.33	-	and fixing bright finished brass flush bolts with necessary ews etc. complete :		
	14.33.1	250 mm	each	190.70
	14.33.2	150 mm	each	165.90
	14.33.3	100 mm	each	119.45
14.34		and fixing 150 mm bright finished floor brass door stopper er cushion, necessary brass screws etc. to suit shutter complete	each	210.35
14.35	Providing eyes :	and fixing bright finished brass hard drawn hooks and		
	14.35.1	300 mm	each	90.05
	14.35.2	250 mm	each	84.20
	14.35.3	200 mm	each	77.85
	14.35.4	150 mm	each	74.95
	14.35.5	100 mm	each	63.90
14.36	-	and fixing bright finished brass fan light pivot with necessary ews etc. complete.	each	34.40
14.37	-	and fixing 300 mm long bright finished brass chain with an light including necessary brass screws etc. complete.	each	55.60
14.38	-	and fixing bright finished brass quadrant stay 300 mm long ssary brass screws etc. complete.	each	154.35
14.39	Providing quality).	and fixing bright finished brass helical door spring (superior	each	397.95

Code No.	Description	on	Unit	Rate ₹
14.40	-	and fixing chromium plated brass butt hinges with y chromium plated brass screws etc. complete.		
	14.40.1	125x70x4 mm (ordinary type)	each	137.15
	14.40.2	100x70x4 mm (ordinary type)	each	110.45
	14.40.3	75x65x4 mm (heavy type)	each	137.15
	14.40.4	75x40x2.5 mm (ordinary type)	each	74.45
	14.40.5	50x40x2.5 mm (ordinary type)	each	31.70
14.41	with nece	and fixing 85x42 mm chromium plated brass pull bolt lock essary chromium plated brass screws, nuts, bolts and etc. complete.	each	203.40
	FINISHIN	G		
14.42	White was	shing with lime to give an even shade :		
	14.42.1	Old work (two or more coats)	sqm	8.55
	14.42.2	Old work (one or more coats)	sqm	5.30
14.43	and prepa	g white or colour wash by scrapping and sand papering aring the surface smooth including necessary repairs to etc. complete	sqm	6.90
14.44		ring with dry distemper of approved brand and manufacture ore coats) and of required shade on old work to give an le.	sqm	26.00
14.45		ring with oil bound washable distemper of approved brand Ifacture to give an even shade :		
	14.45.1	Old work (one or more coats)	sqm	28.55
14.46	and the lik	g dry or oil bound distemper, water proofing cement paint the by scrapping, sand papering and preparing the surface cluding necessary repairs to scratches etc. complete.	sqm	9.00
14.47		on G.S. sheet with synthetic enamel paint of approved manufacture of required colour to give an even shade :		
	14.47.1	Old work (one or more coats)	sqm	36.95
14.48	pipes and brand and	(two or more coats) on rain water, soil, waste and vent fittings with black anticorrosive bitumastic paint of approved d manufacture over and including a priming coat of ready c chromate yellow primer on new work :		
	14.48.1	75 mm diameter pipes	metre	22.95
14.49	pipes and	one or more coats) on rain water, soil, waste and vent fittings with black anticorrosive bitumastic paint of approved I manufacture on old work :		
	14.49.1	75 mm diameter pipes	metre	11.15
	14.49.2	100 mm diameter pipes	metre	14.65
	14.49.3	150 mm diameter pipes	metre	20.95
14.50		two or more coats) on rain water, soil, waste and vent d fittings with aluminium paint of approved brand and		

SUBHEAD -14.0 REPAIRS TO BUILDING

Code No.	Description	Unit	Rate ₹
	manufacture over a priming coat of ready mixed zinc chromate yellow primer on new work :		
	14.50.1 75 mm diameter pipes	metre	24.00
	14.50.2 100 mm diameter pipes	metre	33.95
	14.50.3 150 mm diameter pipes	metre	50.65
14.51	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work :		
	14.51.1 75 mm diameter pipes	metre	11.80
	14.51.2 100 mm diameter pipes	metre	15.15
	14.51.3 150 mm diameter pipes	metre	21.65
14.52	Painting with oil type wood preservative of approved brand and manufacture:		
	14.52.1 Old work (one or more coats)	sqm	17.10
14.53	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade :		
	14.53.1 One or more coats on old work	sqm	46.85
14.54	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :		
	14.54.1 One or more coats on old work	sqm	41.35
14.55	Painting with aluminium paint of approved brand and manufacture to give an even shade :		
	14.55.1 One or more coats on old work	sqm	37.75
14.56	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade :		
	14.56.1 One or more coats on old work	sqm	43.00
14.57	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :		
	14.57.1 One or more coats on old work	sqm	36.20
14.58	French spirit polishing :		
	14.58.1 One or more coats on old work	sqm	88.95
14.59	Polishing on wood work with ready made wax polish of approved brand and manufacture :		
	14.59.1 Old work	sqm	38.15
14.60	Re-lettering with black Japan paint of approved brand and manufacture.	Per letter per cm	
		height	1.40
14.61	Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade.	sqm	38.50

Code No.	Descripti	on	Unit	Rate ₹
14.62	-	and fixing C.P. brass chain and rubber plug complete for ash basin :		
	14.62.1	32 mm dia	each	62.40
	14.62.2	40 mm dia	each	62.40
14.63	made) of	ering with 1st quality acrylic washable distemper (ready approved manufacturer and of required shade and colour . as per manufacturer's specification.		
	14.63.1	One or more coats on old work	sqm	25.70
14.64	Finishing	walls with water proofing cement paint of required shade :		
	14.64.1	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litrs/10 sqm complete including cost of Priming coat.	sqm	51.20
	14.64.2	Old work (one or more coats @ 2.20 kg/10 sgm) complete.	sqm	34.65
14.65	Finishing	walls with textured exterior paint of required shade :	- 1	
	14.65.1	Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	sqm	106.75
	14.65.2	Old work (One or more coats) applied @ 1.82 ltr/10 sqm.	sqm	65.10
14.66	Finishing	walls with Acrylic Smooth exterior paint of required shade :		
	14.66.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	sqm	56.55
	14.66.2	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	sqm	37.45
14.67	-	walls with Premium Acrylic Smooth exterior paint with dditives of required shade		
	14.67.1	Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface	sqm	69.45
	14.67.2	Old work (one or more coats applied @ 0.83 ltr/10 sqm).	sqm	45.55
14.68	Deleted.			
14.69	Varnishing	g with varnish of approved brand and manufacture:		
	14.69.1	One or more coats with copal varnish	sqm	39.90
	14.69.2	One or more coats with spar varnish	sqm	40.40
14.70	Melamine	polishing on wood work (one or more coat).	sqm	73.80
14.71		g with flatting varnish of approved brand and manufacture bre coats on old work.	sqm	39.30
14.72	the exteri M.S. tube with cup clamps a	and fixing double scaffolding system (cup lock type) on for side, up to seven story height made with 40 mm dia 1.5 m centre to centre, horizontal & vertical tubes joining & lock system with M.S. tubes, M.S. tube challies, M.S. nd M.S. staircase system in the scaffolding for working etc. and maintaining it in a serviceable condition for the		

Code No.	Description	Unit	Rate ₹
	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.	sqm	148.65
	<b>Note:</b> - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.		
14.73	Providing and fixing bright finished brass casement window fasteners or peg stays to windows/ ventilators with necessary welding and machine screws etc. complete.	kg	417.95
14.74	Providing and fixing 14 mm bright finished brass spring catch to steel centre hung ventilators with necessary welding and machine screws etc. complete.	each	45.85
	tem no. 14.73 & 14.74 are brought from Sub head 10 Steel work (Item 3 & 10.24).		

## **SUB HEAD : 15.0**

# DISMANTLING AND DEMOLISHING

BASIC RATES (SH:15.0 DISMANTLING AND DEMOLISHING)		<b>BASIC RATES (SH:15.0</b>	DISMANTLING AND DEMOLISHING)
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Code No.	Description	Unit	Rate ₹
0038	Tractor with ripper attachment	day	1350.00
0039	Tractor with trolley	day	1500.00
0040	Air compressor 250 cfm with two leads for pneumatic cutters / hammers	day	1900.00
0041	Joint cutting machine with 2-3 blades	day	1000.00
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0103	Blacksmith 2nd class	day	361.00
0112	Carpenter 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0117	Assistant Fitter or 2nd class Fitter	day	361.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0128	Mate	day	328.00
0130	Mistry	day	393.00
0139	Skilled Beldar (for floor rubbing etc.)	day	328.00
0761	Fuel wood	quintal	500.00
0771	Kerosene oil	litre	45.00
2264	Carriage of rubbish	cum	106.64
9999	Sundries	L.S.	1.70

Code No.	Descrip	tion	Unit	Rate ₹
15.1		hing lime concrete manually/ by mechanical means and of material within 50 metres lead as per direction of Engineer- e.	cum	281.45
15.2	including	hing cement concrete manually/ by mechanical means g disposal of material within 50 metres lead as per direction eer - in - charge.		
	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	806.35
	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	cum	497.15
15.3	stacking	hing R.C.C. work manually/ by mechanical means including of steel bars and disposal of unserviceable material within es lead as per direction of Engineer - in- charge.	cum	1,176.40
15.4	stacking	hing R.B. work manually/ by mechanical means including of steel bars and disposal of unserviceable material within as lead as per direction of Engineer-in- charge.	cum	1,051.05
15.5	in R.C.C	cutting reinforcement bars manually/ by mechanical means C. or R.B. work (Payment shall be made on the cross I area of R.C.C. or R.B. work) as per direction of Engineer - ie.	sqm	408.55
15.6		scrapping, cleaning and straightening reinforcement from or R.B. work.	kg	3.20
15.7	stacking	hing brick work manually/ by mechanical means including of serviceable material and disposal of unserviceable within 50 metres lead as per direction of Engineer-in-charge.		
	15.7.1	In mud mortar	cum	233.20
	15.7.2	In lime mortar with old mughal bricks	cum	588.50
	15.7.3	In lime mortar	cum	281.45
	15.7.4	In cement mortar	cum	681.00
15.8		ng mortar from bricks and cleaning bricks including stacking lead of 50 m (stacks of cleaned bricks shall be measured) :		
	15.8.1	From brick work in mud mortar	1000 nos	1,551.15
	15.8.2	From brick work in lime mortar	1000 nos	1,802.00
	15.8.3	From brick work in cement mortar	1000 nos	2,260.65
15.9	includin unservic	hing stone rubble masonry manually/ by mechanical means g stacking of serviceable material and disposal of ceable material within 50 metres lead as per direction of r-in-charge:		
	15.9.1	In lime mortar	cum	383.30
	15.9.2	In cement mortar	cum	812.60
15.10		ling dressed stone work ashlar face stone work, marble precast concrete work manually/ by mechanical means		

Code No.	Descript	ion	Unit	Rate ₹
	-	stacking of serviceable and disposal of unserviceable material metres lead as per direction of Engineer-in-charge :		
	15.10.1	In lime mortar	cum	484.90
	15.10.2	In cement mortar	cum	950.60
15.11		ng mortar from and cleaning stones and concrete articles ntity of stacks of cleaned materials will be measured) :		
	15.11.1	In lime mortar	cum	160.00
	15.11.2	In cement mortar	cum	229.75
15.12	shutter in	ing doors, windows and clerestory windows (steel or wood) acluding chowkhats, architrave, holdfasts etc. complete and within 50 metres lead :		
	15.12.1	Of area 3 sq. metres and below	each	127.80
	15.12.2	Of area beyond 3 sq. metres	each	175.50
15.13		ut doors, windows and clerestory window shutters (steel or cluding stacking within 50 metres lead :		
	15.13.1	Of area 3 sq. metres and below	each	49.60
	15.13.2	Of area beyond 3 sq. metres	each	65.65
15.14	10 metre	ling wood work in frames, trusses, purlins and rafters up to s span and 5 metres height including stacking the material ) metres lead :		
	15.14.1	Of sectional area 40 square centimetres and above	cum	1,554.95
	15.14.2	Of sectional area below 40 square centimetres	metre	6.20
15.15		dismantling trusses, rafters, purlins etc. of wood work for ditional span of one metre or part thereof beyond 10 metres :		
	15.15.1	Of sectional area 40 square centimetres and above	Cum per metre span	213.80
	15.15.2	Of sectional area below 40 square centimetres	Metre per metre span	0.60
15.16		dismantling trusses, rafters, purlins etc. of wood work for ditional height of one metre or part thereof beyond 5 metres :		
	15.16.1	Of sectional area 40 square centimetres and above	Cum per metre height	303.75
	15.16.2	Of sectional area below 40 square centimetres	Metre per metre height	1.20
15.17		ling steel work in single sections including dismembering king within 50 metres lead in:		
	15.17.1	R.S. Joists	kg	1.15
	15.17.2	Channels, angles, tees and flats	kg	0.80
15.18	channels	ing steel work in built up sections in angles, tees, flats and including all gusset plates, bolts, nuts, cutting rivets, welding iding dismembering and stacking within 50metres lead.	kg	1.95

SUBHEAD -15.0 DISMANTLING AND DEMOLISHING 249

Code No.	Description	Unit	Rate ₹
15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	kg	1.30
15.20	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres	Kg per metre span	0.30
15.21	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres.	Kg per metre height	0.30
15.22	Extra for marking of structural steel work required to be re-erected.	kg	1.60
15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.		
	15.23.1 For thickness of tiles 10 mm to 25 mm	sqm	25.55
	15.23.2 For thickness of tiles above 25 mm and up to 40 mm	sqm	39.75
15.24	Demolishing dry brick pitching in floors, drains etc. including stacking serviceable material and disposal of unserviceable material within 50 metres lead :	cum	436.60
15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	88.50
15.26	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	36.95
15.27	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	cum	302.15
15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of :		
	15.28.1 G.S. Sheet	sqm	56.80
	15.28.2 Asbestos sheet	sqm	26.70
15.29	Dismantling stone slab roofing over wooden karries or R.C.C. battens (dismantling karries and battens to be paid for separately), including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	cum	885.20
15.30	Dismantling jack arch roofing and floors including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	84.40
15.31	Dismantling tiled roofing with battens, boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	69.90
15.32	Demolishing thatch roofing including mats, bamboo, jaffari etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	19.35
15.33	Dismantling wooden ballies in posts and struts including stacking within 50 metres lead.	metre	6.90

Code No.	Description	Unit	Rate ₹
15.34	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of :		
	15.34.1 T' or 'L' iron or pipe	each	89.80
	15.34.2 R.C.C.	each	102.40
15.35	Cutting ballies or wooden posts of fencing at the point of projection above the concrete or ground and stacking the same within 50 metres lead.	each	8.20
15.36	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	kg	12.20
15.37	Dismantling wooden trellis work excluding frames but including stacking the serviceable material within 50 metres lead.	sqm	22.00
15.38	Dismantling expanded metal or I.R.C. fabrics with necessary battens and beading including stacking the serviceable material within 50 metres lead.	sqm	25.70
15.39	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :		
	15.39.1 Up to 10 mm thick	sqm	21.15
	15.39.2 Thickness above 10 mm up to 25 mm	sqm	26.95
	15.39.3 Thickness above 25 mm up to 40 mm	sqm	31.75
15.40	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead :		
	15.40.1 Thickness up to 40 mm	sqm	97.25
	15.40.2 Thickness above 40 mm up to 75 mm	sqm	145.65
15.41	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	sqm	19.80
15.42	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :		
	15.42.1 75 to 80 mm dia pipe	metre	25.00
	15.42.2 100 mm dia pipe	metre	25.85
	15.42.3 150 mm dia pipe	metre	26.65
15.43	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :		
	15.43.1 Water bound macadam road	sqm	73.90
	15.43.2 bituminous road	sqm	143.90
15.44	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 :		
	15.44.1 15 mm to 40 mm nominal bore	metre	52.60
	15.44.2 Above 40 mm nominal bore	metre	59.70

SUBHEAD -15.0 DISMANTLING AND DEMOLISHING 251

Code No.	Description	Unit	Rate ₹
15.45	Dismantling C.I. pipes including excavation and refilling tren after taking out the pipes, manually/ by mechanical means brea lead caulked joints, melting of lead and making into blocks inclu stacking of pipes & lead at site within 50 metre lead as per dire of Engineer-in-charge:	aking Iding	
	15.45.1 Up to 150 mm diameter	metre	155.20
	15.45.2 Above 150 mm dia up to 300 mm dia	metre	205.15
	15.45.3 Above 300 mm diameter	metre	265.75
15.46	Dismantling steel cylinder R.C. pipes including excavation refilling trenches after taking out the pipes, manually/ by mecha means breaking lead caulked joints, melting of lead and mainto blocks including stacking of pipes & lead at site within 50 melead as per direction of Engineer-in-charge :	nical aking	
	15.46.1 Up to 600 mm diameter	metre	247.00
	15.46.2 Above 600 mm diameter	metre	618.85
15.47	Dismantling asbestos cement pressure pipes including excava and refilling trenches after taking out the pipes manually mechanical means and stacking the pipes within 50 metres lea per direction of Engineer-in-charge :	// by	
	15.47.1 Up to 150 mm diameter	metre	109.55
	15.47.2 Above 150 mm diameter	metre	133.10
15.48	Taking out C.I. cover with frame from R.C.C. top slab of manhol various sizes including demolishing of R.C.C. work manually mechanical means and stacking of useful materials near the and disposal of unserviceable materials within 50 metres lear per direction of Engineer-in-charge.	y/ by e site	237.45
15.49	Taking out C.I. cover with frame from R.C.C. top slab of inspe chambers of various sizes including demolishing of R.C.C. manually/ by mechanical means and stacking of useful mate near the site and disposal of unserviceable materials within 50 m lead as per direction of Engineer-in-charge.	work erials	139.45
15.50	Dismantling of R.C.C. spun vent shaft including excavating cement concrete pit completely, taking out the shaft, refilling excavated gap, stacking the useful materials near the site disposal of unserviceable materials within 50 metres lead.	g the	1,590.75
15.51	Dismantling of road gully chamber of various sizes inclu C.I. grating with frame including stacking of useful mate near the site and disposal of unserviceable materials within 50 m lead including refilling the excavated gap.	erials	323.45
15.52	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious Cl including stacking of useful materials near the site and dispos unserviceable materials within 50 metres lead.		322.00
15.53	Dismantling of C.I. sluice valve including stacking of useful mate within a lead of 50 metres	erials	
	15.53.1 Up to 150 mm diameter	each	117.05
	15.53.2 Above 150 mm diameter	each	412.60

SUBHEAD -15.0 DISMANTLING AND DEMOLISHING 252

Code No.	Description	Unit	Rate ₹
15.54	Dismantling of spindle fire hydrant including stacking of useful materials within 50 metres lead.		248.40
15.55	Dismantling of cement concrete platform along with curtain walls and base concrete etc. including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead :		
	15.55.1 120 x 120 cm (outside to outside)	each	365.05
	15.55.2 210 x 120 cm (outside to outside)	each	560.00
	15.55.3 320 x 120 cm (outside to outside)	each	792.40
15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	18.15
15.57	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	19.80
15.58	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	cum	1,264.70
15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	cum	193.20
15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum	123.85

# **SUB HEAD : 16.0 ROAD WORK**

## BASIC RATES (SH: 16.0 ROAD WORK)

Code No.	Description	Unit	Rate ₹
0001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	830.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	1500.00
0004	Production cost of concrete by batch mix plant	cum	350.00
0005	Hire charges of Diesel Truck - 9 tonne	day	1700.00
0007	Hire charges of Coaltar Sprayer	day	300.00
8000	Hire charges of Barber green, drying, mixing and Asphalt Plant, with accessories, capacity 30/45 tonne	day	7700.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	150.00
0013	Machine for rubbing of floors	day	350.00
0014	Front end loader capacity 1.00 cum	day	5000.00
0016	Mastic Cooker	day	750.00
0017	Hire and running charges of tipper	day	1700.00
0018	Hire and running charges of loader	day	5000.00
0021	Pin vibrator	day	325.00
0022	Surface Vibrator	day	400.00
0029	Carriage of concrete by transit mixer	km/cum	30.00
0030	Generator 250 KVA	day	2200.00
0033	Paint applicator	day	750.00
0038	Tractor with ripper attachment	day	1350.00
0041	Joint cutting machine with 2-3 blades	day	1000.00
0042	C.C .batch mix plant	day	10000.00
0043	Road sweeper	day	550.00
0045	Slip form paver with sensor	day	13000.00
0046	Water tanker 5000 litre	day	1000.00
0047	Concrete joint cutting machine	day	900.00
0048	Texturing machine	day	925.00
0049	Dozer D-80-A 12	hour	3800.00
0050	Motor Grader 3.35 metre blade	hour	2450.00
0051	Hydraulic Excavator of 1 cum bucket	hour	1300.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	800.00
0053	Tipper -5 Cum	tonne km	3.00
0054	Vibratory roller 8 to 10 tonne	hour	1500.00
0055	Smooth Wheeled Roller 8 to 10 tonne	hour	460.00
0056	Tandem Road Roller	hour	1150.00
0057	Water Tanker 5 to 6 KL capacity	hour	150.00
0058	Air compressor	hour	325.00

SUB HEAD -16.0 ROAD WORK

Code No.	Description	Unit	Rate ₹
0059	Wet Mix Plant 60 TPH	hour	1200.00
0060	Mechanical Broom Hydraulic	hour	360.00
0061	Emulsion Pressure Distributor @ 1750 sqm per hour	hour	800.00
0062	Hot mix Plant -120 TPH capacity	hour	23700.00
0063	Hot mix Plant 100 TPH Capacity	hour	17500.00
0064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	2700.00
0065	Paver finisher Mechanical 100 TPH	hour	1000.00
0066	Batching and Mixing Plant @ 75 cum per hour	hour	2500.00
0068	Concrete Paver finisher with 40 HP Motor and sensor	hour	2900.00
0069	Generator 250 KVA	hour	900.00
0070	Generator 100 KVA/125 KVA	hour	700.00
0071	Truck 5.5 cum/ 10 tonnes	tonne km	3.00
0075	Road sweeper (Mechamical Broom) @ 1250 sqm per hour	hour	360.00
0076	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour		
	actual output	hour	14000.00
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0102	Blacksmith 1 st class	day	393.00
0103	Blacksmith 2nd class	day	361.00
0113	Chowkidar	day	297.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0126	Mason (for ornamental stone work) 1 st class	day	393.00
0128	Mate	day	328.00
0130	Mistry	day	393.00
0131	Painter	day	361.00
0138	Sprayer (for bitumen, tar etc.)	day	328.00
0139	Skilled Beldar (for floor rubbing etc.)	day	328.00
0155*	Mason (average)	day	377.00
0157	Operator (Pile/ Special machine)	day	350.00
0286	Brick Aggregate (Single size) : 50 mm nominal size	cum	500.00
0287	Brick Aggregate (Single size) : 40 mm nominal size	cum	510.00
0291	Stone Aggregate (Single size) : 63 mm nominal size	cum	1000.00
0292	Stone Aggregate (Single size) : 50 mm nominal size	cum	1000.00
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	1000.00
0294	Stone Aggregate (Single size) : 25 mm nominal size	cum	1050.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1200.00

SUB HEAD -16.0 ROAD WORK

Code No.	Description	Unit	Rate ₹
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	1050.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1050.00
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	1100.00
0304	Bajri	cum	1000.00
0309	Paving bitumen of grade VG-10 of approved quality	tonne	40000.00
0310	Bitumen emulsion	tonne	30000.00
0312	Bitumen grade PMB - 40	tonne	41400.00
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	37000.00
0314	Bitumen hot sealing compound : grade A	kilogram	26.00
0317	Premoulded joint filler 12 mm thick	sqm	350.00
0323	Separation Membrane of impermeable plastic sheeting 125 micron thick	sqm	12.00
0349	Curing compound	litre	50.00
0364	Wire brush	each	20.00
0365	Soft brush	each	18.00
0367	Portland Cement	tonne	5240.00
0369	Plastic sheath,1.25 mm thick for dowel bars	sqm	30.00
0370	Coal (steam)	quintal	400.00
0371	Sealant primer	kg	125.00
0374	Pre moulded Joint filler, 25 mm thick for expansion joint.	sqm	500.00
0588	Chromium plated Brass screws 25 mm	100 Nos	120.00
0777	Dry hydrated lime (factory made)	quintal	230.00
0784	Marble dust/ powder	cum	1000.00
0810	Moorum	cum	450.00
0979	Royalty for good earth	cum	30.00
0982	Coarse sand (zone III)	cum	1120.00
0983	Fine sand (zone IV)	cum	650.00
1003	Mild steel round bar above 12 mm dia	quintal	4300.00
1005	Twisted steel/ deformed bars	quintal	4800.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4926.00
1008	Flats up to 10 mm in thickness	quintal	4200.00
1013	Mild steel sheets for tanks	quintal	4900.00
1021	Hard drawn steel wire fabric	sqm	430.00
1028	Straining bolts	each	70.00
1029	Galvanised steel barbed wire	quintal	5200.00
1030	Galvanised steel turn buckles	each	17.00
1151	Boundary stone top chisel dressed 15x15x90 cm	each	60.00
1158	Stone for pitching 15 cm x 22.5 cm	cum	450.00

SUB HEAD -16.0 ROAD WORK

Code No.	Description	Unit	Rate ₹
1159	Stone dust	cum	1000.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	950.00
1235	Diesel oil	litre	48.63
1241	Commercial LPG in cylinder	kg	70.00
1980	Fly ash	cum	7.75
2200	Carriage of steam coal	tonne	121.88
2201	Carriage of bricks	1000 Nos	284.39
2202	Carriage of stone aggregate below 40 mm nominal size	cum	106.64
2203	Carriage of coarse sand	cum	106.64
2205	Carriage of steel	tonne	94.80
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	115.92
2208	Carriage of lime	cum	106.64
2209	Carriage of cement	tonne	94.80
2211	Carriage of tar / bitumen	tonne	106.64
2215	Carriage of Soling stone & masonry stone	cum	125.47
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	94.80
2241	Carriage of good earth	cum	133.30
2260	Carriage of brick aggregate	cum	115.92
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	106.64
2265	Carriage of moorum	cum	106.64
2267	Carriage of stone dust	cum	106.64
2302	Carriage of G.I.sheet and accessories	tonne	94.80
2311	Carriage of red bajri	cum	106.64
2314	Carriage of barbed wire	tonne	94.80
2335	Carriage of Jamuna sand	cum	106.64
2342	Carriage of Solvent / Diesel.	quintal	10.66
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	3800.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	220.00
2901	Stone Aggregate (Single size) : 100 mm nominal size	cum	800.00
2902	Stone Aggregate (Single size) : 80 mm nominal size	cum	800.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	1150.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	1150.00
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	380.00
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	400.00
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1100.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1100.00
2914	Solvent	kilogram	25.00
2916	Paving Asphalt VG 10 of approved quality	tonne	40000.00

Code No.	Description	Unit	Rate ₹
5001	Mobil oil	litre	200.00
6501	Sand zone V (Jamuna)	cum	550.00
7254	Hardening compound	litre	40.00
7255	Road marking paint (spirit based)	litre	120.00
7256	Superior quality road marking paint ( water based )	litre	170.00
7280	Waste plastic additive	tonne	40000.00
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	1900.00
7296	Granite of any colour, 30 mm thick (slab area upto 0.50 sqm)	sqm	2300.00
7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	2000.00
7309	Paving Asphalt of grade VG-30 of approved quality	tonne	41000.00
7318	Plasticizer / super plasticizer	kilogram	38.00
7382	Bitumen emulsion rapid setting (R.S.) confirming to IS : 8887	tonne	29800.00
7426	Cat's eye	each	180.00
7739	Modified Bitumen Refinery produced CRMB - 55	tonne	40900.00
7741	Modified Bitumen Refinery produced CRMB - 60	tonne	40800.00
7742	Bitumen emulsion medium setting (M.S.) confirming to IS : 8887	tonne	30000.00
7773	Coloured inter locking C.C. paver Block	sqm	500.00
7774	Stone size 10x10x7.50cm	each	9.00
7893	Tactile tile	sqm	868.00
7895	Matt finished vitrified tile 100x100 x16 mm	sqm	930.00
7896	Vitrified tile	sqm	510.00
8685	Delineator	each	310.00
8686	Precast C.C. Kerb stone M - 25	cum	4100.00
8687	Thermoplastic paint	kg	63.00
8688	Glass beads	kg	62.00
8689	Interlocking C.C. paver block ( 60 mm thick, M-30)	sqm	325.00
8690	High intensity retro - reflective sheet	sqm	1525.00
8691	Punched tape concertina coil 600 m dia 10 m openable length (Total length 90 m)	bundle	750.00
8692	RBT reinforced barbed wire	metre	9.00
8693	Turn buckle and strengthening bolt	each set	40.00
8694	Precast pavement slab 450 x 450 x 50 mm (M - 30)	each	60.00
8695	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm	sqm	258.00
8696	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm, PVC coated to outer dia 5 mm	sqm	285.00
8697	Chain link fabric fencing mesh of size 25x25 mm made of G.I. wire of dia 3 mm	sqm	340.00
9999	Sundries	L.S.	1.70

Code No.	Descrip	tion	Unit	Rate ₹
	ROADS			
16.1	8 to 12 to cm dept including	tion and consolidation of sub grade with power road roller of onne capacity after excavating earth to an average of 22.5 h, dressing to camber and consolidating with road roller g making good the undulations etc. and re-rolling the sub nd disposal of surplus earth with lead upto 50 metres.	sqm	73.55
16.2	moisture	compaction of earth work in embankment under optimum conditions to give at least 95% of the maximum dry density density).	cum	9.30
16.3	Supplyir	ng and stacking at site.		
	16.3.1	90 mm to 45 mm size stone aggregate	cum	1,121.90
	16.3.2	63 mm to 45 mm size stone aggregate	cum	1,272.90
	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	1,296.15
	16.3.4	Over burnt (Jhama) brick aggregate 120 mm to 40 mm	cum	576.00
	16.3.5	Over burnt (Jhama) brick aggregate 90 mm to 45 mm	cum	599.25
	16.3.6	Stone screening 13.2 mm nominal size (Type A)	cum	1,410.20
	16.3.7	Stone screening 11.2 mm nominal size (Type B)	cum	1,453.80
	16.3.8	Red bajri	cum	1,285.35
	16.3.9	Good earth	cum	308.35
	16.3.10	Moorum	cum	646.55
16.4	to WBM with 3 wh proper g screenin	spreading and compacting stone aggregate of specified sizes specifications in uniform thickness, hand picking, rolling neeled road / vibratory roller 8-10 tonne capacity in stages to rade and camber, applying and brooming requisite type of g / binding material to fill up interstices of coarse aggregate, and compacting to the required density.	cum	388.85
16.5	blinding spreadir etc. com	vater bound macadam sub-base with brick aggregate and material, earth etc. including screening, sorting and og to template and consolidation with light power road-roller plete.(payment for brick aggregate and moorum etc. to be parately)		
	16.5.1	Over burnt (Jhama) brick aggregate 120 mm to 40 mm	cum	297.55
	16.5.2	Over burnt (Jhama) brick aggregate 90 mm to 45 mm	cum	297.55
16.6		ng, stacking and Spreading 6 mm thick red bajri, watering ng complete including preparation of the surface and rolling.		
	16.6.1	With road roller/ hand roller	sqm	13.35
16.7		lging in full brick width and half brick depth including on, refilling and disposal of surplus earth lead upto 50 metres.		
	16.7.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	126.75

### 16.0 ROAD WORK

Code No.	Descript	ion	Unit	Rate ₹	
16.8	-	ing laid lengthwise with half brick depth including excavation, nd disposal of surplus earth lead upto 50 metres :			
	16.8.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	36.35	
16.9	rubbish, l	g metalled (water-bound) road surface including disposal of ead upto 50 m and consolidation of the aggregate received rifying with power road roller of 8 to 10 tonne capacity.	sqm	12.60	
16.10	laying br blinding r	ajri path including preparation of subgrade, supplying and ick aggregate of 50 mm nominal size 7.5 cm deep with material consisting of 12 mm moorum and 12 mm red bajri ated with road roller.	sqm	115.25	
16.11		e pitching 22.5 cm thick including supply of stones and g surface complete.	sqm	398.85	
16.12	•	pitching half brick thick in drains including supply of bricks aring the surface complete :	·		
	16.12.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	sqm	453.20	
16.13	quantitie	oad and making good the same including supply of extra s of materials i.e. aggregate, moorum screening, red bajri ur required.			
	16.13.1	bituminous portion	cum	2,151.60	
	16.13.2	Water bound macadam	cum	1,166.60	
16.14	-	ajri paths and making good the same including supply of antities of brick aggregate, moorum and red bajri required.	sqm	108.00	
	FENCING	3			
16.15	Supplyin	g at site :			
	16.15.1	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in- charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	cum	19,081.45	
	16.15.2	Welded steel wire fabric of required width having rectangular mesh painted with two or more coats of enamel paint of approved shade over a coat of primer (Priming & Painting to be paid for separately).	kg	64.55	
16.16	Supplying	g and fixing turn buckles and straining bolts for barbed wire	each set	148.35	
16.17	cement c corner po provided 9.38 kg p fixed with	with R.C.C. post placed at required distance, embedded in concrete blocks, every 15th post, last but one end post and ost shall be strutted on both sides and end post one side only, with horizontal lines and two diagonals of barbed wire weighing er 100 metres (minimum), between the two posts fitted and G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm ixed while casting the post (cost of R.C.C. posts, struts, earth			

Code No.	Description	Unit	Rate ₹
	work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.		
	16.17.1 With G.I. barbed wire	metre	8.15
16.18	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used.		
	16.18.1 With G.I. barbed wire	metre	12.50
16.19	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	Kg.	69.75
16.20	Welded steel wire fabric fencing with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x 60 cm of mix 1:5:10 (1 cement:5 fine sand : 10 graded stone aggregate 40 mm nominal size), every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and struts embedded in cement concrete blocks 70x45x50 cm of the same mix, provided with welded steel wire fabric fixed between the posts fitted and fixed with G.I. staples on wooden plugs or tied to 6 mm bar nibs with G.I. binding wire (cost of posts, welded steel wire fabric, painting, earth work in excavation and concrete to be paid for separately).	sqm	25.80
	ROAD SIGNS		
16.21	Engraving letters in hard stone	per cm height per letter	3.90
16.22	Providing and fixing 15x15x90 cm boundary stone of hard stone with top 30 cm chisel dressed on all four sides including top (cost of excavation, refilling and concrete etc. to be paid for separately).	each	119.30
16.23	Providing and fixing 15 cm dia at top, 20 cm at bottom and 90 cm high precast reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) boundary stone as per standard design, including finishing smooth with cement mortar 1:3 (1 cement : 3 fine sand) (cost of excavation, refilling and concreting to be paid for separately).	each	427.75
16.24	Providing and fixing precast reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) kilometre stone as per standard design, including finishing smooth in 1:3 cement mortar (1 cement : 3 fine sand) but excluding the cost of earth work, concrete in foundation, painting and lettering etc. which shall be paid for separately.		
	16.24.1 35x111x25 cm size	each	1,632.85
	16.24.2 50x152.5x25 cm size	each	3,000.15
	16.24.3 35x93.5x18 cm size	each	1,097.30

SUBHEAD -16.0 ROAD WORK

Code No.	Description	Unit	Rate ₹
	SURFACE DRESSING		
16.25	Surface dressing on new surface with paving bitumen of grade VG - 10 of approved quality using 2.25 kg of bitumen per sqm with 1.65 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity etc. complete:	sqm	159.50
16.26	Surface dressing on new surface in two coats with bitumen of grade VG -10 of approved quality using 1.8 kg of bitumen per sqm with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface for first coat and 1.1 kg. of bitumen per sqm with 1.00 cu. metre of stone chippings 11.2 mm nominal size per 100 sqm of road surface for second coat, including consolidation of each coat separately with road roller of 6 to 8 tonne capacity etc. complete.	sqm	216.10
16.27	Surface dressing on old surface with hot bitumen of grade VG - 10 of approved quality using 1.95 kg of bitumen per sqm with 1.50 cum of stone chippings 11.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity, etc. complete.	sqm	131.30
16.28	Surface dressing one coat on new surface with bitumen of specified grade at a rate of 1.95 kg/sqm of surface area with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity, etc. complete :		
	16.28.1 Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS : 8887)	sqm	115.55
16.29	Surface dressing one coat on old surface with bitumen of specified grade at the rate of 1.22 kg/ sqm of surface area with 1.10 cum of stone chippings 11.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity etc. complete :		
	16.29.1 Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS : 8887)	sqm	73.75
	PREMIX CARPET		
16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :		
	16.30.1 On W.B.M. @ 0.75 Kg / sqm	sqm	43.65
	16.30.2 On bituminous surface @ 0.50 Kg / sqm	sqm	31.75
16.31	Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributer including preparing the surface & cleaning with mechanical broom.		
	16.31.1 With rapid setting bitumen emulsion		
	16.31.1.1 On W.B.M / W.M.M. @ 0.4kg/sqm	sqm	15.25
	16.31.1.2 On bituminous surface @ 0.25kg/sqm	sqm	10.05

Code No.	Description	Unit	Rate ₹
	16.31.2 With medium setting bitumen emulsion		
	16.31.2.1 On W.B.M / W.M.M. @ 0.4kg/sqm	sqm	15.35
	16.31.2.2 On bituminous surface @ 0.25kg/sqm	sqm	10.10
	Note : Use of item no. 16.31.1 shall be restricted only for s at sub zero temperature or for emergency applications.	sites	
16.32	2 cm premix carpet surfacing with 1.8 cum and 0.90 cum of s chippings of 13.2 mm size and 11.2 mm size respectively per sqm and 52 kg and 56 kg of hot bitumen per cum of stone chipp of 13.2 mm and 11.2 mm size respectively, including a tack with hot straight run bitumen, including consolidation with roller of 6 to 9 tonne capacity etc. complete (tack coat to be for separately).	·100 bings coat road	
	16.32.1 With paving Asphalt grade VG - 10 heated and then m with solvent at the rate of 70 grams per kg of aspha		147.25
	16.32.2 With paving Asphalt grade VG - 30 with no solvent	sqm	146.00
	16.32.3 With Refinery Modified Bitumen CRMB 55 conformi IRC: SP: 53	ng to sqm	148.75
16.33	2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of s chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 and 11.2 mm size respectively, including a tack coat with hot stra run bitumen, including consolidation with road roller of 6 to 9 to capacity etc. complete (tack coat to be paid for separately).	n and 2 mm aight	
	16.33.1 With paving Asphalt grade VG - 10 heated and then m with solvent at the rate of 70 grams per kg of aspha		179.50
	16.33.2 With paving Asphalt grade VG - 30 with no solvent	sqm	177.90
	16.33.3 With Refinery Modified Bitumen CRMB 55 conformi IRC: SP: 53	ng to sqm	181.35
16.34	2 cm premix carpet surfacing with 2.4 cum of stone chippings mm nominal size per 100 sqm and bitumen emulsion (medium se min. 65% bitumen content) complying with IS : 8887, using 96 kg cum of chippings, including consolidation with road roller of 6 tonne capacity etc. complete.	etting g per	133.65
16.35	2.5 cm premix carpet surfacing with 3 cum of stone chipping mm nominal size per 100 sqm and bitumen emulsion (medium se min. 65% bitumen contents) complying with IS : 8887, using 9 per cum of chippings of road surface, including consolidation road roller etc complete.	is 10 etting 96 kg	162.40
16.36	Providing and laying Bitumen Penetration Macadam with hard saggregate of quality, size and grading as specified, with bitume suitable penetration grade, including required key aggregat specified, spreading coarse aggregate with the help of self propertipper tail mounted aggregate spreader and applying bitumen pressure distributor and then spreading key aggregate with the of aggregate spreader complete, including consolidation with	etone en of e as elled/ by a help	

Code No.	Descript	ion	Unit	Rate ₹
	roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy :			
	16.36.1	For 50mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm.	sqm	386.60
	16.36.2	For 75 mm compacted thickness in two layers using stone aggregate of size 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 20.0 mm graded @ 0.18 cum per 10 sqm. With paving asphalt grade VG - 10 @ 68 kg/10 sqm.	sqm	552.95
	MASTIC	AND BITUMASTIC WEARING COURSE	•	
16.37	with indus by using providing chipping approxim pressed i including	and laying bitumen mastic wearing course (as per specifications) strial bitumen of grade 85/25 conforming to IS : 702, prepared mastic cooker and laid to required level and slope, including antiskid surface with bitumen precoated fine grained hard stone of approved size at the rate of 0.005 cum per 10 sqm and at nate spacing of 10 cm centre to centre in both directions, into surface protruding 1 mm to 4 mm over mastic surface, cleaning the surface, removal of debris etc. all complete. ring bitumen using 10.2% as per MORTH specification).		
	16.37.1	25mm thick	sqm	811.95
	16.37.2	40 mm thick	sqm	1,299.15
16.38	using sto with 10 r sand @ ^ 56 kg/cur coat with	nick bitumastic sheet with hot bitumen of approved quality, one chippings (60% with 12.5 mm nominal size and 40% mm nominal size) @ 1.65 cum per 100 sqm and coarse 1.65 cum per 100 sqm of road surface and with bitumen @ m of stone chippings and @ 128 kg/cum of sand over a tack hot straight run bitumen, including consolidation with road to 10 tonne etc. complete. (tack coat to be paid separately) :		
	16.38.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	sqm	243.60
	16.38.2	With paving Asphalt grade VG - 30	sqm	240.90
	16.38.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP : 53	sqm	246.75
16.39	using sto with 10 r sand @ 2 56 kg/cur coat with	ck bitumastic sheet with hot bitumen of approved quality, one chippings (60% with 12.5 mm nominal size and 40% mm nominal size) @ 2.60 cum per 100 sqm and coarse 2.60 cum per 100 sqm of road surface and with bitumen @ m of stone chippings and @ 128 kg/cum of sand over a tack hot straight run bitumen, including consolidation with road to 10 tonne etc. complete. (tack coat to be paid separately) :		
	16.39.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	sqm	373.85
	16.39.2	With paving asphalt grade VG - 30 with no solvent	sqm	369.65
	16.39.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP : 53	sqm	378.85

Code No.	Descript	ion	Unit	Rate ₹
	SEAL C	DAT		
16.40	2.36 mm kg of bitu and 0.60 c	and laying seal coat of premixed fine aggregate (passing and retained on 180 micron sieve) with bitumen using 128 men of grade VG - 10 bitumen per cum of fine aggregate cum of fine aggregate per 100 sqm of road surface, including d finishing with road roller all complete.	sqm	65.80
16.41	bitumen I using 98 0.90 cum and retain	and laying seal coat over prepared surface of road with neated in bitumen boiler fitted with the spray set spraying kg of bitumen of grade VG - 10 and blinding surface with of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve led on 2.36 mm sieve) per 100 sqm of road surface, including d finishing with power road roller all complete.	sqm	86.10
	Note : S	eal coat items to be operated only with the prior of Chief Engineer concerned.	·	
	CONCRE	TE PAVEMENT		
16.42	aggregate and camb	concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone e 40 mm nominal size) in pavements, laid to required slope per in panels as required including consolidation finishing ing complete.	cum	4,873.25
16.43	roads/ ta mix, using size in ap criteria, p laying at needle au finishing M.S. cha expansio deep) by approved Engineer	and laying design mix cement concrete of M-30 grade, in xi tracks/ runways, using cement content as per design g coarse sand and graded stone aggregate of 40 mm nominal propriate proportions as per approved & specified design roviding dowel bars with sleeve/ tie bars wherever required, site, spreading and compacting mechanically by using nd surface vibrators, levelling to required slope/ camber, with required texture, including steel form work with sturdy nnel sections, curing, making provision for contraction/ n, construction & longitudinal joints (10 mm wide x 50 mm groove cutting machine, providing and filling joints with l joint filler and sealants, complete all as per direction of -in-charge (Item of joint fillers, sealants, dowel bars with e bars to be paid separately).		
		ement content considered in M-30 is @ 340 kg/cum. Excess/ nent used as per design mix is payable/ recoverable y.		
	16.43.1	Cement concrete prepared with batch mixing machine	cum	6,126.85
	16.43.2	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	cum	6,475.30
16.43A	Annexure	e 'A' to Item number 16.43	cum	212.30
16.43B		e 'B' to Item number 16.43	cum	443.95
16.44	Extra for p	providing and mixing hardening compound of approved quality anufacturer's specification in cement concrete.		46.45
16.45	•	and fixing in position pre-moulded joint filler in expansion	per cm depth per cm width per m length	

Code No.	Description		Unit	Rate ₹
16.46	Providing and laying in position bitumen h expansion joints etc.			
16.46.1	Using grade 'A' sealing compound.		per cm depth per cm width per m length	1.90
	PAINTING ROAD/RUNWAY MARKING	3		
16.47	Painting runway/taxi track/apron marking w to give uniform finish with road marking p approved by the Engineer-in-charge, i/c o dirt, scales, oil, grease and other foreign r complete.	paint of superior make as cleaning the surface of all		
	16.47.1 New work (Two or more coats)		sqm	104.45
	16.47.2 Old work (One or more coats)		sqm	65.35
16.48	Painting road surface marking with adeq uniform finish with ready mixed road ma IS : 164, on bituminous surface in white cleaning the surface of all dirt, scales, oil, g etc. complete.	rking paint conforming to e/yellow shade, including		
	16.48.1 New work (Two or more coats)	1	sqm	112.75
	16.48.2 Old work (One or more coats)		sqm	73.40
	MISCELLANEOUS			
16.49	Making bell mouth opening/ entrance of drainage pipe under footpath, including p 1:3:6 (1 cement : 3 coarse sand : 6 graded nominal size) for shape of bell mouth, inclu- and fixing precast R.C.C./ S.F.R.C. slab cement mortar 1:3 (1 cement : 3 fine sam exposed surface of the slab & bell mouth inclu- & neat cement punning inside the bell mouth	roviding cement concrete d stone aggregate 20 mm uding plastering providing including plastering with nd) of 6 mm thickness on cluding centring, shuttering	each	1,664.85
16.50	Providing and fixing Glow studs of size 10 duty body shall be moulded ASA (Acrylic HIP (High impact polystyrene) or ABS hav micro- prismatic lens with abrasion resista Engineer in charge. The glow stud shall s tested in accordance with ASTM D4280. Th surface shall be 35 (+/-5) degress to base both sides with at least 12 cm of reflectiv luminance intensity should be as per the tested as described in ASTM I: 809 as r part 4 : 1973. The studs shall be fixed to th adhesive conforming to IS, as per procedu manufacturer complete and as per direction	styrene Acryloretrite ) or ving electronically welded nt coating as approved by upport a load of 13635 kg ne slope of retro- reflective . The reflective panels on e area up each side. The specification and shall be ecommended in BS: 873 ne Road surface using the ure recommended by the	each	240.00
16.51	Preparation of sub-base road pavement (slaked), fly ash stabilised soil with a mix and 85% local suitable soil by weight, so	with commercial dry lime of 3% lime, 12% fly ash		

Code No.	Description	Unit	Rate ₹
	field C.B.R. of 20, including mixing, rolling with road roller curing etc. all complete.		
	16.51.1 Minimum thickness 15 cm	cum	627.10
16.52	Providing and fixing precast lime fly ash concrete blocks 1:2:3:6 (1 lime: 2 fly ash : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), including finishing with 10mm thick cement mortar 1:3 (1 cement : 3 coarse sand) in foot paths, including preparation of sub grade with a hand rammer, laying 10 mm thick leveling course of fine sand (jamuna sand) and filling the joints with fine sand.	cum	6,044.00
16.52X	Sub Analysis X for sub analysis item Number 16.52Y	cum	1,903.30
16.52Y	Sub Analysis Y for Item Number 16.52	cum	2,511.30
16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	metre	284.10
16.54	<ul> <li>Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specificatons and directions of Engineer-in-Charge.</li> <li>16.54.1 50 to 100 mm average compacted thickness with bitumen</li> </ul>		
	of grade VG-30 @5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	8,724.75
	16.54.2 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	8,488.90
16.55	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equiped with electronic sensor to the required grade, level and alignment and		.,

Code No.	Descript	ion	Unit	Rate ₹
	specificat	ith smooth wheeled, vibratory and tandem rollers as per ions to achieve the desired compaction and density, complete ecificatons and directions of Engineer-in-Charge.		
	16.55.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.5 0% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	6,651.80
	16.55.2	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @3.50% (percentage by weight of total mix) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	6,427.45
16.56	stone agg and filler, paver fini level and tandem r	and laying semi- dense Bituminous concrete using crushed gregates of specified grading, premixed with bituminous binder transporting the hot mix to work site by tippers, laying with isher equiped with electronic sensor to the required grade, alignment and rolling with smooth wheeled, vibratory and ollers to achieve the desired compaction and density as per tion, complete and as per directions of Engineer-in-Charge.		
	16.56.1	25 mm compacted thickness with bitumen of grade VG- 30 @5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	sqm	217.60
	16.56.2	25 mm compacted thickness with bitumen of grade VG- 30 @5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	sqm	211.70
16.57	aggregat and filler, paver fini level and tandem r	g and laying Bituminous concrete using crushed stone tes of specified grading, premixed with bituminous binder transporting the hot mix to work site by tippers, laying with isher equiped with electronic sensor to the required grade, l alignment and rolling with smooth wheeled, vibratory and ollers to achieve the desired compaction and density as per tion, complete and as per directions of Engineer-in-Charge.		
	16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	9,502.40
	16.57.2	40/50 mm compacted thickness with bitumen of grade VG-30 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @8% (percentage by weight of bitumen) prepared in Batch Type Hot Mix Plant of 100- 120 TPH capacity.	cum	9,984.05
	16.57.3	40/50 mm compacted thickness with bitumen of grade PMB-40 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.		9,562.60
		сарасіту.	cum	9,562.6

Code No.	Descript	ion	Unit	Rate ₹
	16.57.4 40/50 mm compacted thickness with bitumen of grade CRMB-60 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	9,472.30	
	16.57.5	40/50 mm compacted thickness with bitumen of grade VG-30 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	9,261.60
	16.57.6	40/50 mm compacted thickness with bitumen of grade VG-30 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @8% (percentage by weight of bitumen) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	9,743.20
	16.57.7	40/50 mm compacted thickness with bitumen of grade PMB-40 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	9,321.80
	16.57.8	40/50 mm compacted thickness with bitumen of grade CRMB-60 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	9,231.50
16.58	Deleted.			
16.59	up of 2 m intensity conformin other cold symbols by an adh pressure same wit support fir resistant size 35x3 ISMT 502 the botto providing be painte shade an chromate and white two or mo coat incl	turing, supplying and fixing retro reflective sign boards made in thick aluminium sheet, face to be fully covered with high encapsulated type heat activated retro reflective sheeting ing to type - IV of ASTM-D 4956-01 in blue and silver white or our combination including subject matter, message (bi-lingual), and borders etc. as per IRC ; 67:2001, pasted on substrate besive backing which shall be activated by applying heat and conforming to class -2 of ASTM-D-4956-01 and fixing the h suitable sized aluminium alloy rivets @ 20 cm c/c to back rame of M.S. angle iron of size 25x25x3 mm along with theft measures, mounted and fixed with 2 Nos. M.S. angles of 35x5 mm to a vertical post made up to M.S. Tee section x50x6 mm welded with base plate of size 100x100x5 mm at im end and including making holes in pipes, angles flats, g & fixing M.S. message plate of required size, steel work to d with two or more coats of synthetic enamel paint of required id of approved brand & manufacture over priming coat of zinc e yellow primer (vertical MS-Tee support to be painted in black e colours).Backside of aluminium sheet to be painted with ore coats of epoxy paint over and including appropriate priming uding all leads and lifts etc. complete as per drawing , tion and direction of Engineerin-charge.		
	16.59.1	Mandatory/ Regulatory sign boards of 900 mm diametre with support length of 3750 mm	sqm	4,843.65

Code No.	Description	Unit	Rate ₹
	16.59.2 Cautionary /warning sign boards of equilateral triang shape having each side of 900 mm with support leng of 3650 mm		3,532.35
16.60	Manufacturing, supplying and fixing retro reflective overhead signage box made up of 2 mm thick aluminium sheet, face to be fully covered w high intensity and encapsulated lens type heat activated retro reflect sheeting conforming to type - III of ASTM-D-4956-01 as approved Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in si white with blue colour back ground and with high intensity grade, pas on substrate by pressure sensitive adhesive backing which shall activated by applying pressure conforming to class II of ASTM-D-4956 and fixing the same to the plate of structural frame work by mean suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm cet to centre all along the periphery as well as in two vertical rows along w theft resistant measures, including the cost of painting with two or m coats of epoxy paint in grey colour on the back side of aluminium sh including appropriate priming coat. The rate includes the cost of round off the corners, lowering down the structural frame work from the gar fixing and erecting the same in position all complete as per drawir specification and direction of the engineer-in-charge. (Structural frame w including M.S. plate to be provided separately. Rectangular area of sheet only shall be measured for payment).	with stive d by lver sted l be S-01 s of ntre with nore neet ding ntry, ngs, work	
16 61	16.60.1 Overhead informatory road signage	sqm	4,657.95
16.61	Providing Retro-reflective regulatory sign board of size 900 mm meter made out of 2 mm thick aluminium sheet, face to be f covered with high intensity encapsulated lens type retro -reflec sheeting as approved by Engineer-in-charge . Letter, symbols, borc etc. will be as per IRC - 67 with required colour scheme on boards and with the high intensity grade A. The aluminium sheet be riveted to M.S. frame of angle iron of size 40x40x4 mm. boards will be fixed to 1 No. 50x50 mm square post made of M angle 50x50x4 mm, 4 m long welded to the frame with adequ anti-theft arrangement .Sheet work to be painted with two or m coats of synthetic enamel paint over an under coat (primer) and b side of aluminium sheet to be painted with two or more coats of ep paint including appropriate priming coat complete in all respects as direction of Engineer-in-charge.	ully tive ders the et to The 4.S. late lore ack oxy	5,373.45
16.62	Providing and applying 2.5 mm thick road marking strips (re reflective) of specified shade/ colour using hot thermoplastic mate by fully/ semi automatic thermoplastic paint applicator machine fit with profile shoe, glass beads dispenser, propane tank heater a profile shoe heater, driven by experienced operator on road surfa- including cost of material, labour ,T&P, cleaning the road surfac- all dirt, seals, oil, grease and foreign material etc. complete as direction of Engineer-in-charge and accordance with applica- specifications.	erial tted and ace e of per	529.40
16.63	Providing, laying and making kerb channel 30 cm wide and 50 thick with cement concrete 1:3:6 (1 cement: 3 coarse sand:6 grad stone aggregate 20 mm nominal size) over 75mm bed of dry b	mm ded	220.10

Code No.	Description	Unit	Rate ₹
	ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth etc. complete and as per direction of Engineer-in-charge.	sqm	318.25
16.64	Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineer-in-charge.	sqm	106.70
16.65	Providing and fixing post delineators made of ABS round body fitted with 2 nos 100 mm dia high reflective reflectors and mounted on MS pipe of 65 mm dia duly powder coated anti-rust and anti theft steel to be installed as per direction of Engineer-in-charge.	each	591.10
16.66	Excavating holes upto 0.10 cum, including getting out the excavated soil, then returning the soil as deported in layers not exceeding 20 cm in depth, including consolidating and deposited layer by ramming watering etc., disposing of surplus excavated soil as directed with in a lead of 50 mm and lift upto 1.5 m.		
	16.66.1 All kind of soil	each	15.70
16.67	Providing and fixing at or near ground level factory made RCC pavement slab of M-30 grade of size 450x450x50 mm, including reinforcement with 6 mm dia M.S. bars 4 nos on each side, including setting in position in footpath to the required level and line over a bed of 20 mm average thick cement mortar 1:5 (1 cement : 5 coarse sand), having joint thickness not more than 5mm except on curve, including filling of joints with same cement mortar and making grooves etc. complete as per direction of Engineer-in-charge.	sqm	561.50
16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	sqm	557.45
16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved	-	
16.70	by Engineer-in-charge). Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.	cum	5,236.95
	16.70.1 Made of G.I. wire of dia 4 mm	sqm	525.55
	16.70.2 Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	sqm	558.50

Code No.	Descripti	ion	Unit	Rate ₹
16.71	mesh siz	and fixing G.I. chain link fabric fencing of required width in the 25x25 mm made of G.I. wire of dia 3 mm including ening with 2 mm dia wire or nuts, bolts and washers as complete as per the direction of Engineer-in-charge.	sqm	625.60
16.72	Supplying thick at s	g and stacking of hard stone (for stone pitching) 22.5 cm ite.	cum	668.40
16.73	with ham minimum	e pitching 22.5 cm thick laid in courses and required profile mer dressed stones having no side less than 15 cm, with depth of 20 cm including preparing the bedding surface omplete.(Payment for Stone to be made separately).	sqm	225.60
16.74		ick back filling for pitching including supplying of required and consolidation etc. complete with :		
	16.74.1	Moorum	sqm	54.65
	16.74.2	Stone aggregate 20 mm nominal size	sqm	121.40
	16.74.3	Stone aggregate 40 mm nominal size	sqm	104.80
16.75	concrete laid and f process a etc. comp	and laying C.C. pavement of mix M-25 with ready mixed from batching plant. The ready mixed concrete shall be finished with screed board vibrator, vacuum dewatering and finally finished by floating, brooming with wire brush olete as per specifications and directions of Engineer-in- The panel shuttering work shall be paid for separately).	cum	6,248.00
	•	ement content considered in this item is @ 330 kg/cum. ess cement used as per design mix is payable/ recoverable y).		
16.76		or using of M-20 grade concrete instead of M-25 grade in C.C. pavement.	cum	173.25
16.77	and dispo	g the existing bituminous road surface to a depth of 50 mm osal of scarified material within all lifts and lead upto 1km anical means).	sqm	3.10
16.78	conformin OMC, can & lifts, spi grader on to achiev	tion of granular sub-base by providing close graded Material ng to specifications, mixing in a mechanical mix plant at rriage of mixed material by tippers to work site, for all leads reading in uniform layers of specified thickness with motor prepared surface and compacting with vibratory power roller e the desired density, complete as per specifications and s of Engineer-in-Charge.		
	16.78.1	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	cum	2,018.50
	16.78.2	With material conforming to Grade-II (size range 53 mm to 0.075 mm ) having CBR Value-25	cum	2,044.35
	16.78.3	With material conforming to Grade-III (size range 26.5 mm to 0.075 mm ) having CBR Value-20	cum	2,029.50
16.79	(size ran	, laying, spreading and compacting graded stone aggregate ge 53 mm to 0.075 mm ) to wet mix macadam (WMM) tion including premixing the material with water at OMC in		

#### SUBHEAD -16.0 ROAD WORK

Code No.	Description	Unit	Rate ₹
	mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	cum.	2,074.25
16.80	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in-		2 002 10
16.81	charge. Providing and erecting 2.00 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in- Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge. (Note :- One time payment shall be made for providing barricading from start of work till completion of work i/c shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).	cum	3,003.10
16.81X	Sub analysis item for material component of Item No. 16.81	metre	41.90
16.81Y	Sub analysis item for fabrication charges of Item No. 16.81	metre	756.45
16.82	Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	metre	13.00
16.83	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	sqm	43.65
16.84	Laying old cement cocrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer- in-charge. (Old CC paver blocks shall be supplied by the department		
	free of cost).	sqm	179.95

SUBHEAD -16.0 ROAD WORK

Code No.	Description	Unit	Rate ₹
16.85	Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)	metre	39.90
16.86	Providing and laying gang saw cut 18 mm thick, mirror polished pre moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring in road side plazas and similar locations, laid over 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge.		
	16.86.1 Area less than 0.50 sqm.	sqm	3,068.80
16.87	Providing and laying gang saw cut 30 mm thick, mirror polished pre moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring in road side plazas and similar locations, laid over 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge.		
	16.87.1 Area less than 0.50 sqm.	sqm	3,556.60
16.88	Providing and laying matt finished vitrified tile of size 100x100x16mm having water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in out door floors such as footpath, court yard multi models etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as direction of Engineer-in-Charge.	sqm	1,435.10
16.89	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction		
10.00	of Engineer-in-Charge.	sqm	947.25
16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc.		
	complete as per direction of Engineer-in-Charge.	sqm	1,363.05

Code No.	Description	Unit	Rate ₹
16.91	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of fine sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with jamuna sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks, lawns, drive ways or light traffic parking etc. complete as per manufacturer's specifications & direction of Engineer- in-Charge. 60mm thick C.C. paver block of M-35 grade with approved colour, design & pattern.	sqm	727.00
16.92	Providing and fixing 10x10x7.50 cm Granite stone block hand cut and chisel dressed on top, for paving in floors, drains etc. laid over 20mm thick base mortar 1:4 (1cement:4 coarse sand) with joints 10mm wide filled with same mortar including ruled pointing etc. complete as per direction of engineer-in charge.	sqm	1,318.80

# **SUB HEAD : 17.0**

## **SANITARY INSTALLATIONS**

Code No.	Description	Unit	Rate ₹
0100	Bandhani	day	328.00
0101	Bhisti	day	328.00
0103	Blacksmith 2nd class	day	361.00
0112	Carpenter 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0117	Assistant Fitter or 2nd class Fitter	day	361.00
0123	Mason (brick layer) 1st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0128	Mate	day	328.00
0131	Painter	day	361.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1200.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1050.00
0367	Portland Cement	tonne	5240.00
0586	Chromium plated Brass screws 40 mm	100 Nos	200.00
0588	Chromium plated Brass screws 25 mm	100 Nos	120.00
0828	Anticorrosive bituminous paint (black)	litre	90.00
0830	Enamel paint	litre	160.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	140.00
0982	Coarse sand (zone III)	cum	1120.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4926.00
1309	C.I. bracket for wash basin and sinks	pair	70.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	40.00
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	35.00
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	20.00
1332	M.S.Holder bat clamp of approved design for75 mm S.C.I. pipe	each	18.00
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	28.00
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	30.00
1350	Mosquito proof coupling of approved design	each	30.00
1363	Vitreous china foot rests 250x130x30 mm	pair	100.00
1369	S.C.I. gully or nahani grating 100 mm dia	each	18.00
1373	Rubber insertions for 80 mm dia pipe joints	each	15.00
1374	Rubber insertions for 100 mm dia pipe joints	each	18.00
1392	Mirror of superior make glass 60x45 cm	each	310.00
1396	Vitreous china pedestal for wash basin	each	700.00
1397	Pig lead	kilogram	90.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	270.00
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	400.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	520.00

#### **BASIC RATES (17.0 SANITARY INSTALLATIONS)**

SUB HEAD -17.0 SANITARY INSTALLATIONS

Code No.	Description	Unit	Rate ₹
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	600.00
1540	Flush pipe and spreaders G.I. for single set of one squatting plate urinal	each	175.00
1541	Flush pipe and spreaders G.I. for range of two squatting plates urinal	each	250.00
1542	Flush pipe and spreaders G.I. for range of three squatting plates urinal	each	300.00
1543	Flush pipe and spreaders G.I. for range of four squatting plates urinal	each	390.00
1614	G.I. inlet connection	each	65.00
1616	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75 mm dia	each	950.00
1617	S.C. I. soil, waste and vent single socketed pipe 1.80 metres long: 100 mm dia	each	1150.00
1620	S.C.I. plain bend 75 mm dia	each	170.00
1621	S.C.I. plain bend 100 mm dia	each	350.00
1624	S.C.I. bend with access door 75 mm dia	each	200.00
1625	S.C.I. bend with access door 100 mm dia	each	252.00
1627	S.C.I. plain single equal junctions 75x75x75 mm dia	each	265.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	450.00
1630	S.C.I. single equal junctions 75x75x75 mm dia with access door	each	278.00
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door	each	376.00
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	346.00
1634	S.C.I. plain double equal junctions 100x100x100x100 mm dia	each	520.00
1636	S.C.I. double equal junctions 75x75x75x75 mm dia with access door	each	425.00
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door	each	550.00
1639	Slotted cowl (terminal guard ) 75 mm dia	each	151.00
1640	Slotted cowl (terminal guard) 100 mm dia	each	190.00
1653	Sand cast iron S&S plain single unequal junctions: 100x100x 75 mm dia	each	370.00
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door	each	400.00
1659	Sand cast iron S&S plain double unequal junctions: 100x100x75x 75 mm dia	each	550.00
1662	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door	each	550.00
1666	Sand cast iron heel rest bend 75 mm dia	each	220.00
1667	Sand cast iron heel rest bend 100 mm dia	each	250.00
1669	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	320.00
1670	S.C.I. single equal invert branch of required degree 100x100x 100 mm dia	each	410.00
1672	S.C.I. double equal invert branch of required degree 75x75x75x 75 mm dia	each	410.00
1673	S.C.I. double equal invert branch of required degree 100x100x100x 100 mm dia	each	550.00
1674	S.C.I. single unequal invert branch of required degree 100x100x 75 mm dia	each	495.00
1677	S.C.I. double unequal invert branch of required degree 100x100x 75x75 mm dia	each	570.00

SUB HEAD -17.0 SANITARY INSTALLATIONS

Code No.	Description	Unit	Rate ₹
1682	S.C.I. door pieces 75 mm dia	each	275.00
1683	S.C.I. door pieces 100 mm dia	each	400.00
1685	S.C.I. collar 75 mm dia	each	113.00
1686	S.C.I. collar 100 mm dia	each	143.00
1863	Fire clay kitchen sink: 600x450x250 mm	each	1350.00
1871	White vitreous china laboratory sink 450x300x150 mm	each	820.00
1872	White vitreous china laboratory sink 600x450x200 mm	each	1525.00
1875	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	330.00
1876	Black plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	310.00
1881	Spun yarn	kilogram	50.00
1885	15 mm C.P. brass tap	each	250.00
1889	C.P. brass toilet paper holder of standard size	each	225.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 50 mm dia	each	170.00
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 80 mm dia	each	225.00
1895	C.P. brass trap 40 mm dia	each	250.00
1896	100 mm S.C.I. trap with vent heel	each	315.00
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	275.00
1898	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	218.00
1913	Vitreous china lipped front urinal	each	460.00
1915	Vitreous china squatting plate urinal	each	1280.00
1947	Vitreous china flat back wash basin 630x450 mm	each	725.00
1949	Vitreous china angle back wash basin 600x480 mm	each	725.00
1950	Vitreous china angle back wash basin 400x400 mm	each	425.00
1951	C.P. brass waste 32 mm	each	80.00
1952	C.P. brass waste 40 mm	each	95.00
1953	Vitreous china Indian type W.C. pan size 580 mm	each	450.00
1954	Vitreous china orrisa type W.C. pan size 580 mm	each	780.00
1955	Vitreous china pedestal type water closet	each	700.00
1965	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	1300.00
1970	Vitreous china foot rests 250x125x25 mm	pair	100.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	106.64
2202	Carriage of coarse sand	cum	106.64
2205	Carriage of steel	tonne	94.80
2209	Carriage of cement	tonne	94.80
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1100.00
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	each	250.00
3229	Vitreous china flat back wash basin 550x400 mm	each	550.00
3617	C.P. Brass union 40mm dia	each	195.00
3620	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long:100 mm dia	each	1250.00

Code No.	Description	Unit	Rate ₹
3621	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long:75 mm dia	each	1035.00
3624	S.C.I. S&S bends with access door 100 mm dia	each	290.00
3625	S.C.I. S&S bends with access door 75 mm dia	each	240.00
3628	S.C.I. S&S bend 100 mm dia	each	265.00
3629	S.C.I. S&S bend 75 mm dia	each	195.00
3634	S.C.I. S&S heel rest sanitary bend 100 mm dia	each	296.00
3635	S.C.I. S&S heel rest sanitary bend 75 mm dia	each	250.00
3640	S.C.I. S&S single equal junctions 100x100x100 mm	each	472.00
3641	S.C.I. S&S single equal junctions 75x75x75 mm	each	330.00
3644	S.C.I. S&S single equal junctions with access door 100x100x 100 mm	each	495.00
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	373.00
3650	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	620.00
3651	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	462.00
3654	S.C.I. S&S double equal junctions with access door 100x100x 100x100 mm	each	615.00
3655	S.C.I. S&S double equal junctions with access door 75x75x75x 75 mm	each	480.00
3660	S.C.I. S&S single unequal junctions 100x100x75 mm	each	570.00
3664	S.C.I. S&S single unequal junctions with access door 100x100x 75 mm	each	640.00
3670	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	800.00
3674	S.C.I. S&S double unequal junctions with access door 100x100x 75x75 mm	each	850.00
3681	S.C.I. S&S single equal invert branch of required degree 100x100x 100 mm dia	each	425.00
3682	S.C.I. S&S single equal invert branch of required degree 75x75x 75 mm dia	each	323.00
3685	S.C.I. S&S double equal invert branch of required degree 100x100x100x100 mm dia	each	530.00
3686	S.C.I. S&S double equal invert branch of required degree 75x75x 75x75 mm dia	each	425.00
3690	S.C.I. S&S single unequal invert branch of required degree 100x 100x75 mm dia	each	545.00
3695	S.C.I. S&S double unequal invert branch of required degree 100x 100x75x75 mm dia	each	725.00
3699	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	225.00
3707	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	285.00
3708	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	390.00
3712	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	300.00
3713	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	383.00
3716	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	358.00
3717	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	465.00
3728	S.C.I. S&S door pieces 100 mm dia	each	400.00
3729	S.C.I. S&S door pieces 75 mm dia	each	295.00
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	350.00

SUB HEAD -17.0 SANITARY INSTALLATIONS

Code No.	Description	Unit	Rate ₹
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	300.00
3738	S.C.I. S&S, collars 100 mm	each	250.00
3739	S.C.I. S&S, collars 75 mm	each	170.00
3746	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	218.00
3747	S.C.I. S&S, 75 mm offset for 100 mm dia pipe	each	363.00
3749	Vitreous china toilet paper holder of standard size	each	150.00
4202	Red oxide Zinc chromate primer	litre	70.00
7004	Vitreous china flat back wash basin 450x300 mm	each	425.00
7005	Vitreous china 10 litres low level cistern without fittings	each	925.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1600.00
7048	Rawl plug 50 mm (designation 10 nos)	each	10.00
7072	Wall mounted water closet	each	4650.00
7073	Adjustable Vetrious China Cistern with fittings	each	2500.00
7074	White Vetrious China Waterless Urinal	each	15000.00
7075	Cistern with fittings for Waterless Urinal	each	3400.00
7076	White Vetrious Urinal	each	14000.00
7095	Stainless steel kitchen sink - with drain board bowl depth 250 mm	each	5185.00
7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm	each	4950.00
7097	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 200 mm	each	4250.00
7098	Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 178 mm	each	3000.00
7101	Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 mm	each	3150.00
7102	Stainless steel kitchen sink - without drain board 610x460 mm bowl depth 200 mm	each	2845.00
7103	Stainless steel kitchen sink - without drain board 470x420 mm bowl depth 178 mm	each	2120.00
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	1320.00
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	1150.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	1720.00
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	550.00
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	450.00
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	300.00
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	350.00
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	700.00
7116	Hard board 6 mm thick	sqm	175.00
7117	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	30.00
7118	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	35.00
7119	Flexible (coil shaped) PVC waste pipe for sink and washbasin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	28.00

Code No.	Description	Unit	Rate ₹
7120	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	30.00
7123	Coloured High density polyethylene / poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	685.00
7126	White Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	975.00
7127	Coloured Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	1500.00
7358	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe)	each	640.00
7359	P.V.C. automatic flushing cistern 5 litre capacity	each	490.00
7361	P.V.C. automatic flushing cistern 10 litre capacity	each	530.00
7363	15 mm C.P. brass tap with elbow operation lever	each	700.00
7364	White glazed fire clay draining board 600x450x25 mm	each	550.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	465.00
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	1050.00
7377	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1250.00
7378	G.I. flush pipe and C.P. brass spreader including C.P.connecting pipe Range of four lipped urinals	each	1900.00
7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS: 2556	each	1600.00
7491	PTMT - Waste Coupling 31/32 mm	each	62.00
7492	PTMT - Waste Coupling 38/40 mm	each	88.00
7493	PTMT - Bottle Trap 31/32 mm	each	390.00
7494	PTMT - Bottle Trap 38/40 mm	each	410.00
7503	PTMT Liquid Soap Container of 400 ml capacity	each	185.00
7504	PTMT Towel Ring 215x200x37 mm	each	152.00
7505	PTMT- Towel Rail (450 mm)	each	242.00
7506	PTMT - Towel Rail (600 mm)	each	292.00
7507	PTMT Shelf 450x124x36 mm	each	314.00
7508	PTMT - Urinal Spreader 15 mm	each	150.00
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724 mm X 578 mm	each	3800.00
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355 mm	each	1850.00
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345 mm	each	1850.00
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	435.00
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	468.00
7858	P.T.M.T. Urinal cock 15 mm dia	each	120.00
9999	Sundries	L.S.	1.70

#### **17.0 SANITARY INSTALLATIONS**

Code No.	Descrip	tion	Unit	Rate ₹
17.1	pan ) wit P.V.C. flu device (l fixtures d	g and fixing water closet squatting pan (Indian type W.C. h 100 mm sand cast Iron P or S trap, 10 litre low level white ushing cistern, including flush pipe, with manually controlled handle lever) conforming to IS : 7231, with all fittings and complete, including cutting and making good the walls and herever required :		
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	3,265.25
	17.1.2	Stainless Steel AISI-304(18/8) Orissa pattern W.C. pan of size 585x480 mm with flush pipe and integrated type foot rests	each	6,773.00
17.2	(Europea P.V.C. flu device (I fixtures d	g and fixing white vitreous china pedestal type water closet an type W.C. pan) with seat and lid, 10 litre low level white ushing cistern, including flush pipe, with manually controlled handle lever), conforming to IS : 7231, with all fittings and complete, including cutting and making good the walls and herever required :		
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	3,189.75
	17.2.2	W.C. pan with ISI marked black solid plastic seat and lid	each	3,166.55
17.3	(Europea china flu 40 mm fl make ar complete	g and fixing white vitreous china pedestal type water closet an type) with seat and lid, 10 litre low level white vitreous shing cistern & C.P. flush bend with fittings & C.I.brackets, ush bend, overflow arrangement with specials of standard nd mosquito proof coupling of approved municipal design e, including painting of fittings and brackets, cutting and good the walls and floors wherever required :		
	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid	each	4,636.25
	17.3.2	W.C. pan with ISI marked black solid plastic seat and lid	each	4,613.05
17.4	lipped fro sizes res pipe and complete	g and fixing white vitreous china flat back or wall corner type ont urinal basin of 430x260x350 mm and 340x410x265 mm spectively with automatic flushing cistern with standard flush d C.P. brass spreaders with brass unions and G.I clamps e, including painting of fittings and brackets, cutting and good the walls and floors wherever required :		
	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	each	3,174.60
	17.4.2	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	each	5,166.90
	17.4.3	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern	each	6,887.15
	17.4.4	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern	each	9,580.35
17.5	size 580 with fittir unions a	g and fixing white vitreous china flat back half stall urinal of x380x350 mm with white PVC automatic flushing cistern, ngs, standard size C.P. brass flush pipe, spreaders with and clamps (all in C.P. brass) with waste fitting as per IS : I. trap with outlet grating and other couplings in C.P. brass,		

Code No.	Descrip	tion	Unit	Rate ₹
	including painting of fittings and cutting and making good the walls and floors wherever required :			
	17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	each	6,249.20
	17.5.2	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern	each	9,826.90
	17.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	12,816.05
	17.5.4	Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	15,674.30
17.6	squatting automat flush pip fittings, painting	g and fixing one piece construction white vitreous china g plate with an integral longitudinal flushing pipe, white P.V.C. ic flushing cistern, with fittings, standard size G.I. / PVC e for back and front flush with standard spreader pipes with G.I clamps and C.P. brass coupling complete, including of fittings and cutting and making good the walls and floors rever required :		
	17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern	each	4,023.50
	17.6.2	Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern	each	5,860.20
	17.6.3	Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern	each	7,719.75
	17.6.4	Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern	each	9,328.15
17.7	pillar tap painting	g and fixing wash basin with C.I. brackets, 15 mm C.P. brass bs, 32 mm C.P. brass waste of standard pattern, including of fittings and brackets, cutting and making good the walls or require :		
	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	2,174.65
	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	each	1,903.25
	17.7.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	each	1,971.35
	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	each	1,699.95
	17.7.5	White Vitreous China Angle back wash basin size 600x 480 mm with single 15 mm C.P. brass pillar tap	each	1,903.35
	17.7.6	White Vitreous China Angle back wash basin size 400x 400 mm with single 15 mm C.P. brass pillar tap	each	1,554.80
	17.7.7	White Vitreous China Flat back wash basin size 450x 300 mm with single 15 mm C.P. brass pillar tap	each	1,554.80
	17.7.8	White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of 15 mm C.P. brass pillar taps with elbow operated levers	each	3,748.45
	17.7.9	White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI marked	each	2,907.90

Code No.	Descripti	ion	Unit	Rate ₹
	17.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap	each	3,209.90
	17.7.11	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap	each	2,977.60
17.8		and fixing white vitreous china pedestal for wash basin by recessed at the back for the reception of pipes and	each	972.45
17.9	with rubbe	and fixing kitchen sink with C.I. brackets, C.P. brass chain er plug, 40 mm C.P. brass waste complete, including painting s and brackets, cutting and making good the walls wherever		
	17.9.1	White glazed fire clay kitchen sink of size 600x450x 250 mm	each	2,388.45
17.10	per IS : 1 including	and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as 3983 with C.I. brackets and stainless steel plug 40 mm, painting of fittings and brackets, cutting and making good wherever required :		
	17.10.1	Kitchen sink with drain board		
	17.10.1.1	510x1040 mm bowl depth 250 mm	each	6,975.40
	17.10.1.2	510x1040 mm bowl depth 225 mm	each	6,702.45
	17.10.1.3	510x1040 mm bowl depth 200 mm	each	5,889.40
	17.10.1.4	510x1040 mm bowl depth 178 mm	each	4,437.50
17.10.2	Kitchen s	ink without drain board		
	17.10.2.1	610x510 mm bowl depth 200 mm	each	4,290.80
	17.10.2.2	610x460 mm bowl depth 200 mm	each	3,936.55
	17.10.2.3	470x420 mm bowl depth 178 mm	each	3,094.45
17.11	brackets, and 40mn including	and fixing white vitreous china laboratory sink with C.I. C.P. brass chain with rubber plug, 40 mm C.P brass waste n C.P. brass trap with necessary C.P. brass unions complete, painting of fittings and brackets, cutting and making good herever required :		
	17.11.1	Size 450x300x150 mm	each	2,173.60
	17.11.2	Size 600x450x200 mm	each	2,992.45
17.12		and fixing draining board with C.I. brackets including painting ts, cutting and making good the walls wherever required :		
	17.12.1	White glazed fire clay draining board of size 600x450x 25 mm	each	994.20
17.13	Providing (Indian ty	and fixing white vitreous china water closet squatting pan pe) :		
	17.13.1	Long pattern W.C. pan of size 580 mm	each	976.50
	17.13.2	Orissa pattern W.C. pan of size 580x440 mm	each	1,359.80
17.14	Extra for	using coloured W.C. pan instead of white W.C. pan :		
	17.14.1	Orissa pattern W.C. pan 580x440 mm	each	627.20
17.15	Providing	g and fixing white vitreous china pedestal type (European sh down type) water closet pan.	each	1,266.90

Code No.	Descript	ion	Unit	Rate ₹
17.16	with low I	using coloured pedestal type W.C pan (European type) evel cistern of same colour instead of white vitreous china and cistern.	each	1,446.05
17.17		and fixing a pair of white vitreous china foot rests of standard or squatting pan water closet :		
	17.17.1	250x130x30 mm	pair	159.45
	17.17.2	250x125x25 mm	pair	159.45
17.18	controlled	g and fixing P.V.C. low level flushing cistern with manually d device (handle lever) conforming to IS : 7231, with all fittings res complete.		
	17.18.1	10 litre capacity - White	each	853.80
	17.18.2	10 litre capacity - coloured	each	909.65
17.19		and fixing controlled flush, low level cistern made of vitreous h all fittings complete.		
	17.19.1	10 litre (full flush) capacity-white	each	1,559.85
	17.19.2	10 litre (full flush) capacity-coloured	each	2,169.65
17.20	Providing pan com	g and fixing solid plastic seat with lid for pedestal type W.C. plete :		
	17.20.1	White solid plastic seat with lid	each	409.75
	17.20.2	Black solid plastic seat with lid	each	386.50
	17.20.3	Coloured (other than black & white) solid plastic seat with lid	each	665.25
17.21	Deleted.			
17.22	Providing with W.C	g and fixing G.I. inlet connection for flush pipe connecting . pan.	each	101.95
17.23	lipped fro	and fixing white vitreous china flat back or wall corner type ont urinal basin of 430x260x350 mm or 340x410x265 mm pectively.	each	857.55
17.24	Providing	g and fixing white vitreous china squatting plate urinal with im longitudinal flush pipe.	each	1,731.90
17.25		and fixing white vitreous china wash basin including making ections but excluding the cost of fittings :		
	17.25.1	Flat back wash basin of size 630x450 mm	each	967.10
	17.25.2	Flat back wash basin of size 550x400 mm	each	763.85
	17.25.3	Angle back wash basin of size 600x480 mm	each	967.10
	17.25.4	Angle back wash basin of size 400x400 mm	each	618.65
	17.25.5	Flat back wash basin of size 450x300 mm	each	618.65
	17.25.6	Surgeon type wash basin of size 660x460 mm	each	1,402.65
17.26		g and fixing kitchen sink including making all connections g cost of fittings.		
	17.26.1	White glazed fire clay sink of size 600x450x250 mm	each	1,669.15

Code No.	Description	Unit	Rate ₹
17.27	Providing and fixing white vitreous china laboratory sink making all connections excluding cost of fittings :	including	
	17.27.1 Size 450x300x150 mm	each	1,053.55
	17.27.2 Size 600x450x200 mm	each	1,872.40
17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin P.V.C. waste fittings complete.	including	
	17.28.1 Semi rigid pipe		
	17.28.1.1 32 mm dia	each	74.90
	17.28.1.2 40 mm dia	each	80.70
	17.28.2 Flexible pipe		
	17.28.2.1 32 mm dia	each	72.55
	17.28.2.2 40 mm dia	each	74.90
17.29	Providing and fixing 100 mm sand cast Iron grating for gu	lly trap. each	29.10
17.30	Providing and fixing in position 25 mm diameter mosqu coupling of approved municipal design.	uito proof each	38.45
17.31	Providing and fixing 600x450 mm beveled edge mirror of glass (of approved quality) complete with 6 mm thick ha ground fixed to wooden cleats with C.P. brass screws and complete.	ard board	762.55
17.32	Providing and fixing mirror of superior glass (of approved qu of required shape and size with plastic moulded frame of a make and shade with 6 mm thick hard board backing :		
	17.32.1 Circular shape 450 mm dia	each	856.65
	17.32.2 Rectangular shape 453x357 mm	each	700.30
	17.32.3 Oval shape 450x350 mm (outer dimensions)	each	756.35
	17.32.4 Rectangular shape 1500x450 mm	each	1,304.75
17.33	Providing and fixing 600x120x5 mm glass shelf with edges supported on anodised aluminium angle frame with C brackets and guard rail complete fixed with 40 mm long scr plugs etc., complete.	.P. brass	522.20
17.34	Providing and fixing toilet paper holder :		
	17.34.1 C.P. brass	each	339.85
	17.34.2 Vitreous china	each	322.15
17.35	Providing and fixing soil, waste and vent pipes :		
	17.35.1 100 mm dia		
	17.35.1.1 Sand cast iron S&S pipe as per IS: 1729	metre	854.85
	17.35.1.2 Centrifugally cast (spun) iron socket & spigot (S as per IS: 3989	S&S) pipe metre	952.50
	17.35.2 75 mm diameter :		
	17.35.2.1 Sand cast iron S&S pipe as per IS: 1729	metre	705.55
	17.35.2.2 Centrifugally cast (spun) iron socketed pipe IS: 3989	e as per metre	787.70

Code No.	Description	Unit	Rate ₹
17.36	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 :		
	17.36.1 75 mm dia pipe	each	59.50
	17.36.2 100 mm dia pipe	each	70.10
17.37	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 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :		
	17.37.1 For 100 mm dia pipe	each	140.65
	17.37.2 For 75 mm dia pipe	each	138.35
17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.		
	17.38.1 100 mm dia		
	17.38.1.1 Sand cast iron S&S as per IS - 1729	each	340.30
	17.38.1.2 Sand cast iron S&S as per IS - 3989	each	384.45
	17.38.2 75 mm dia		
	17.38.2.1 Sand cast iron S&S as per IS - 1729	each	271.00
	17.38.2.2 Sand cast iron S&S as per IS- 3989	each	317.50
17.39	Providing and fixing plain bend of required degree.		
	17.39.1 100 mm dia		
	17.39.1.1 Sand cast iron S&S as per IS - 1729	each	433.20
	17.39.1.2 Sand cast iron S&S as per IS : 3989	each	334.50
	17.39.2 75 mm dia		
	17.39.2.1 Sand cast iron S&S as per IS -1729	each	218.75
	17.39.2.2 Sand cast iron S&S as per IS - 3989	each	247.80
17.40	Providing and fixing heel rest sanitary bend		
	17.40.1 100 mm dia		
	17.40.1.1 Sand cast iron S&S as per IS - 1729	each	317.05
	17.40.1.2 Sand cast iron S&S as per IS - 3989	each	370.50
	17.40.2 75 mm dia		
	17.40.2.1 Sand cast iron S&S as per IS - 1729	each	276.85
	17.40.2.2 Sand cast iron S&S as per IS - 3989	each	311.65
17.41	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :		
	17.41.1 100x100x100 mm		
	17.41.1.1 Sand cast iron S&S as per IS - 1729	each	686.15
	17.41.1.2 Sand cast iron S&S as per IS - 3989	each	761.65

Code No.	Description	1	Unit	Rate ₹
	17.41.2 7	/5x75x75x75 mm		
	17.41.2.1 S	Sand cast iron S&S as per IS - 1729	each	532.35
	17.41.2.2 S	Sand cast iron S&S as per IS - 3989	each	596.25
17.42	Providing an	nd fixing double equal plain junction of required degree.		
	17.42.1 1	00x100x100x100 mm		
	17.42.1.1 S	Sand cast iron S&S as per IS - 1729	each	630.65
	17.42.1.2 S	Sand cast iron S&S as per IS - 3989	each	746.80
	17.42.2 7	/5x75x75x75 mm		
	17.42.2.1 S	Sand cast iron S&S as per IS - 1729	each	423.20
	17.42.2.2 S	Sand cast iron S&S as per IS - 3989	each	557.90
17.43		nd fixing single equal plain junction of required degree door, insertion rubber washer 3 mm thick, bolts and ete.		
	17.43.1 1	00x100x100 mm		
	17.43.1.1 S	Sand cast iron S&S as per IS - 1729	each	484.30
	17.43.1.2 S	Sand cast iron S&S as per IS - 3989	each	622.55
	17.43.2 7	′5x75x75 mm		
	17.43.2.1 S	Sand cast iron S&S as per IS - 1729	each	361.60
	17.43.2.2 S	Sand cast iron S&S as per IS - 3989	each	471.95
17.44	Providing ar	nd fixing single equal plain junction of required degree :		
	17.44.1 1	00x100x100 mm		
	17.44.1.1 S	Sand cast iron S&S as per IS - 1729	each	549.35
	17.44.1.2 S	Sand cast iron S&S as per IS - 3989	each	574.90
	17.44.2 7	′5x75x75 mm		
	17.44.2.1 S	Sand cast iron S&S as per IS - 1729	each	329.10
	17.44.2.2 S	Sand cast iron S&S as per IS - 3989	each	404.60
17.45		nd fixing double unequal junction of required degree with r, insertion rubber washer 3 mm thick, bolts and nuts		
	17.45.1 1	00x100x75x75 mm		
	17.45.1.1 S	Sand cast iron S&S as per IS - 1729	each	686.40
	17.45.1.2 S	Sand cast iron S&S as per IS - 3989	each	1,034.85
17.46	Providing an	nd fixing double unequal plain junction of required degree :		
	17.46.1 1	00x100x75x75 mm		
	17.46.1.1 S	Sand cast iron S&S as per IS - 1729	each	665.50
	17.46.1.2 S	Sand cast iron S&S as per IS - 3989	each	955.90

Code No.	Description	Unit	Rate ₹
17.47	Providing and fixing single unequal junction of required degree a access door, insertion rubber washer 3 mm thick, bolts and r complete :		
	17.47.1 100x100x75 mm		
	17.47.1.1 Sand cast iron S&S as per IS - 1729	each	512.20
	17.47.1.2 Sand cast iron S&S as per IS - 3989	each	790.55
17.48	Providing and fixing single unequal plain junction of required de	egree :	
	17.48.1 100x100x75 mm		
	17.48.1.1 Sand cast iron S&S as per IS - 1729	each	456.45
	17.48.1.2 Sand cast iron S&S as per IS - 3989	each	688.75
17.49	Providing and fixing double equal plain invert branch of required	l degree:	
	17.49.1 100x100x100 mm		
	17.49.1.1 Sand cast iron S&S as per IS - 1729	each	665.50
	17.49.1.2 Sand cast iron S&S as per IS 3989	each	642.30
	17.49.2 75x75x75 mm		
	17.49.2.1 Sand cast iron S&S as per IS - 1729	each	497.50
	17.49.2.2 Sand cast iron S&S as per IS - 3989	each	514.95
17.50	Providing and fixing single equal plain invert branch of required deg	gree :	
	17.50.1 100x100 mm		
	17.50.1.1 Sand cast iron S&S as per iron 1729	each	502.90
	17.50.1.2 Sand cast iron S&S as per IS - 3989	each	520.35
	17.50.2 75x75x75 mm		
	17.50.2.1 Sand cast iron S&S as per IS - 1729	each	393.00
	17.50.2.2 Sand cast iron S&S as per IS - 3989	each	396.45
17.51	Providing and fixing double unequal invert branch of required de	gree :	
	17.51.1 100x100x75x75 mm		
	17.51.1.1 Sand cast iron S&S as per IS - 1729	each	688.75
	17.51.1.2 Sand cast iron S&S as per IS - 3989	each	868.80
17.52	Providing and fixing single unequal plain invert branch of requidegree :	ired	
	17.52.1 100x100x75 mm		
	17.52.1.1 Sand cast iron S&S as per IS - 1729	each	601.65
	17.52.1.2 Sand cast iron S&S as per IS - 3989	each	659.70
17.53	Providing and fixing sand cast iron S&S off sets as per IS: 172	9	
	17.53.1 76 mm off sets		
	17.53.1.1 With 75 mm dia pipe	each	274.50
	17.53.1.2 With 100 mm dia pipe	each	442.90

Code No.	Descriptio	on	Unit	Rate ₹	
	17.53.2	114 mm off sets			
	17.53.2.1	With 75 mm dia pipe	each	375.15	
	17.53.2.2	With 100 mm dia pipe	each	471.55	
	17.53.3	152 mm off sets			
	17.53.3.1	With 75 mm dia pipe	each	451.25	
	17.53.3.2	With 100 mm dia pipe	each	575.55	
17.54	Providing	and fixing sand cast iron S&S off sets as per IS: 3989 :			
	17.54.1	75 mm off sets			
	17.54.1.1	With 75 mm dia pipe	each	282.65	
	17.54.2	150 mm off sets			
	17.54.2.1	With 75 mm dia pipe	each	362.85	
	17.54.2.2	With 100 mm dia pipe	each	484.80	
17.55		and fixing door piece, insertion rubber washer 3mm thick, its complete :			
	17.55.1	100 mm			
	17.55.1.1	Sand cast iron S&S as per IS - 1729	each	512.20	
	17.55.1.2	Sand cast iron S&S as per IS - 3989	each	512.20	
	17.55.2	75 mm			
	17.55.2.1	Sand cast iron S&S as per IS - 1729	each	358.15	
	17.55.2.2	Sand cast iron S&S as per IS - 3989	each	381.35	
17.56	Providing and fixing terminal guard :				
	17.56.1	100 mm			
	17.56.1.1	Sand cast iron S&S as per IS - 1729	each	247.40	
	17.56.1.2	Sand cast iron S&S as per IS - 3989	each	433.20	
	17.56.2	75 mm			
	17.56.2.1	Sand cast iron S&S as per IS - 1729	each	196.70	
	17.56.2.2	Sand cast iron S&S as per IS - 3989	each	369.75	
17.57	Providing	and fixing collar :			
	17.57.1	100 mm			
	17.57.1.1	Sand cast iron S&S as per IS - 1729	each	192.80	
	17.57.1.2	Sand cast iron S&S as per IS - 3989	each	317.05	
	17.57.2	75 mm			
	17.57.2.1	Sand cast iron S&S as per IS - 1729	each	152.55	
	17.57.2.2	Sand cast iron S&S as per IS - 3989	each	218.75	

Code No.	Description	Unit	Rate ₹
17.58	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :		
	17.58.1 100 mm	each	232.30
	17.58.2 75 mm	each	196.20
	17.58.3 50 mm	each	156.60
17.59	Providing and fixing M.S. stays and clamps for sand cast iron/ centrifugally cast (spun) iron pipes of diameter :		
	17.59.1 100 mm	each	67.35
	17.59.2 75 mm	each	56.15
	17.59.3 50 mm	each	51.25
17.60	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 :		
	17.60.1 100 mm inlet and 100 mm outlet		
	17.60.1.1 Sand cast iron S&S as per IS: 3989	each	938.05
	17.60.1.2 Sand Cast Iron S&S as per IS: 1729	each	752.20
	17.60.2 100 mm inlet and 75 mm outlet		
	17.60.2.1 Sand cast iron S&S as per IS - 3989	each	976.40
	17.60.2.2 Sand Cast Iron S&S as per IS- 1729	each	686.00
17.61	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 (1 cement : 4 coarse sand) :		
	17.61.1 100 mm dia	metre	302.60
	17.61.2 75 mm dia	metre	216.60
	17.61.3 50 mm dia	metre	138.40
17.62	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	398.80
17.63	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		281.60
17.64	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	118.85
17.65	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :		
	17.65.1 100 mm diameter pipe	metre	33.85
	17.65.2 75 mm diameter pipe	metre	25.90

Code No.	Descript	ion	Unit	Rate ₹
17.66	waste, v	ng sand cast iron/ centrifugally cast iron (spun) iron, soil, ent pipes and fittings with one coat of synthetic enamel any colour such as chocolate, grey or buff etc :		
	17.66.1	100 mm diameter pipe	metre	16.70
	17.66.2	75 mm diameter pipe	metre	12.55
17.67	Repaintir	ng bath tub of size 1700x730x430 mm with enamel paint.	each	371.65
17.68	use as so W.C pan buffers, 1 40 mm flu make an complete	g and fixing vitreous china dual purpose closet suitable for quatting pan or European type water closet (Anglo Indian ) with seat & lid fixed with C.P. brass hinges and rubber 10 litre low level flushing cistern with fitting and brackets, ush bend, 20 mm over flow pipe, with specials of standard d mosquito proof coupling of approved municipal design e, including painting of fittings and brackets, cutting and good the walls and floors wherever required :		
	17.68.1	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	6,316.05
17.69		g and fixing PTMT Waste Coupling for wash basin and sink, ved quality and colour.		
	17.69.1	Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	each	99.30
	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	each	114.40
17.70	Providing	g and fixing PTMT Bottle Trap for Wash basin and sink.		
	17.70.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	each	408.25
	17.70.2	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	each	440.75
17.71	125 mm l bracket c	g and fixing PTMT liquid soap container 109 mm wide, high and 112 mm distance from wall of standard shape with of the same materials with snap fittings of approved quality ur, weighing not less than 105 gms.	each	181.75
17.72	200 mm conceale	and fixing PTMT towel ring trapezoidal shape 215 mm long, wide with minimum distances of 37 mm from wall face with ed fittings arrangement of approved quality and colour, not less than 88 gms.	each	174.80
17.73	wooden	g and fixing PTMT towel rail complete with brackets fixed to cleats with CP brass screws with concealed fittings nent of approved quality and colour.		
	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	each	408.90
	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	each	448.40

Code No.	Descript	ion	Unit	Rate ₹
		and fixing PTMT shelf 440 mm long, 124 mm width and 36 ht of approved quality and colour, weighing not less than	each	485.55
17.75		g and fixing PTMT 15 mm Urinal spreader size 95x69x100 1/2" BSP thread and shapes, weighing not less than	each	160.85
17.76	Providing	and fixing PTMT urinal cock of approved quality and colour.		
	17.76.1	15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms	each	155.30
17.77	sand cas made of s the wall s hold faste RCC surf already fi M.S. flats fixed with	g and fixing M.S. holder bat clamp of approved design to t iron/ cast iron (spun) pipes comprising of M.S. flat brackets 50x5 mm flat of specified shape, projecting 75 mm outside surface and fixed on wall with 4nos, 6mm dia expansion eners, including drilling necessary holes in brick wall/ CC/ face and the cost of bolts etc. The pipes shall be fixed to the ixed brackets with the help of 30 mm x1.6 mm galvanised of specified shape and of total length 420 mm and shall be n M.S. nuts, bolts, & washers of size 25x6 mm, one bolts side of the pipe.		
	17.77.1	Total bracket length 580 mm of approved shape and design (for single 100 mm dia pipe)	each	193.35
	17.77.2	Total bracket length 810 mm of approved shape and design (for two 100 mm dia pipes)	each	235.30
	17.77.3	Total bracket length 1040 mm of approved shape and design (for three 100 mm dia pipes)	each	277.15
17.78	water clo providing of flushing	g and fixing white vitreous china extended wall mounting set of size 780x370x690 mm of approved shape including g & fixing white vitreous china cistern with dual flush fitting, g capacity 3 litre/6 litre (adjustable to 4 litre/8 litres), including er, and cistern fittings, nuts, bolts and gasket etc complete.	each	9,965.25
17.79	330 x 31	g & fixing white vitreous china water less urinal of size 600 x 5 mm having antibacterial /germs free ceramic surface, a cartridge having debris catcher and hygiene seal.	each	21,791.65
17.80	operated post flus water inl brackets	and fixing white vitreous china battery based infrared sensor urinal of approx. size 610 x 390 x 370 mm having pre & hing with water (250 ml & 500 ml consumption), having et from back side, including fixing to wall with suitable all as per manufacturers specification and direction of -in-charge.	each	16,681.05

### **SUB HEAD : 18.0**

### WATER SUPPLY

### BASIC RATES (SH: 18.0 WATER SUPPLY)

Code No.	Description	Unit	Rate ₹
0010	Hire charges of Derrick monkey rope	day	800.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0117	Assistant Fitter or 2nd class Fitter	day	361.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0761	Fuel wood	quintal	500.00
0771	Kerosene oil	litre	45.00
1301	Bleaching powder	quintal	1750.00
1304	Surface box for stop cock	each	125.00
1305	Surface box for sluice valve	each	210.00
1307	Surface box for water meter	each	250.00
1339	Brass bib-cock 15 mm dia	each	210.00
1340	Brass bib-cock 20 mm dia	each	225.00
1342	Brass stop-cock 15 mm dia	each	210.00
1343	Brass stop-cock 20 mm dia	each	280.00
1360	C.I.mouth, brass ferrule 15 mm dia	each	140.00
1361	C.I.mouth, brass ferrule 20 mm dia	each	160.00
1362	C.I.mouth, brass ferrule 25 mm dia	each	220.00
1373	Rubber insertions for 80 mm dia pipe joints	each	15.00
1374	Rubber insertions for 100 mm dia pipe joints	each	18.00
1375	Rubber insertions for 125 mm dia pipe joints	each	20.00
1376	Rubber insertions for 150 mm dia pipe joints	each	20.00
1377	Rubber insertions for 200 mm dia pipe joints	each	25.00
1378	Rubber insertions for 250 mm dia pipe joints	each	40.00
1379	Rubber insertions for 300 mm dia pipe joints	each	45.00
1380	Rubber insertions for 350 mm dia pipe joints	each	50.00
1381	Rubber insertions for 400 mm dia pipe joints	each	73.00
1382	Rubber insertions for 450 mm dia pipe joints	each	92.00
1383	Rubber insertions for 500 mm dia pipe joints	each	110.00
1384	Rubber insertions for 600 mm dia pipe joints	each	125.00
1397	Piglead	kilogram	90.00
1464	S & S.C.I. standard specials upto 300 mm dia (heavy class)	quintal	3600.00
1466	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	3700.00
1468	Flanged C.I. standard specials upto 300 mm dia (heavy class)	quintal	5500.00

Code No.	Description	Unit	Rate ₹
1470	Flanged C.I. standard specials over 300 mm dia (heavy class)	quintal	5800.00
1472	Casing pipe 100 mm dia	metre	335.00
1545	G.I. pipes 15 mm dia	metre	105.00
1546	G.I. pipes 20 mm dia	metre	125.00
1547	G.I. pipes 25 mm dia	metre	160.00
1548	G.I. pipes 32 mm dia	metre	180.00
1549	G.I. pipes 40 mm dia	metre	220.00
1550	G.I. pipes 50 mm dia	metre	275.00
1551	G.I. pipes 65 mm dia	metre	365.00
1552	G.I. pipes 80 mm dia	metre	460.00
1555	G.I. back (jam) nuts 25 mm dia	each	10.00
1559	G.I. back (jam) nuts 65 mm dia	each	22.00
1608	G.I. tees (equal) 25 mm	each	45.00
1612	G.I. tees (equal) 65 mm	each	280.00
1641	G.I. Union 15 mm nominal bore	each	55.00
1642	G.I. Union 20 mm nominal bore	each	75.00
1643	G.I. Union 25 mm nominal bore	each	85.00
1644	G.I. Union 32 mm nominal bore	each	120.00
1645	G.I. Union 40 mm nominal bore	each	185.00
1646	G.I. Union 50 mm nominal bore	each	220.00
1647	G.I. Union 65 mm nominal bore	each	430.00
1648	G.I. Union 80 mm nominal bore	each	510.00
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	5.30
1687	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	30.00
1688	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	35.00
1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	35.00
1690	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	48.00
1693	S.C.I. hand pump	each	670.00
1878	Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia	each	50.00
1879	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	60.00
1881	Spun yarn	kilogram	50.00
1882	Strainer brass 40 mm dia 1.5 metre long	each	600.00
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	210.00
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	305.00

Code No.	Description	Unit	Rate ₹
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	330.00
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	350.00
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	410.00
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	480.00
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	620.00
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	1080.00
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	1620.00
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	330.00
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	450.00
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	560.00
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	820.00
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1490.00
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	2120.00
1940	C.I. sluice valve (with caps) class I: 100 mm dia	each	2410.00
1941	C.I. sluice valve (with caps) class I : 125 mm dia	each	2600.00
1942	C.I. sluice valve (with caps) class I: 150 mm dia	each	3600.00
1943	C.I. sluice valve (with caps) class I : 200 mm dia	each	7500.00
1944	C.I. sluice valve (with caps) class I : 250 mm dia	each	10980.00
1945	C.I. sluice valve (with caps) class I: 300 mm dia	each	15500.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	12.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	12.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	15.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	15.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	14.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	18.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	28.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	32.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	38.00
2271	Carriage of G.I. pipes below 100 mm dia	tonne	94.80
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	94.80
2309	Carriage of Cast Iron fittings	tonne	94.80
2319	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	233.10
2320	Carriage of Spun iron S & S pipes 125 mm dia	100 metre	311.37
2321	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	388.51
2322	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	631.97
2323	Carriage of Spun iron S & S pipes 250 mm dia	100 metre	898.07
2324	Carriage of Spun iron S & S pipes 300 mm. dia	100 metre	1110.03

Code No.	Description	Unit	Rate ₹
2325	Carriage of Spun iron S & S pipes 350 mm dia	100 metre	1554.03
2326	Carriage of Spun iron S & S pipes 400 mm dia	100 metre	2119.14
2327	Carriage of Spun iron S & S pipes 450 mm dia	100 metre	2590.06
2328	Carriage of Spun iron S & S pipes 500 mm dia	100 metre	2590.06
2329	Carriage of Spun iron S & S pipes 600mm dia	100 metre	3885.10
2330	Carriage of C.I. pipes 500 mm dia	100 metre	2590.06
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	5827.64
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	7770.19
2333	Carriage of R. C. C. pipes 1100 mm dia	100 metre	7770.19
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	7770.19
2341	Carriage of pig lead	tonne	94.80
2343	Carriage of Ductile Iron pipes (k7) 100 mm dia	100 metre	233.10
2344	Carriage of Cast iron pipes 150 mm dia	100 metre	388.51
2345	Carriage of Cast iron ptpes 200 mm dia	100 metre	631.97
2346	Carriage of Cast iron pipes 250 mm dia	100 metre	898.07
2347	Carriage of Cast iron pipes 300 mm dia	100 metre	1110.03
2348	Carriage of Cast iron pipes 350 mm dia	100 metre	1554.03
2349	Carriage of Cast iron pipes 400 mm dia	100 metre	2119.14
2350	Carriage of Cast iron pipes 450 mm dia	100 metre	2590.06
2351	Carriage of Cast iron pipes 500 mm dia	100 metre	2590.06
2352	Carriage of Cast iron pipes 600 mm dia	100 metre	3885.10
2353	Carriage of Cast iron pipes 700 mm dia	100 metre	3885.10
2355	Carriage of Cast iron pipes 800 mm dia	100 metre	3885.10
2356	Carriage of Cast iron pipes 900 mm dia	100 metre	5827.64
2357	Carriage of Cast iron pipes 1000 mm dia	100 metre	7770.19
3080	Gunmetal non-return valve - vertical (screwed end) 25 mm dia	each	320.00
3084	Gunmetal non-return valve - vertical (screwed end) 32 mm dia	each	520.00
3088	Gunmetal non-return valve - vertical (screwed end) 40 mm dia	each	750.00
3092	Gunmetal non-return valve - vertical (screwed end) 50 mm dia	each	1010.00
3096	Gunmetal non-return valve - vertical (screwed end) 65 mm dia	each	1710.00
3300	Gunmetal non-return valve - vertical (screwed end) 80 mm dia	each	2890.00
3311	C.I.sluice valve (with caps) class II : 100 mm dia	each	2910.00
3314	C.I.sluice valve (with caps) class II : 125 mm dia	each	3500.00
3317	C.I.sluice valve (with caps) class II : 150 mm dia	each	4300.00
3320	C.I.sluice valve (with caps) class II : 200 mm dia	each	9210.00
3321	C.I.sluice valve (with caps) class II : 250 mm dia	each	14800.00
3326	C.I.sluice valve (with caps) class II : 300 mm dia	each	18500.00

Code No.	Description	Unit	Rate ₹
3327	15 mm Battery Based Sensor Pillar Cock	each	5822.00
7257	C.P. Brass bibcock 15 mm	each	375.00
7258	C.P. Brass long nose bibcock 15 mm	each	657.00
7259	C.P. Brass long body bibcock 15 mm	each	501.00
7260	C.P. Brass stop cock (concealed) 15 mm	each	513.00
7261	C.P. Brass angle valve 15 mm	each	417.00
7400	15 mm PTMT bib cock	each	120.00
7401	15 mm PTMT bib cock with flange (fancy)	each	133.00
7402	15 mm PTMT bib-cock long body with flange	each	160.00
7403	15 mm dia PTMT stop cock(male thread)	each	120.00
7405	20 mm dia PTMT stop cock	each	150.00
7406	PTMT pillar cock	each	180.00
7407	PTMT push cock 15 mm dia	each	117.00
7408	PTMT push cock 12 mm dia 20 mm BSP	each	90.00
7409	PTMT grating 100 mm dia	each	35.00
7410	PTMT Pillar cock (fancy) 15 mm foam flow	each	240.00
7411	125 mm grating with waste hole	each	42.00
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)	each	122.00
7415	Double acting air valve 50 mm	each	4000.00
7416	Double acting air valve 80 mm	each	5200.00
7417	Double acting air valve 100 mm	each	6800.00
7418	Water meter (including testing charges) 80 mm	each	2130.00
7419	Water meter (including testing charges) 100 mm	each	3300.00
7420	Water meter (including testing charges) 150 mm	each	5000.00
7421	Water meter (including testing charges) 200 mm	each	5400.00
7422	Dirt box strainer 80 mm	each	2810.00
7423	Dirt box strainer 100 mm	each	4580.00
7424	Dirt box strainer 150 mm	each	5810.00
7425	Dirt box strainer 200 mm	each	8250.00
7495	PTMT Ball Cock 15mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	162.00
7496	PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	198.00
7497	PTMT Ball Cock 25mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	420.00
7498	PTMT Ball Cock 40mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	810.00

Code No.	Description	Unit	Rate ₹
7499	PTMT Ball Cock 50mm complete with Epoxy Coated Aluminium		
	Rod & H.D. Ball	each	1150.00
7500	PTMT Angle Stop cock with Flange 15 mm	each	150.00
7501	PTMT Swiveling shower 15 mm	each	110.00
7509	PTMT Soap Dish/Holder 138x102x75 mm	each	130.00
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100 mm dia	metre	800.00
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150 mm dia	metre	1200.00
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200 mm dia	metre	1650.00
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia	metre	2300.00
7655	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 300 mm dia	metre	2860.00
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350 mm dia	metre	3510.00
7657	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 400 mm dia	metre	4500.00
7658	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 450 mm dia	metre	5200.00
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500 mm dia	metre	6580.00
7660	Ductile Iron class K -9 pipe Conforming to I.S. 8329 - 600 mm dia	metre	7930.00
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750 mm dia	metre	11900.00
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800 mm dia	metre	12000.00
7664	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 900 mm dia	metre	14500.00
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000 mm dia	metre	16300.00
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	each	30.00
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia	each	38.00
7669	Rubber Gaskets Conforming to 1.S 5382 of S.B.R quality 200 mm dia	each	66.00
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia	each	78.00
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	each	115.00
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	each	132.00
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	each	240.00
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	each	280.00
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	each	305.00
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	each	380.00
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	each	575.00
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia	each	690.00
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	each	760.00
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	each	1000.00
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	each	1200.00
7682	Ductile Iron K - 12 specials suitable for push on jointing up to 600 mm dia	quintal	13000.00
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600 mm dia	quintal	18000.00

Code No.	Description	Unit	Rate ₹
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600 mm dia	quintal	13700.00
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm dia	quintal	19650.00
7686	Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia	metre	2180.00
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 mm dia	metre	3500.00
7688	Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia	metre	4110.00
7689	Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia	metre	3425.00
7690	Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia	metre	6960.00
7691	Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia	metre	8800.00
7692	Ductile Iron Pipe Class K-9 flanges and welding 400 mm dia	metre	10610.00
7693	Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia	metre	12900.00
7694	Ductile Iron Pipe Class K-9 flanges and welding 500 mm dia	metre	15100.00
7695	Ductile Iron Pipe Class K-9 flanges and welding 600 mm dia	metre	20630.00
7696	Ductile Iron Pipe Class K-9 flanges and welding 700 mm dia	metre	25600.00
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia	metre	900.00
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125 mm dia	metre	1120.00
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia	metre	1350.00
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia	metre	2300.00
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia	metre	3000.00
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia	metre	4050.00
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350 mm dia	metre	4850.00
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400 mm dia	metre	6400.00
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450 mm dia	metre	7750.00
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500 mm dia	metre	9000.00
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia	metre	12595.00
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	quintal	5450.00
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	quintal	8200.00
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	quintal	9000.00
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per I.S. 13382 over 300 mm dia	quintal	9500.00
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	metre	1375.00
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	metre	2150.00
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	metre	3400.00

Code No.	Description	Unit	Rate ₹
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	metre	4100.00
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	metre	5240.00
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	metre	6600.00
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	metre	8550.00
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	metre	10900.00
7720	Screwed double flanged centrifugally cast (spun) C./. Pipe of Class B conforming to I.S. 1536, - 500 mm dia	metre	13560.00
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	metre	18800.00
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia	metre	775.00
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia	metre	1120.00
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200 mm dia	metre	1550.00
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia	metre	2100.00
7726	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300 mm dia	metre	2900.00
7727	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350 mm dia	metre	3445.00
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia	metre	4015.00
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia	metre	4852.00
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia	metre	5735.00
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia	metre	7480.00
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia	metre	9613.00
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia	metre	12100.00
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia	metre	16070.00
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000 mm dia	metre	17032.00
7859	P.T.M.T. Bib cock with nozzle 15 mm	each	145.00
7861	P.T.M.T. Stop cock (concealed) 15 mm	each	158.00
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	32.00
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	40.00
7864	P.T.M.T. extension nipple 15 mm	each	32.00
7865	P.T.M.T. extension nipple 20 mm	each	38.00
7866	P.T.M.T. extension nipple 25 mm	each	57.00
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	95.00
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	125.00
8302	2025 mm PE-AL-PE Composite pressure pipe	metre	160.00

Code No.	Description	Unit	Rate ₹
8303	2532 mm PE-AL-PE Composite pressure pipe	metre	205.00
8304	3240 mm PE-AL-PE Composite pressure pipe	metre	340.00
8305	4050 mm PE-AL-PE Composite pressure pipe	metre	375.00
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 mm Outer dia	metre	37.00
8626	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 - 20 mm Outer dia	metre	57.00
8627	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia	metre	88.00
8628	Poly propylene - Random - Co - poymer (PPR) pipes SDR 7.4 - 32 mm Outer dia	metre	142.00
8629	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 40 mm Outer dia	metre	213.00
8630	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 50 mm Outer dia	metre	335.00
8631	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 63 mm Outer dia	metre	513.00
8633	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 90 mm Outer dia	metre	1066.00
8634	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 - 110 mm Outer dia	metre	1200.00
8635	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11- 160 mm Outer dia	metre	2500.00
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia	metre	55.00
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia	metre	68.00
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia	metre	95.00
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia	metre	130.00
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia	metre	185.00
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia	metre	300.00
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner dia	metre	910.00
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia	metre	1300.00
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia	metre	1800.00
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia	metre	2150.00
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	680.00
8702	Coupling/Socket fittings for 15.88 mm outer dia SS pipe	each	57.00
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	144.00
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	254.00
8781	SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia	metre	330.00

Code No.	Description	Unit	Rate ₹
8782	SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia	metre	468.00
8783	SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia	metre	582.00
8786	Coupling/Socket fittings for 22.22 mm outer dia SS pipe	each	88.00
8787	Coupling/Socket fittings for 28.58 mm outer dia SS pipe	each	108.00
8788	Coupling/Socket fittings for 34.00 mm outer dia SS pipe	each	231.00
8789	Coupling/Socket fittings for 42.70 mm outer dia SS pipe	each	330.00
8790	Coupling/Socket fittings for 48.60 mm outer dia SS pipe	each	446.00
8791	Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe	each	103.00
8792	Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe	each	141.00
8793	Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe	each	145.00
8794	Reducer for 34.00 mm X 15.88 mm outer Dia SS pipe	each	234.00
8795	Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe	each	237.00
8796	Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe	each	237.00
8797	Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe	each	359.00
8798	Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe	each	362.00
8799	Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe	each	362.00
8800	Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe	each	387.00
8801	Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe	each	468.00
8802	Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe	each	470.00
8803	Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe	each	474.00
8804	Reducer for 48.60 mm X 34.00 mm outer Dia SS pipe	each	479.00
8805	Reducer for48.60 mm X 42.70 mm outer Dia SS pipe	each	522.00
8806	Slip Coupling / Socket 15.88 mm outer dia SS pipe	each	113.00
8807	Slip Coupling / Socket 22.22 mm outer dia SS pipe	each	184.00
8808	Slip Coupling / Socket 28.58 mm outer dia SS pipe	each	236.00
8809	Slip Coupling / Socket 34.00 mm outer dia SS pipe	each	349.00
8810	Slip Coupling / Socket 42.70 mm outer dia SS pipe	each	490.00
8811	Slip Coupling / Socket 48.60 mm outer dia SS pipe	each	609.00
8812	Elbow 90 <sup>0</sup> for 15.88 mm outer dia SS pipe	each	86.00
8813	Elbow 90 <sup>o</sup> for 22.22 mm outer dia SS pipe	each	153.00
8814	Elbow 90 <sup>0</sup> for 28.58 mm outer dia SS pipe	each	211.00
8815	Elbow 90 <sup>0</sup> for 34.00 mm outer dia SS pipe	each	429.00
8816	Elbow 90 <sup>0</sup> for 42.70 mm outer dia SS pipe	each	657.00
8817	Elbow 90 <sup>o</sup> for 48.60 mm outer dia SS pipe	each	808.00
8818	Reducing Elbow 90 <sup>o</sup> for 22.22 mm X 15.88 mm outer dia SS pipe	each	148.00
8819	Reducing Elbow 90 <sup>0</sup> for 28.58 mm X 15.88 mm outer dia SS pipe	each	216.00

Code No.	Description	Unit	Rate ₹
8820	Reducing Elbow 90 <sup>o</sup> for 28.58 mm X 22.22 mm outer dia SS pipe	each	221.00
8821	Reducing Elbow 90 <sup>0</sup> for 34.00 mm X 22.22 mm outer dia SS pipe	each	321.00
8822	Reducing Elbow 90 <sup>o</sup> for 34.00 mm X 28.58 mm outer dia SS pipe	each	396.00
8823	Reducing Elbow 90 <sup>0</sup> for 42.70 mm X 34.00 mm outer dia SS pipe	each	698.00
8824	Equal Tee for 15.88 mm outer dia SS pipe	each	159.00
8825	Equal Tee for 22.22 mm outer dia SS pipe	each	231.00
8826	Equal Tee for 28.58 mm outer dia SS pipe	each	296.00
8827	Equal Tee for 34.00 mm outer dia SS pipe	each	617.00
8828	Equal Tee for 42.70 mm outer dia SS pipe	each	864.00
8829	Equal Tee for 48.60 mm outer dia SS pipe	each	1028.00
8830	Reducing Tee for 22.22 mm X 15.88 mm outer dia SS pipe	each	225.00
8831	Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe	each	280.00
8832	Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe	each	291.00
8833	Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe	each	548.00
8834	Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe	each	558.00
8835	Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe	each	564.00
8836	Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe	each	819.00
8837	Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe	each	821.00
8838	Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe	each	822.00
8839	Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe	each	830.00
8840	Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe	each	894.00
8841	Reducing Tee for 48.60 mm X 22.22 mm outer dia SS pipe	each	913.00
8842	Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe	each	920.00
8843	Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe	each	958.00
8844	Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe	each	993.00
8845	Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	286.00
8846	Male thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	344.00
8847	Male thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	368.00
8848	Male thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	414.00
8849	Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	432.00
8850	Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	483.00

Code No.	Description	Unit	Rate ₹
8851	Male thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	602.00
8852	Male thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	651.00
8853	Male thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	777.00
8854	Male thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	981.00
8855	Male thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	919.00
8856	Male thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	941.00
8857	Male thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	1024.00
8858	Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1137.00
8859	Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1381.00
8860	Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	1000.00
8861	Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	1030.00
8862	Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	1074.00
8863	Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	1290.00
8864	Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1431.00
8865	Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1749.00
8866	Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	292.00
8867	Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	344.00
8868	Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	356.00
8869	Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	445.00
8870	Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	455.00
8871	Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	498.00

Code No.	Description	Unit	Rate ₹
8872	Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	668.00
8873	Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	679.00
8874	Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	766.00
8875	Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	910.00
8876	Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	894.00
8877	Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia		
	threaded	each	910.00
8878	Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	1022.00
8879	Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1067.00
8880	Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1162.00
8881	Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	1065.00
8882	Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	1076.00
8883	Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	1115.00
8884	Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	1184.00
8885	Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1233.00
8886	Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1366.00
8887	Female threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	190.00
8888	Female threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	230.00
8889	Female threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	237.00
8890	Female threaded Connector/Adapter for 28.58 mm outer dia X 15 mm nominal threaded	each	277.00
8891	Female threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	286.00
8892	Female threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	337.00

Code No.	Description	Unit	Rate ₹
8893	Female threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	409.00
8894	Female threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	538.00
8895	Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	576.00
8896	Female threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	681.00
8897	Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	838.00
8898	Female threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	965.00
8899	Male threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	193.00
8900	Male threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	227.00
8901	Male threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	248.00
8902	Male threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	313.00
8903	Male threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	320.00
8904	Male threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	461.00
8905	Male threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	565.00
8906	Male threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	649.00
8907	Male threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	726.00
8908	Male threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	840.00
8909	Male threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	1138.00
8910	Valve Connector for 15.88 mm outer dia X 15 mm nominal dia threaded	each	234.00
8911	Valve Connector for 22.22 mm outer dia X 15 mm nominal dia threaded	each	276.00
8912	Valve Connector for 22.22 mm outer dia X 20 mm nominal dia threaded	each	295.00
8913	Valve Connector for 28.58 mm outer dia X 25 mm nominal dia threaded	each	424.00

Code No.	Description	Unit	Rate ₹
8914	Valve Connector for 34.00 mm outer dia X 32 mm nominal dia threaded	each	629.00
8915	Valve Connector for 42.70 mm outer dia X 40 mm nominal dia threaded	each	875.00
8916	Valve Connector for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1176.00
8917	Female Threaded Elbow 90 <sup>0</sup> for 15.88 mm outer dia X 15 mm nominal dia threaded	each	205.00
8918	Female Threaded Elbow 90 <sup>0</sup> for 22.22 mm outer dia X 15 mm nominal dia threaded	each	275.00
8919	Female Threaded Elbow 90 <sup>0</sup> for 22.22 mm outer dia X 20 mm nominal dia threaded	each	284.00
8920	Female Threaded Elbow 90 <sup>0</sup> for 28.58 mm outer dia X 25 mm nominal dia threaded	each	421.00
8921	Female Threaded Elbow 90 <sup>0</sup> for 34.00 mm outer dia X 32 mm nominal dia threaded	each	733.00
8922	Female Threaded Elbow 90 <sup>0</sup> for 42.70 mm outer dia X 32 mm nominal dia threaded	each	920.00
8923	Female Threaded Elbow 90 <sup>0</sup> for 42.70 mm outer dia X 40 mm nominal dia threaded	each	995.00
8924	Female Threaded Elbow 90 <sup>0</sup> for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1103.00
8925	Female Threaded Elbow 90 <sup>0</sup> for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1286.00
8926	Male Threaded Elbow 90 <sup>0</sup> for 15.88 mm outer dia X 15 mm nominal dia threaded	each	216.00
8927	Male Threaded Elbow 90 <sup>0</sup> for 22.22 mm outer dia X 15 mm nominal dia threaded	each	273.00
8928	Male Threaded Elbow 90 <sup>0</sup> for 22.22 mm outer dia X 20 mm nominal dia threaded	each	288.00
8929	Male Threaded Elbow 90 <sup>0</sup> for 28.58 mm outer dia X 25 mm nominal dia threaded	each	377.00
8930	MaleThreaded Elbow 90 <sup>0</sup> for 34.00 mm outer dia X 25 mm nominal dia threaded	each	605.00
8931	Male Threaded Elbow 90 <sup>0</sup> for 34.00 mm outer dia X 32 mm nominal dia threaded	each	736.00
8932	Male Threaded Elbow 90 <sup>0</sup> for 42.70 mm outer dia X 32 mm nominal dia threaded	each	934.00
8933	Male Threaded Elbow 90 <sup>0</sup> for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1060.00
8934	Male Threaded Elbow 90 <sup>0</sup> for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1190.00

Code No.	Description	Unit	Rate ₹
8935	Male Threaded Elbow 90 <sup>0</sup> for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1449.00
8936	Cap for 15.88 mm outer dia pipe	each	45.00
8937	Cap for 22.22 mm outer dia pipe	each	64.00
8938	Cap for 28.58 mm outer dia pipe	each	84.00
8939	Cap for 34.00 mm outer dia pipe	each	173.00
8940	Cap for 42.70 mm outer dia pipe	each	253.00
8941	Cap for 48.60 mm outer dia pipe	each	330.00
8942	Pipe Bridge for 15.88 mm outer dia pipe	each	214.00
8943	Pipe Bridge for 15.88 mm outer dia pipe	each	271.00
8944	Pipe Bridge for 28.58 mm outer dia pipe	each	407.00
9999	Sundries	L.S.	1.70

Code No.	Descript	ion	Unit	Rate ₹		
	PE-AL-	PE COMPOSITE PRESSURE PIPES				
18.1	PE) Con stabilized water sup all specia and bras couplers This incl	g and fixing Polyethelene-Aluminium-Polyethelene (PE-AL- nposite Pressure Pipes conforming to IS - 15450, U.V. d with carbon black having thermal stability for hot & cold oply, capable to withstand temperature up to 80 °C, including al fittings of composite material (engineering plastic blend is inserts wherever required) e.g. elbows, tees, reducers, & connectors etc., with clamps at 1.00 metre spacing. udes testing of joints complete as per direction of the rin charge.				
	Internal	work - Exposed on wall				
	18.1.1	1216 (16 mm OD) pipe	metre	209.50		
	18.1.2	1620 (20 mm OD) pipe	metre	261.50		
	18.1.3	2025 (25 mm OD) pipe	metre	321.05		
	18.1.4	2532 (32 mm OD) pipe	metre	400.30		
	18.1.5	3240 (40 mm OD) pipe	metre	629.60		
	18.1.6	4050 (50 mm OD) pipe	metre	682.45		
18.2	PE) Con stabilized water sup all specia and bras couplers This inclu	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL- PE) Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80 °C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge.				
	Conceal wall etc.	ed work, including cutting chases and making good the				
	18.2.1	1216 (16 mm OD) pipe	metre	336.25		
	18.2.2	1620 (20 mm OD) pipe	metre	379.25		
	18.2.3	2025 (25 mm OD) pipe	metre	468.40		
	18.2.4	2532 (32 mm OD) pipe	metre	559.85		
18.3	PE) Con stabilized water sup all specia and bras couplers	g and fixing Polyethelene-Aluminium-Polyethelene (PE-AL- nposite Pressure Pipes conforming to IS - 15450, U.V. d with carbon black having thermal stability for hot & cold oply, capable to withstand temperature up to 80 °C, including al fittings of composite material (engineering plastic blend s inserts wherever required) e.g. elbows, tees, reducers, & connectors etc., with trenching, refilling and testing of mplete as per direction of the engineer in charge.				
	External	l work				
	18.3.1	1216 (16 mm OD) pipe	metre	198.15		
	18.3.2	1620 (20 mm OD ) pipe	metre	243.45		

## **18.0 WATER SUPPLY**

Code No.	Descript	ion	Unit	Rate ₹
	18.3.3	2025 (25 mm OD ) pipe	metre	296.30
	18.3.4	2532 (32 mm OD ) pipe	metre	364.25
	18.3.5	3240 (40 mm OD ) pipe	metre	577.60
	18.3.6	4050 (50 mm OD ) pipe	metre	630.45
	PP- R PI	PES		
18.4	pipes SD thermal s plain & bi pipe with	and fixing 3 layer PP-R (Poly propylene Random copolymer) R 7.4, U V stabilized & anti - microbial fusion welded, having stability for hot & cold water supply, including all PP - R rass threaded polypropylene random fittings, i/c fixing the clamps at 1.00 m spacing. This includes testing of joints as per direction of Engineer in Charge.		
	Internal	work - Exposed on wall		
	18.4.1	PN - 16 Pipe, 16 mm OD	metre	121.90
	18.4.2	PN - 16 Pipe, 20 mm OD	metre	158.80
	18.4.3	PN - 16 Pipe, 25 mm OD	metre	212.35
	18.4.4	PN - 16 Pipe, 32 mm OD	metre	305.20
	18.4.5	PN - 16 Pipe, 40 mm OD	metre	437.85
	18.4.6	PN - 16 Pipe, 50 mm OD	metre	619.05
18.5	pipes SD thermal s plain & bi pipe with chases a	and fixing 3 layer PP-R (Poly propylene Random copolymer) R 7.4, U V stabilized & anti - microbial fusion welded, having stability for hot & cold water supply, including all PP - R rass threaded polypropylene random fittings, i/c fixing the clamps at 1.00 m spacing. This includes the cost of cutting and making good the same including testing of joints as per direction of Engineer in Charge.		
	Conceal walls etc	ed work, including cutting chases and making good the .,		
	18.5.1	PN - 16 Pipe, 16 mm OD	metre	218.35
	18.5.2	PN - 16 Pipe, 20 mm OD	metre	259.00
	18.5.3	PN - 16 Pipe, 25 mm OD	metre	322.05
	18.5.4	PN - 16 Pipe, 32 mm OD	metre	431.80
18.6	pipes, U stability fo threaded	and fixing 3 layer PP-R (Poly propylene Random copolymer) V stabilized & anti - microbial fusion welded, having thermal or hot & cold water supply, including all PP - R plain & brass polypropylene random fittings, including trenching, refilling & joints complete as per direction of Engineer in Charge.		
	External	work		
	18.6.1	PN - 16 Pipe, 16 mm OD (SDR - 7.4)	metre	110.60
	18.6.2	PN - 16 Pipe, 20 mm OD (SDR - 7.4)	metre	140.75
	18.6.3	PN - 16 Pipe, 25 mm OD (SDR - 7.4)	metre	192.50
	18.6.4	PN - 16 Pipe, 32 mm OD (SDR - 7.4)	metre	274.05

Code No.	Descripti	ion	Unit	Rate ₹
	18.6.5	PN - 16 Pipe, 40 mm OD (SDR - 7.4)	metre	385.85
	18.6.6	PN - 16 Pipe, 50 mm OD (SDR - 7.4)	metre	567.05
	18.6.7	PN - 16 Pipe, 63 mm OD (SDR - 7.4)	metre	854.30
	18.6.8	PN - 16 Pipe, 75 mm OD (SDR - 7.4)	metre	1,136.70
	18.6.9	PN - 16 Pipe, 90 mm OD (SDR - 7.4)	metre	1,715.15
	18.6.10	PN - 10 Pipe, 110 mm OD (SDR - 11)	metre	1,917.50
	18.6.11	PN - 10 Pipe, 160 mm OD (SDR - 11)	metre	3,937.25
	C.P.V.C.	PIPES		
18.7	having th CPVC pla clamps at with one s	and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, hermal stability for hot & cold water supply, including all ain & brass threaded fittings, including fixing the pipe with t 1.00 m spacing. This includes jointing of pipes & fittings step CPVC solvent cement and testing of joints complete ection of Engineer in Charge.		
	Internal	work - Exposed on wall		
	18.7.1	15 mm nominal outer dia Pipes	metre	155.80
	18.7.2	20 mm nominal outer dia Pipes	metre	182.15
	18.7.3	25 mm nominal outer dia Pipes	metre	222.90
	18.7.4	32 mm nominal outer dia Pipes	metre	287.10
	18.7.5	40 mm nominal outer dia Pipes	metre	395.60
	18.7.6	50 mm nominal outer dia Pipes	metre	569.20
18.8	having th CPVC pla at 1.00 m step CPV good the	and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, hermal stability for hot & cold water supply, including all ain & brass threaded fittings, i/c fixing the pipe with clamps spacing. This includes jointing of pipes & fittings with one C solvent cement and the cost of cutting chases and making same including testing of joints complete as per direction er in Charge.		
	Conceale walls etc.	ed work, including cutting chases and making good the		
	18.8.1	15 mm nominal outer dia Pipes	metre	254.95
	18.8.2	20 mm nominal outer dia Pipes	metre	281.35
	18.8.3	25 mm nominal outer dia Pipes	metre	336.25
	18.8.4	32 mm nominal outer dia Pipes	metre	407.40
18.9	having the plain & bra with one s	and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, ermal stability for hot & cold water supply including all CPVC ass threaded fittings This includes jointing of pipes & fittings step CPVC solvent cement ,trenching ,refilling & testing of nplete as per direction of Engineer in Charge.		
	External	work		
	18.9.1	15 mm nominal outer dia Pipes	metre	137.75
	18.9.2	20 mm nominal outer dia Pipes	metre	157.40

Code No.	Descripti	on	Unit	Rate ₹
	18.9.3	25 mm nominal outer dia Pipes	metre	203.10
	18.9.4	32 mm nominal outer dia Pipes	metre	255.95
	18.9.5	40 mm nominal outer dia Pipes	metre	343.55
	18.9.6	50 mm nominal outer dia Pipes	metre	517.20
	18.9.7	62.50 mm nominal inner dia Pipes	metre	1,453.75
	18.9.8	75 mm nominal inner dia Pipes	metre	2,042.65
	18.9.9	100 mm nominal inner dia Pipes	metre	2,823.45
	18.9.10	150 mm nominal inner dia Pipes	metre	3,408.80
18.10		and fixing G.I. pipes complete with G.I. fittings and clamps, and making good the walls etc.		
	Internal v	work - Exposed on wall		
	18.10.1	15 mm dia nominal bore	metre	181.35
	18.10.2	20 mm dia nominal bore	metre	221.50
	18.10.3	25 mm dia nominal bore	metre	282.30
	18.10.4	32 mm dia nominal bore	metre	333.50
	18.10.5	40 mm dia nominal bore	metre	413.25
	18.10.6	50 mm dia nominal bore	metre	512.10
18.11	i/c making	and fixing G.I. Pipes complete with G.I. fittings and clamps, g good the walls etc. concealed pipe, including painting orrosive bitumastic paint, cutting chases and making good		
	18.11.1	15 mm dia nominal bore	metre	263.70
	18.11.2	20 mm dia nominal bore	metre	298.05
18.12		and fixing G.I. pipes complete with G.I. fittings including and refilling etc.		
	External	work		
	18.12.1	15 mm dia nominal bore	metre	156.60
	18.12.2	20 mm dia nominal bore	metre	186.25
	18.12.3	25 mm dia nominal bore	metre	238.95
	18.12.4	32 mm dia nominal bore	metre	274.60
	18.12.5	40 mm dia nominal bore	metre	327.15
	18.12.6	50 mm dia nominal bore	metre	392.50
	18.12.7	65 mm dia nominal bore	metre	515.55
	18.12.8	80 mm dia nominal bore	metre	628.35
18.13	sizes by p	nnection of G.I. distribution branch with G.I. main of following roviding and fixing tee, including cutting and threading the complete :		
	18.13.1	25 to 40 mm nominal bore	each	338.90
	18.13.2	50 to 80 mm nominal bore	each	721.95

Code No.	Descriptio	on	Unit	Rate ₹
18.14	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	286.60
	<b>BRASS FI</b>	ITTINGS		
18.15	Providing	and fixing brass bib cock of approved quality :		
	18.15.1	15 mm nominal bore	each	259.85
	18.15.2	20 mm nominal bore	each	280.05
18.16	Providing	and fixing brass stop cock of approved quality :		
	18.16.1	15 mm nominal bore	each	259.85
	18.16.2	20 mm nominal bore	each	343.95
18.17	-	and fixing gun metal gate valve with C.I. wheel of approved rewed end) :		
	18.17.1	25 mm nominal bore	each	427.80
	18.17.2	32 mm nominal bore.	each	500.35
	18.17.3	40 mm nominal bore	each	584.20
	18.17.4	50 mm nominal bore	each	749.40
	18.17.5	65 mm nominal bore	each	1,286.25
	18.17.6	80 mm nominal bore	each	1,918.85
18.18	-	and fixing ball valve (brass) of approved quality, High or low with plastic floats complete :		
	18.18.1	15 mm nominal bore	each	286.55
	18.18.2	20 mm nominal bore	each	407.40
	18.18.3	25 mm nominal bore	each	446.95
18.19	Providing a (screwed e	and fixing gun metal non- return valve of approved quality end) :		
	18.19.1	25 mm nominal bore		
	18.19.1.1	Horizontal	each	410.00
	18.19.1.2	Vertical	each	444.85
	18.19.2	32 mm nominal bore		
	18.19.2.1	Horizontal	each	551.95
	18.19.2.2	Vertical	each	633.25
	18.19.3	40 mm nominal bore		
	18.19.3.1	Horizontal	each	682.25
	18.19.3.2	Vertical	each	902.95
	18.19.4	50 mm nominal bore		
	18.19.4.1	Horizontal	each	987.10
	18.19.4.2	Vertical	each	1,207.80

Code No.	Descriptio	on	Unit	Rate ₹
	18.19.5	65 mm nominal bore		
	18.19.5.1	Horizontal	each	1,767.85
	18.19.5.2	Vertical	each	2,023.40
	18.19.6	80 mm nominal bore		
	18.19.6.1	Horizontal	each	2,502.40
	18.19.6.2	Vertical	each	3,396.80
18.20	-	and fixing brass ferrule with C.I. mouth cover including I tapping the main :		
	18.20.1	15 mm nominal bore	each	242.20
	18.20.2	20 mm nominal bore	each	279.00
	18.20.3	25 mm nominal bore	each	361.80
18.21	Providing unions :	and fixing uplasticised PVC connection pipe with brass		
	18.21.1	30 cm length		
	18.21.1.1	15 mm nominal bore	each	58.95
	18.21.1.2	20 mm nominal bore	each	64.80
	18.21.2	45 cm length		
	18.21.2.1	15 mm nominal bore	each	67.35
	18.21.2.2	20 mm nominal bore	each	82.45
18.22	Providing	and fixing C.P. brass shower rose with 15 or 20 mm inlet :		
	18.22.1	100 mm diameter	each	71.40
	18.22.2	150 mm diameter	each	85.60
	C.I/ DUCT	ILE IRON PIPES & SPECIALS		
18.23		position centrifugally cast (spun) iron S&S or flanged pipes cost of pipe).	quintal	124.40
18.24	, , ,	position S&S or flanged C.I. special such as tees, bends, pers and caps etc.(excluding cost of specials).	quintal	231.35
18.25	-	and laying S&S C.I. standard specials such as tees, bends, bers, caps etc. (Heavy class) :		
	18.25.1	Up to 300 mm dia	quintal	4,423.75
	18.25.2	Over 300 mm dia	quintal	4,539.90
18.26		and laying flanged C.I. standard specials such as tees, lars, tapers, caps etc., suitable for flanged jointing as per		
	18.26.1	Up to 300 mm dia	quintal	6,630.60
	18.26.2	Over 300 mm dia	quintal	6,979.05
18.27		and laying S&S centrifugally cast (spun) iron pipes (Class ming to IS - 1536 :		
	18.27.1	100 mm dia pipe	metre	1,072.70
	18.27.2	125 mm dia pipe	metre	1,336.60

Code No.	Descriptio	on	Unit	Rate ₹
	18.27.3	150 mm dia pipe	metre	1,612.60
	18.27.4	200 mm dia pipe	metre	2,737.40
	18.27.5	250 mm dia pipe	metre	3,573.95
	18.27.6	300 mm dia pipe	metre	4,818.75
	18.27.7	350 mm dia pipe	metre	5,779.60
	18.27.8	400 mm dia pipe	metre	7,614.35
	18.27.9	450 mm dia pipe	metre	9,219.95
	18.27.10	500 mm dia pipe	metre	10,703.95
	18.27.11	600 mm dia pipe	metre	14,967.80
18.28	-	lead caulked joints to spun iron or C.I. pipes and specials, testing of joints but excluding the cost of pig lead :		
	18.28.1	100 mm diameter pipe	each	187.10
	18.28.2	125 mm diameter pipe	each	275.70
	18.28.3	150 mm diameter pipe	each	280.85
	18.28.4	200 mm diameter pipe	each	372.40
	18.28.5	250 mm diameter pipe	each	465.30
	18.28.6	300 mm diameter pipe	each	560.60
	18.28.7	350 mm diameter pipe	each	578.15
	18.28.8	400 mm diameter pipe	each	753.80
	18.28.9	450 mm diameter pipe	each	844.85
	18.28.10	500 mm diameter pipe	each	894.30
	18.28.11	600 mm diameter pipe	each	1,205.25
18.29	Supplying	pig lead at site of work.	quintal	10,464.50
18.30	•	flanged joints to double flanged C.I./ D.I. pipes and specials, testing of joints :		
	18.30.1	80 mm diameter pipe	each	114.45
	18.30.2	100 mm diameter pipe	each	189.60
	18.30.3	125 mm diameter pipe	each	191.95
	18.30.4	150 mm diameter pipe	each	227.65
	18.30.5	200 mm diameter pipe	each	233.45
	18.30.6	250 mm diameter pipe	each	350.40
	18.30.7	300 mm diameter pipe	each	356.20
	18.30.8	350 mm diameter pipe	each	489.15
	18.30.9	400 mm diameter pipe	each	702.25
	18.30.10	450 mm diameter pipe	each	870.10
	18.30.11	500 mm diameter pipe	each	991.75
	18.30.12	600 mm diameter pipe	each	1,164.50

Code No.	Descriptio	on	Unit	Rate ₹	
	C.I. SLUIC	CE VALVES/ FIRE HYDRANTS & FIXTURES			
18.31	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) :				
	18.31.1	100 mm diameter			
	18.31.1.1	Class I	each	3,285.75	
	18.31.1.2	Class II	each	3,895.60	
	18.31.2	125 mm diameter			
	18.31.2.1	Class I	each	3,540.20	
	18.31.2.2	Class II	each	4,614.65	
	18.31.3	150 mm diameter			
	18.31.3.1	Class I	each	4,812.35	
	18.31.3.2	Class II	each	5,659.40	
	18.31.4	200 mm diameter			
	18.31.4.1	Class I	each	9,472.65	
	18.31.4.2	Class II	each	11,529.00	
	18.31.5	250 mm diameter			
	18.31.5.1	Class I	each	13,890.10	
	18.31.5.2	Class II	each	18,448.20	
	18.31.6	300 mm diameter			
	18.31.6.1	Class I	each	19,303.10	
	18.31.6.2	Class II	each	22,935.50	
18.32	in cement C. I. surfact cement con stone agg foundation stone agg cement mo	ing masonry Chamber 30x30x50 cm inside, in brick work mortar 1:4 (1 cement :4 coarse sand) for stop cock, with ce box 100x100 x75 mm (inside) with hinged cover fixed in ncrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded regate 20 mm nominal size), i/c necessary excavation, n concrete 1:5:10 ( 1 cement : 5 fine sand : 10 graded regate 40mm nominal size ) and inside plastering with ortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished ing coat of neat cement complete as per standard design :			
	18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	1,101.70	
18.33	in cement with C.I. su and 180 m mix (1 cen nominal siz (1 cement size) and coarse san	ing masonry Chamber 60x60x75 cm inside, in brick work mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, urface box 100mm top diameter, 160 mm bottom diameter im deep (inside) with chained lid and RCC top slab 1:2:4 nent : 2 coarse sand : 4 graded stone aggregate 20mm ze), i/c necessary excavation, foundation concrete 1:5:10 : 5 fine sand : 10 graded stone aggregate 40 mm nominal inside plastering with cement mortar 1:3 (1 cement : 3 nd) 12 mm thick, finished with a floating coat of neat cement as per standard design :			
	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	6,441.05	

Code No.	Description	Unit	Rate ₹
18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick we in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice val- with C.I. surface box 100 mm top diameter, 160 mm bottom diame and 180 mm deep (inside) with chained lid and RCC top slab 1:2 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 m nominal size), i/c necessary excavation, foundation concrete 1:5: (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nomin size) and inside plastering with cement mortar 1:3 (1 cement coarse sand) 12 mm thick, finished with a floating coat of neat ceme complete as per standard design :	ve, ter 2:4 nm 10 nal : 3	
	18.34.1 With common burnt clay F.P.S.(non modular) bricks class designation 7.5	of each	11,128.55
18.35	Constructing masonry Chamber 120x120x100 cm inside, in br work in cement mortar 1:4 (1 cement : 4 coarse sand) for slut valve, with C.I. surface box 100 mm top diameter, 160 mm botto diameter and 180 mm deep (inside) with chained lid and RCC t slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggrega 20 mm nominal size), i/c necessary excavation, foundation concre 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 n nominal size) and inside plastering with cement mortar 1:3 (1 ceme : 3 coarse sand) 12 mm thick, finished with a floating coat of ne cement complete as per standard design :	ice om cop ate ete nm ent	
	18.35.1 With common burnt clay F.P.S.(non modular) bricks class designation 7.5	of each	15,305.40
18.36	Constructing masonry Chamber 60x60x75 cm, inside in brick we in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydran with C.I. surface box 350x350 mm top and 165 mm deep ( insid with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coar sand : 4 graded stone aggregate 20 mm nominal size) , necessary excavation, foundation concrete 1:5:10 (1 cement fine sand:10 graded stone aggregate 40 mm nominal size) a inside plastering with cement mortar 1:3 (1 cement : 3 coarse sar 12 mm thick, finished with a floating coat of neat cement comple as per standard design :	its, de) rse i/c : 5 ind nd)	
	18.36.1 With common burnt clay F.P.S.(non modular) bricks class designation 7.5	of each	6,140.50
18.37	Constructing masonry Chamber 60x45x50 cm inside, in brick we in cement mortar 1:4 (1 cement : 4 coarse sand) for water me complete with C.I. double flap surface box 400x200x200 mm (inside with locking arrangement and RCC top slab 1:2:4 mix (1 cement coarse sand : 4 graded stone aggregate 20 mm nominal size), necessary excavation, foundation concrete 1:5:10 (1 cement fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) mm thick, finished with a floating coat of neat cement complete per standard design :	ter de) : 2 i/c : 5 ide 12	
	18.37.1 With common burnt clay F.P.S.(non modular) bricks class designation 7.5	of each	5,737.40

Code No.	Descripti	ion	Unit	Rate ₹
18.38	with two	G.I. pipes and fittings with synthetic enamel white paint coats over a ready mixed priming coat, both of approved r new work :		
	18.38.1	15 mm diameter pipe	metre	8.60
	18.38.2	20 mm diameter pipe	metre	10.10
	18.38.3	25 mm diameter pipe	metre	13.35
	18.38.4	32 mm diameter pipe	metre	15.75
	18.38.5	40 mm diameter pipe	metre	18.70
	18.38.6	50 mm diameter pipe	metre	22.00
18.39		ng G.I. pipes and fittings with synthetic enamel white paint coat of approved quality :		
	18.39.1	15 mm diameter pipe	metre	4.40
	18.39.2	20 mm diameter pipe	metre	5.10
	18.39.3	25 mm diameter pipe	metre	6.50
	18.39.4	32 mm diameter pipe	metre	7.65
	18.39.5	40 mm diameter pipe	metre	8.95
	18.39.6	50 mm diameter pipe	metre	10.50
18.40		G.I. pipes and fittings with two coats of anti-corrosive c paint of approved quality:		
	18.40.1	15 mm diameter pipe	metre	5.25
	18.40.2	20 mm diameter pipe	metre	6.15
	18.40.3	25 mm diameter pipe	metre	7.90
	18.40.4	32 mm diameter pipe	metre	9.35
	18.40.5	40 mm diameter pipe	metre	10.65
	18.40.6	50 mm diameter pipe	metre	12.65
	18.40.7	65 mm diameter pipe	metre	15.60
	18.40.8	80 mm diameter pipe	metre	18.05
18.41		and filling sand of grading zone V or coarser grade, all- G.I. pipes in external work :		
	18.41.1	15 mm diameter pipe	metre	61.55
	18.41.1A	Sub analysis itemfor sand filling component	cum	831.70
	18.41.2	20 mm diameter pipe	metre	62.40
	18.41.3	25 mm diameter pipe	metre	64.05
	18.41.4	32 mm diameter pipe	metre	65.70
	18.41.5	40 mm diameter pipe	metre	66.55
	18.41.6	50 mm diameter pipe	metre	69.05
	18.41.7	65 mm diameter pipe	metre	108.95
	18.41.8	80 mm diameter pipe	metre	112.30
	18.41.9	100 mm diameter pipe	metre	118.95
	18.41.10	150 mm diameter pipe	metre	177.15

Code No.	Descripti	on	Unit	Rate ₹
18.42	all soils ex	h 100 mm diameter casing pipe for hand pump / tubewell, in cept ordinary hard rocks requiring blasting, including removing pipe after the hand pump / tube well is lowered and tested :		
	18.42.1	Up to 6 metres depth	metre	300.20
	18.42.2	Beyond 6 m and up to 12 m depth	metre	356.65
	18.42.3	Beyond 12 m and up to 18 m depth	metre	415.40
18.43		and placing in position filters of 40 mm diameter G.I. pipe s strainer of approved quality.	metre	582.65
18.44		and fixing to filter and lowering to proper levels 40 mm G.I. be well including cleaning and priming the tube well.	metre	304.75
18.45		and placing in position hand pump of approved quality for ameter G.I. pipe complete with all accessories.	each	893.75
18.46		and fixing G.I. Union in G.I. pipe including cutting and the pipe and making long screws etc. complete (New work) :		
	18.46.1	15 mm nominal bore	each	155.65
	18.46.2	20 mm nominal bore	each	178.85
	18.46.3	25 mm nominal bore	each	190.45
	18.46.4	32 mm nominal bore	each	231.15
	18.46.5	40 mm nominal bore	each	306.60
	18.46.6	50 mm nominal bore	each	379.35
	18.46.7	65 mm nominal bore	each	623.25
	18.46.8	80 mm nominal bore	each	716.15
18.47	threading	and fixing G.I. Union in existing G.I. pipe line, cutting and the pipe and making long screws, including excavation, e earth or cutting of wall and making good the same complete required :		
	18.47.1	15 mm nominal bore	each	331.95
	18.47.2	20 mm nominal bore	each	355.20
	18.47.3	25 mm nominal bore	each	366.80
	18.47.4	32 mm nominal bore	each	407.45
	18.47.5	40 mm nominal bore	each	482.95
	18.47.6	50 mm nominal bore	each	619.75
	18.47.7	65 mm nominal bore	each	863.70
	18.47.8	80 mm nominal bore	each	956.60
18.48	storage ta	and placing on terrace (at all floor levels) polyethylene water ank, ISI : 12701 marked, with cover and suitable locking ent and making necessary holes for inlet, outlet and overflow without fittings and the base support for tank.	perlitre	6.30
	C.P. BRA	ASS F ITTINGS		
18.49	Providing to IS:893	and fixing C.P. brass bib cock of approved quality conforming 1 :		
	18.49.1	15 mm nominal bore	each	458.40

Code No.	Descripti	on	Unit	Rate ₹
18.50	-	and fixing C.P. brass long nose bib cock of approved quality ng to IS standards and weighing not less than 810 gms.		
	18.50.1	15 mm nominal bore	each	795.20
18.51		and fixing C.P. brass long body bib cock of approved quality ng to IS standards and weighing not less than 690 gms.		
	18.51.1	15 mm nominal bore	each	609.40
18.52	-	and fixing C.P. brass stop cock (concealed) of standard of approved make conforming to IS:8931.		
	18.52.1	15 mm nominal bore	each	618.70
18.53	-	and fixing C.P. brass angle valve for basin mixer and geyser pproved quality conforming to IS:8931 a) 15 mm nominal bore		
	18.53.1	15mm nominal bore	each	506.70
	PTMT FI	ITTINGS		
18.54	Providing	and fixing PTMT bib cock of approved quality and colour.		
	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	each	132.05
	18.54.2	15 mm nominal bore, 122mm long, weighing not less than 99 gms	each	178.55
	18.54.3	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	each	201.75
	18.54.4	15mm nominal bore, 90 mm long, weighing not less than 93 gms	each	184.35
18.55	Providing	and fixing PTMT stop cock of approved quality and colour.		
	18.55.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	each	132.05
	18.55.2	20 mm nominal bore, 89 mm long, weighing not less than 88 gms	each	166.90
	18.55.3	Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms	each	199.45
18.56	Providing	and fixing PTMT pillar cock of approved quality and colour .		
	18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	204.55
	18.56.2	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	each	280.05
18.57	Providing	and fixing PTMT, push cock of approved quality and colour.		
	18.57.1	15 mm nominal bore, 98 mm long, weighing not less than 75 gms	each	120.45
	18.57.2	15 mm nominal bore, 80 mm long, weighing not less than 46 gms	each	108.85
18.58	Providing	and fixing PTMT grating of approved quality and colour.		
	18.58.1	Circular type		

Code No.	Description	on	Unit	Rate ₹
	18.58.1.1	100 mm nominal dia	each	44.20
	18.58.1.2	125 mm nominal dia with 25 mm waste hole	each	57.00
	18.58.2	Rectangular type with openable circular lid		
	18.58.2.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating	each	149.90
	AIR VAL	VE & WATER METER (BULK TYPE)		
18.59	with bolts	and fixing C.I. double acting air valve of approved quality , nuts, rubber insertions etc. complete (The tail pieces, if required will be paid separately) :		
	18.59.1	50 mm dia	each	4,773.30
	18.59.2	80 mm dia	each	6,167.10
	18.59.3	100 mm dia	each	8,103.20
18.60	to IS : 23	and fixing enclosed type water meter (bulk type) conforming 73 and tested by Municipal Board complete with bolts, per insertions etc. (The tail pieces if required will be paid $y$ ):		
	18.60.1	80 mm dia nominal bore	each	3,087.95
	18.60.2	100 mm dia nominal bore	each	4,622.85
	18.60.3	150 mm dia nominal bore	each	6,776.20
	18.60.4	200 mm dia nominal bore	each	7,355.05
18.61		and fixing C.I. dirt box strainer for bulk type water meter , bolts, rubber insertions etc. complete conforming to :		
	18.61.1	80 mm dia	each	3,621.05
	18.61.2	100 mm dia	each	5,852.90
	18.61.3	150 mm dia	each	7,408.95
	18.61.4	200 mm dia	each	10,357.30
18.62	-	and fixing PTMT Ball cock of approved quality, colour and aplete with Epoxy coated aluminium rod with L.P./ H.P.H.D. II.		
	18.62.1	15 mm nominal bore, 105 mm long, weighing not less than 138 gms	each	198.25
	18.62.2	20 mm nominal bore, 120 mm long, weighing not less than 198 gms	each	279.65
	18.62.3	25 mm nominal bore, 152mm long, weighing not less than 440 gms	each	551.50
	18.62.4	40 mm nominal bore, 206mm long, weighing not less than 690 gms	each	969.65
	18.62.5	50 mm nominal bore, 242mm long, weighing not less than 1240 gms	each	1,399.40
18.63		and fixing PTMT angle stop cock 15 mm nominal bore, not less than 85 gms	each	166.90

Code No.	Descripti	on	Unit	Rate ₹
18.64		and fixing PTMT swivelling shower, 15 mm nominal bore, not less than 40 gms	each	114.40
18.65	breadth 10	and fixing PTMT soap Dish Holder having length of 138mm, 02mm, height of 75mm with concealed fitting arrangements, not less than 106 gms.	each	152.70
18.66	•	and laying S&S C.I. Standard specials such as tees, bends, pers and caps etc, suitable for flanged jointing as per :		
	18.66.1	Up to 300 mm dia	quintal	6,572.55
	18.66.2	Above 300 mm dia	quintal	9,766.65
18.67		g and laying S&S C.I. Standard specials suitable for al jointing as per IS : 13382 :		
	18.67.1	Up to 300 mm dia	quintal	10,695.85
	18.67.2	Above 300 mm dia	quintal	11,276.60
18.68		and laying D.I. specials of class K-12 suitable for push-on s per IS : 9523 :		
	18.68.1	Up to 600 mm dia	quintal	15,341.85
	18.68.2	Above 600 mm dia	quintal	21,149.40
18.69		and laying D.I. Specials of Class K - 12 suitable for cal jointing as per IS : 9523 :		
	18.69.1	Up to 600 mm dia	quintal	16,154.90
	18.69.2	Above 600 mm dia	quintal	23,065.80
18.70		push-on-joints to Centrifugally (Spun) Cast Iron Pipes or on Pipes including testing of joints and the cost of rubber		
	18.70.1	100 mm dia pipes	joint	59.25
	18.70.2	150 mm dia pipes	joint	91.10
	18.70.3	200 mm dia pipes	joint	139.30
	18.70.4	250 mm dia pipes	joint	168.90
	18.70.5	300 mm dia pipes	joint	227.50
	18.70.6	350 mm dia pipes	joint	247.25
	18.70.7	400 mm dia pipes	joint	404.00
	18.70.8	450 mm dia pipes	joint	466.15
	18.70.9	500 mm dia pipes	joint	503.00
	18.70.10	600 mm dia pipes	joint	644.90
	18.70.11	650 mm dia pipes	joint	909.00
	18.70.12	700 mm dia pipes	joint	1,042.55
	18.70.13	800 mm dia pipes	joint	1,148.90
	18.70.14	900 mm dia pipes	joint	1,474.65
	18.70.15	1000 mm dia pipes	joint	1,738.25

Code No.	Descript	ion	Unit	Rate ₹
18.71		and laying Double Flanged (screwed / welded) Centrifugally ast Iron, Class B (IS : 1536) :		
	18.71.1	100 mm dia C.I. Double Flanged Pipe	metre	1,633.35
	18.71.2	150 mm dia C.I. Double Flanged Pipe	metre	2,556.70
	18.71.3	200 mm dia C.I. Double Flanged Pipe	metre	4,035.55
	18.71.4	250 mm dia C.I. Double Flanged Pipe	metre	4,878.80
	18.71.5	300 mm dia C.I. Double Flanged Pipe	metre	6,236.00
	18.71.6	350 mm dia C.I. Double Flanged Pipe	metre	7,852.90
	18.71.7	400 mm dia C.I. Double Flanged Pipe	metre	10,162.95
	18.71.8	450 mm dia C.I. Double Flanged Pipe	metre	12,941.20
	18.71.9	500 mm dia C.I. Double Flanged Pipe	metre	16,072.10
	18.71.10	600 mm dia C.I. Double Flanged Pipe	metre	22,273.70
18.72		and laying S&S Centrifugally Cast (Spun) / Ductile Iron		
	18.72.1	100 mm dia Ductile Iron Class K-7 pipes	metre	922.05
	18.72.2	150 mm dia Ductile Iron Class K-7 pipes	metre	1,333.75
	18.72.3	200 mm dia Ductile Iron Class K-7 pipes	metre	1,845.10
	18.72.4	250 mm dia Ductile Iron Class K-7 pipes	metre	2,498.45
	18.72.5	300 mm dia Ductile Iron Class K-7 pipes	metre	3,441.45
	18.72.6	350 mm dia Ductile Iron Class K-7 pipes	metre	4,101.50
	18.72.7	400 mm dia Ductile Iron Class K-7 pipes	metre	4,785.45
	18.72.8	450 mm dia Ductile Iron Class K-7 pipes	metre	5,779.40
	18.72.9	500 mm dia Ductile Iron Class K-7 pipes	metre	6,823.90
	18.72.10	600 mm dia Ductile Iron Class K-7 pipes	metre	8,905.55
	18.72.11	700 mm dia Ductile Iron Class K-7 pipes	metre	11,445.60
	18.72.12	800 mm dia Ductile Iron Class K-7 pipes	metre	14,402.20
	18.72.13	900 mm dia Ductile Iron Class K-7 pipes	metre	19,084.65
	18.72.14	1000 mm dia Ductile Iron Class K-7 pipes	metre	20,306.10
	18.72.15	100 mm dia Ductile Iron Class K-9 pipes	metre	954.00
	18.72.16	150 mm dia Ductile Iron Class K-9 pipes	metre	1,431.00
	18.72.17	200 mm dia Ductile Iron Class K-9 pipes	metre	1,968.80
	18.72.18	250 mm dia Ductile Iron Class K-9 pipes	metre	2,741.60
	18.72.19	300 mm dia Ductile Iron Class K-9 pipes	metre	3,410.05
	18.72.20	350 mm dia Ductile Iron Class K-9 pipes	metre	4,194.10
	18.72.21	400 mm dia Ductile Iron Class K-9 pipes	metre	5,369.30
	18.72.22	450 mm dia Ductile Iron Class K-9 pipes	metre	6,207.95
	18.72.23	500 mm dia Ductile Iron Class K-9 pipes	metre	7,833.85
	18.72.24		metre	9,465.65

Code No.	Description	Unit	Rate ₹
	18.72.25 700 mm dia Ductile Iron Class K-9 pipes	metre	13,077.20
	18.72.26 750 mm dia Ductile Iron Class K-9 pipes	metre	14,191.35
	18.72.27 800 mm dia Ductile Iron Class K-9 pipes	metre	14,360.50
	18.72.28 900 mm dia Ductile Iron Class K-9 pipes	metre	17,331.70
	18.72.29 1000 mm dia Ductile Iron Class K-9 pipes	metre	19,495.70
18.73	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 :		
	18.73.1 100 mm dia Ductile Iron Double Flanged	metre	2,561.90
	18.73.2 150 mm dia Ductile Iron Double Flanged	metre	4,110.30
	18.73.3 200 mm dia Ductile Iron Double Flanged	metre	4,836.10
	18.73.4 250 mm dia Ductile Iron Double Flanged	metre	4,062.45
	18.73.5 300 mm dia Ductile Iron Double Flanged	metre	8,192.00
	18.73.6 350 mm dia Ductile Iron Double Flanged	metre	10,352.95
	18.73.7 400 mm dia Ductile Iron Double Flanged	metre	12,482.50
	18.73.8 450 mm dia Ductile Iron Double Flanged	metre	15,172.40
	18.73.9 500 mm dia Ductile Iron Double Flanged	metre	17,752.80
	18.73.10 600 mm dia Ductile Iron Double Flanged	metre	24,254.40
	18.73.11 700 mm dia Ductile Iron Double Flanged	metre	30,081.70
18.74	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.		
	18.74.1 15 mm nominal bore with 30cm length	each	61.30
	18.74.2 15 mm nominal bore with 45 cm length	each	73.15
18.75	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.		
	18.75.1 15 mm nominal bore, weighing not less than 32 gms	each	43.85
	18.75.2 20mm nominal bore, weighing not less than 40 gms	each	50.80
	18.75.3 25mm nominal bore, weighing not less than 62 gms	each	72.90
18.76	Cutting holes up to 30x30 cm in walls including making good the same:		
	18.76.1 With common burnt clay F.P.S. (non modular) bricks	each	196.40
18.77	Cutting holes up to 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	176.30
18.78	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	metre	77.65
18.79	Making hole up to 20x20 cm and embedding pipes up to 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	119.45

Code No.	Descripti	on	Unit	Rate ₹
18.80	bleaching same with getting th	ng C.I. water mains by flushing with water containing powder @ 0.5 gms per litre of water and cleaning the fresh water, operation to be repeated three times including e sample of water from the disinfected main tested in the laboratory.		
	18.80.1	80 mm diameter C.I. pipe	100 metre	638.30
	18.80.2	100 mm diameter C.I. pipe	100 metre	840.50
	18.80.3	125 mm diameter C.I. pipe	100 metre	1052.85
	18.80.4	150 mm diameter C.I. pipe	100 metre	1,267.80
	18.80.5	200 mm diameter C.I. pipe	100 metre	1,700.25
	18.80.6	250 mm diameter C.I. pipe	100 metre	2,150.90
	18.80.7	300 mm diameter C.I. pipe	100 metre	2,411.00
	18.80.8	350 mm diameter C.I. pipe	100 metre	2,682.85
	18.80.9	400 mm diameter C.I. pipe	100 metre	2,973.05
	18.80.10	450 mm diameter C.I. pipe	100 metre	3,270.30
	18.80.11	500 mm diameter C.I. pipe	100 metre	2,586.35
	18.80.12	600 mm diameter C.I. pipe	100 metre	4,237.45
18.81	water con cleaning t	every operation of disinfecting the C.I. main by flushing with taining bleaching powder @ 0.5 gms per litre of water and the same with fresh water, including getting the samples of ted in the municipal laboratory :		
	18.81.1	80 mm diameter C.I. pipe	100 metre	234.05
	18.81.2	100 mm diameter C.I. pipe	100 metre	286.50
	18.81.3	125 mm diameter C.I. pipe	100 metre	351.05
	18.81.4	150 mm diameter C.I. pipe	100 metre	410.95
	18.81.5	200 mm diameter C.I. pipe	100 metre	627.25
	18.81.6	250 mm diameter C.I. pipe	100 metre	725.45
	18.81.7	300 mm diameter C.I. pipe	100 metre	820.15
	18.81.8	350 mm diameter C.I. pipe	100 metre	966.35
	18.81.9	400 mm diameter C.I. pipe	100 metre	1,115.10
	18.81.10	450 mm diameter C.I. pipe	100 metre	1,269.70
	18.81.11	500 mm diameter C.I. pipe	100 metre	1,426.05
	18.81.12	600 mm diameter C.I. pipe	100 metre	1,748.10
18.82	after takir	ng old C.I. pipes including excavation and refilling trenches ng out the pipes, breaking lead caulked joints, melting of making into blocks, including stacking of pipes at site lead netre :		
	18.82.1	80 mm diameter C.I. pipe	metre	149.15
	18.82.2	100 mm diameter C.I. pipe	metre	155.30
	18.82.3	125 mm diameter C.I. pipe	metre	161.10

Code No.	Description	I	Unit	Rate ₹
	18.82.4 1	50 mm diameter C.I. pipe	metre	167.15
	18.82.5 2	00 mm diameter C.I. pipe	metre	186.30
	18.82.6 2	50 mm diameter C.I. pipe	metre	205.10
	18.82.7 3	00 mm diameter C.I. pipe	metre	221.55
	18.82.8 3	50 mm diameter C.I. pipe	metre	236.90
	18.82.9 4	00 mm diameter C.I. pipe	metre	251.10
	18.82.10 4	50 mm diameter C.I. pipe	metre	265.75
	18.82.11 5	00 mm diameter C.I. pipe	metre	278.50
	18.82.12 6	00 mm diameter C.I. pipe	metre	300.90
18.83	Labour for c	utting C.I. pipe with steel saw.		
	18.83.1 8	0 mm diameter C.I. pipe	Each cut	51.65
	18.83.2 1	00 mm diameter C.I. pipe	Each cut	69.50
	18.83.3 1	25 mm diameter C.I. pipe	Each cut	96.90
	18.83.4 1	50 mm diameter C.I. pipe	Each cut	130.75
	18.83.5 2	00 mm diameter C.I. pipe	Each cut	174.40
	18.83.6 2	50 mm diameter C.I. pipe	Each cut	216.25
	18.83.7 3	00 mm diameter C.I. pipe	Each cut	259.95
	18.83.8 3	50 mm diameter C.I. pipe	Each cut	301.80
	18.83.9 4	00 mm diameter C.I. pipe	Each cut	345.20
	18.83.10 4	50 mm diameter C.I. pipe	Each cut	387.35
	18.83.11 5	00 mm diameter C.I. pipe	Each cut	430.75
	18.83.12 6	00 mm diameter C.I. pipe	Each cut	512.70
18.84	•	fixing chrome plated brass battery based infrared sensor lar cock, having foam flow technology.		
	18.84.1 1	5 mm nominal bore	each	6,778.15
18.85	as per JIS s shall be paid m spacing ir testing of joi (The pipe le	the fixing Stainless Steel pipe and fitting of grade AISI 304 standard 3448 complete with press type fitting (fitting d for separately) i/c fixing of the pipe with clamps at 1.00 ncluding cutting and making good the walls including ints complete as per direction of Engineer -in-charge. ength inserted in the fitting shall not be measured for ernal work - Exposed on wall		
	18.85.1	15.88 mmouter diapipe	metre	241.70
	18.85.2	22.22 mm outer dia Pipe	metre	375.85
	18.85.3	28.58 mm outer dia Pipe	metre	468.85
	18.85.4	34.00 mm outer dia Pipe	metre	637.20
	18.85.5	42.70 mm outer dia Pipe	metre	776.50
	18.85.6	48.60 mm outer dia Pipe	metre	896.00

Code No.	Descripti	on	Unit	Rate ₹
18.86	as per JI shall be p 1.00m sp good the v Engineer	and fixing Stainless Steel pipe and fitting of grade AISI 304 S standard 3448 complete with press type fitting (fitting paid for separately) i/c fixing of the pipe with clamps at acing and also including cutting of chases and making walls including testing of joints complete as per direction of -in-charge. (The pipe length inserted in the fitting shall not irred for payment)		
	Internal w	ork - Concealed Pipe		
	18.86.1	15.88 mm outer dia .Pipes.	metre	318.80
	18.86.2	22.22 mm Outer dia pipes	metre	453.00
18.87	of grade A or M-prof	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of dia as per dirction of Engineer-in-charge.		
	Coupling/	Socket		
	18.87.1	For 15.88 mm outer dia pipe	each	66.20
	18.87.2	For 22.22 mm outer dia pipe	each	102.20
	18.87.3	For 28.58 mm outer dia pipe	each	125.45
	18.87.4	For 34.00 mm outer dia pipe	each	268.30
	18.87.5	For 42.70 mm outer dia pipe	each	383.30
	18.87.6	For 48.60 mm outer dia pipe	each	518.05
18.88	of grade A or M-prof Providing of grade A or M-prof	and fixing required Stainless Steel Fitting of press fit design AISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of and fixing required Stainless Steel Fitting of press fit design AISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of dia as per dirction of Engineer-in-charge.		
	Reducer			
	18.88.1	For 22.22 mm x 15.88 mm outer dia pipe	each	119.65
	18.88.2	For 28.58 mm x 15.88 mm outer dia pipe	each	163.75
	18.88.3	For 28.58 mm x 22.22 mm outer dia pipe	each	168.40
	18.88.4	For 34.00 mm x 15.88 mm outer dia pipe	each	271.80
	18.88.5	For 34.00 mm x 22.22 mm outer dia pipe	each	275.30
	18.88.6	For 34.00 mm x 28.58 mm outer dia pipe	each	275.30
	18.88.7	For 42.70 mm x 15.88 mm outer dia pipe	each	417.00
	18.88.8	For 42.70 mm x 22.22 mm outer dia pipe	each	420.45
	18.88.9	For 42.70 mm x 28.58 mm outer dia pipe	each	420.45
	18.88.10	For 42.70 mm x 34.00 mm outer dia pipe	each	449.50
	18.88.11	For 48.60 mm x 15.88 mm outer dia pipe	each	543.60
	18.88.12	For 48.60 mm x 22.22 mm outer dia pipe	each	545.90

Code No.	Descripti	on	Unit	Rate ₹
	18.88.13	For 48.60 mm x 28.58 mm outer dia pipe	each	550.55
	18.88.14	For 48.60 mm x 34.00 mm outer dia pipe	each	556.35
	18.88.15	For 48.60 mm x 42.70 mm outer dia pipe	each	606.30
18.89	of grade A or M-prof	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of lia as per dirction of Engineer-in-charge.		
	Slip Coup	ling/ Socket		
	18.89.1	For 15.88 mm outer dia pipe	each	131.25
	18.89.2	For 22.22 mm outer dia pipe	each	213.70
	18.89.3	For 28.58 mm outer dia pipe	each	274.10
	18.89.4	For 34.00 mm outer dia pipe	each	405.35
	18.89.5	For 42.70 mm outer dia pipe	each	569.15
	18.89.6	For 48.60 mm outer dia pipe	each	707.35
18.90	of grade A or M-prof	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of dia as per dirction of Engineer-in-charge.		
	Elbow 90°			
	18.90.1	For 15.88mm outer dia pipe	each	99.90
	18.90.2	For 22.22 mm outer dia pipe	each	177.70
	18.90.3	For 28.58 mm outer dia pipe	each	245.10
	18.90.4	For 34.00 mm outer dia pipe	each	498.30
	18.90.5	For 42.70 mm outer dia pipe	each	763.10
	18.90.6	For 48.60 mm outer dia pipe	each	938.50
18.91	of grade A or M-prof	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of lia as per dirction of Engineer-in-charge.		
	Reducing	Elbow 90°		
	18.91.1	For22.22 mm x 15.88 mm outer dia pipe	each	171.90
	18.91.2	For 28.58 mm x 15.88 mm outer dia pipe	each	250.90
	18.91.3	For 28.58 mm x 22.22 mm outer dia pipe	each	256.70
	18.91.4	For 34.00 mm x 22.22 mm outer dia pipe	each	372.85
	18.91.5	For 34.00 mm x 28.58 mm outer dia pipe	each	459.95
	18.91.6	For 42.70 mm x 34.00 mm outer dia pipe	each	810.75
18.92	of grade A or M-prof	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of lia as per dirction of Engineer-in-charge.		

Code No.	Descriptio	on	Unit	Rate ₹		
	Equal Tee					
	18.92.1	For 15.88 mm outer dia pipe	each	184.70		
	18.92.2	For 22.22 mm outer dia pipe	each	268.30		
	18.92.3	For 28.58 mm outer dia pipe	each	343.80		
	18.92.4	Details of Cost for one no.	each	716.65		
	18.92.5	For 42.70 mm outer dia pipe	each	1,003.55		
	18.92.6	For 48.60 mm outer dia pipe	each	1,194.00		
18.93	of grade A or M-profi	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of ia as per dirction of Engineer-in-charge.				
	Reducing	Tee				
	18.93.1	For 22.22 mm x 15.88 mm outer dia pipe	each	261.35		
	18.93.2	For 28.58 mm x 15.88 mm outer dia pipe	each	325.20		
	18.93.3	For 28.58 mm x 22.22 mm outer dia pipe	each	338.00		
	18.93.4	For 34.00 mm x 15.88 mm outer dia pipe	each	636.50		
	18.93.5	For 34.00 mm x 22.22 mm outer dia pipe	each	648.10		
	18.93.6	For 34.00 mm x 28.58 mm outer dia pipe	each	655.10		
	18.93.7	For 42.70 mm x 15.88 mm outer dia pipe	each	951.25		
	18.93.8	For 42.70 mm x 22.22 mm outer dia pipe	each	953.60		
	18.93.9	For 42.70 mm x 28.58 mm outer dia pipe	each	954.75		
	18.93.10	For 42.70 mm x 34.00 mm outer dia pipe	each	964.05		
	18.93.11	For 48.60 mm x 15.88 mm outer dia pipe	each	1,038.40		
	18.93.12	For 48.60 mm x 22.22 mm outer dia pipe	each	1,060.45		
	18.93.13	For 48.60 mm x 28.58 mm outer dia pipe	each	1,068.60		
	18.93.14	For 48.60 mm x 34.00 mm outer dia pipe	each	1,112.70		
	18.93.15	For 48.60 mm x 42.70 mm outer dia pipe	each	1,153.35		
18.94	of grade A or M-profi	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of ia as per dirction of Engineer-in-charge.				
	Male Thre	ad Tee				
	18.94.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	332.20		
	18.94.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	399.55		
	18.94.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	427.45		
	18.94.4	For 28.58 mm outer dia x 15 mm nominal dia threaded	each	480.85		
	18.94.5	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	501.75		
	18.94.6	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	561.00		

Code No.	Description	on	Unit	Rate ₹
	18.94.7	For 34.00 mm outer dia x 15 mm nominal dia threaded	each	699.20
	18.94.8	For 34.00 mm outer dia x 20 mm nominal dia threaded	each	756.15
	18.94.9	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	902.50
	18.94.10	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	1,139.45
	18.94.11	For 42.70 mm outer dia x 15 mm nominal dia threaded	each	1,067.40
	18.94.12	For 42.70 mm outer dia x 20 mm nominal dia threaded	each	1,092.95
	18.94.13	For 42.70 mm outer dia x 25 mm nominal dia threaded	each	1,189.40
	18.94.14	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	1,320.65
	18.94.15	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	1,604.05
	18.94.16	For 48.60 mm outer dia x 15 mm nominal dia threaded	each	1,161.50
	18.94.17	For 48.60 mm outer dia x 20 mm nominal dia threaded	each	1,196.35
	18.94.18	For 48.60 mm outer dia x 25 mm nominal dia threaded	each	1,247.45
	18.94.19	For 48.60 mm outer dia x 32 mm nominal dia threaded	each	1,498.35
	18.94.20	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	1,662.10
	18.94.21	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	2,031.45
18.95	of grade A or M-profi	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of ia as per dirction of Engineer-in-charge.		
	Female Th	nread Tee		
	18.95.1	For 15.88 mm outer dia x15 mm nominal dia threaded	each	339.15
	18.95.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	399.55
	18.95.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	413.50
	18.95.4	For 28.58 mm outer dia x 15 mm nominal dia threaded	each	516.85
	18.95.5	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	528.50
	18.95.6	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	578.45
	18.95.7	For 34.00 mm outer dia x 15 mm nominal dia threaded	each	775.90
	18.95.8	For 34.00 mm outer dia x 20 mm nominal dia threaded	each	788.65
	18.95.9	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	889.70
	18.95.10	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	1,056.95
	18.95.11	For 42.70 mm outer dia x 15 mm nominal dia threaded	each	1,038.40
	18.95.12	For 42.70 mm outer dia x 20 mm nominal dia threaded	each	1,056.95
	18.95.13	For 42.70 mm outer dia x 25 mm nominal dia threaded	each	1,187.05
	18.95.14	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	1,239.30
	18.95.15	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	1,349.65
	18.95.16	For 48.60 mm outer dia x 15 mm nominal dia threaded	each	1,237.00
	18.95.17	For 48.60 mm outer dia x 20 mm nominal dia threaded	each	1,249.75
	18.95.18	For 48.60 mm outer dia x 25 mm nominal dia threaded	each	1,295.05

Code No.	Descriptio	on	Unit	Rate ₹
	18.95.19	For 48.60 mm outer dia x 32 mm nominal dia threaded	each	1,375.20
	18.95.20	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	1,432.15
	18.95.21	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1,586.60
18.96	of grade A or M-profi	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of ia as per dirction of Engineer-in-charge.		
	Female Th	nread Connector/Adapter		
	18.96.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	220.70
	18.96.2	For 22.22 mm outer dia x 15 mmnominal dia threaded	each	267.15
	18.96.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	275.30
	18.96.4	For 28.58 mm outer dia x 15 mm nominal dia threaded	each	321.75
	18.96.5	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	332.20
	18.96.6	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	391.45
	18.96.7	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	475.05
	18.96.8	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	624.90
	18.96.9	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	669.00
	18.96.10	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	791.00
	18.96.11	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	973.35
	18.96.12	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1,120.85
18.97	of grade A or M-profi	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of ia as per dirction of Engineer-in-charge.		
	Male Thre	ad Connector/Adapter		
	18.97.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	224.15
	18.97.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	263.65
	18.97.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	288.05
	18.97.4	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	363.55
	18.97.5	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	371.70
	18.97.6	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	535.45
	18.97.7	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	656.25
	18.97.8	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	753.80
	18.97.9	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	843.25
	18.97.10	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	975.65
	18.97.11	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1,321.80
18.98		and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile		

Code No.	Descriptio	on	Unit	Rate ₹
		e and with O-ring sealing gasket of EPDM material of a as per dirction of Engineer-in-charge.		
	Valve Conr	nector		
	18.98.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	271.80
	18.98.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	320.55
	18.98.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	342.65
	18.98.4	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	492.50
	18.98.5	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	730.60
	18.98.6	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	1,016.30
	18.98.7	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1,365.90
18.99	of grade Al or M-profil	and fixing required Stainless Steel Fitting of press fit design SI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of a as per dirction of Engineer-in-charge.		
	Female Th	readed Elbow 90 <sup>o</sup>		
	18.99.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	238.10
	18.99.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	319.40
	18.99.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	329.85
	18.99.4	For 25.58 mm outer dia x 25 mm nominal dia threaded	each	489.00
	18.99.5	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	851.40
	18.99.6	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	1,068.60
	18.99.7	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	1,155.70
	18.99.8	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	1,281.15
	18.99.9	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1,493.70
18.100	of grade Al or M-profil	and fixing required Stainless Steel Fitting of press fit design SI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of a as per dirction of Engineer-in-charge.		
	Male Threa	aded Elbow 90°		
	18.100.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	250.90
	18.100.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	317.10
	18.100.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	334.50
	18.100.4	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	437.90
	18.100.5	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	702.70
	18.100.6	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	854.85
	18.100.7	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	1,084.85
	18.100.8	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	1,231.20
	18.100.9	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	1,382.20
	18.100.10	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1,683.00

Code No.	Descriptio	on	Unit	Rate ₹
18.101	of grade A or M-profi	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of ia as per dirction of Engineer-in-charge.		
	Cap			
	18.101.1	For 15.88 mm outer dia pipe	each	52.25
	18.101.2	For 22.22 mm outer dia pipe	each	74.35
	18.101.3	For 28.58 mm outer dia pipe	each	97.55
	18.101.4	For 34.00 mm outer dia pipe	each	200.95
	18.101.5	For 42.70 mm outer dia pipe	each	293.85
	18.101.6	For 48.60 mm outer dia pipe	each	383.30
18.102	of grade A or M-profi	and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of ia as per dirction of Engineer-in-charge.		
	Pipe Bridge			
	18.102.1	For 15.88 mm outer dia pipe	each	248.55
	18.102.2	For 22.22 mm outer dia pipe	each	314.75
	18.102.3	For 28.58 mm outer dia pipe	each	472.75

## **SUB HEAD : 19.0** DRAINAGE

## **BASIC RATES (SH: 19.0 DRAINAGE)**

Code No.	Description	Unit	Rate ₹
0101	Bhisti	day	328.00
0103	Blacksmith 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0285	Brick Aggregate (Single size) : 63 mm nominal size	cum	500.00
0287	Brick Aggregate (Single size) : 40 mm nominal size	cum	510.00
0362	Brick bats	cum	500.00
0367	Portland Cement	tonne	5240.00
0983	Fine sand (zone IV)	cum	650.00
1003	Mild steel round bar above 12 mm dia	quintal	4300.00
1006	Mild steel square bars	quintal	4500.00
1336	Clearing eye with chain and lid 100 mm dia	each	44.00
1337	Clearing eye with chain and lid 150 mm dia	each	50.00
1352	C.I. cover and frame 300x300 mm inside	each	300.00
1353	C.I.cover without frame 300x300 mm inside i/c cover of 4.50 kg	each	225.00
1354	Rectangular cover 455x610 mm with frame (low duty)	each	1500.00
1355	Rectangular cover 455x610 mm without frame (low duty)	each	1000.00
1356	500 mm dia cover with frame (medium duty)	each	4750.00
1357	500 mm dia cover without frame (medium duty)	each	2300.00
1364	C.I. grating 100x100 mm	each	15.00
1366	C.I. grating 150x150 mm	each	25.00
1367	C.I. grating 180x180 mm	each	30.00
1617	S.C. I. soil, waste and vent single socketed pipe 1.80 metres long: 100 mm dia	each	1150.00
1618	S.C.I. soil, waste and vent single socketed pipe1.80 metres long: 150 mm dia	each	1750.00
1621	S.C.I. plain bend 100 mm dia	each	350.00
1622	S.C.I. plain bend 150 mm dia	each	600.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	450.00
1700	R.C.C. pipes NP2 class 100 mm dia	metre	200.00

Code No.	Description	Unit	Rate ₹
1701	R.C.C. pipes NP2 class 150 mm dia	metre	210.00
1702	R.C.C. pipes NP2 class 250 mm dia	metre	260.00
1703	R.C.C. pipes NP2 class 300 mm dia	metre	300.00
1704	R.C.C. pipes NP2 class 450 mm dia	metre	400.00
1705	R.C.C. pipes NP2 class 500 mm dia	metre	580.00
1706	R.C.C. pipes NP2 class 600 mm dia	metre	920.00
1707	R.C.C. pipes NP2 class 700 mm dia	metre	1050.00
1709	R.C.C. pipes NP2 class 800 mm dia	metre	1170.00
1710	R.C.C. pipes NP2 class 900 mm dia	metre	1280.00
1711	R.C.C. pipes NP2 class 1000 mm dia	metre	1590.00
1712	R.C.C. pipes NP2 class 1100 mm dia	metre	1875.00
1713	R.C.C. pipes NP2 class 1200 mm dia	metre	1925.00
1714	R.C.C. collars NP2 class 100 mm dia	each	30.00
1715	R.C.C. collars NP2 class 150 mm dia	each	35.00
1716	R.C.C. collars NP2 class 250 mm dia	each	50.00
1717	R.C.C. collars NP2 class 300 mm dia	each	55.00
1718	R.C.C. collars NP2 class 450 mm dia	each	100.00
1719	R.C.C. collars NP2 class 500 mm dia	each	115.00
1720	R.C.C. collars NP2 class 600 mm dia	each	140.00
1721	R.C.C. collars NP2 class 700 mm dia	each	150.00
1723	R.C.C. collars NP2 class 800 mm dia	each	200.00
1724	R.C.C. collars NP2 class 900 mm dia	each	235.00
1725	R.C.C. collars NP2 class 1000 mm dia	each	280.00
1726	R.C.C. collars NP2 class 1100 mm dia	each	300.00
1727	R.C.C. collars NP2 class 1200 mm dia	each	350.00
1728	RCC pipe 450 mm dia NP-3 spigot	metre	1496.00
1729	RCC pipe 600 mm dia NP-3 spigot	metre	1995.00
1730	RCC pipe 900 mm dia NP-3 spigot	metre	3150.00
1731	RCC pipe 1000 mm dia NP-3 spigot	metre	3885.00
1732	RCC pipe 1200 mm dia NP-3 spigot	metre	5040.00
1733	RCC pipe 1800 mm dia NP-3 spigot	metre	9450.00
1734	RCC pipe 450 mm dia NP-4 spigot	metre	1733.00
1735	RCC pipe 600 mm dia NP-4 spigot	metre	2310.00

SUB HEAD -19.0 DRAINAGE

Code No.	Description	Unit	Rate ₹
1736	RCC pipe 900 mm dia NP-4 spigot	metre	4595.00
1737	RCC pipe 1000 mm dia NP-4 spigot	metre	5565.00
1738	RCC pipe 1200 mm dia NP-4 spigot	metre	6510.00
1739	RCC pipe 1800 mm dia NP-4 spigot	metre	13650.00
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	50.00
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	80.00
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	135.00
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	220.00
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	240.00
1881	Spun yarn	kilogram	50.00
1900	S.W. gully trap P type 100x100 mm	each	90.00
1902	S.W. gully trap P type 150x100 mm	each	130.00
1904	S.W. gully trap P type 180x150 mm	each	225.00
2201	Carriage of bricks	1000 Nos	284.39
2209	Carriage of cement	tonne	94.80
2224	Carriage of S.W. pipes 100 mm dia	100 metre	142.19
2225	Carriage of S.W. pipes 150 mm dia	100 metre	284.39
2226	Carriage of S.W. pipes 200 mm dia	100 metre	473.98
2228	Carriage of S.W. pipes 250 mm dia	100 metre	812.54
2229	Carriage of S.W. pipes 300 mm dia	100 metre	1015.68
2260	Carriage of brick aggregate	cum	115.92
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	106.64
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	94.80
2275	Carriage of R.C.C. pipes 100 mm dia	100 metre	233.10
2281	Carriage of R.C.C. pipes 150 mm dia	100 metre	388.51
2287	Carriage of R.C.C. pipes 250 mm dia	100 metre	898.07
2290	Carriage of R.C.C. pipes 300 mm dia	100 metre	1110.03
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	2590.06
2303	Carriage of R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	3885.10
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	5827.64
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	7770.19
2333	Carriage of R. C. C. pipes 1100 mm dia	100 metre	7770.19

Code No.	Description	Unit	Rate ₹
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	7770.19
2336	Carriage of R.C.C. pipe above 1200 mm dia and upto 1800 mm dia	100 metre	7339.87
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	3800.00
3860	560 mm dia cover with frame (Heavy duty)	each	9000.00
3861	560 mm dia cover without frame (Heavy duty)	each	5000.00
7087	S.C.I. Tee 150 mm	each	600.00
7128	S.W. intercepting trap 100 mm dia	each	190.00
7129	S.W. intercepting trap 150 mm dia	each	250.00
7130	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D 25	each	750.00
7131	Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D 25	each	650.00
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D 25	each	600.00
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D 10	each	700.00
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame -M.D10	each	600.00
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D 20	each	1100.00
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D 35	each	1225.00
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	115.00
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	650.00
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	325.00
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	680.00
9999	Sundries	L.S.	1.70

Code No.	Descript	ion	Unit	Rate ₹
	are applic	The rates given for all the items under sub-head ' Drainage' cable to work executed in soils above sub- soil water level. wance has to be made for work under sub- soil water level.		
	STONE V	VARE PIPES AND FITTINGS		
19.1	stiff mixtu	, laying and jointing glazed stoneware pipes class SP-1 with re of cement mortar in the proportion of 1:1 (1 cement : 1 fine luding testing of joints etc. complete :		
	19.1.1	100 mm diameter	metre	197.60
	19.1.2	150 mm diameter	metre	301.90
	19.1.3	200 mm diameter	metre	447.25
	19.1.4	250 mm diameter	metre	676.75
	19.1.5	300 mm diameter	metre	747.90
19.2	sand : 10	and laying cement concrete 1:5:10 (1 cement : 5 coarse) graded stone aggregate 40 mm nominal size) all-round as including bed concrete as per standard design :		
	19.2.1	100 mm diameter S.W. pipe	metre	543.55
	19.2.2	150 mm diameter S.W. pipe	metre	664.80
	19.2.3	200 mm diameter S.W. pipe	metre	774.95
	19.2.4	250 mm diameter S.W. pipe	metre	896.15
19.3	sand : 10	and laying cement concrete 1:5:10 (1 cement : 5 coarse 0 graded stone aggregate 40 mm nominal size) up to s of S.W. pipes including bed concrete as per standard		
	19.3.1	100 mm diameter S.W. pipe	metre	258.35
	19.3.2	150 mm diameter S.W. pipe	metre	418.70
	19.3.3	200 mm diameter S.W. pipe	metre	492.15
	19.3.4	250 mm diameter S.W. pipe	metre	572.95
	19.3.5	300 mm diameter S.W. pipe	metre	661.10
19.4	with C.I. g	and fixing square-mouth S.W. gully trap class SP-1 complete grating brick masonry chamber with water tight C.I. cover e of 300 x300 mm size (inside) the weight of cover to be not 4.50 kg and frame to be not less than 2.70 kg as per design :		
	19.4.1	100x100 mm size P type		
	19.4.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1,520.90
	19.4.1.2	With Sewer bricks conforming to IS : 4885	each	1,522.10

#### **19.0 DRAINAGE**

Code No.	Descripti	on	Unit	Rate ₹
	19.4.2	150 x 100 mm size P type		
	19.4.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1,546.95
	19.4.2.2	With sewer bricks conforming to IS : 4885	each	1,548.15
	19.4.3	180x150 mm size P type		
	19.4.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1,635.00
	19.4.3.2	With Sewer bricks conforming to IS : 4885	each	1,636.20
19.5	concrete	ng of old S.W. pipes including breaking of joints and bed stacking of useful materials near the site within 50 m lead sal of unserviceable materials into municipal dumps :		
	19.5.1	100 mm diameter	metre	29.30
	19.5.2	150 mm diameter	metre	32.45
	19.5.3	200 mm diameter	metre	34.50
	19.5.4	250 mm diameter	metre	36.55
	19.5.5	300 mm diameter	metre	38.65
	19.5.6	350 mm diameter	metre	44.50
	19.5.7	400 mm diameter	metre	48.65
	19.5.8	450 mm diameter	metre	50.70
19.6	with collar	and laying non-pressure NP2 class (light duty) R.C.C. pipes is jointed with stiff mixture of cement mortar in the proportion ement : 2 fine sand) including testing of joints etc. complete :		
	19.6.1	100 mm dia. R.C.C. pipe	metre	311.90
	19.6.2	150 mm dia. R.C.C. pipe	metre	340.35
	19.6.3	250 mm dia. R.C.C. pipe	metre	455.90
	19.6.4	300 mm dia. R.C.C. pipe	metre	494.35
	19.6.5	450 mm dia. R.C.C. pipe	metre	688.90
	19.6.6	500 mm dia. R.C.C. pipe	metre	915.85
	19.6.7	600 mm dia. R.C.C. pipe	metre	1,358.65
	19.6.8	700 mm dia. R.C.C. pipe	metre	1,539.00
	19.6.9	800 mm dia. R.C.C. pipe	metre	1,722.50
	19.6.10	900 mm dia. R.C.C. pipe	metre	1,931.75
	19.6.11	1000 mm dia. R.C.C. pipe	metre	2,395.25
	19.6.12	1100 mm dia. R.C.C. pipe	metre	2,821.35
	19.6.13	1200 mm dia. R.C.C. pipe	metre	3,002.85
19.7	Construct	ing brick masonry manhole in cement mortar 1:4 (1 cement		

19.7 Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2

Code No.	Descripti	on	Unit	Rate ₹
	coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :			
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg):		
	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	8,062.70
	19.7.1.2	With Sewer bricks conforming to IS : 4885	each	8,065.80
	19.7.2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :		
	19.7.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	17,592.00
	19.7.2.2	With Sewer bricks conforming to IS : 4885	each	17,600.55
	19.7.3	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) :		
	19.7.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	22,155.05
	19.7.3.2	With Sewer bricks conforming to IS : 4885	each	22,162.45
19.8	Extra for o	depth for manholes :		
	19.8.1	Size 90x80 cm		
	19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	5,481.40
	19.8.1.2	With Sewer bricks conforming to IS : 4885	metre	5,490.50
	19.8.2	Size 120x90 cm		
	19.8.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	6,563.00
	19.8.2.2	With Sewer bricks conforming to IS : 4885	metre	6,573.85

Code No.	Descripti	on	Unit	Rate ₹
19.9	dia at both :4 coarse mortar 1:3 neat cem sand : 6 g necessary sand : 4 g	ting brick masonry circular type manhole 0.91 m internal tom and 0.56m dia at top in cement mortar 1:4 (1 cement sand), in side cement plaster 12 mm thick with cement 3 (1 cement : 3 coarse sand) finished with a floating coat of ent, foundation concrete 1:3:6 mix (1 cement : 3 coarse raded stone aggregate 40 mm nominal size), and making y channel in cement concrete 1:2:4 (1 cement : 2 coarse raded stone aggregate 20 mm nominal size) finished with coat of neat cement, all complete as per standard design :		
	19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :		
	19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	8,241.55
	19.9.1.2	With Sewer bricks conforming to IS : 4885	each	8,236.05
19.10		th for circular type manhole 0.91m internal dia (at bottom) .91 m to 1.67 m		
	19.10.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	4,698.40
	19.10.2	With Sewer bricks conforming IS : 4885	metre	4,706.00
19.11	bottom ar coarse sa 1:3 (1 cer cement fo graded sto channel in graded sto	ing brick masonry circular manhole 1.22 m internal dia at ad 0.56 m dia at top in cement mortar 1:4 (1 cement :4 nd) inside cement plaster 12 mm thick with cement mortar ment : 3 coarse sand) finished with a floating coat of neat bundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 one aggregate 40 mm nominal size) and making necessary n cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 one aggregate 20 mm nominal size) finished with a floating eat cement, all complete as per standard design :		
	19.11.1	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :		

Code No.	Descriptio	on	Unit	Rate ₹
	19.11.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	15,524.40
	19.11.1.2	With Sewer bricks conforming IS : 4885	each	15,525.85
19.12		h for circular type manhole 1.22 m internal dia (at bottom) 68 m to 2.29 m :		
	19.12.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	6,087.10
	19.12.2	With Sewer bricks conforming IS : 4885	metre	6,097.05
19.13	bottom an coarse sar 1:3 (1 cem cement, fo graded sto channel in graded sto	ing brick masonry circular manhole 1.52 m internal dia at d 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 nd) inside cement plaster 12 mm thick with cement mortar nent : 3 coarse sand) finished with a floating coat of neat bundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 one aggregate 40 mm nominal size) and making necessary n cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 one aggregate 20 mm nominal size) finished with a floating at cement, all complete as per standard design :		
	19.13.1	2.30 m deep with SFRC Cover and frame (heavy duty HD- 20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :		
	19.13.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	33,216.90
	19.13.1.2	With Sewer bricks conforming IS : 4885	each	33,229.95
19.14	Extra dept beyond 2.3	h for circular type manhole 1.52 m internal dia (at bottom) 30 m :		
	19.14.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	14,522.90
	19.14.2	With Sewer bricks conforming IS : 4885	metre	14.548.65
19.15	cm cement	M.S. foot rests including fixing in manholes with 20x20x10 t concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded regate 20 mm nominal size) as per standard design :		
	19.15.1	With 20x20 mm square bar	each	261.45
	19.15.2	With 20 mm diameter round bar	each	225.90
19.16	plastic end conforming	orange colour safety foot rest of minimum 6 mm thick capsulated as per IS : 10910, on 12 mm dia steel bar g to IS : 1786, having minimum cross section as 23 mmx25 ver all minimum length 263 mm and width as 165 mm with		

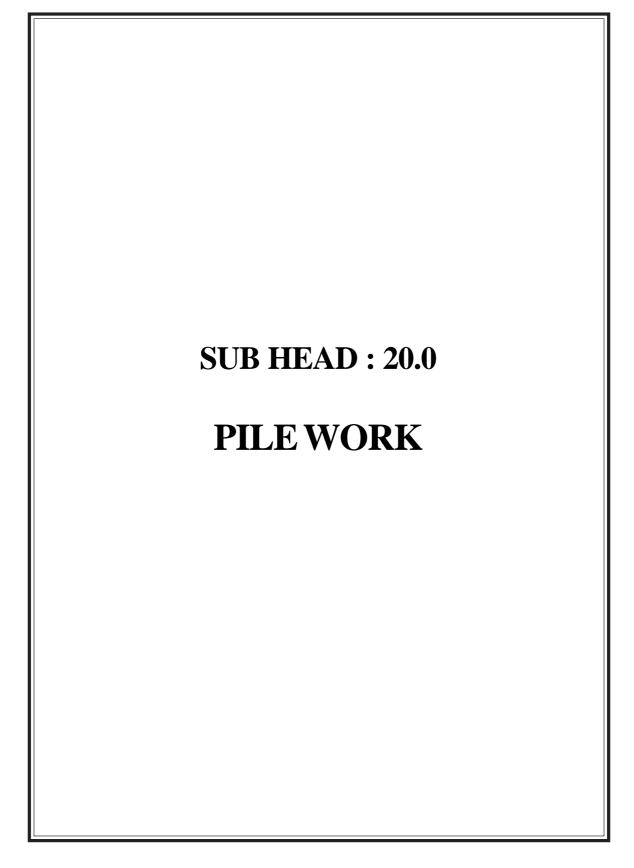
Code No.	Descriptio	on	Unit	Rate ₹
	minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.		each	295.20
19.17	concrete b	nent of M.S. foot rests in manholes including dismantling locks and fixing with 20x20x10 cm cement concrete blocks ement : 3 coarse sand : 6 graded stone aggregate 20 mm ize) :		
	19.17.1	With 20x20 mm square bar	each	305.00
	19.17.2	With 20 mm diameter round bar	each	269.45
19.18	Supplying	and fixing C.I. cover without frame for manholes :		
	19.18.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	1,217.00
	19.18.2	500 mm diameter C.I. cover (medium duty) the weight of the cover to be not less than 58 kg	each	2,739.45
	19.18.3	560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg	each	5,880.70
19.19	-	and fixing in position pre-cast R.C.C. manhole cover and equired shape and approved quality		
	19.19.1	L D- 2.5		
	19.19.1.1	Rectangular shape 600x450 mm internal dimensions	each	1,108.05
	19.19.1.2	Square shape 450 mm internal dimensions	each	942.65
	19.19.1.3	Circular shape 450 mm internal diameter	each	884.60
	19.19.2	M D - 10		
	19.19.2.1	Square shape 450 mm internal dimension	each	1056.15
	19.19.2.2	Circular shape 500 mm internal diameter	each	960.45
	19.19.3	H D - 20		
	19.19.3.1	Circular shape 560 mm internal diameter	each	1,492.05
	19.19.4	EHD - 35		
	19.19.4.1	Circular shape 560 mm internal dia	each	1,637.20
19.20		and fixing C.I. cover 300x300 mm without frame for gully dard pattern) the weight of cover to be not less than 4.5 kg	each	277.00
19.21	including b	onnection of drain or sewer line with existing manhole oreaking into and making good the walls, floors with cement 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone		

Code No.	Descripti	on	Unit	Rate ₹
	with ceme floating co	e 20 mm nominal size) cement plastered on both sides ent mortar 1:3 (1 cement : 3 coarse sand), finished with a pat of neat cement and making necessary channels for the complete :		
	19.21.1	For pipes 100 to 250 mm diameter	each	330.50
	19.21.2	For pipes 250 to 300 mm diameter	each	394.75
	19.21.3	For pipes 350 to 450 mm diameter	each	574.10
19.22	from bran and clean encased sand : 10 centering good with plastered of the mar and fitting between s	sand cast iron drop connection externally for 60 cm drop ch sewer line to main sewer manhole including inspection ing eye with chain and lid, sand cast iron drop pipe and bend all-round with cement concrete 1:5:10 (1 cement : 5 fine 0 graded stone aggregate 40 mm nominal size) with all and shuttering required, cutting holes in walls and making brick work in cement mortar 1:4 (1 cement : 4 coarse sand) with cement mortar 1:3 (1 cement : 3 coarse sand) on inside hole wall, lead caulked joints between sand cast iron pipes gs, stiff cement mortar 1:1 (1 cement : 1 fine sand) joints sand cast iron tee and S.W. pipe, making required channels as per standard design and specifications :		
	19.22.1	100 mm dia sand cast iron drop connection	each	5,884.25
	19.22.2	150 mm dia sand cast iron drop connection	each	8,130.35
19.23	Extra for complete	depths beyond 60 cm of sand cast iron drop connection :		
	19.23.1	For 100 mm dia sand cast iron drop connection	metre	1,811.45
	19.23.2	For 150 mm dia sand cast iron drop connection	metre	2,399.15
19.24	frame, inc	ng of manhole including R.C.C. top slab, C.I. cover with luding stacking of useful materials near the site and disposal iceable materials into municipal dumps within 50 m lead :		
	19.24.1	Rectangular manhole 90x80 cm and 45 cm deep	each	847.25
	19.24.2	Rectangular manhole 120x90 cm and 90 cm deep	each	1,487.15
	19.24.3	Rectangular arch type manhole 140x90 cm and 2.45 m deep	each	2,813.45
	19.24.4	Circular manhole 122 cm diameter and 1.68 m deep	each	2,155.85
19.25	Extra for o	depth of manholes dismantled :		
	19.25.1	Rectangular manhole 90x80 cm and beyond 45 cm depth	metre	677.80
	19.25.2	Rectangular manhole 120x90 cm and beyond 90 cm depth	metre	807.15
	19.25.3	Rectangular arch type manhole 140x90 cm and beyond 2.45 m depth (up to 4.25 m depth)	metre	653.30
	19.25.4	Circular manhole 122 cm diameter and beyond 1.68 m depth (up to 2.29 m depth)	metre	736.95

Code No.	Descripti	on	Unit	Rate ₹
19.26	dismantlir	nanhole cover and frame slab to required level including ng existing slab and making good the damage as required depth of manhole to be paid separately) :		
	19.26.1	Rectangular manhole 90x80 cm with rectangular cover 600x450 mm of grade LD - 2.5	each	1,446.35
	19.26.2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	each	2,267.90
	19.26.3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20	each	2,110.85
	19.26.4	Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35	each	195.95
19.27	bricks in 0 500x450 r	ting brick masonry road gully chamber 50x45x60 cm with cement mortar 1:4 (1 cement : 4 coarse sand) including mm pre-cast R.C.C. horizontal grating with frame complete andard design :		
	19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	3,774.95
19.28	bricks in a	ing brick masonry road gully chamber 45x45x77.5 cm with cement mortar 1:4 (1 cement : 4 coarse sand ) with pre- C. vertical grating complete as per standard design :		
	19.28.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	4,228.00
19.29	with bricks 500x450 r	ting brick masonry road gully chamber 110x50x77.5 cm s in cement mortar 1:4 (1 cement : 4 coarse sand) including nm pre-cast R.C.C. horizontal grating with frame and vertical omplete as per standard design :		
	19.29.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	7,166.70
19.30	chamber coarse sa dimension kg (weigh with 1:2:4 20 mm no sand : 10 plastering sand), fini	ing brick masonry chamber for underground C.I. inspection and bends with bricks in cement mortar 1:4 (1 cement : 4 and) C.I. cover with frame (light duty) 455x610 mm internal ns, total weight of cover with frame to be not less than 38 t of cover 23 kg and weight of frame 15 kg), R.C.C. top slab mix (1 cement : 2 coarse sand : 4 graded stone aggregate ominal size), foundation concrete 1:5:10 (1 cement : 5 fine 0 graded stone aggregate 40 mm nominal size), inside g 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse ished smooth with a floating coat of neat cement on walls concrete etc. complete as per standard design :		
	19.30.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :		
	19.30.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	4,505.00

Code No.	Description	on	Unit	Rate ₹
	19.30.2	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :		
	19.30.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	5,159.50
	19.30.3	Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :		
	19.30.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	5,967.85
19.31	Extra for c	lepth beyond 45 cm of brick masonry chamber :		
	19.31.1	For 455x610 mm size		
	19.31.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	3,820.80
	19.31.2	For 500x700 mm size		
	19.31.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	4,165.80
	19.31.3	For 600x850 mm size		
	19.31.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	4,847.85
19.32	brick hone	bak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry ey comb shaft with bricks and S.W. drain pipe 100 mm 1.8 m long complete as per standard design.		
	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	16,705.45
19.33		ng soak pit 1.20x1.20x1.20 m filled with brickbats including pipe 100 mm diameter and 1.20 m long complete as per design.	each	2,049.45
19.34	Providing mixture o	and fixing S.W. intercepting trap in manholes with stiff f cement mortar 1:1 (1 cement : 1 fine sand) including joints etc. complete :		
	19.34.1	100 mm dia	each	282.75
	19.34.2	150 mm dia	each	383.25
19.35	pipes incl mortar in	and laying Non Pressure NP-3 class (Medium duty) R.C.C. uding collars/spigot jointed with stiff mixture of cement the proportion of 1:2 (1 cement : 2 fine sand) including joints etc. complete		
	19.35.1	450 mm dia RCC pipes.	metre	1905.15
	19.35.2	600 mm dia RCC pipes.	metre	2490.15
	19.35.3	900 mm dia RCC pipes.	metre	3922.10
	19.35.4	1000 mm dia RCC pipes. (Laying by mannual/ machenical means)	metre	4851.25

Code No.	Descripti	ion	Unit	Rate ₹
	19.35.5	1200 mm dia RCC pipes. (Laying by mannual/ machenical means)	metre	6363.55
	19.35.6	1800 mm dia RCC pipes. (Laying by mannual/ machenical means)	metre	11683.90
19.36	pipes inc mortar in	and laying Non Pressure NP-4 class (Heavy duty) R.C.C. luding collars/spigot jointed with stiff mixture of cement the proportion of 1:2 (1 cement : 2 fine sand) including joints etc. complete		
	19.36.1	450 mm dia RCC pipes.	metre	2180.45
	19.36.2	600 mm dia RCC pipes.	metre	2856.00
	19.36.3	900 mm dia RCC pipes.	metre	5600.45
	19.36.4	1000 mm dia RCC pipes.(Laying by mannual/ machenical means)	metre	6802.55
	19.36.5	1200 mm dia RCC pipes. (Laying by mannual/ machenical means)	metre	8070.95
	19.36.6	1800 mm dia RCC pipes. (Laying by mannual/ machenical means)	metre	16513.95



### BASIC RATES (SH: 20.0 PILE WORK)

Code No.	Description	Unit	Rate ₹
0017	Hire and running charges of tipper	day	1700.00
0018	Hire and running charges of loader	day	5000.00
0024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site	day	34000.00
0025	Hire and running charges of light crane	day	2200.00
0026	Hire and running charges of bentonite pump	day	4200.00
0027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories	day	35000.00
0028	Hire and running charges of crane 20 tonne capacity	day	9300.00
0080	Hire and running charges of drill machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary soil and operator)	day	7500.00
0081	Pile Integrity testing equipment	day	3000.00
0114	Beldar	day	297.00
0130	Mistry	day	393.00
7181	C.I. pile shoe	kilogram	50.00
7182	M.S. clamps for pile shoe	kilogram	45.00
7183	Bentonite	tonne	3100.00
7246	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	33200.00
7247	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	pertest	40300.00
7248	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	pertest	48500.00
7249	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	15000.00

Code No.	Description	Unit	Rate ₹
7250	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	23000.00
7251	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	29500.00
7252	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	15000.00
7253	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	23600.00
9999	Sundries	L.S.	1.70

Code No.	Descript	ion	Unit	Rate ₹
20.1	concrete the pile of excluding shoe and complete	g, driving and installing driven cast-in-situ reinforced cement piles of grade M-25 of specified diameter and length below cap, to carry safe working load not less than specified, g the cost of steel reinforcement but including the cost of d the length of pile to be embedded in the pile cap etc. all e. (Length of pile for payment shall be measured from top of he bottom of pile cap) :		
	20.1.1	400 mm dia piles	metre	1,845.95
	20.1.2	450 mm dia piles	metre	2,261.30
	20.1.3	500 mm dia piles	metre	2,724.20
	20.1.4	550 mm dia piles	metre	2,944.00
	20.1.5	750 mm dia piles	metre	4,962.65
	20.1.6	1000 mm dia piles	metre	8,148.85
	20.1.7	1200 mm dia piles	metre	10,464.95
	20.1.8	1500 mm dia piles	metre	14,650.50
	the pile of excluding boring, w length for to be eml of excave	piles of grade M-25 of specified diameter and length below cap, to carry a safe working load not less than specified, g the cost of steel reinforcement but including the cost of rith bentonite solution and temporary casing of appropriate r setting out and removal of same and the length of the pile bedded in the pile cap etc. all complete, including removal ated earth with all lifts and leads (Length of pile for payment measured upto bottom of pile cap).		
	20.2.1	300 mm dia piles	metre	1,424.75
	20.2.2	400 mm dia piles	metre	1,729.40
	20.2.3	450 mm dia piles	metre	2,238.60
	20.2.4	500 mm dia. piles	metre	2,626.25
	20.2.5	600 mm dia piles	metre	3,454.75
	20.2.6	750 mm dia piles	metre	4,944.35
	20.2.7	1000 mm dia piles	metre	8,201.40
	20.2.8	1200 mm dia piles	metre	10,641.25
	20.2.9	1500 mm dia piles	metre	15,168.35
20.3	piles of sp concrete excluding boring w embedde	Providing and installing cast in situ single under reamed becified diameter and length below pile cap in M-25 cement , to carry a safe working load not less than specified, g the cost of steel reinforcement but including the cost of rith bentonite solution and the length of the pile to be ed in pile cap etc. all complete. (Length of pile for payment measured upto to the bottom of pile cap):		
	Shan bei			
	20.3.1	300 mm dia piles	metre	2,065.50

#### 20.0 PILE WORK

Code No.	Descripti	on	Unit	Rate ₹
	20.3.3	450 mm dia piles	metre	2,713.55
	20.3.4	550 mm dia piles	metre	3,001.60
20.4		r item No. 23.3 for providing additional bulb in under reamed er specified dia meter (Only the quantity of extra bulbs are I).		
	20.4.1	300mm dia piles	each	1,417.30
	20.4.2	400mm dia piles	each	1,599.25
	20.4.3	450 mm dia piles	each	1,709.10
	20.4.4	550 mm dia piles	each	1,884.90
20.5	concrete p M-25 cen specified. pipe of dia (1 cemen ensure co removing excluding	, driving and installing driven Pre-cast reinforced cement piles of specified diameter and length below the pile cap in ment concrete to carry safe working load not less than . With a central through preformed hole with M.S. black a, 40 mm for grouting with cement sand grouting of mix 1:2 tt : 2 coarse sand) under sufficient positive pressure to omplete filling including centring, shuttering, driving and the steel casing pipe and lifting casing etc. complete but the cost of steel reinforcement. (Length of pile for payment neasured from top of the shoe to the bottom of pile cap).		
	20.5.1	400 mm dia piles	metre	2,328.45
	20.5.2	450 mm dia piles	metre	2,776.65
	20.5.3	500 mm dia piles	metre	2,945.35
	20.5.4	550 mm dia piles	metre	3,305.05
	20.5.5	750 mm dia piles	metre	5,977.70
	20.5.6	1000 mm dia piles	metre	8,079.15
20.6	including i or constru	bad testing of piles in accordance with IS 2911 (Part IV) installation of loading platform and preparation of pile head action of test cap and dismantling of test cap after test etc. as per specification & the direction of Engineer in-charge. Single pile upto 50 tonne capacity		
	20.6.1.1	Initial test	per test	38,561.80
	20.6.1.2	Routine test	per test	17,422.50
	20.6.2	Single pile above 50 tonne and upto 100 tonne capacity	·	
	20.6.2.1	Initial test	per test	46,808.45
	20.6.2.2	Routine test	per test	26,714.50
	20.6.3	Group of two or more piles upto 50 tonne capacity	·	
	20.6.3.1	Initial test	per test	56,332.80
	20.6.3.2	Routine test	, per test	34,264.20
20.7		rtical load testing of pile in accordance with IS Code of S: 2911 (part IV) including preparation of pile head etc for.	-	
	20.7.1	Single pile		
	20.7.1.1	Upto 50 tonne capacity pile	per test	17,422.50

Code No.	Descripti	on	Unit	Rate ₹
	20.7.1.2	Above 50 tonne and upto 100 tonne capacity pile	per test	26,714.50
	20.7.2	Group of two piles		
	20.7.2.1	Upto 50 tonne capacity each	per test	34,264.20
20.8		ad testing of single pile in accordance with IS Code of S : 2911 (Part IV) for determining safe allowable lateral ile :		
	20.8.1	Upto 50 tonne capacity pile	per test	17,422.50
	20.8.2	Above 50 tonne and upto 100 tonne capacity pile	per test	27,411.40
20.9	Echo Tes preparatio concrete skill traine	esting of Pile using Low Strain/ Sonic Integrity Test/ Sonic t method in accordance with IS 14893 including surface on of pile top by removing soil, mud, dust & chipping lean lumps etc. and use of computerised equipment and high ed personal for conducting the test & submission of results, ete as per direction of Engineer-in-charge.	per test	729.65
	be judicio	ne inclusion of the above item in the schedule of work shall ously decided by the technical sanctioning authority, n view the quality control, type of soil strata & importance ject.		

### **SUB HEAD : 21.0**

## **ALUMINIUM WORK**

#### Code Description Unit Rate No. ₹ 0100 Bandhani 328.00 day 0111 Carpenter 1 st class day 393.00 0112 Carpenter 2nd class day 361.00 0114 Beldar 297.00 day 0116 Fitter (grade 1) day 393.00 0123 Mason (brick layer) 1 st class day 393.00 0124 Mason (brick layer) 2nd class day 361.00 0139 Skilled Beldar (for floor rubbing etc.) day 328.00 0589 Chromium plated Brass screws 20 mm 100 Nos 100.00 0689 Anodised Aluminium butt hinges 100x75x4 mm 10 Nos 520.00 0992 Galvanised steel plain sheets quintal 5200.00 2406 Float glass sheet of nominal thickness 4 mm (weight not less than 330.00 10 kg/sqm) sqm 2407 Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm) 500.00 sqm 2408 Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/sqm) 700.00 sqm 2704 Aluminium Strip 40 mm wide and 2 mm thick kilogram 220.00 7001 Brass 100mm mortice latch and lock with 6 levers without pair of handles 260.00 each 7019 Dash fastener / Chemical fastner each 15.00 7048 Rawl plug 50 mm (designation 10 nos) 10.00 each 7306 Aluminium T or L sections kilogram 200.00 7313 Expandable fastener with plastic sleeve and M.S. screws : 32 mm long 11.00 each 7347 Cadmium plated full threaded steel screws (30x4 mm dia) 100 Nos 28.00 7348 Aluminium washer 2 mm thick 15 mm dia 100 Nos 10.00 7388 Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt each 50.00 7389 Anodising 15 microns on aluminium sections 40.00 kilogram 7390 Neoprene/EPDM rubber gasket metre 25.00 7391 Anodising 25 microns on aluminium sections kilogram 50.00 7392 Powder coating 50 microns on aluminium sections kilogram 64.00 7393 Polyester powder coating 50 microns on aluminium sections kilogram 70.00 7394 Double action hydraulic floor spring with stainless steel cover plate each 1550.00

#### **BASIC RATES (SH: 21.0 ALUMINIUM WORK)**

Code No.	Description	Unit	Rate ₹
7395	6 mm dia G.I. adjustable hangers including clips (up to 1.2 m length)	each	28.00
7396	Double action hydraulic floor spring with brass cover plate	each	1700.00
7477	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	740.00
7480	Pre/aminated 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		780.00
8646	Silicon sealant	cartridge	307.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	29.00
8648	Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap	sqm	2290.00
8649	Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm	each	172.00
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mm	each	215.00
8651	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	each	275.00
8652	Stainless steel (SS 304 grade) adjustable friction window stay 510 x 19 mm	each	490.00
8653	Stainless steel (SS 304 grade) adjustable friction window stay 710 x 19 mm	each	850.00
8654	Masking tape	metre	2.50
8660	Aluminium casement window fastener (Anodised AC 15)	each	40.00
8661	Aluminium casement window fastener (powder coated)	each	41.00
8662	Aluminium casement window fastener (polyester powder coated)	each	40.00
8663	Aluminium round shape handle (anodised AC 15)	each	49.00
8664	Aluminium round shape handle (powder coated)	each	54.00
8665	Aluminium round shape handle (polyester powder coated)	each	59.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	32.00
8774	Aluminium Grill	kg	250.00
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	20.00
8778	Toughened glass 12 mm thickness	sqm	1900.00
9999	Sundries	L.S.	1.70

#### 21.0 ALUMINIUM WORK

Code No.	Descripti	on	Unit	Rate ₹
21.1	and partit appropria conformin required o junctions, neoprene free, strai including o C.P. brass drawings a	and fixing aluminium work for doors, windows, ventilators tions with extruded built up standard tubular sections/ ate Z sections and other sections of approved make of to IS: 733 and IS: 1285, fixing with dash fasteners of dia and size, including necessary filling up the gaps at i.e. at top, bottom and sides with required EPDM rubber/ gasket etc. Aluminium sections shall be smooth, rust ght, mitred and jointed mechanically wherever required cleat angle, Aluminium snap beading for glazing / paneling, s / stainless steel screws, all complete as per architectural and the directions of Engineer-in-charge. (Glazing, paneling fasteners to be paid for separately) :		
	21.1.1	For fixed portion		
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	343.70
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	373.00
	21.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kg	380.30
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)		
	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	397.75
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	427.60
	21.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kg	435.05
21.2	pressed th 12823 Gra shutters a	and fixing 12 mm thick prelaminated particle board flat nree layer or graded wood particle board conforming to IS: ade I Type II, in panelling fixed in aluminum doors, windows nd partition frames with C.P. brass / stainless steel screws plete as per architectural drawings and directions of in-charge.		
	21.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	sqm	1,017.25
	21.2.2	Pre-laminated particle board with decorative lamination on both sides	sqm	1,066.00
21.3		and fixing glazing in aluminium door, window, ventilator and partitions etc. with EPDM rubber / neoprene gasket		

Code No.	Descript	ion	Unit	Rate ₹
	etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):			
	21.3.1	With float glass panes of 4.0 mm thickness	sqm	790.00
	21.3.2	With float glass panes of 5.50 mm thickness	sqm	1,009.00
	21.3.3	With float glass panes of 8 mm thickness	sqm	1,267.50
21.4	brand an embosse door weig embeddir to the exi single pie	g and fixing double action hydraulic floor spring of approved d manufacture conforming to IS : 6315, having brand logo ed on the body / plate with double spring mechanism and ght upto 125 kg, for doors, including cost of cutting floors, ng in floors as required and making good the same matching isting floor finishing and cover plates with brass pivot and ece M.S. sheet outer box with slide plate etc. complete as irection of Engineer-in-charge.		
	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	each	2,020.05
	21.4.2	With brass cover plate minimum 1.25 mm thickness	each	2,194.30
21.5	thickness sections, ceiling in stainless wall with fixing the necessar approved charge (li	g and fixing powder coated aluminium work (minimum s of powder coating 50 micron) consisting of tee/ angle of approved make conforming to IS : 733 in frames of false cluding aluminium angle cleats with necessary C.P. brass/ s steel sunk screws, aluminium perimeter angles fixed to stainless steel rawl plugs @ 450 mm centre to centre and frame work to G.I. level adjusting hangers 6 mm dia. with ry cadmium plated machine screws all complete as per d architectural drawings and direction of the Engineer-in- evel adjusting hangers, ceiling cleats and expansion hold is to be paid for separately).	kg	459.15
21.6	1200mm out of G expandal	g and fixing 6 mm dia. G.I. level adjusting hangers (upto length), fixed to roof slabs by means of ceiling cleats made a.I. flat 40x3mm size 60 mm long and stainless steel ble dash fastener of 12.5 mm dia and 50 mm long, complete rection of Engineer -in-charge.	each	105.70
21.7	pattern 8 machine vertical s side of jo of 8 mm washers centre to providing direction	and fixing machine moulded aluminium covering of approved design, made out of machine cut aluminium sheet and holed for receiving dash fastener, over expansion joints on urfaces/ceiling floors, the fixing on plate in one row on one bint only shall be done with stainless steel dash fasteners dia and 75 mm long bolt including providing aluminium 2 mm thick & 15 mm dia , at a staggered pitch of 200mm centre including drilling holes in the receiving surface and g expandable plastic sleeves in holes etc. complete as per of Engineer-in-charge.		
	21.7.1	Anodised aluminium sheet 2.5mm thick (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	469.20
	21.7.2	Powder coated aluminium sheet 2.5mm thick (minimum thickness of powder coating 50 micron)	kg	498.50

Code No.	Descripti	on	Unit	Rate ₹	
21.8	Stone wo approved	e gap in between aluminium frame & adjacent RCC/ Brick/ rk by providing weather silicon sealant over backer rod of I quality as per architectural drawings and direction of -in-charge complete.			
	21.8.1	Upto 5mm depth and 5 mm width	metre	83.05	
21.9		applying additional anodic coating AC 25 instead of AC 15 ium extruded sections.			
	21.9.1	For fixed portion	kg	11.60	
	21.9.2	For shutters of doors, windows & ventilators	kg	11.60	
21.10	aluminiur clear float EPDM ga (Both prir	and fixing double glazed hermetically sealed glazing in n windows, ventilators and partition etc. with 6 mm thick glass both side, having 12 mm air gap, including providing asket, perforated aluminium spacers, desiccants, sealant mary and secondary sealant) etc. as per specifications, and direction of Engineer-in-charge complete.	sqm	3,381.90	
21.11	windows screws et	and fixing stainless steel (SS 304 grade) adjustable friction stays of approved quality with necessary stainless steel tc. to the side hung windows as per direction of Engineer- complete.			
	21.11.1	205 X 19 mm	each	212.35	
	21.11.2	255 X 19 mm	each	262.30	
	21.11.3	355 X 19 mm	each	332.00	
	21.11.4	510 X 19 mm	each	581.70	
	21.11.5	710 X 19 mm	each	999.85	
21.12	3.0 mm th	and fixing aluminium tubular handle bar 32mm outer dia, hick & 2100mm long with SS screws etc .complete as per of Engineer-in-Charge.			
	21.12.1	Anodized (AC 15 ) aluminium tubular handle bar	each	462.35	
	21.12.2	Powder coated minimum thickness 50 micron aluminium tubular handle bar	each	507.90	
	21.12.3	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar	each	519.30	
21.13	quality) fo	and fixing 100mm brass locks (best make of approved or aluminium doors including necessary cutting and making complete.	each	386.80	
21.14	dyed to r coating of with extru conformin	and fixing anodised aluminium (anodised transparent or equired shade according to IS: 1868. Minimum anodic f grade AC 15) sub frame work for windows and ventilators ided built up standard tubular sections of approved make ng to IS: 733 and IS: 1285, fixed with dash fastener of dia and size (Dash fastener to be paid for separately).	kg	310.85	
21.15		and fixing aluminium casement windows fastener of required aluminium windows with necessary screws etc. complete.			
	21.15.1	Anodized (AC 15) aluminium	each	51.20	

SUBHEAD -21.0 ALUMINIUM WORK

Code No.	Descript	ion	Unit	Rate ₹
	21.15.2	Powder coated minimum thickness 50 micron aluminium	each	52.40
	21.15.3	Polyester powder coated minimum thickness 50 micron aluminium	each	51.20
21.16		and fixing aluminium round shape handle of outer dia vith SS screws etc. complete as per direction of Engineer-		
	21.16.1	Anodized (AC 15) aluminium	each	61.70
	21.16.2	Powder coated minimum thickness 50 micron aluminium	each	67.50
	21.16.3	Polyester powder coated minimum thickness 50 micron aluminium	each	73.30
21.17	or dyed to coating o standard brass/ sta cutting th handles a around th	and fixing anodised aluminium grill (anodised transparent or required shade according to IS: 1868 with minimum anodic f grade AC 15) of approved design/pattern, with approved section and fixed to the existing window frame with C.P. ainless steel screws @ 200 mm centre to centre, including be grill to proper opening size for fixing and operation of and fixing approved anodised aluminium standard section be opening, all complete as per requirement and direction eer-in-charge. (Only weight of grill to be measured for b.	kg	398.45
21.18	shutter of fixing top necessar as per dire	and fixing 12 mm thick frameless toughened glass door approved brand and manufacture, including providing and & bottom pivot & spring type fixing arrangement and making y holes etc. for fixing required door fittings, all complete ection of Engineer-in-charge (Door handle, lock and stopper paid separately).	sqm	4,692.70



# WATER PROOFING

### **BASIC RATES (22.0 WATER PROOFING)**

Code No.	Description	Unit	Rate ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
0012	Vibrator (Needle type 40 mm)	day	325.00
0101	Bhisti	day	328.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0125	Mason (for plain stone work) 2nd class	day	361.00
0128	Mate	day	328.00
0130	Mistry	day	393.00
0131	Painter	day	361.00
0155*	Mason (average)	day	377.00
0159	Skilled torch operator for laying tack	day	393.00
0285	Brick Aggregate (Single size) : 63 mm nominal size	cum	500.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1200.00
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	1050.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1050.00
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	37000.00
0316	Bitumen solution primer of approved quality	litre	45.00
0318	Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade I	sqm	60.00
0319	Bitumen felt as per IS 7193 Grade II	sqm	76.00
0322	Bitumen felt :Type 3 grade 1	sqm	60.00
0367	Portland Cement	tonne	5240.00
0370	Coal (steam)	quintal	400.00
0982	Coarse sand (zone III)	cum	1120.00
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	210.00
1177	Stone grit 6 mm and down size or pea sized gravel	cum	925.00
1213	Water proofing materials	kilogram	32.00
1241	Commercial LPG in cylinder	kg	70.00
2200	Carriage of steam coal	tonne	121.88
2202	Carriage of stone aggregate below 40 mm nominal size	cum	106.64

Code No.	Description	Unit	Rate ₹
2203	Carriage of coarse sand	cum	106.64
2209	Carriage of cement	tonne	94.80
2211	Carriage of tar / bitumen	tonne	106.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	94.80
2260	Carriage of brick aggregate	cum	115.92
3002	Polyvinyle chloride sheet 400 micron thick	sqm	35.00
7233	Fibre glass tissue reinforcement Type II Grade I	sqm	96.00
7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	415.00
7428	Water stops Dumb bell with central bulb	metre	390.00
7429	Kickers	metre	375.00
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	60.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	75.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	85.00
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	200.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	230.00
8206	Bitumen primer for bitumen membrane	litre	82.00
8207	Geotextile 120 grams per sqm membrane	sqm	38.00
8501	Polymer modified cementation coating	kilogram	135.00
8502	Fibre glass cloth	sqm	44.00
9999	Sundries	L.S.	1.70

#### Code Description Unit Rate No. ₹ 22.1 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) Ist 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 coarse 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 coarse sand) mixed with water proofing compound in recommended proportions. iii) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer. Using rough kota stone. 844.10 22.1.1 sqm 22.2 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 coarse 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 : 22.2.1 Using rough Kota stone 1.036.90 sam 22.3 Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of : (i) Ist 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. IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse (ii) sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) Illrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other 449.45 with bitumen @ 1.7 kg/sqm). sqm 22.4 Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between

#### 22.0 WATER PROOFING

Code No.	Descriptio	on	Unit	Rate ₹
		nembers and fixed to the reinforcement with binding wire uring concrete etc. complete :		
	22.4.1	Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	489.45
	22.4.2	Dumb bell with central bulb (180 mm wide, 8 mm thick)	metre	460.40
	22.4.3	Kickers (320 mm wide, 5 mm thick)	metre	443.00
22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.			
22.6	applying c consisting slurry of ce compound cloth whe cloth shou thickness with water sand @ 1 followed b taken upto all around (which will	and laying water proofing treatment on roofs of slabs by ement slurry mixed with water proofing cement compound of applying: a) after surface preparation, first layer of ement @ 0.488 kg/sqm mixed with water proofing cement d @ 0.253 kg/sqm. b) laying second layer of Fibre glass in the first layer is still green. Overlaps of joints of fibre uld not be less than 10 cm. c) third layer of 1.5 mm consisting of slurry of cement @ 1.289 kg/sqm mixed proofing cement compound @ 0.670 kg/sqm and coarse .289 kg/sqm. This will be allowed to air cure for 4 hours by water curing for 48 hours. The entire treatment will be a 30 cm on parapet wall and tucked into groove in parapet . d) fourth and final layer of brick tiling with cement mortar I be paid for separately. For the purpose of measurement treated surface will be measured.	sqm	356.75
22.7	including p balconies, a slurry co with water by Engine upto 300 n b) Laying mm to 118 coarse sau IS : 2645 layer of ce with water by Engine adjoining v of walls a second co with water	and laying integral cement based water proofing treatment preparation of surface as required for treatment of roofs, terraces etc consisting of following operations: a) Applying bat of neat cement using 2.75 kg/sqm of cement admixed proofing compound conforming to IS. 2645 and approved er-in-charge over the RCC slab including adjoining walls in height including cleaning the surface before treatment. brick bats with mortar using broken bricks/brick bats 25 5 mm size with 50% of cement mortar 1:5 (1 cement : 5 nd) admixed with water proofing compound conforming to and approved by Engineer-in-charge over 20 mm thick ment mortar of mix 1:5 (1 cement :5 coarse sand ) admixed proofing compound conforming to IS : 2645 and approved eer-in-charge to required slope and treating similarly the walls upto 300 mm height including rounding of junctions nd slabs c) After two days of proper curing applying a at of cement slurry using 2.75 kg/ sqm of cement admixed proofing compound conforming to IS : 2645 and approved eer-in-charge to required slope and treating similarly the walls upto 300 mm height including rounding of junctions nd slabs c) After two days of proper curing applying a at of cement slurry using 2.75 kg/ sqm of cement admixed proofing compound conforming to IS : 2645 and approved eer-in-charge. d) Finishing the surface with 20 mm thick		

Code No.	Description	Unit	Rate ₹
	jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :		
	22.7.1 With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	sqm	882.60
22.8	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 pea- sized gravel spread at 6 cubic diameter per square metre including preparation of surface but excluding grading complete with :		
	22.8.1 Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	sqm	291.40
22.9	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) conforming to IS : 1322 and sixth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic dm per sqm including preparation of surface but excluding grading, complete.	sqm	455.25
22.10	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.	sqm	502.40
22.11	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blow 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 dm per sqm including preparation of surface but excluding grading, complete.	sqm	502.65
22.12	Supplying and applying bituminous solution primer on roof and or wall surface at 0.24 litre per sqm.	sqm	28.50

Code No.	Descripti	ion	Unit	Rate ₹
22.13	Deduct for spreading			
	22.13.1	At 6 cudm per sqm	sqm	12.80
	22.13.2	at 8 cudm per sqm	sqm	16.25
22.14	Grading roof for water proofing treatment with			
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	5,021.05
	22.14.2	Cement mortar 1:3 (1 cement : 3 coarse sand)	cum	8,116.10
	22.14.3	Cement mortar 1:4 (1cement : 4 coarse sand)	cum	7,308.70
22.15	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) and finished neat (item of laying brick tiles shall be paid for separately).			412.20
22.16	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) and finished neat ( item of laying brick tiles shall be paid for separately).			314.80
22.17	Providing with APP over roof sqm, 2nd which sha to IS : 70	and laying in situ seven course water proofing treatment (Atactic Polypropylene) modified Polymeric memberane consisting of first coat of bitumen primer @ 0.40 Kg per I, 4th & 6th courses of bonding material @ 1.20 kg/sqm, all consist of blown type bitumen of grade 85/25 conforming 2, 3rd and 5th layers of roofing membrane APP modified comembrane 2.0 mm thick of 3.00 Kg/sqm weight consisting	sqm	

Code No.	Description	Unit	Rate ₹
	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) and finished neat (item of laying brick tiles shall be paid for separately).	sqm	511.85
22.18	Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrance, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrance manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane.		
	22.18.1 2mm (for corrugated roof sheets)	sqm	348.65
22.19	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :		
	22.19.1 3 mm thick	sqm	399.75
22.20	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscocity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and		

Code No.	Description	Unit	Rate ₹
	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. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :		
	22.20.1 3 mm thick	sqm	448.30
22.21	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.	sqm	64.55

## **SUB HEAD : 23.0**

# HORTICULTURE & & LAND SCAPING

Code No.	Description	Unit	Rate ₹
0103	Blacksmith 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0124	Mason (brick layer) 2nd class	day	361.00
0303	Cowdung	cum	48.00
0979	Royalty for good earth	cum	30.00
0980	Royalty for sludge	cum	90.00
1008	Flats up to 10 mm in thickness	quintal	4200.00
2201	Carriage of bricks	1000 Nos	284.39
2205	Carriage of steel	tonne	94.80
2241	Carriage of good earth	cum	133.30
2242	Carriage of dump manure	cum	115.92
2317	Carriage of sludge	cum	115.92
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	3800.00
2603	Common burnt clay F.P.S. (non modular) bricks class designation 5.0	1000 Nos	3500.00
9999	Sundries	L.S.	1.70

### **BASIC RATES (SH: 23.0 HORTICULTURE & LANDSCAPING)**

#### 23.0 HORTICULTURE & LANDSCAPING

Code No.	Descripti	on	Unit	Rate ₹
23.1	and stack soil, by s making u earth mixe	g in ordinary soil up to a depth of 60 cm including removal ing of serviceable materials and then disposing of surplus preading and neatly leveling within a lead of 50 m and to the trenched area to proper levels by filling with earth or ad with sludge or/and manure before and after flooding trench r (excluding cost of imported earth, sludge or manure).	cum	37.10
23.2		g and stacking of good earth at site including royalty and up to 1 km (earth measured in stacks will be reduced by ayment).	cum	308.35
23.3		Supplying and stacking sludge at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for		239.20
23.4	Supplying and stacking at site dump manure from approved source, including carriage up to 1 km (manure measured in stacks will be reduced by 8% for payment) :			
	23.4.1	Screened through sieve of I.S. designation 20 mm	cum	167.60
	23.4.2	Screened through sieve of I.S. designation 16 mm	cum	184.85
	23.4.3	Screened through sieve of I.S. designation 4.75 mm	cum	198.65
23.5	Rough dro	essing the trenched ground including breaking clods.	100sqm	71.80
23.6		g weeds from the trenched area after 10 to 15 days of its /ith water including disposal of uprooted vegetation.	100sqm	233.05
23.7	Fine dres	sing of the ground	100sqm	175.30
23.8	thickness	g of sludge, dump manure and / or good earth in required as per direction of Officer-in-charge (Cost of sludge, dump nd / or good earth to be paid separately).	cum	25.15
23.9	-	rth and sludge or manure in the required proportion specified d by the Officer-in-charge	cum	17.25
23.10	maintena thick lawr	with selection No.1 grass including watering and nce of the lawn for 30 days or more till the grass forms a n, free from weeds and fit for mowing including supplying h, if needed (the good earth shall be paid for separately).		
	23.10.1	In rows 5 cm apart in both directions	100sqm	841.25
	23.10.2	With grass Turf	100sqm	634.30
23.11	Renovating lawns including weeding, cheeling the grass, forking the ground, top dressing with sludge or manure, mixing the same with forked soil, watering and maintaining the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing and disposal of rubbish as directed, including supplying good earth if needed but excluding the cost of sludge or manure (the good			
		Il be paid for separately).	100sqm	1,626.75

Code No.	Descriptio	on	Unit	Rate ₹
23.12	of 60cm, re repeatedly uprooting	rank vegetation and weeds by digging the area to a depth emoving all weeds and other growth with roots by forking y, breaking clods, rough dressing, flooding with water, fresh growths after 10 to 15 days and then fine dressing g new grass, including disposal of all rubbish with all leads	100sqm	2,887.60
23.13	deep and t refilling the sludge or r earth after or manure earth if ne including s and surplu lead of 50	n of beds for hedging and shrubbery by excavating 60 cm renching the excavated base to a further depth of 30 cm, e excavated earth after breaking clods and mixing with manure in the ratio of 8:1 (8 parts of stacked volume of reduction by 20% : one part of stacked volume of sludge after reduction by 8%), flooding with water, filling with cessary, watering and finally fine dressing, leveling etc. tacking and disposal of materials declared unserviceable is earth by spreading and leveling as directed, within a m, lift up to 1.5 m complete (cost of sludge, manure or to be paid for separately).	cum	105.20
23.14	earth mixe parts of sta stacked vo dressing in all leads a	les in ordinary soil and refilling the same with the excavated ed with manure or sludge in the ratio of 2:1 by volume (2 acked volume of earth after reduction by 20% : 1 part of lume of manure after reduction by 8%) flooding with water, including removal of rubbish and surplus earth, if any, with and lifts (cost of manure, sludge or extra good earth if be paid for separately) :		
	23.14.1	Holes 1.2 m dia and 1.2 m deep	each	211.90
	23.14.2	Holes 90 cm dia, and 90 cm deep	each	90.90
	23.14.3	Holes 60 cm dia, and 60 cm deep	each	28.00
	23.14.4	Holes 45 cm dia, and 45 cm deep	each	12.15
23.15	and height two course cement : 6	circular tree guard in bricks, internal diameter 1.25 metre 1.2 metre above ground and 0.20 m below ground, bottom es laid dry and top three courses in cement mortar 1:6 (1 5 fine sand) and the intermediate courses being in dry nb masonry as per design complete :		
	23.15.1	With common burnt clay F.P.S. (non modular) bricks of class designation 5	each	1,241.55
23.16	high, abov nos 25 x 3 mm M.S. 1 required si painting tw and manu thick M.S.	and fixing M.S. flat iron tree guard 60 cm dia and 2 m e ground consisting 4 nos 25 x 6 mm, 2.25 m long and 8 mm 2 m long verticals M.S. flats, riveted to 3 nos 25 x 6 flat iron rings in two halves, fixing together at site with ix numbers of 8 mm dia. and 30 mm long bolts, including vo coats with synthetic enamel paint of approved brand facture over a coat of primer. One name plate of 1 mm sheet of size 250x100 mm shall be welded to the tree r the middle height and lettered CPWD / PWD/ any other		

Code No.	Descriptio	on	Unit	Rate ₹
	by embed depth of 2	name. The tree guard shall be suitably fixed to the ground ding four legs of tree guard in pits of suitable dia and to a 5 cm, refilling the pits with soil and ramming, complete in t as per satisfaction and direction of Officer-in-charge.	each	2,884.15
23.17	empty coa providing	ee guard 53 cm dia and 1.3 m high as per design from al tar drums, supplied free by the department, including and fixing 2 nos M.S. sheet rings 50 x 0.5 mm fixed with aplete in all respects including painting inside and outside ard with :		
	23.17.1	A coat of coal tar	each	230.90
	23.17.2	Two or more coats of synthetic enamel paint of approved quality shade over a priming coat	each	356.50
23.18	empty coa providing riveted to t 50 x 0.5 r	ee guard 53 cm dia and 2 m high as per design from al tar drums, supplied free by the department, including and fixing four legs 40 cm long of 30 x 3 mm M.S. flat tree guard and providing and fixing 2 nos. M.S. sheet rings mm fixed with rivets complete in all respects including hside and outside of tree guard with :		
	23.18.1	A coat of coal tar	each	444.90
	23.18.2	Two or more coats of synthetic enamel paint of approved brand and shade over a priming coat	each	638.25
23.19	refilling, co	th bricks laid dry length wise, including required excavation, onsolidating with hand packing and spreading surplus earth hin a lead of 50 m :		
	23.19.1	Common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	36.00
23.20	in trenche	ture of earth and sludge or manure in the desired proportion s, flooding with water and leveling (cost of supplying earth e or manure and mixing excluded).	cum	8.60
23.21	serviceab unservicea	on in dumped stones or malba including stacking of le and unserviceable material separately and disposal of able material, lead up to 50 m and lift up to 1.5 m, disposed		
00.00		be neatly dressed.	cum	241.50
23.22	unservice	on in bajri path including stacking of serviceable and eable material separately, lead up to 50 m and lift up to posed material to be neatly dressed.	cum	269.10
23.23	serviceab unservicea	n in water bound macadam road including stacking the le and unserviceable material separately and disposal of able material, lead up to 50 m and lift up to 1.5 m, disposed b be neatly dressed.	cum	331.15
23.24	-	he ground with water including making kiaries and ng the same.	100sqm	129.50

Code No.	Description	Unit	Rate ₹
23.25	Supplying and stacking of well decayed cow dung manure at site including royalty and carriage upto 1 km (Cow dung manure measured in stacks will reduced by 8% for Payment).	cum	190.40
23.26	Providing and fixing M. S. tree guard 45 cm square in plan, height 1.20 metre above ground level and 0.40 metre below ground level. The vertical members shall consist of four nos angle iron of size 25x25x3 mm, 1.8 m long, one at each corner and 8 nos flat iron of size 25x3 mm, 1.2 m long. The vertical mambers shall be welded to 4 nos 25x6 mm M. S. flats placed horizontally around the vertical member of the cage. One name plate of 1 mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered CPWD / PWD/ any other approved name. The tree guard shall be fixed to the ground by making suitable holes and by embedding four corners leg in the ground, including refilling the earth, compaction etc. complete. The tree guard shall be painted with two or more coats of synthetic enamel paint of approved brand and manufacture over a coat of primer, complete in all respect.	each	1,713.85
23.27	Providing and fixing M. S. tree guard 50 cm square in plan, height 1.40 metre above ground level and 0.50 metre below ground level. The vertical members shall consist of four nos of angle iron of size 25x25x5 mm 1.9 long, one at each corner and 8 nos flat iron of size 25x5 mm 1.4 long. The vertical members shall be welded to 4 nos 25x6 mm M. S. flats placed horizontally around the vertical member of the cage. One name plate of 1 mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered CPWD / PWD/ any other approved name. The tree guard shall be fixed to the ground by making suitable holes and by embedding four corners leg in the ground , including refilling the earth, compaction etc. complete. The tree guard shall be painted with two coats of paint of approved brand and manufacture over a coat of primer, complete in all respect.	each	2,689.95
23.28	Preparation of mounds of various size and shape by available excavated / supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of each layer, dressing etc., lead upto 50 meter and lift upto 1.5 m complete as per direction of Officer-in-charge.	cum	215.60
23.29	Providing Circular Cement Concrete pots of specified size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 6 mm nominal size), reinforced with 7 nos ( 3 nos horizontal & 4 nos vertical "U" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed surface, curing for specified period and stacking in required rows & height, all complete as per direction of Officer-in-charge.	Sum	210.00
	23.29.1 Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm	each	166.25

Code No.	Descript	ion	Unit	Rate ₹
	23.29.2	Top inside dia 30 cm, outer bottom dia 20 cm, total height 30 cm with wall thickness of 25.4 mm	each	121.75
23.30	cement c 4 graded nos. ( 3 n mm dia a cement p and stack	Square Cement Concrete pots of specified size, cast with concrete of nominal mix 1:2:4 (1 cement : 2 coarse sand : stone aggregate 6 mm nominal size), reinforced with 7 os horizontal & 4 nos vertical "U" shape) M.S. wires of 3.5 is per design, including required form work, finishing with bunning on exposed surface, curing for specified period king in required rows & height, all complete as per direction -in-charge.		
	23.30.1	Top inner width 35 cm, outer bottom width 25 cm, total height 35 cm and wall thickness 25.4 mm	each	200.55

## **SUB HEAD : 24.0**

# RAIN WATER HARVESTING & TUBEWELLS

#### **BASIC RATES (SH: 24.0 RAIN WATER HARVESTING & TUBEWELLS)**

Code No.	Description	Unit	Rate ₹
0005	Hire charges of Diesel Truck - 9 tonne	day	1700.00
0040	Air compressor 250 cfm with two leads for pneumatic cutters / hammers	day	1900.00
0080	Hire and running charges of drill machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary	dov	7500.00
0113	soil and operator) Chowkidar	day	7500.00 297.00
		day	
0114	Beldar	day	297.00
0123	Mason (brick layer) 1 st class	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
1235	Diesel oil	litre	48.63
7743	M.S. pipe 150 mm dia casing pipe	metre	1060.00
7744	M.S. pipe 200 mm dia casing pipe	metre	1300.00
7745	PVC blind pipe 150 mm dia as per IS: 12818	metre	500.00
7746	PVC blind pipe 200 mm dia as per IS: 12818	metre	750.00
7747	M.S. cap 150 mm dia	each	160.00
7748	M.S. cap 200 mm dia	each	200.00
7749	M.S bail plug 150 mm dia	each	200.00
7750	M.S bail plug 200 mm dia	each	220.00
7751	PVC slotted pipe 150 mm dia as per IS: 12818	metre	450.00
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	700.00
7753	Boulder 50 mm to 200 mm	cum	350.00
7754	Gravel 5 mm to 10 mm	cum	700.00
7755	Gravel 1.5 mm to 2 mm	cum	650.00
7756	Gravel 3 mm to 6 mm	cum	680.00
7757	M.S. pipe 100 mm dia casing pipe	metre	770.00
7758	uPVC blind pipe 100 mm dia as per IS: 12818	metre	360.00
7759	uPVC slotted pipe 100 mm dia as per IS: 12818	metre	380.00
7760	M.S. cap 100 mm dia	each	130.00
7761	M.S. bail plug 100 mm dia	each	160.00
7762	Precast R.C.C. perforated slab	each	800.00
7763	Water supply tanker of 5000 litre capacity	each	800.00
7764	M.S. socket 100 mm dia	each	180.00
7765	M.S. socket 150 mm dia	each	220.00
7766	M.S. socket 200 mm dia	each	280.00
7772	Pea Gravel	cum	750.00
9999	Sundries	L.S.	1.70

SUB HEAD -24.0 RAIN WATER HARVESTING & TUBEWELLS

Code No.	Descripti	on	Unit	Rate ₹
24.1	suitable n samples f bore log, i plants & m	illing bore well of required dia for casing/ strainer pipe, by nethod prescribed in IS: 2800 (part I), including collecting from different strata, preparing and submitting strata chart/ including hire & running charges of all equipments, tools, nachineries required for the job, all complete as per direction er -in-charge, upto 90 metre depth below ground level.		
	24.1.1	All types of soil		
	24.1.1.1	300 mm dia	metre	398.25
	24.1.1.2	350 mm dia	metre	435.60
	24.1.1.3	400 mm dia	metre	557.55
	24.1.2	Rocky strata including Boulders		
	24.1.2.1	300 mm dia	metre	891.65
	24.1.2.2	350 mm dia	metre	925.65
	24.1.2.3	400 mm dia	metre	1,044.45
24.2	suitable n samples f bore log, i plants & m	illing bore well of required dia for casing/ strainer pipe, by method prescribed in IS: 2800 (part I), including collecting from different strata, preparing and submitting strata chart/ including hire & running charges of all equipments, tools, machineries required for the job, all complete as per direction her -in-charge, beyond 90 metre & upto 150 metre depth und level.		
	24.2.1	All types of soil		
	24.2.1.1	300 mm dia	metre	464.60
	24.2.1.2	350 mm dia	metre	516.25
	24.2.1.3	400 mm dia	metre	696.95
	24.2.2	Rocky strata including Boulders		
	24.2.2.1	300 mm dia	metre	953.00
	24.2.2.2	350 mm dia	metre	982.90
	24.2.2.3	400 mm dia	metre	1,234.35
24.3	bore well required of labour cha	g, assembling, lowering and fixing in vertical position in , unplasticized PVC medium well casing (CM) pipe of dia, conforming to IS: 12818, including required hire and arges, fittings & accessories etc. all complete, for all depths, ection of Engineer -in-charge.		
	24.3.1	100 mm nominal size dia	metre	423.85
	24.3.2	150 mm nominal size dia	metre	586.65
	24.3.3	200 mm nominal size dia	metre	878.25
24.4		g, assembling, lowering and fixing in vertical position in unplasticized PVC medium well screen (RMS) pipes with		

#### 24.0 RAIN WATER HARVESTING & TUBEWELLS

SUB HEAD -24.0 RAIN WATER HARVESTING & TUBEWELLS

Code No.	Descript	ion	Unit	Rate ₹
	ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.			
	24.4.1	100 mm nominal size dia	metre	447.25
	24.4.2	150 mm nominal size dia	metre	528.60
	24.4.3	200 mm nominal size dia	metre	820.45
24.5	5 cm to 2	g, filling, spreading & leveling stone boulders of size range 20 cm, in recharge pit, in the required thickness, for all fts, all complete as per direction of Engineer-in-charge.	cum	494.75
24.6	10 mm, in required	g, filling, spreading & leveling gravels of size range 5 mm to n the recharge pit, over the existing layer of boulders, in thickness, for all leads & lifts, all complete as per direction		
	•	er-in-charge.	cum	901.25
24.7	range 1.5 gravel la	g, filling, spreading & leveling coarse sand of size 5 mm to 2 mm in recharge pit, in required thickness over yer, for all leads & lifts, all complete as per direction of -in-charge.	cum	843.20
24.8	Gravel pa including & sizes a	acking in tubewell construction in accordance with IS: 4097, providing gravel fine/ medium/ coarse, in required grading s per actual requirement, all complete as per direction of -in-charge.	cum	976.60
24.9	covers, h x 450x50 nos cross dia perfora with M.S.	g and fixing factory made precast RCC perforated drain aving concrete of strength not less than M-25, of size 1000 0 mm, reinforced with 8 mm dia four nos longitudinal & 9 s sectional T.M.T. hoop bars, including providing 50 mm ations @ 100 to 125 mm c/c, including providing edge binding flats of size 50 mm x 1.6 mm complete, all as per direction er-in-charge.	each	958.80
24.10	Supplying bore well screwed conformin with outsi brand an fittings &	g, assembling, lowering and fixing in vertical position in l, ERW (Electric Resistance Welded) FE 410 mild steel and socketed/ plain ended casing pipes of required dia, ng to IS: 4270, of reputed & approved make, including painted de surface with two coats of anticorrosive paint of approved d manufacture, including required hire & labour charges, accessories, all complete, for all depths, as per direction er-in-charge.		
	24.10.1	100 mm nominal size dia having minimum wall thickness 5.00 mm	metre	973.75
	24.10.2	150 mm nominal size dia having minimum wall thickness 5.00 mm	metre	1,329.20
	24.10.3	200 mm nominal size dia having minimum wall thickness 5.40 mm	metre	1,631.20
24.11	bore well (having s	g, assembling, lowering and fixing in vertical position in , ERW (Electric Resistance Welded) FE 410 plain slotted lot of size 1.6/3.2 mm) mild steel threaded and socketed / rel ended pipe (type A) of required dia, conforming to IS:		

SUB HEAD -24.0 RAIN WATER HARVESTING & TUBEWELLS

Code No.	Descripti	on	Unit	Rate ₹
	than 5.40 of anticorr including l	eputed and approved make, having wall thickness not less mm, including painted with outside surface with two coats osive bitumestic paint of approved brand and manufacture, hire & labour charges, fittings & accessories, all complete, ths, as per direction of Engineer -in-charge.		
	24.11.1	100 mm nominal size dia	metre	1,033.35
	24.11.2	150 mm nominal size dia	metre	1,408.70
	24.11.3	200 mm nominal size dia	metre	1,711.25
24.12	IS: 11189 sand cont compress fully devel other app step draw in approv including b	hent of tube well in accordance with IS : 2800 (part I) and to establish maximum rate of usable water yield without eent (beyond permissible limit), with required capacity air for, running the compressor for required time till well is loped, measuring yield of well by "V" notch method or any roved method, measuring static level & draw down etc. by down method, collecting water samples & getting tested ed laboratory, i/c disinfection of tubewell, all complete, hire & labour charges of air compressor, tools & accessories per requirement and direction of Engineer-in-charge.	hour	614.75
24.13	welded pla	and fixing suitable size threaded mild steel cap or spot ate to the top of bore well housing/ casing pipe, removable juirement, all complete for borewell of:		
	24.13.1	100 mm dia	each	158.55
	24.13.2	150 mm dia	each	195.15
	24.13.3	200 mm dia	each	243.90
24.14	housing p	and fixing M.S. clamp of required dia to the top of casing/ ipe of tubewell as per IS: 2800 (part I), including necessary its of required size complete.		
	24.14.1	100 mm clamp	each	1,092.20
	24.14.2	150 mm clamp	each	1,154.25
	24.14.3	200 mm clamp	each	1,310.15
24.15		and fixing Bail plug/ Bottom plug of required dia to the pipe assembly of tubewell as per IS:2800 (part I).		
	24.15.1	100 mm dia	each	195.70
	24.15.2	150 mm dia	each	242.15
		200 mm dia		

## **SUB HEAD : 25.0**

# CONSERVATION OF HERITAGE BUILDINGS

Code No.	Description	Unit	Rate ₹
0101	Bhisti	day	328.00
0103	Blacksmith 2nd class	day	361.00
0114	Beldar	day	297.00
0115	Coolie	day	297.00
0116	Fitter (grade 1)	day	393.00
0124	Mason (brick layer) 2nd class	day	361.00
0155*	Mason (average)	day	377.00
0159	Skilled torch operator for laying tack	day	393.00
0773	Unslaked lime	quintal	300.00
1034	Bolts and nuts up to 300 mm in length	quintal	5600.00
1182	Surkhi	cum	700.00
2205	Carriage of steel	tonne	94.80
4009	Mild steel tubes hot finished welded type	kilogram	52.00
7346	Double coupler	each	55.00
7387	Spigot for standard jointing	kilogram	45.00
7397	Base Jack	each	180.00
7398	Challies	each	800.00
7399	Cup locks	each	80.00
7767	Stone cleaning chemical approved by ASI	litre	165.00
7768	Water repallent chemical approved by ASI	litre	1587.00
7769	Stone surface strengthening chemical approved by ASI	litre	1020.00
7770	Turpentine oil	litre	68.00
7771	Liquid Amonia 5%	litre	161.00
7775	Sodium pentachlorophenate	kilogram	630.00
9999	Sundries	L.S.	1.70

### BASIC RATES (SH: 25.0 CONSERVATION OF HERITAGE BUILDINGS)

#### 25.0 CONSERVATION OF HERITAGE BUILDINGS

Code No.	Description	Unit	Rate ₹
25.1	Raking out joints of stone masonry surface to the required width and depth, with due care and precaution, by mechanical / manual means, including preparing and cleaning the surface for re-pointing/ refilling of joints, including disposal of rubbish to the dumping ground within 50 metre lead.	sqm	24.00
25.2	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, 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.	sqm	148.65
	<b>Note:-</b> (1) The elevational area of the scaffolding shall be measured for payment purpose.	·	
	(2) The payment will be made once only for execution of all items for such works.		
25.3	Cleaning the sand stone surface and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc., including providing, applying and washing the surface with liquid Ammonia Chemical of 5% solution and other chemical cleaning agent as approved by Archaeological Survey of India/ Engineer-in- charge, of approved brand and manufacturer, with the help of required scrubbers and also cleaning with machine operated water jet mixed with desired quantity of fine silica where ever required, without causing any scratching/ damage to the stone surface and finally washing the surface with clean water with the help of pressure jet machine, complete in all respect, including taking all precautions to safeguard ventilators, windows, doors etc. by suitable covering so as to avoid any damage to the building/ structure, all as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	74.35
25.4	Providing and applying antifungal wash treatment using 3% solution of sodium pentachlorophenate, of reputed brand and manufacturer, on cleaned sand stone surface at desired locations as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	31.20
25.5	Ruled / Flush pointing on Red sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime: 1.5 surkhi (50% red and 50% light yellow surkhi ):1/2 marble dust}. (The rate is inclusive of all materials & labours involved except		
	scaffolding).	sqm	130.25

SUBHEAD -25.0 CONSERVATION OF HERITAGE BUILDINGS

Code No.	Description	Unit	Rate ₹
25.6	Ruled/ Flush pointing on White sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime : 1.5 surkhi (15% dark red and 85% light yellow surkhi) : 1/2 marble dust}. (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	130.25
25.7	Applying two or more coat of Ethyl Silicate chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacturer, with brush or spray on the existing stone masonry surface till there is no further absorption of chemical by stone surface, including protecting the applied surface from direct sunlight by suitable means during application, all complete as per direction of the Engineer-in-Charge (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	262.25
25.8	Applying breathable, non-reactive, antifungal, and water repellant Silane/Siloxane chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacture, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical :12 Part of Turpentine oil), on the existing sand stone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per direction of Engineer-In-charge (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	79.25

## **SUB HEAD : 26.0**

# STRUCTURAL GLAZING AND ALUMINIUM COMPOSITE PANEL

Code No.	Description	Unit	Rate ₹
2605	Structural sealant - 6 mm x 12 mm	metre	31.60
2606	Spacer tape 6.4 mm thick x 6 mm wide	metre	18.00
2607	Weather Sealant - Non Staining (600 ml)	each	459.15
2608	Weather Sealant - Normal (300 ml)	each	143.20
2609	MS Brackets/Aluminium Alloy Brackets	kg	100.00
2610	Silicon Gasket in Kg (Above 50 g / m)	kg	601.25
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	160.00
2612	Anchor Fastner - M10	each	110.95
2613	SS Bolt with washer of sizes for structural glazing / ACP Cladding	each	35.00
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	5.00
2615	Protective Tape	metre	25.00
2616	GI flashing - 1.2 mm Thick	kg	66.00
2617	6 mm thick High performance glass	sqm	1910.00
2618	6 mm thick clear heat strengthened glass	sqm	770.00
2619	6 mm thick clear heat strengthened glass	each	145.00
2620	ARMS GS HD - TOP HUNG - 20"-TYPE P-COUPLE	pair	1570.80
2621	Connection Block	each	39.35
2622	Curtain wall striker	each	102.70
2623	Adjustable Fastening Pawl	each	38.25
2624	Corner drive	each	294.95
2625	Top wedge Block	each	136.55
2626	Glass wool Denisity 48 Kg / m3 with Black Glass Tissue (BGT)	sqm	230.00
2627	SS Screws - # 8 x 19	each	10.00
2628	Weather Sealant - DC 789	cartridge	135.00
2629	Cement Board	sqm	250.00
2630	Baker rod	metre	5.00
2631	4 mm thick ACP	sqm	1200.00
2632	Fire Stop	metre	561.95
2634	GI/Aluminium Sheet (0.8 mm thick)	kg	57.00
7306	Aluminium T or L sections	kilogram	200.00
7392	Powder coating 50 microns on aluminium sections	kilogram	64.00

#### BASIC RATES (SH: 26.0 STRUCTURAL GLAZING AND ALUMINIUM COMPOSITE PANEL

SUBHEAD -26.0 STRUCTURAL GLAZING AND ALUMINIUM COMPOSITE PANEL

Code No.	Description	Unit	Rate ₹
8654	Masking tape	metre	2.50
8945	4 Point façade glass bracket	Nos	3318.00
8946	2 Point façade glass bracket	Nos	1659.00
8947	1 Point façade glass bracket	Nos	1404.00
8948	Flate head bolt	Nos	651.00
8949	400 fin plate at top	Pair	5931.00
9999	Sundries	L.S.	1.70

#### 26.0 STRUCTURAL GLAZING AND ALUMINIUM COMPOSITE PANEL

Code No.	Description	Unit	Rate ₹
26.1	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	338.25
26.2	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:		
	a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:		
	b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimentional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.		
	c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.		
	d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.		

SUBHEAD -26.0 STRUCTURAL GLAZING AND ALUMINIUM COMPOSITE PANEL

### Code Description No.

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 Engineerin-Charge.

Unit

Rate ₹

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 subhead. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places.

Note:-2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accreditated by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories

1. Performance Laboratory Test for Air Leakage Test (-50pa to – 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr"

2. Static Water Penetration Test. (50pa to 1500pa) as per ASTME-331-09 testing method for a range up to 2000 ml."

3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01-05 testing method for a range upto 2000 ml"

SUBHEAD -26.0 STRUCTURAL GLAZING AND ALUMINIUM COMPOSITE PANEL

Code No.	Description	Unit	Rate ₹
	4. Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTME-330-10 testing method for a range upto 50 mm"		
	5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test" Tests to be conducted on site		
	6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000ml"	sqm	2.466.80
26.3	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthned clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.		
	(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25-0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	sqm	3,948.95
26.4	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-		
26 F	in-Charge.	sqm	3032.30
26.5	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		

#### SUBHEAD -26.0 STRUCTURAL GLAZING AND ALUMINIUM COMPOSITE PANEL

Code No.	Description	Unit	Rate ₹
	-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 # 1of 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	1631.10
26.6	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- in- Charge. 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 degree K etc The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	sqm	2862.40
26.7	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:		
	a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.		
	b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metalic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based		

SUBHEAD -26.0 STRUCTURAL GLAZING AND ALUMINIUM COMPOSITE PANEL

Code No.	Description	Unit	Rate ₹
	PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.		
	c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing		
	The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.	sqm	3,696.65
26.8	"Design supply & installation of suspended Spider Glozing system designed to withstand the wind pressure as pr 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.		

Code No.	Description	Unit	Rate ₹
	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. "	sqm	3429.90

# COEFFICIENTS FOR CEMENT CONSUMPTION

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
3.1	Cement Mortar 1:1 (1 cement : 1 fine sand).	cum	10.20
3.2	Cement mortar 1:2 (1 cement : 2 fine sand).	cum	6.80
3.3	Cement mortar 1:3 (1 cement : 3 fine sand).	cum	5.10
3.4	Cement mortar 1:4 (1 cement : 4 fine sand).	cum	3.80
3.5	Cement mortar 1:5 (1 cement : 5 fine sand).	cum	3.10
3.6	Cement mortar 1:6 (1 cement : 6 fine sand).	cum	2.50
3.7	Cement mortar 1:2 (1 cement : 2 coarse sand).	cum	6.80
3.8	Cement mortar 1:3 (1 cement : 3 coarse sand).	cum	5.10
3.9	Cement mortar 1:4 (1 cement : 4 coarse sand).	cum	3.80
3.10	Cement mortar 1:5 (1 cement : 5 coarse sand).	cum	3.10
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand).	cum	2.50
3.12	Cement mortar 1:2 (1 cement : 2 stone dust).	cum	6.80
3.13	Cement mortar 1:2 (1 cement : 2 marble dust).	cum	6.80
3.14	Cement mortar 1:5 (1 cement : 5 marble dust).	cum	3.10
3.15	White cement mortar 1:2 (1 white cement : 2 marble dust).	cum	6.80*
3.16	White cement mortar 1:3 (1 white cement : 3 marble dust).	cum	5.10*
3.17	White cement mortar 1:5 (1 white cement : 5 marble dust).	cum	3.10*

### 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 3.0 MORTAR

\* denotes the White Cement.

### 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 4.0 CONCRETE WORK

Code No.	Descri	otion	Unit	Quantity of cement per unit quantity of work (Quintals)
	CEMEN	NT CONCRETE (CAST-IN-SITU)		
4.1	P/L cer	nent concrete - all works upto plinth level :		
	4.1.1	1:1:2 (1 Cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	6.10
	4.1.2	1:1½:3 (1 Cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	4.00
	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	3.20
	4.1.4	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	cum	3.20
	4.1.5	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	2.20
	4.1.6	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	2.20
	4.1.7	1:3:6 (1 Cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)	cum	2.20
	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	1.70
	4.1.9	1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	cum	1.70
	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	cum	1.30
	4.1.11	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)	cum	1.30
	4.1.12	1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand : 9 graded stone aggregate 40 mm nominal size)	cum	1.70
	4.1.13	1:2½:4:11 (1 ordinary portland cement : 2½ fly ash : 4 coarse sand : 11 graded stone aggregate 40 mm nominal size)	cum	1.30
4.2	P/L cer	nent concrete in retaining walls, return walls etc.:		
	4.2.1	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	6.10
	4.2.2	1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	4.00

Code No.	Descri	ption	Unit	Quantity of cement per unit quantity of work (Quintals)
	4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	3.20
	4.2.4	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	cum	3.20
	4.2.5	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	2.20
	4.2.6	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	2.20
	4.2.7	1:3:6 (1 cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)	cum	2.20
	4.2.8	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	cum	1.30
4.4	P/L cer	ment concrete in kerbs, steps etc.:		
	4.4.1	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	3.20
	4.4.2	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	2.20
	CEMEI	NT CONCRETE (PRE-CAST)		
4.5	P/L pre coping	ecast cement concrete string or lacing courses, s etc.:		
	4.5.1	1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	4.05
	4.5.2	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	3.19
	4.5.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	2.19
4.6	P/L pre	ecast cement concrete in kerbs, edgings etc.:		
	4.6.1	1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	3.25
4.7	P/L pre	ecast cement concrete solid blocks:		
	4.7.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	3.76
	4.7.2	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	2.76
4.8	P/L pre	ecast cement concrete hollow blocks:		
	4.8.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	2.099
	4.8.2	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	1.693

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.:- 4.0 CONCRETE WORK

Code No.	Descript	ion	Unit	Quantity of cement per unit quantity of work (Quintals)
4.9	Precastir 600 mm l	ng and placing in position 125 mm dia Bollards high.	each	0.097
	DAMP-F	ROOF COURSE		
4.10	P/L D.P.0	C. 40 mm thick with C.C. (1:2:4).	sqm	0.13
4.11	P/L D.P.0	C. 50 mm thick with C.C. (1:2:4).	sqm	0.16
	MISCELI	ANEOUS		
4.17	Making p	linth protection 50 mm thick of cement concrete 1:3:6	sqm	0.11
4.19	P/L Read	ly mixed concrete using flyash:		
	4.19.1	All works upto plinth level		
	4.19.1.1	M-15 grade plain cement concrete	cum	2.40
	4.19.1.2	M-10 grade plain cement concrete	cum	2.20
	4.19.2	All works above plinth and upto floor V level		
	4.19.2.1	M-15 grade plain cement concrete	cum	2.40
	4.19.2.2	M-10 grade plain cement concrete	cum	2.20
4.20	P/L read	y mix plain cement concrete :		
	4.20.1	All works upto plinth level		
	4.20.1.1	M-15 grade plain cement concrete	cum	2.40
	4.20.1.2	M-10 grade plain cement concrete	cum	2.20
	4.20.2	All works above plinth and upto floor V level		
	4.20.2.1	M-15 grade plain cement concrete	cum	2.40
	4.20.2.2	M-10 grade plain cement concrete	cum	2.20

# 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 5.0 REINFORCED CEMENT CONCRETE

Code No.	Descr	iption	Unit	Quantity of cement per unit quantity of work (Quintals)
	CAST	-IN-SITU		
5.1	P/LR.	C.C. upto plinth level :		
	5.1.1	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	6.10
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	4.00
	5.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	3.20
5.2	R.C.C	work in walls etc.:		
	5.2.1	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	6.10
	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	4.00
	5.2.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	3.20
5.3	R.C.C	. (1:2:4) work in beams etc.	cum	3.20
5.4	R.C.C	. (1:2:4) work in kerbs, steps etc.	cum	3.20
5.5	R.C.C	. (1:2:4) work in arches,domes etc.	cum	3.20
5.6	R.C.C	. (1:2:4) work in chimneys & shafts.	cum	3.20
5.7	R.C.C	. (1:2:4) work in well-steining.	cum	3.20
5.8		. (1:1.5:3) work in vertical and horizontal fins individually ning box louvers, facias and eaves boards.	cum	4.00
	PRE -	CAST R.C.C.		
5.12		ecast R.C.C. (1:2:4) work in string courses, bands, gs, bed plates, anchor blocks, plain window sills etc.	cum	3.19
5.13		ecast R.C.C. (1:2:4) in small lintels not exceeding clear span.	cum	3.16
5.14		ecast R.C.C. (1:2:4) in mouldings as in cornices, ws sills etc.	cum	3.19
5.15	P/F pr	ecast R.C.C. (1:2:4) in lintels, beams and bressumers etc	. cum	3.19
5.16	P/F pr	ecast R.C.C. (1:2:4) in shelves.	cum	3.80
5.17		ecast R.C.C. (1:2:4) in vertical & horizontal fins individually hing box louvers.	, cum	4.36
5.18	Fixing	precast cement concrete Jali (1:2:4).		
	5.18.1	50 mm thick	100 sqm	1.64*

COEFFICIENTS FOR CEMENT CONSUMPTION S.H. -5.0 REINFORCED CEMENT CONCRETE

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	5.18.2 40 mm thick	100 sqm	1.64*
	5.18.3 25 mm thick	100 sqm	1.64*
	* Cement for fixing only.		
	ENCASING ROLLED STEEL SECTION		
5.19	Encasing rolled steel sections, in beams and columns, with cement concrete (1:2:4).	cum	3.20
5.20	Encasing rolled steel section in grillages with cement concrete (1:2:4).	cum	3.20
	MISCELLANEOUS		
5.23	Smooth finishing of exposed surface of R.C.C. work with 6 mm thick cement mortar (1:3).	100 sqm	3.67
5.24	Rendering smooth the top of suspended floors, landings and staircases with cement mortar (1:2).	100sqm	4.17
5.27	Providing and filling in position bitumen mix filler.	per cm dept per cm widtl per 100m	
	DESIGN MIX CONCRETE		
5.33	P/L Design mix concrete (M-25).	cum	3.30*
5.34	Extra for providing richer mixes at all floor levels :		
	5.34.1 Providing M-30 grade concrete instead of M-25 grade B.M.C/ R.M.C.	cum	0.10*
	5.34.2 Providing M-35 grade concrete instead of M-25 grade B.M.C./ R.M.C.	cum	0.20*
	5.34.3 Providing M-40 grade concrete instead of M-25 grade B.M.C./ R.M.C.	cum	0.30*
5.36	P/F precast R.C.C. in waffle units.	cum	4.16*
5.37	P/L RMC manufactured in fully automatic batching plant M-25 grade R.C.C.	cum	3.30*
5.40	P/L design mix cement concrete M-25 using Fly ash.	cum	3.30*
	* Actual weight for design mix will be worked out taking into consideration the cement requirement as per particular mix design.		
5:47:1	P/F factory made precast RCC M.40 doors & windows	Mtrs.	0.049
5:47:2	P/F factory made precast RCC M.40 doors & windows	Mtrs.	0.044
5:47:3	P/F factory made precast RCC M.40 doors & windows	Mtrs.	0.041
5.48	Providing and laying RCC for construction of piers abutments portal frames etc.	Cum.	4.80
5.49	Constructing cost insitu RCC diaphram wall by providing	Cum.	4.14

COEFFICIENTS FOR CEMENT CONSUMPTION S.H. -5.0 REINFORCED CEMENT CONCRETE

# 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 6.0 BRICK WORK

Code No.	Description	Unit Quantity of cement per unit quantity of work (Quintals)
6.1	Brick work in foundation & plinth with non modular bric	cks.
	6.1.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	) cum 0.95
	6.1.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	) cum 0.625
6.2	Brick work in foundation & plinth with modular bricks.	
	6.2.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	) cum 0.836
	6.2.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	) cum 0.55
6.3	Brick work with machine moulded perforated bricks.	
	6.3.1 With non modular bricks.	cum 0.625
	6.3.2 With modular bricks.	cum 0.55
6.4	Brick work in superstructure.	
	6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	) cum 0.95
	6.4.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	) cum 0.625
6.7	Half brick masonry in cement mortar (1:3) for closing c 5 to 7.5 cm wide in cavity wall.	cavity 100 metre 3.86
6.8	Brick work 7 cm in cement mortar (1:3).	100 sqm 9.23
6.9& 6.10	Brick work in plain & gauged arches in cement mortar	(1:3). cum 1.28
	HALF BRICK MASONRY	
6.12& 6.13	Half brick masonry in foundations & plinth and superst	tructure.
	6.12.1 Cement mortar 1:3 (1 cement : 3 coarse sand) & 6.13.1	) 100 sqm 14.28
	6.12.2 Cement mortar 1:4 (1 cement : 4 coarse sand) & 6.13.2	) 100 sqm 10.64
	BRICK TILE WORK	
6.16	Tile brick masonry in foundation and plinth. :	
	6.16.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	) cum 1.52
	6.16.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	) cum 1.00
6.17& 6.18	Tile brick masonry with m/c moulded tiles in cement m 1:6 (1 cement : 6 coarse sand).	nortar cum 1.00
6.20 &	Tile brick masonry with tile bricks in plain/gauged arch	
6.21	work in in cement mortar (1:4).	cum 1.33
6.22	Tile brick masonry work 5 cm thick in cement mortar (	(1:3). 100 sqm 7.65

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	HONEY COMB WORK		
6.23	Honey-comb brick work 10/11.4 cm thick in cement mortar 1:4. <b>EXPOSED BRICK WORK</b>	100 sqm	6.56
6.26	Brick work with selected bricks in cement mortar (1:6).	cum	0.625
6.27	Brick work with modular bricks in cement mortar (1:6).	cum	0.55
6.28	Brick work with machine moulded modular bricks in cement mortar (1:6).	cum	0.55
6.29	Brick work with m/c moulded F.P.S. bricks in cement mortar (1:6).	cum	0.625
6.30	Brick work with machine moulded perforated F.P.S. bricks in cement mortar (1:6).	cum	0.625
6.31	Brick work with machine moulded perforated modular bricks in cement mortar (1:6).	cum	0.55
6.32	Brick work with clay flyash F.P.S. brick.		
	6.32.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.95
	6.32.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.625
6.34	Brick work with non modular fly ash lime bricks (FALG Bricks) in :		
	6.34.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.95
	6.34.2 Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	0.625
6.35	Brick work with modular calcium silicate bricks machine moulded i	n :	
	6.35.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.836
	6.35.3 Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	0.55
6.36	Brick work with modular extruded burnt fly ash clay sewer bricks in :		
	6.36.1 Cement Mortar 1:4 (1 cement : 4 coarse sand)	cum	0.836
6.37	Brick work with modular extruded burnt fly ash clay sewer bricks in cement mortar (1:3).	cum	1.275
6.38	Autoclaved aerated cement blocks masonry with 100mm thick AAC blocks in cement mortar (1:4).	cum	0.57
6.44	Brick edging 7 cm wide in cement mortar (1:4).	100 metre	0.137
6.45	Half brick masonry with non modular FALG bricks.		
	6.45.1 Cement mortar 1:3 (1 cement :3 coarse sand).	100 sqm	14.28
	6.45.2 Cement mortar 1:4 (1 cement :4 coarse sand).	100 sqm	10.64

### 7.0 STONE WORK

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	RANDOM RUBBLE MASONRY		
7.1&	Random rubble masonry with cement mortar (1:6).	cum	0.825
7.2			
	COURSED RUBBLE MASONRY		
7.6	Coursed rubble masonry (first sort) with :		
	7.6.1 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.750
7.7	Coursed rubble masonry (second sort) with :		
	7.7.1 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.750
	ASHLAR MASONRY		
7.12	Stone work in plain ashlar in cement mortar (1:6) including pointing with white cement mortar (1:2).	cum	0.54
7.13& 7.14	Stone work plain ashlar in arches/domes in cement mortar (1:3) including pointing with white cement mortar (1:2).	cum	1.07
7.15	Stone work ashlar punched in cement mortar 1:6) including pointing with white cement mortar (1:2).	cum	0.54
	SUNK, MOULDED, CARVED ASHLAR MASONRY		
7.20	Stone work sunk and / or moulded including pointing with white cement mortar (1:2).	cum	0.54
	MISCELLANEOUS STONE WORK		
7.23	Stone work (machine cut edges) for wall lining etc. (veneer work) in cement mortar (1:3) including pointing in white cement mortar (1:2).	100 sqm	9.18 + 1.56*
7.25	P/F stainless steel cramps in stone wall lining in cement mortar (1:2).	kg	0.07
7.26	P/F stone dowels 10x5x2.50 cm in cement mortar (1:2).	each	0.007
7.27	P/F copper pins 7.5 cm long 6 mm diameter in stone wall lining in cement mortar (1:2).	each	0.007
7.28	P/F sloping chajja of stone 40 mm thick and upto 80 cm wide in cement mortar (1:4) i/c pointing in white cement mortar (1:2).	100 sqm	5.59
7.29	P/F horizontal chajja of stone 40 mm thick and upto 80 cm projection in cement mortar (1:4) i/c pointing in white cement mortar (1:2).	100 sqm	4.94 + 0.03*
7.30	P/F 30 mm red sand stone sun-shade with cement mortar 1:4 including finishing complete.	100 sqm	2.19
7.31	Providing and fixing red sand stone brackets 55x22.5x45cm.	100nos	3.02

COEFFICIENTS FOR CEMENT CONSUMPTION S.H -7.0 STONE WORK

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
7.32	Stone work, plain in copings, cornices, string courses etc. in Cement mortar 1:6 including pointing with white cement mortar (1:2).	cum	0.54
7.36	Wall lining butch work with Dholpur stone 40 mm thick, in cement mortar (1:3) including ruled pointing in cement mortar (1:2).	100 sqm	15.50 +1.70*
7.37	Stone work ( machine cut edges) for wall lining with grout of 12 mm thick in cement mortar (1:3) and jointed with Cement mortar (1:2).	100 sqm	13.744
7.38	Stone tile work for wall lining with 12 mm thick bed in cement mortar (1:3).	sqm	10.44 + 1.70*
	STONE WORK IN DRY CLADDING		
7.41	P/F structural steel frame (for dry stone cladding) embedded in brick wall with cement concrete block (1:2:4)	100kg	1.05

\* White cement

# 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 8.0 MARBLE & GRANITE WORK

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
8.1	Marble work 18 mm thick for wall lining in cement mortar 1:3 including pointing with white cement mortar 1:2.	5 100 sqm	8.67 + 1.70*
8.2	P/F 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters etc. laid over 20mm thick base cement mortar 1:4.		9.12
8.4	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. complete.	100 metre	1.27
8.7	P/F cramps in RCC/ CC backing with cement mortar 1:2 .		
	8.7.1 Gunmetal cramps	kg	0.0635
	8.7.2 Stainless steel cramps	kg	0.0701
8.9	Stone tile work for wall lining over 12mm thick bed of cement mortar (1:3) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.		10.44 + 1.90*
8.11	P/F Machine cut Mirror/edge polished	100 Sqm.	8.16 + 3.30*
8.12	P/L flamed finish granite stone flooring	100 sqm.	13.50

\* White cement

COEFFICIENTS FOR CEMENT CONSUMPTION S.H..: -8.0 MARBLE & GRANITE WORK

# 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 9.0 WOOD AND P.V.C. WORK

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	MISCELLANEOUS - WOOD WORK		
9.32	P/F 50x50x50 mm 2nd class teak wood plugs in cement mortar 1:3.	100 nos	0.01
9.34	P/F 2nd class teak wood plain lining with wooden plugs.	100 sqm	0.055
9.46	P/F curtain rods of 1.25 mm thick chromium plated brass brackets with wooden plugs, etc.	100 metre	0.01
9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets.	100 metre	0.01
9.53	Providing 40x5 mm flat iron hold fast 40 cm long with cement concrete block 30x10x15cm 1:3:6 mix.	100 nos	1.10

# 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 10.0 STEEL WORK

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
10.4	P/F 1 mm thick M.S. sheet sliding-shutters with frame.	100 sqm	0.35
10.5	P/F 1 mm thick M.S. sheet door with frame.	100 sqm	0.35
10.6	Supplying and fixing rolling shutters.	100 sqm	0.35
10.10.1 & 10.11.1	Fixing standard steel glaze door windows etc.	100 kg	0.13
10.13.1	P/F 'T' iron froms for doors windows & ventilators	100 kg	0.11
10.15	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with 15x3 mm lugs 10 cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 mix.	100 kg	0.28

#### 11.0 FLOORING

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
11.1	Brick on edge flooring.		
	11.1.1 1:4 (1 cement : 4 coarse sand)	sqm	0.1850
	11.1.2 1:6 (1cement : 6 coarse sand)	sqm	0.1285
11.3	Cement concrete flooring 1:2:4.		
	11.3.1 40mm thick with 20mm nominal size stone aggregate	sqm	0.17
11.4	52 mm thick cement concrete flooring.	sqm	0.231
11.5	62 mm thick cement concrete flooring.	sqm	0.263
11.6	Cement plaster skirting with cement mortar (1:3).	sqm	0.14
11.7	Cement concrete pavement with C.C. (1:2:4).	cum	3.20
	TERRAZO FLOORING		
11.9	40 mm thick marble chips flooring with under layer 34 mm thick cement concrete (1:2:4).		
	11.9.1 Dark shade pigment with ordinary cement	sqm	0.1695
	11.9.2 Light shade pigment with white cement	sqm	0.129+0.0405*
	11.9.3 Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	0.1492+0.0202*
	11.9.4 White cement without any pigment	sqm	0.129+0.0202*
	11.9.5 Light shade pigment with ordinary cement	sqm	0.1695
	11.9.6 Ordinary cement without any pigment	sqm	0.1695
11.10	40 mm thick marble chips flooring with under layer 31mm thick cement concrete 1:2:4.		
	11.10.1 Dark shade pigment with Ordinary cement	sqm	0.1783
	11.10.2 Light shade pigment with white cement	sqm	0.1205+0.0578*
	11.10.3 Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	0.1494+0.0289*
	11.10.4 White cement without any pigment	sqm	0.1205+0.0578*
	11.10.5 Light shade pigment with ordinary cement	sqm	0.1783
	11.10.6 Ordinary cement without any pigment	sqm	0.1783
11.11	40 mm thick marble chips flooring with under layer 28 mm thick cement concrete 1:2:4.		
	11.11.1 Dark shade pigment with ordinary cement	sqm	0.1907
	11.11.2 Light shade pigment with white cement	sqm	0.1097+0.081*
	11.11.3 Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	0.1502+0.0405*
	11.11.4 White cement without any pigment	sqm	0.1097+0.081*

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.-11.0 FLOORING

Code No.	Descripti	on	Unit	Quantity of cement per unit quantity of work (Quintals)
	11.11.5	Light shade pigment with ordinary cement	sqm	0.1097
	11.11.6	Ordinary cement without any pigment	sqm	0.1097
11.12	Marble ch	nips skirting :		
	11.12.1	18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand) :		
	11.12.1.1	Dark shade pigment with ordinary cement	sqm	0.1292
	11.12.1.2	Light shade pigment with white cement	sqm	0.0887+0.0405*
	11.12.1.3	Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	0.109+0.0203*
	11.12.1.4	White cement without any pigment	sqm	0.109+0.0405*
	11.12.1.5	Light shade pigment with ordinary cement	sqm	0.1292
	11.12.1.6	Ordinary cement without any pigment	sqm	0.1292
11.15	Crazy ma	rble stone flooring.		
	11.15.1	18 mm thick crazy marble stone white, black or as specified	sqm	0.1200+0.0405*
		* White Cement		
	TILE FLO	ORING		
11.16		errazo tiles 22mm thick in floors, and landings on ck bed of cement mortar (1:4).		
	11.16.1	Light shade using white cement	sqm	0.0895+0.044*
	11.16.2	Medium shade using 50%white cement and 50% ordinary cement	sqm	0.0917+0.0220*
	11.16.3	Dark shade using ordinary cement	sqm	0.0939
	11.16.4	Ordinary cement without any pigment	sqm	0.0939
11.18	Precast te of steps.	errazo tiles 22 mm thick in skirting and risers		
	11.18.1	Light shade using white cement.	sqm	0.0734+0.066*
	11.18.2	Medium shades using 50% white cement and 50% ordinary cement.	sqm	0.1064+0.033*
	11.18.3	Dark shade using ordinary cement	sqm	0.1394
	11.18.4	Ordinary cement without any pigment	sqm	0.1394
11.19		ed terrazo tiles 22 mm thick in floors on 20 mm of cement mortar (1:4).		
	11.19.1	Light shade using white cement	sqm	0.0895+0.044*
	11.19.2	Medium shade using 50% white cement, 50% ordinary cement	sqm	0.0917+0.024*
	11.19.3	Dark shade using ordinary cement	sqm	0.0939
	11.19.4	Ordinary cement without any pigment	sqm	0.0939

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.-11.0 FLOORING

Code No.	Descripti	on	Unit	Quantity of cement per unit quantity of work (Quintals)
11.20		ed precast cement concrete tiles 22 mm thick in on 20 mm thick bed of cement mortar (1:4).		
	11.20.1	Light shade using white cement	sqm	0.1291+0.066*
	11.20.2	Medium shade using 50% white cement 50% Grey cement	sqm	0.1621+0.033*
	11.20.3	Dark shade using ordinary cement	sqm	0.1951
	11.20.4	Ordinary cement without any pigment	sqm	0.1951
11.21	Providing	and fixing 10mm thick acid and or alkali resistant tiles.		
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)		
	11.21.1.1	Acid and alkali resistant tile	sqm	0.0786**
	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)		
	11.21.2.1	Acid and alkali resistant tile	sqm	0.0862**
11.22	Tile work marble tile	in skirting, risers of steps etc. with 8 mm thick e.	sqm	0.1044
	STONE F	LOORING		
11.23		one flooring with 18 mm thick marble stone over ick cement mortar (1:4).	sqm	0.13512
	KOTA ST	ONE FLOORING		
11.26	Kota ston mortar (1:	e slab flooring over 20 mm thick bed of cement 4).	sqm	0.1491
11.27		e slabs 20 mm thick in risers of steps, skirting etc. mm (average) thick cement mortar 1:3.	sqm	0.1374
	SAND ST	TONE FLOORING		
11.28		ck fine dressed stone flooring over 20 mm (average) e of cement mortar 1:5 with joints finished flush.	sqm	0.0775
11.29		ck fine dressed stone flooring over 20 mm (average) e of cement mortar 1:5 including pointing with ortar 1:2.	sqm	0.0931
11.30	base of ce	ck rubbed stone flooring over 20 mm (average) thick ement mortar 1:5 with joints 3mm thick, side buttered ent mortar 1:2.	sqm	0.0931
	CERAMIC	C GLAZED TILES		
11.36		uality ceramic glazed wall tiles over 12 mm thick ment Mortar (1:3).	sqm	0.1242
11.37	P/L ceran Mortar (1:	nic glazed floor tiles laid on 20 mm thick Cement 4).	sqm	0.1242
11.38		nic glazed floor tiles laid on 20mm thick bed of lortar (1:4).	sqm	0.1242
11.39& 11.40		ed Glazed Ceramic floor tiles laid on 20mm thick ortar (1:4).	sqm	0.1242

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.-11.0 FLOORING

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	VITRIFIED FLOOR TILES		
11.41	P/L vitrified floor tile laid on 20mm thick cement mortar (1:4).	sqm	0.1242
11.44	Crazy ceramic tile flooring.	sqm	0.0646
11.46	P/L vitrified tile in skirting in cement mortar (1:3).	sqm	0.088
11.51	P/L Machine cut, Mirror polished, Italian Marble stone flooring	Sqm.	0.085 + 0.05*
11.52	P/L Machine cut Mirror polished Marble stone flooring	Sqm.	0.085 + 0.05*

\* White cement

\*\* Acid alkali resistant cement.

#### 12.0 ROOFING

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
12.16	10 cm thick mud phaska with flat tile bricks grouted with cement mortar (1:3).	100 sqm	3.11
12.17	10cm thick mud phaska with machine moulded tile bricks grouted with cement mortar (1:3).	100 sqm	3.11
12.19	Providing and laying brick tiles over mumty roofs grouted with cement mortar (1:3).	100 sqm	9.13
12.20	Providing and laying pressed clay tiles on roofs jointed with cement mortar (1:4).	100 sqm	9.92
12.21	Providing gola 75x75 mm in cement concrete (1:2:4).	metre	0.031
12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete (1:2:4).	each	0.06
12.23	Providing sand stone slab for roofing and laying cement mortar (1 : 4).	100 sqm	0.74
12.38	Providing and fixing M.S. holder bat clamps in cement concrete blocks 10x10x10cm of 1:2:4 mix.	each	0.005
12.55	P/F heat resistant tile on roof with cement mortar (1:4) and filling joints with white cement marble mix.	sqm	0.1367

\* White cement

### **13.0 FINISHING**

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	CEMENT PLASTER (IN FINE SAND)		
13.1	12 mm cement plaster:		
	13.1.1 1:4 (1 cement : 4 fine sand)	100 sqm	5.47
	13.1.2 1:6 (1 cement : 6 fine sand)	100 sqm	3.60
13.2	15 mm cement plaster:		
	13.2.1 1:4 (1 cement : 4 fine sand)	100 sqm	6.54
	13.2.2 1:6 (1 cement : 6 fine sand)	100 sqm	4.30
13.3	20 mm cement plaster :		
	13.3.1 1:4 (1 cement : 4 fine sand)	100 sqm	8.51
	13.3.2 1:6 (1 cement : 6 fine sand)	100 sqm	5.60
	CEMENT PLASTER (IN COARSE SAND)		
13.4	12 mm cement plaster :		
	13.4.1 1:4 (1 cement : 4 coarse sand)	100 sqm	5.47
	13.4.2 1:6 (1 cement : 6 coarse sand)	100 sqm	3.60
13.5	15 mm cement plaster :		
	13.5.1 1:4 (1 cement : 4 coarse sand)	100 sqm	6.54
	13.5.2 1:6 (1 cement : 6 coarse sand)	100 sqm	4.30
13.6	20 mm cement plaster :		
	13.6.1 1:4 (1 cement : 4 coarse sand)	100 sqm	8.51
	13.6.2 1:6 (1 cement : 6 coarse sand)	100 sqm	5.60
	CEMENT PLASTER WITH A FLOATING COAT OF NEAT CEMENT		
13.7	12 mm cement plaster finished with a floating coat of neat cement :		
	13.7.1 1:3 (1 cement : 3 fine sand)	100 sqm	9.54
	13.7.2 1:4 (1 cement : 4 fine sand)	100 sqm	7.67
13.8	15 mm cement plaster finished with a floating coat of neat cement :		
	13.8.1 1:3 (1 cement : 3 fine sand)	100 sqm	10.97
	13.8.2 1:4 (1 cement : 4 fine sand)	100 sqm	8.74
13.9	Cement plaster (1:3) finished with a floating coat of neat cement.		
	13.9.1 12 mm Cement Plaster	100 sqm	9.54
	13.9.2 20 mm Cement Plaster	100 sqm	13.62

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.: -13.0 FINISHING

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
13.10	15 mm cement plaster (1:3) finished with a floating coat of neat cement.	100 sqm	10.97
	CEMENT PLASTER IN TWO COATS		
13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 finished with a top layer 6mm thick cement plaster 1:6.	100 sqm	6.26
13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 and a top layer 6mm thick cement plaster (1:3).	100 sqm	8.13
13.13	12 mm cement plaster 1:2 (1 cement : 2 stone dust).	100 sqm	9.79
13.14	15 mm cement plaster 1:2 (1 cement : 2 stone dust).	100 sqm	11.70
13.15	20 mm cement plaster 1:2 (1 cement : 2 stone dust).	100 sqm	15.23
	6 MM CEMENT PLASTER	-	
13.16	6 mm cement plaster of mix :		
	13.16.1 1:3 (1 cement : 3 fine sand)	100 sqm	3.67
13.17	6 mm cement plaster (1:3) finished with a floating coat of neat cement.	100 sqm	5.87
13.18	Neat cement punning	100 sqm	2.20
	ROUGH CAST PLASTER		
13.19	Rough cast plaster in two layers, under layer 12 mm cement plaster (1:4) and top layer 10mm cement plaster (1:3).	100 sqm	11.59
	PEBBLE DASH PLASTER		
13.20	Pebble dash plaster in two layers, under layer 12mm cement plaster 1:4 and top layer 10mm cement plaster with cement mortar (1:3).	100 sqm	11.59
	PLAIN CEMENT MORTAR BANDS		
13.28	12 mm thick plain cement mortar bands in cement mortar (1:4) : (Flush /Sunk / Raised / Moulded Band).	100 metre 1cm wide	0.053
13.29	18 mm thick plain cement mortar band in cement mortar (1:4).	100 metre 1cm wide	0.076
13.30	18 mm thick moulded cement mortar band in two coats under layer 12mm thick with cement mortar 1:5, top layer 6mm thick with cement mortar (1:4).	100 metre 1cm wide	0.07
	POINTING OF BRICK WORK		
13.31	Pointing on brick work with cement mortar (1:3):		
	13.31.1 Flush / Ruled/ Struck or weathered pointing	100 sqm	1.53
	13.31.2 Raised and cut pointing	100 sqm	2.04

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.: -13.0 FINISHING

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	POINTING ON TILE BRICK WORK		
13.32	Pointing on tile brick work with cement mortar (1:3).		
	13.32.1 Flush/ Ruled/ Struck or weathered pointing	100 sqm	2.35
	POINTING ON STONE WORK		
13.33	Pointing on stone work with cement mortar (1:3).		
	13.33.1 Flush/ Ruled pointing	100 sqm	1.17
	13.33.2 Raised and cut pointing	100 sqm	2.35
13.34	Raised and cut pointing on stone work in white cement mortar (1:3).	100 sqm	2.35*
13.35	Pointing on stone slab ceiling with cement mortar (1:2).	100 sqm	1.02
13.72	Washed stone grit plaster on exterior walls in two layers, under layer 12mm cement plaster (1:4), top layer 15mm cement plaster 1:1/2:2.	100 sqm	17.472
	<b>Note: -</b> cement consumption for pointing is same for modular & non modular bricks.		

\* White cement

# 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 14.0 REPAIR TO BUILDING

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches with cement mortar 1:4.	100 sqm	6.95
14.2	Fixing chowkhats in existing opening with hold fasts in cement concrete blocks with cement concrete 1:3:6.		
	14.2.1 Door chowkhats	each	0.12
	14.2.2 Window chowkhats	each	0.06
	14.2.3 Clerestory window chowkhats	each	0.03
14.12	Providing and fixing 16 mm M.S. Fan clamps in existing R.C.C. slab.	each	0.016
14.13	Regrading terracing of mud phaska to proper slope.	100 sqm	3.11
14.14	Replacing sand stone slabs in roofing in cement mortar 1:4.	100 sqm	0.78
14.15	Renewing wooden battens in roofs & making good the holes in walls.	cum	0.36
14.16	Renewing wooden beams in roofs & making good the holes in walls.	cum	0.13
14.18	Flush pointing with cement mortar 1:3 for flat tile bricks on top of mud phaska.	100 sqm	0.76

#### 16.0 ROAD WORK

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	FENCING		
16.23	P/F boundary stone including finishing smooth with cement mortar (1:3).	each	0.082
16.24	P/F precast R.C.C. kilometre stone including finishing smooth in cement mortar (1:3).		
	16.24.1 35x111x25 cm size	each	0.37
	16.24.2 50x152.5x25 cm size	each	0.698
	16.24.3 35x93.5x18 cm size	each	0.23
	CONCRETE PAVEMENT		
16.42	Cement concrete (1:2:4) in pavements.	cum	3.20
16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix.	cum	3.40
	MISCELLANEOUS		
16.49	Making bell mouth opening including providing cement concrete (1:3:6) & plastering with cement mortar (1:3).	10 nos	6.60
16.52	Providing and fixing precast lime fly ash concrete blocks including finishing with 10mm thick cement mortar (1:3), in foot paths.	sqm	0.05
16.63	P/L kerb channel 30cm wide and 50mm thick of cement concrete (1:3:6).	metre	0.11
16.67	Providing and fixing factory made RCC pavement slab of M-30 grade in footpath over a bed of 20mm average thick cement mortar (1:5).	100 sqm	7.75
16.69	Providing and laying factory made kerb stone of M-25 grade jointed with cement mortar (1:3).	cum	0.05
16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete.	cum	3.30
16.80	Dry lean cement concrete sub base.	cum	1.50
16.85	Laying old kerb stones, jointed with cement mortar (1:3).	100 metre	0.3723
16.86	P/L gaug saw cut 18 mm thick, morror polished	Sqm.	0.09
16.87	P/L gaug saw cut 30 mm thick mirror polished	Sqm.	0.09
16.88	P/L Matt finished vitrified tile of size	Sqm.	0.12
16.89	P/L Matt finished vitrifid tile of size	Sqm.	0.12
16.90	P/L tactile tile	Sqm.	0.12
16.92	P/F 10x10x7.5 cm. granite stone block	Sqm.	1.85

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.: -16.0 ROAD WORK

# 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 17.0 SANITARY INSTALLATIONS

Code No.	Descri	ption	Unit	Quantity of cement per unit quantity of work (Quintals)
17.1/17.2/ 17.3	Fixing	Indian type W.C. pan.	each	0.05
17.4	Fixing	white vitreous china urinal basin :		
	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	each	0.025
	17.4.2	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	each	0.04
	17.4.3	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern	each	0.067
	17.4.4	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern	each	0.095
17.5	Fixing	white vitreous china flat back half stall urinal :		
	17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	each	0.051
	17.5.2	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern	each	0.102
	17.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	0.153
	17.5.4	Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	0.203
17.6	Fixing	one piece construction white vitreous china squatting plate :		
	17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern	each	0.051
	17.6.2	Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern	each	0.102
	17.6.3	Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern	each	0.153
	17.6.4	Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern	each	0.203
17.7	Fixing	wash basin with C.I. brackets.	each	0.025
17.8	Fixing	white vitreous china pedestal for wash basin.	each	0.016*
17.9/ 17.10/ 17.11	Fixing	kitchen sink with C.I. brackets.	each	0.025
17.12	Fixing	draining board with C.I. brackets.	each	0.014
17.13	Fixing	White vitreous china water closet squatting pan.	each	0.025
17.17	Fixing	a pair of white vitreous china foot rests.	each	0.025
17.23	Fixing	white vitreous china flat urinal basin.	each	0.01

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.: -17.0 SANITARY INSTALLATIONS

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
17.24	Fixing white vitreous china squatting plate urinal.	each	0.02
17.25	Fixing white vitreous china wash basin.	each	0.015
17.26/ 17.27	Fixing kitchen sink.	each	0.015
17.37	Providing and fixing M.S. holder-bat clamps.	each	0.005
17.59	Providing and fixing M.S. stays and clamps.	each	0.005
17.60	Providing and fixing trap of self-cleansing design.	each	0.025
17.61	Cutting chases in brick masonry walls for sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with C.C.(1:3:6).		
	17.61.1 100 mm dia	100 metre	5.40
	17.61.2 75 mm dia	100 metre	3.70
	17.61.3 50 mm dia	100 metre	1.87

\* White Cement.

# 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 18.0 WATER SUPPLY

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
18.1/18.4/	Providing and fixing G.I./ PE-AL-PE/ PP-R pipes.		
18.7/18.10	Internal work - Exposed on wall		
	18.10.1 15 mm dia nominal bore	100 metre	0.05
	18.10.2 20 mm dia nominal bore	100 metre	0.06
	18.10.3 25 mm dia nominal bore	100 metre	0.07
	18.10.4 32 mm dia nominal bore	100 metre	0.075
	18.10.5 40 mm dia nominal bore	100 metre	0.08
	18.10.6 50 mm dia nominal bore	100 metre	0.08
18.2/18.5/	P/F concealed pipes.	100 metre	0.88
18.8/18.11			
18.32	Constructing masonry Chamber 30x30x50 cm, for stop cock.	each	0.26
18.33	Constructing masonry Chamber 60x60x75 cm, for sluice valve.	each	1.44
18.34	Constructing masonry Chamber 90x90x100 cm, for sluice valve.	each	2.48
18.35	Constructing masonry Chamber 120x120x100 cm, for sluice valve.	each	3.50
18.36	Constructing masonry Chamber 60x60x75 cm, for fire hydrants. each	each	1.30
18.37	Constructing masonry Chamber 60x45x50 cm, for water meter.	each	1.34
18.76	Cutting holes up to 30x30 cm in walls including making good the same.	100 nos.	2.92
18.77	Cutting holes up to 15x15 cm in R.C.C. floors and roofs and repairing the hole after insertion of drain pipes etc. with cement concrete (1:2:4).	100 nos.	0.70
18.78	Making chases up to 7.5x7.5 cm in walls i/c finishing.	100 metre	0.88
18.79	Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete (1:3:6).	100 metre	4.90

Code No.	Descrip	tion	Unit	Quantity of cement per unit quantity of work (Quintals)
19.1		glazed stoneware pipes with stiff mixture of cement n the proportion of (1:1).		
	19.1.1	100 mm diameter	100 metre	2.17
	19.1.2	150 mm diameter	100 metre	3.23
	19.1.3	200 mm diameter	100 metre	4.33
	19.1.5	250 mm diameter	100 metre	5.40
	19.1.6	300 mm diameter	100 metre	6.47
19.2	Laying	cement concrete (1:5:10) alround S.W. pipes:		
	19.2.1	100 mm diameter S.W. pipe	100 metre	19.24
	19.2.2	150 mm diameter S.W. pipe	100 metre	23.53
	19.2.3	200 mm diameter S.W. pipe	100 metre	27.43
	19.2.5	250 mm diameter S.W. pipe	100 metre	31.72
19.3	Laying o S.W. pip	cement concrete (1:5:10) upto haunches of bes:		
	19.3.1	100 mm diameter S.W. pipe	100 metre	9.14
	19.3.2	150 mm diameter S.W. pipe	100 metre	14.82
	19.3.3	200 mm diameter S.W. pipe	100 metre	17.42
	19.3.5	250 mm diameter S.W. pipe	100 metre	20.28
	19.3.6	300 mm diameter S.W. pipe	100 metre	23.40
19.4	Providir	ng and fixing square-mouth S.W. gully trap :		
	19.4.1	100x100 mm size P type	each	0.27
	19.4.2	150 x 100 mm size P type.	each	0.26
	19.4.3	180x150 mm size P type	each	0.25
19.6		2 class R.C.C. pipes with collars jointed with ture of cement mortar in the proportion of (1:2):		
	19.6.1	100 mm dia. R.C.C. pipe	100 metre	0.50
	19.6.2	150 mm dia. R.C.C. pipe	100 metre	0.60
	19.6.3	250 mm dia. R.C.C. pipe	100 metre	0.90
	19.6.4	300 mm dia. R.C.C. pipe	100 metre	1.10
	19.6.5	450 mm dia. R.C.C. pipe	100 metre	2.40
	19.6.6	500 mm dia. R.C.C. pipe	100 metre	2.60
	19.6.7	600 mm dia. R.C.C. pipe	100 metre	3.20
	19.6.8	700 mm dia. R.C.C. pipe	100 metre	3.70
	19.6.9	800 mm dia. R.C.C. pipe	100 metre	4.20

#### **19.0 DRAINAGE**

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.:. -19.0 DRAINAGE

Code No.	Descripti	on	Unit	Quantity of cement per unit quantity of work (Quintals)
	19.6.10	900 mm dia. R.C.C. pipe	100 metre	4.90
	19.6.11	1000 mm dia. R.C.C. pipe	100 metre	5.50
	19.6.12	1100 mm dia. R.C.C. pipe	100 metre	6.10
	19.6.13	1200 mm dia. R.C.C. pipe	100 metre	6.80
19.7	Constructi	ng brick masonry manhole in cement mortar (1:4).		
	19.7.1	Inside size 90x80 cm and 45 cm deep	each	2.92
	19.7.2&	Inside size 120x90 cm and 90 cm.deep		
	19.7.3		each	4.73
19.8	Extra for o	depth for manholes		
	19.8.1	Size 90x80 cm	metre	1.26
	19.8.2	Size 120x90 cm	metre	1.52
19.9		ting brick masonry circular type manhole 0.91 m ia at bottom and 0.56m dia at top in cement 4).		
	19.9.1	0.91 m deep	each	2.75
19.10		th for circular type manhole 0.91m internal dia n) with beyond 0.91m to 1.67m	metre	1.40
19.11		ing brick masonry circular manhole 1.22m ia at bottom and 0.56m dia at top in cement 4).		
	19.11.1	1.68 m deep	each	5.39
19.12		th for circular type manhole 1.22m internal dia າ) beyond 1.68 m to 2.29 m.	metre	1.43
19.13		ting brick masonry circular manhole 1.52 m internal tom and 0.56 m dia at top in cement mortar (1:4).		
	19.13.1	2.30 m deep	each	10.86
19.14		th for circular type manhole 1.52 m internal dia n) beyond 2.30 m.	metre	3.11
19.15		M.S. foot rests including fixing in manholes with 0 cm cement concrete blocks (1:3:6).	100 nos.	0.88
19.16	Providing	orange colour safety foot rest.	100 nos	1.98
19.17		nent of M.S. foot rests in manholes with ) cm C.C. blocks (1:3:6) mix.	100 nos	0.88
19.19	Providing cover and	and fixing in position precast R.C.C. manhole frame.		
	19.19.1	L D- 2.5		
	19.19.1.1	Rectangular shape 600x450mm internal dimensions	each	0.128
	19.19.1.2	Square shape 450mm internal dimensions	each	0.096
	19.19.1.3	Circular shape 450mm internal diameter	each	0.096

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.:. -19.0 DRAINAGE

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	19.19.2 M D - 10		
	19.19.2.1 Square shape 450mm internal dimension	each	0.128
	19.19.2.2 Circular shape 500mm internal diameter	each	0.096
	19.19.3 H D - 20		
	19.19.3.1 Circular shape 560 mm internal diameter	each	0.096
	19.19.4 EHD - 35		
	19.19.4.1 Circular shape 560 mm internal dia	each	0.096
19.21	Making connection of drain or sewer line with existing manhole and making good the walls, floors with C.C.(1:2:4) mix.		
	19.21.1 For pipes 100 to 250 mm diameter	each	0.056
	19.21.2 For pipes 250 to 300 mm diameter	each	0.095
	19.21.3 For pipes 350 to 450 mm diameter	each	0.153
19.22	Providing sand cast iron drop connection externally for 60 cm drop from branch sewer line to main sewer manhole. :		
	19.22.1 100 mm dia sand cast iron drop connection	each	0.34
	19.22.2 150 mm dia sand cast iron drop connection	each	0.46
19.23	Extra for depths beyond 60 cm of sand cast iron drop connection. :		
	19.23.1 For 100 mm dia. sand cast iron drop connection	metre	0.21
	19.23.2 For 150 mm dia. sand cast iron drop connection	metre	0.26
19.27	Constructing brick masonry road gully chamber 50x45x 60cm in cement mortar (1:4).	each	0.93
19.28	Constructing brick masonry road gully chamber 45x45x 77.5 cm in cement mortar (1:4).	each	0.82
19.29	Constructing brick masonry road gully chamber 110x50x 77.5 cm in cement mortar (1:4).	each	1.66
19.30	Constructing brick masonry chamber for underground C.I. inspection chamber and bends in cement mortar (1:4).		
	19.30.1 Inside dimensions 455x610 mm and 45 cm deep for single pipe line	each	0.90
	19.30.2 Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets	each	1.02
	19.30.3 Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets	each	1.27
19.31	Extra for depth beyond 45 cm of brick masonry chamber :		
	19.31.1 For 455x610 mm size	metre	0.87
	19.31.2 For 500x700 mm size	metre	0.95
	19.31.3 For 600x850 mm size	metre	1.12

COEFFICIENTS FOR CEMENT CONSUMPTION S.H.:. -19.0 DRAINAGE

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
19.32	Making soak pit 2.5 m diameter 3.0 metre deep.	each	0.072
19.34	Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar (1:1).		
	19.34.1 100 mm dia	each	0.013
	19.34.2 150 mm dia	each	0.019
19.35	P/L Non pressure Np-3 class		
	19:35:1 a) 450 mm dia RCC pipe	100 Mtrs.	1.20
	19:35:2 a) 600 mm dia R.C.C. pipe	100 mtrs.	1.60
	19:35:3 a) 900 mm dia R.C.C. pipe	100 mtrs.	2.50
	19:35:4 a) 1000 mm dia RCC pipe	100 mtrs.	2.80
	19:35:5 a) 1200 mm dia RCC pipe	100 mtrs.	3.40
	19:35:6 a) 1800 mm dia RCC pipe	100 mtrs.	4.90
19:36	P/L Non pressure Np-4 class		
	19:36:1 450 mm dia RCC pipes	100 mtrs.	1.20
	19:36:2 600 mm dia RCC pipes	100 mtrs.	1.60
	19:36:3 900 mm dia RCC pipes	100 mtrs.	2.50
	19:36:4 1000 mm dia RCC pipes	100 mtrs.	2.80
	19:36:5 1200 mm dia RCC pipes	100 mtrs.	3.40
	19:36:6 1800 mm dia RCC pipes	100 mtrs.	4.90

Code No.	Descrip	tion	Unit	Quantity of cement per unit quantity of work (Quintals)
20.1		g, driving and installing driven cast-in-situ reinforced concrete piles of grade M -25.		
	20.1.1	400 mm dia piles	metre	0.414
	20.1.2	450 mm dia piles	metre	0.525
	20.1.3	500 mm dia piles	metre	0.648
	20.1.4	550 mm dia piles	metre	0.784
	20.1.5	750 mm dia piles.	metre	1.456
	20.1.6	1000 mm dia piles	metre	2.590
	20.1.7	1200 mm dia piles	metre	3.729
	20.1.8	1500 mm dia piles	metre	5.83
20.2		providing and installing bored cast-in-situ reinforced concrete piles of grade M -25.		
	20.2.1	300 mm dia piles	metre	0.232
	20.2.2	400 mm dia piles	metre	0.414
	20.2.3	450 mm dia piles	metre	0.525
	20.2.4	500 mm dia. piles	metre	0.648
	20.2.5	600 mm dia piles	metre	0.932
	20.2.6	750 mm dia piles.	metre	1.456
	20.2.7	1000 mm dia piles	metre	2.590
	20.2.8	1200 mm dia piles	metre	3.729
	20.2.9	1500 mm dia pile	metre	5.830
20.3	-	Providing and installing cast in situ single under piles of grade M -25.		
	20.3.1	300 mm dia piles	metre	0.257
	20.3.2	400 mm dia piles	metre	0.488
	20.3.3	450 mm dia piles	metre	0.629
	20.3.4	550 mm dia piles	metre	0.792
20.4	Extra for	r providing additional bulb in under reamed piles.		
	20.4.1	300mm dia piles	each	0.109
	20.4.2	400mm dia piles	each	0.208
	20.4.3	450 mm dia piles	each	0.267
	20.4.4	550 mm dia piles	each	0.396
20.5		g, driving and installing driven Pre-cast reinforced concrete piles of grade M -25.		

#### 20.0 PILE WORK

COEFFICIENTS FOR CEMENT CONSUMPTION S.H. -20.0 PILE WORK

Code No.	Descrip	tion	Unit	Quantity of cement per unit quantity of work (Quintals)
	20.5.1	400 mm dia piles	metre	0.414
	20.5.2	450 mm dia piles	metre	0.525
	20.5.3	500 mm dia piles	metre	0.648
	20.5.4	550 mm dia piles	metre	0.784
	20.5.5	750 mm dia piles	metre	1.795
	20.5.6	1000 mm dia piles	metre	2.590

#### **22.0 WATER PROOFING**

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
22.1	P/L integral cement based treatment for water proofing on horizontal surface. :		
	22.1.1 Using rough kota stone	sqm	0.342
22.2	P/L integral cement based treatment for water proofing on the vertical surface. :		
	22.2.1 Using rough Kota stone	sqm	0.443
22.3	P/L water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:		
	i) Ist course of applying cement slurry @ 4.4 kg/sqm		
	ii) IInd course of 20mm cement plaster (1:3)		
	<li>iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area</li>		
	iv) IVth course of 400 micron thick PVC sheet	sqm	0.158
22.5	P/L water proofing treatment in sunken portion of WCs, bathroom etc.	sqm	0.0123
22.6	P/L water proofing treatment on roofs.	sqm	0.0195
22.7	P/L integral cement based water proofing treatment on roofs, balconies, terraces etc. :		
	22.7.1 With average thickness of 120mm and minimum thickness at khurra as 65 mm	sqm	0.387
22.14	Grading roof for water proofing treatment with		
	22.14.1 Cement concrete 1:2:4	cum	3.20
	22.14.2 Cement mortar 1:3	cum	5.10
	22.14.3 Cement mortar 1:4	cum	3.80

# 1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 23.0 HORTICULTURE & LANDSCAPING

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
23.30	Providing circular cement concrete pots.	100 nos	4.00
23.31	Providing square cement concrete pots.	100 nos	2.30

# COEFFICIENTS FOR BITUMEN CONSUMPTION

## 2.0 COEFFICIENT FOR BITUMEN CONSUMPTION

### 16.0 ROAD WORK

Code No.	Descript	tion	Unit	Quantity of bitumen per unit quantity of work (Quintals)
	SURFAC	CE DRESSING		
16.25	Surface of grade	dressing on new surface with paving bitumen VG -10.	sqm	0.0225
16.26	Surface of grade	dressing on new surface in two coats with bitumen VG -10.	sqm	0.029
16.27	Surface VG -10.	dressing on old surface with hot bitumen of grade	sqm	0.0195
16.28	Surface	dressing one coat on new surface :		
	16.28.1	Using bitumen emulsion	sqm	0.0195
16.29	Surface	dressing one coat on old surface :		
	16.29.1	Using bitumen emulsion	sqm	0.0122
	PREMIX	CARPET		
16.30	Providin VG-10 :	g and applying tack coat with bitumen of grade		
	16.30.1	On W.B.M. @ 0.75 Kg / sqm	sqm	0.0075
	16.30.2	On bituminous surface @ 0.50 Kg / sqm	sqm	0.0050
16.31	Providin (Rapid S	g and applying tack coat using bitumen emulsion setting):		
	16.31.1	On W.B.M @ 0.4kg/sqm	sqm	0.0040
	16.31.2	On bituminous surface @ 0.25kg/sqm	sqm	0.0025
16.32		mix carpet surfacing with paving asphalt /G-30/modified bitumen CRMB 55.	sqm	0.0144
16.33		remix carpet surfacing with paving asphalt /G-30/modified bitumen CRMB 55.	sqm	0.018
16.34	2 cm pre	mix carpet surfacing with bitumen emulsion.	sqm	0.033*
16.35	2.5 cm p	remix carpet surfacing with bitumen emulsion.	sqm	0.0388*
16.36	Providin	g and laying Bitumen Penetration Macadam :		
	16.36.1	For 50mm compacted thickness with paving asphalt VG-10 @ 50 kg/10 sqm	sqm	0.05
	16.36.2	For 75 mm compacted thickness in two layers with paving asphalt VG-10 @ 68 kg/10 sqm	sqm	0.068
	MASTIC	AND BITUMASTIC WEARING COURSE		
16.37	Providin	g and laying bitumen mastic wearing course:		
	16.37.1	25mm thick	sqm	0.0586
	16.37.2	40 mm thick	sqm	0.0938

COEFFICIENT FOR BITUMEN CONSUMPTION -SH: 16.0 ROAD WORK

Code No.	Descrip	tion	Unit	Quantity of bitumen per unit quantity of work (Quintals)
16.38		hick bitumastic sheet with hot bitumen, paving /G-10/VG-30/modified bitumen CRMB 55.	sqm	0.0303
16.39	asphalt	ck bitumastic sheet with hot bitumen, paving /G-10/VG-30/modified bitumen CRMB 55.	sqm	0.0479
	SEAL C			
16.40		coat using 128 kg of bitumen of grade VG-10.	sqm	0.0077
16.41	P/L seal	coat using 98 kg of bitumen of grade VG-10.	sqm	0.0098
16.54	P/L Den	se Bituminous macadam :		
	16.54.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	1.5438
	16.54.2	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	1.5438
16.55	Providin	g and laying Bituminous Macadam.		
	16.55.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	0.7683
	16.55.2	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	0.7683
16.56	Providin	g and laying Semi Dense Bituminous concrete		
	16.56.1	25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH	100	0.004
	16.56.2	capacity. 25 mm compacted thickness with bitumen of grade	100 sqrr	n 2.884
		VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	100 sqm	n 2.884
16.57	P/L Bitu	minous Concrete :		
	16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	1.296

COEFFICIENT FOR BITUMEN CONSUMPTION -SH: 16.0 ROAD WORK

	Unit	Quantity of bitumen per unit quantity of work (Quintals)
mpacted thickness with bitumen of grade 5% (percentage by weight of total mix) r @ 3% (percentage by weight of Aggre- aste plastic additive @ 8% (percentage bitumen) prepared in Batch Type Hot 100-120 TPH capacity.	cum	1.296
mpacted thickness with bitumen of grade 5.5% (percentage by weight of total mix) r @ 3% (percentage by weight of Aggre- red in Batch Type Hot Mix Plant of d capacity.	cum	1.296
mpacted thickness with bitumen of grade 5.5% (percentage by weight of total mix) r @ 3% (percentage by weight of Aggre- ed in Batch Type Hot Mix Plant of I capacity.	cum	1.296
mpacted thickness with bitumen of grade 5% (percentage by weight of total mix) r @ 3% (percentage by weight of Aggre- ed in drum Type Hot Mix Plant of 60-90 y.	cum	1.296
mpacted thickness with bitumen of grade 5% (percentage by weight of total mix) r @ 3% (percentage by weight of Aggre- aste plastic additive @ 8% (percentage bitumen) prepared in drum Type Hot Mix 10 TPH capacity.	cum	1.296
mpacted thickness with bitumen of grade 5.5% (percentage by weight of total mix) r @ 3% (percentage by weight of Aggre- ed in drum Type Hot Mix Plant of 60-90		
у.	cum	1.296
mpacted thickness with bitumen of grade 5.5% (percentage by weight of total mix) r @ 3% (percentage by weight of Aggre- ed in Drum Type Hot Mix Plant of 60-90		1.296
5 r	<ul> <li>5.5% (percentage by weight of total mix)</li> <li>@ 3% (percentage by weight of Aggred in Drum Type Hot Mix Plant of 60-90</li> </ul>	5.5% (percentage by weight of total mix) @ 3% (percentage by weight of Aggre- d in Drum Type Hot Mix Plant of 60-90

\* Including tack coat

## 2.0 COEFFICIENT FOR BITUMEN CONSUMPTION

#### 22.0 WATER PROOFING

Code No.	Description	Unit	Quantity of bitumen per unit quantity of work (Quintals)
22.3	P/L water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like.	sqm	0.017
22.6	P/L water proofing treatment on roofs with cement slurry & fibre glass cloth.	sqm	0.01
22.8	P/L four courses water proofing treatment with bitumen felt over roofs:		
	22.8.1 Bitumen felt (hessian base)type 3 grade I	sqm	0.029
22.9	P/L six courses water proofing treatment with bitumen felt over roofs applied hot @ 1.45, 1.20 & 1.45 for 1st, 3rd and 5th course.	sqm	0.041
22.10& 22.11	P/L six courses water proofing treatment with bitumen felt over roofs applied hot @ 1.45, 120 & 1.70 for 1st, 3rd and 5th course.	sqm	0.0435
22.15	P/L in situ seven course water proofing treatment with APP (1.5 mm thick @ 2.25 kg./sqm).	sqm	0.036
22.16	P/L in situ five course water proofing treatment with APP (2.00 mm thick @ 3.00 kg./sqm).	sqm	0.024
22.17	P/L in situ seven course water proofing treatment with APP (2.00 mm thick @ 3.00 kg./sqm).	sqm	0.036
22.18	P/F APP.		
	22.18.1 2mm (for corrugated roof sheets)	sqm	0.036
22.19	P/LAPP modified prefabricated five layer, 3 mm thick water proofing membrane. Tear strength in longitudinal and transverse direction as 60/80N.		
	22.19.1 3 mm thick	sqm	0.024
22.20	P/LAPP modified prefabricated five layer 3 mm thick water proofing membrane. Tear strength in longitudinal and transverse direction as 300/250N.		
	22.20.1 3 mm thick	sqm	0.036

COEFFICIENT FOR BITUMEN CONSUMPTION -S.H.: -22.0 WATER PROOFING

S.No.	Correction Slip No.	Reference No.	Contents in Brief

S.No.	Correction Slip No.	Reference No.	Contents in Brief