





भारत सरकार GOVERNMENT OF INDIA





केंद्रीय लोक निर्माण विभाग CENTRAL PUBLIC WORKS DEPARTMENT

दिल्ली दर अनुसूची (भाग-2)

Delhi Schedule of Rates PROPOSI(Vol.-2)

2021



महानिदेशक, के.लो.नि.वि., नई दिल्ली Director General, CPWD, New Delhi



GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

DELHI SCHEDULE OF RATES

(Vol. 2)

2021





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FOREWORD

Delhi Schedule of Rates published by Central Public Works Department from time to time is a comprehensive and useful technical document for execution of civil works. In addition to CPWD, this Schedule of Rates is used by many Departments, Institutions, Public Sector Undertakings, Architects and Builders.

Delhi Schedule of Rates was first published in the year 1931, followed by a number of revisions/publications from time to time in order to bring it in line with the prevailing materials, technologies, market rates and implementation of GST. It was revised in 1977, 1981, 1985, 1989, 1993, 1997, 2002, 2007, 2010 (Reprint), 2012, 2013, 2014, 2016 and 2019.

Last edition of Delhi Schedule of Rates was published in the year 2019. Revision of this DSR has become necessary due to change in wages of labour and prices of materials, adoption of new construction technologies & materials. These components have been incorporated in the DSR 2021 by revising DSR 2019.

I wish to place on record the technical input and effective coordination on the part of Shri D.C.Goel ADG (Tech.), Shri Vinayak Rai CE (CSQ) (Civil) and the sincere efforts put in by Shri Divakar Agrawal SE (TAS), Shri S.N.Jaiswal EE(TAS), Shri Mukesh Varma Chief Estimator, Shri Naveenkumar P JE (TAS), Shri Chalapaka Ramaraju JE (TAS) and team of officers in CSQ unit in preparation and finalizing the DSR 2021 in a short time.

I am sure that Delhi Schedule of Rates 2021 will be useful to all the engineers and architects in Building Construction Industry in general and CPWD in particular.

Place: New Delhi Date: July 12, 2021

nar Jayaswal) **Director General**



Dharmesh Chandra Goel Addl. Director General (Tech)





PREFACE

- 1. Delhi Schedule of Rates popularly called as DSR is updated as 2021 edition and includes existing items of DSR 2019 with (a) deletion of few items which are not in use now, (b) merger of similar items, and (c) addition of new items in line with emerging trends in construction Industry.
- 2. DSR 2021 is based on the prevailing market rates of materials in Delhi as on or just before 01.04.2021. The labour rates adopted are as per minimum wages applicable with effect from 01.04.2021 issued by Govt. of Delhi/ Govt. of India, whichever is higher.
- 3. The cost index for DSR 2021 is 105 with reference to CPWD Delhi Plinth Area Rates 2020, having base 100 as on 01.04.2020 and cost index as on 01.04.2020 is 101 over CPWD Delhi Plinth Area Rates 2019 having base 100.
- 4. The technical sanctioning authority may decide rates of non-schedule items judiciously based on market rates without adding cost index.
- 5. This DSR 2021 shall be read along with CPWD specifications 2019 Vol.-I & II with up-to-date correction slips.
- 6. The salient Features of DSR 2021are as follows:
 - 6.1 DSR 2021 is bilingual and in two volumes each, however, in case of any discrepancy between English and Hindi versions, the English version shall prevail.
 - 6.1.1 The rates of basic materials incorporated in this DSR 2021 are considered for the materials available in the market conforming to BIS Standards/ CPWD Specifications.
 - 6.1.2 The effect of GST on works contract has been incorporated in all the items.
 - 6.2 Salient Modifications and Changes in Sub Heads:
 - 6.2.1 Concrete Work: Many new items are included and amendments in existing items have been made with reference to IS 386:2016 based on Recycled Concrete Aggregate (RCA) & Recycled Aggregate (RA). Some of the items with excess/less cement than specified in the items without limit are deleted and modified items with excess cement upto 10% of the minimum specified cement content in design mix are incorporated.

- Reinforced Cement Concrete: Many new items are included and amendments in existing items have been made with reference to IS 386:2016 based on Recycled Concrete Aggregate (RCA) & Recycled Aggregate (RA). Some of the items with excess/less cement than specified in the items without limit are deleted and modified items with excess cement upto 10% of the minimum specified cement content in design mix are incorporated.
- 6.2.3 **Cladding Work:** Amendment is made in item no. 8.2.2 and new item is made as item no. 8.2.3 based on different colour of granite stones.
- 6.2.4 **Wood & PVC Work:** Items Nos. 9.166 to 9.174 for modular kitchen items are added.
- 6.2.5 **Flooring:** The items Nos. 11.41A.1.1 to 11.41A.3.5 for vitrified tiles of different sizes are added. The amendment has been made in item no. 11.56.1 and new item is incorporated as item no. 11.53.2 based on different colour of granite stones.
- 6.2.6 **Roofing:** The items Nos. 12.64, 12.65 & 12.66 for Aluminium profile sheets are added.
- 6.2.7 **Finishing:** The item No. 13.116 for high gloss / Matt finish melamine clear polish is added.
- 6.2.8 **Repairs to Building:** The amendment in existing items nos. 13.93 & 13.94 are made.
- 6.2.9 **Road Work:** The amendment has been made in item no. 16.87.1 and new item is incorporated as item no. 16.87.2 based on different colour of granite stones.
- 6.2.10 **Water Supply:** The items Nos. 18.85A, 18.86A, 18.87A, 18.88A, 18.89A, 18.90A, 18.92A, 18.93A, 18.95A, 18.96A, 18.97A, 18.99A, 18.100A, 18.101A, 18.102A, 18.103, 18.104 & 18.105 for stainless steel pipes and fittings of Grade 316L are added. The amendments are made in nomenclature of item no. 18.8.1 to 18.9.10 as per IS 15778:2007. The amendments are made in nomenclature of item nos. 18.70.11 & 18.70.12 with respect to specification and basic rates.
- 6.2.11 **New Technologies and Materials:** With a view to give boost to make in India initiative of the Government, new technology items have been added in New Technologies and Materials sub head. These new items are included for a period of two years and then performance shall be reviewed. Following are the items added under this sub head.
 - 1. EPS (Cellular plastic material) block (item no. 26.82)
 - 2. Stamping finish to freshly laid plain/reinforced cement concrete (item no. 26.83).
 - 3. Uni-axial and Bi-Axial woven Polyester Geogrids (item no. 26.84 & 26.85).
 - 4. WPC boards in paneling, Cabinets, Doors, Windows etc. (items no. 26.86 to 26.91).

- 5. Extruded hollow clay/terracotta ventilated rain screen tiles (items no. 26.92 & 26.93).
- 6. Amendments in existing items nos. 26.1 & 26.3 for bamboowood, item no. 26.22 for densified calcium silicate false ceiling tiles, item no. 26.42, 26.43 & 26.45 for light gauge steel frame work, item no. 26.48 for aluminium formwork for monolithic construction on RCC members are made.
- 7. Other corrections/modifications of minor nature such as typographical error, deletion of misleading content etc. have been undertaken.
- 8. Wholehearted commitment and considerable efforts has gone into the preparation of this edition of Delhi Schedule of Rates. I convey my deep appreciation and sincere thanks to Shri Vinayk Rai CE(CSQ), Shri Divakar Agrawal SE (TAS), Shri S.N. Jaiswal EE (TAS), Shri. Mueksh Varma Chief Estimator (TAS), Shri Akhileshwar Sah Chief Eastimator (TAS), Shri. D.S.Adikari AE, Ms. Anshu Shukla AE(TAS), Shri Chalapaka Ramaraju JE(TAS), Shri Naveenkumar P JE(TAS), Shri A.K.Jha AD (OL) and his team for translation of DSR- 2021 in Hindi and other officers and staff of CSQ unit whose names are not mentioned here for the sake of brevity for their sincere efforts made in the preparation of this document in such a short time. Various individuals, Committees and field units, have immensely contributed with substantial inputs; the CSQ unit is indebted for their support.
- 9. I convey my gratitude to field offices at Delhi who rose to the occasion and provided sufficient data base of market rates to CSQ office and thus enabled them to come out with this edition of DSR in a short time.
- 10. Although due care has been taken in bringing out DSR-2021, there is possibility that some errors are still there inadvertently. Error or omission may be brought to the notice of Superintending Engineer (TAS), CPWD, Room No. 418A, A-wing, Nirman Bhawan, New Delhi -110011 (Tele fax. 011-23062339).

Suggestions for improvement are welcome.

Dharmesh Chandra Goel ADG(Tech) CPWD

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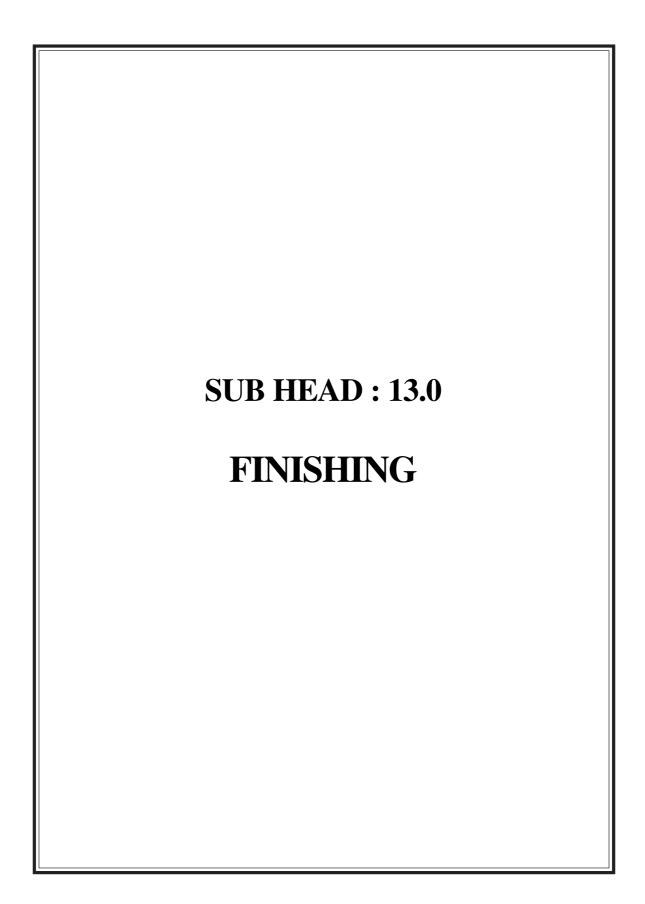
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DELHI SCHEDULE OF RATES

(Vol. 2)

2021



BASIC RATES (SH: 13.0 FINISHING)

Code No.	Description	Unit	Rate ₹
0006	Hire charges of Spraying machine including electric charges	day	250.00
0101	Bhisti	day	714.00
0112	Carpenter 2nd class	day	714.00
0114	Beldar	day	645.00
0115	Coolie	day	645.00
0117	Assistant Fitter or 2nd class Fitter	day	714.00
0122	Mason (for plaster of paris work) 1st class	day	784.00
0123	Mason (brick layer) 1st class	day	784.00
0131	Painter	day	714.00
0141	White Washer	day	714.00
0155*	Mason (average)	day	749.00
0156*	Carpenter (average)	day	749.00
0324	Coal Tar	litre	30.00
0367	Portland Cement (OPC-43 Grade)	tonne	5000.00
0368	White Cement	tonne	11200.00
0763	Glue	kg	75.00
0771	Kerosene oil	litre	50.00
0772	White cement based polymer modified self curing compound in powder form	kg	15.00
0775	Dehradun white lime	quintal	600.00
0776	Satna lime	quintal	370.00
0777	Dry hydrated lime (factory made)	quintal	290.00
0801	Silicon and acrylic emulsion	litre	120.00
0802	Acrylic distemper 1st quality , having VOC content less than 50 grams/ litre	Kg	40.00
0803	Acrylic emulsion, having VOC content less than 50 grams/ litre	litre	94.00
0804	Premium plastic acrylic emulsion of interior grade, having VOC content less than 50 grams/ litre	litre	200.00
0806	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	litre	105.00
0808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre	litre	50.00
0818	Linseed oil (double boiled)	litre	200.00

Code No.	Description	Unit	Rate ₹
0824	White cement based putty	kg	13.00
0826	Aluminium paint	litre	150.00
0827	Acid proof paint (chocolate or black)	litre	225.00
0828	Anticorrosive bituminous paint (black)	litre	100.00
0829	Black Japan paint	litre	90.00
0833	Synthetic enamel paint in black or chocolate shade	litre	175.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	165.00
0836	100% Premium acrylic dirt resistance, Silicone additives exterior paint	litre	270.00
0837	Acrylic Exterior Primer	litre	100.00
0850	White lead	kg	170.00
0851	Water proofing cement paint	kg	38.00
0855	Wax polish (ready made)	kg	230.00
0856	Ordinary varnish	litre	100.00
0857	Superior copal varnish	litre	115.00
0858	Superior spar varnish	litre	115.00
0859	Oil type wood preservative	litre	130.00
0868	Premixed super white gypsum plaster	kg	6.00
0869	Plaster of Paris	kg	5.00
0982	Coarse sand (zone III)	cum	1500.00
0999	Shellac	kg	300.00
1000	Spirit	litre	48.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	900.00
1198	Second class kail wood in planks	10 cudm	260.00
1213	Water proofing materials	kilogram	35.00
1216	Whiting	quintal	600.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	40.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	163.93
2203	Carriage of Coarse sand	cum	163.93
2209	Carriage of Cement	tonne	145.72
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1200.00
4201	Aluminium primer	litre	120.00
4202	Red oxide Zinc chromate primer	litre	120.00
4203	Copper acetate	kg	300.00

Code No.	Description	Unit	Rate ₹
4204	Hydrochloric acid	kg	35.00
4205	Copper chloride	kg	300.00
4206	Copper nitrate	kg	210.00
4207	Ammonium chloride	kg	22.00
7239	Epoxy paint	litre	215.00
7240	Fire retardant paint	litre	240.00
7241	Melamine polish	litre	300.00
7306	Aluminium T or L sections	kg	190.00
8504	Multi surface paint	litre	300.00
8505	Acrylic exterior paint	litre	200.00
8506	Premium Acrylic exterior paint	litre	210.00
8507	Textured exterior paint	litre	280.00
8508	Primer for cement paint	litre	90.00
8509	Special Primer (C.W.)	litre	160.00
8510	Metal Primer (U.G.)	litre	105.00
8733	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	410.00
9977	Carriage	L.S.	2.12
9988	Carriage and sundries	L.S.	2.12
9999	Sundries	L.S.	2.12

13.0 FINISHING

Code No.		Description	Unit	Rate ₹
		lates for external plastic are for height upto 10m from evel in less otherwise stated.		
	CEMENT	PLASTER (IN FINE SAND)		
13.1	12 mm c	ement plaster of mix :		
	13.1.1	1:4 (1 cement: 4 fine sand)	sqm	294.85
	13.1.2	1:6 (1 cement: 6 fine sand)	sqm	282.00
13.2	15 mm ce mix:	ement plaster on the rough side of single or half brick wall of		
	13.2.1	1:4 (1 cement: 4 fine sand)	sqm	339.70
	13.2.2	1:6 (1 cement: 6 fine sand)	sqm	324.30
13.3	20 mm c	ement plaster of mix :		
	13.3.1	1:4 (1 cement: 4 fine sand)	sqm	402.15
	13.3.2	1:6 (1 cement: 6 fine sand)	sqm	382.10
	CEMENT	PLASTER (IN COARSE SAND)		
13.4	12 mm c	ement plaster of mix :		
	13.4.1	1:4 (1 cement: 4 coarse sand)	sqm	307.25
	13.4.2	1:6 (1 cement: 6 coarse sand)	sqm	294.35
13.5	15 mm c mix:	ement plaster on rough side of single or half brick wall of		
	13.5.1	1:4 (1 cement: 4 coarse sand)	sqm	354.50
	13.5.2	1:6 (1 cement: 6 coarse sand)	sqm	339.10
13.6	20 mm c	ement plaster of mix :		
	13.6.1	1:4 (1 cement: 4 coarse sand)	sqm	421.40
	13.6.2	1:6 (1 cement: 6 coarse sand)	sqm	401.35
	CEMENT	PLASTER WITH A FLOATING COAT OF NEAT CEMENT		
13.7	12 mm ce mix:	ement plaster finished with a floating coat of neat cement of		
	13.7.1	1:3 (1 cement: 3 fine sand)	sqm	374.15
	13.7.2	1:4 (1 cement: 4 fine sand)	sqm	361.30
13.8		ement plaster on rough side of single or half brick wall with a floating coat of neat cement of mix:		
	13.8.1	1:3 (1 cement: 3 fine sand)	sqm	421.50
	13.8.2	1:4 (1 cement: 4 fine sand)	sqm	406.10

Code No.	Description	Unit	Rate ₹
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	sqm	386.55
	13.9.2 20 mm cement plaster	sqm	507.85
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.	sqm	436.30
	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	442.75
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	461.85
13.13	12 mm cement plaster 1:2 (1 cement : 2 stone dust).	sqm	325.80
13.14	15 mm cement plaster 1:2 (1 cement : 2 stone dust) on the rough side of single or half brick wall.	sqm	376.65
13.15	20 mm cement plaster 1:2 (1 cement : 2 stone dust).	sqm	450.30
	6MM CEMENT PLASTER		
13.16	6 mm cement plaster of mix :		
	13.16.1 1:3 (1 cement : 3 fine sand)	sqm	253.05
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 walls when dry for bearing of R.C.C. slabs and beams.	sqm	334.20
13.18	Neat cement punning.	sqm	67.80
	ROUGH CAST PLASTER	1	
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	752.40
	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	705.90

Code No.		Description	Unit	Rate ₹
13.21		providing and mixing water proofing material in cement ork in proportion recommended by the manufacturers.	per bag of 50kg cement used in the mix	60.55
13.22		plastering exterior walls of height more than 10 m from vel for every additional height of 3 m or part thereof.	sqm	72.80
13.23	Extra for p	plastering on circular work not exceeding 6 m in radius:		
	13.23.1	In one coat	sqm	39.35
	13.23.2	In two coats	sqm	59.75
13.24		plastering done on moulding, cornices or architraves neat finish to line and level:		
	13.24.1	In one coat	sqm	587.20
	13.24.2	In two coats	sqm	967.85
13.25	Extra for p	plastering:		
	13.25.1	Spherical ceiling	sqm	146.65
	13.25.2	Groined ceiling	sqm	158.85
	13.25.3	Flewing soffits	sqm	97.05
13.26	_	and applying plaster of paris putty of 2 mm thickness over surface to prepare the surface even and smooth complete.	sqm	214.30
	ARTIFICI	AL STONE PLASTER		
13.27	Extra for I	ining out plaster to imitate stone or concrete blocks walling.	sqm	93.75
	PLAIN CE	EMENT MORTAR BANDS		
13.28		nick plain cement mortar bands in cement mortar 1:4 t:4 fine sand):		
	13.28.1	Flush Band	cm per metre	6.25
	13.28.2	Sunk Band	cm per metre	6.85
	13.28.3	Raised Band	cm per metre	7.80
	13.28.4	Moulded Band	cm per metre	13.35
13.29		nick plain cement mortar band in cement mortar 1:4 t:4 fine sand):		
	13.29.1	Flush Band	cm per metre	7.60
	13.29.2	Sunk Band	cm per metre	8.35
	13.29.3	Raised Band	cm per metre	9.55
	13.29.4	Moulded Band	cm per metre	17.80
13.30	12 mm thi	ick moulded cement mortar band in two coats under layer ick with cement mortar 1:5 (1 cement : 5 coarse sand) top m thick with cement mortar 1:4 (1 cement : 4 fine sand).	cm per metre	17.85

Code No.		Description	Unit	Rate ₹
	POINTIN	G ON BRICK WORK		
13.31	ŭ	on brick work or brick flooring with cement mortar 1:3 it:3 fine sand):		
	13.31.1	Flush / Ruled/ Struck or weathered pointing	sqm	214.40
	13.31.2	Raised and cut pointing	sqm	349.35
	POINTIN	G ON TILE BRICK WORK		
13.32	Pointing on sand):	on tile brick work with cement mortar 1:3 (1 cement : 3 fine		
	13.32.1	Flush/ Ruled/ Struck or weathered pointing	sqm	292.05
	POINTIN	G ON STONE WORK		
13.33	Pointing (sand):	on stone work with cement mortar 1:3 (1 cement : 3 fine		
	13.33.1	Flush/ Ruled pointing	sqm	319.35
	13.33.2	Raised and cut pointing	sqm	580.25
13.34		nd cut pointing on stone work in white cement mortar 1:3 cement : 3 marble dust).	sqm	597.60
13.35	Pointing of 2 fine san	on stone slab ceiling with cement mortar 1:2 (1 cement : nd):		
	13.35.1	Flush/ Ruled pointing	sqm	177.85
13.36		pointing on walls on the outside at height more than 10 m and level for every additional height of 3 m or part there of.	sqm	7.60
	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	32.45
13.38	Satna lim	e wash on walls with one coat.	sqm	13.10
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	44.25
	13.39.2	New work (two or more coats) with a base coat of whiting	sqm	43.80
13.40	DELETED			
13.41		ering 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	162.55
13.42	VOC con	ering with 1st quality acrylic distemper (ready mixed) having tent less than 50 gms/litre, of approved manufacturer, of shade and colour complete, as per manufacturer's cion.		
	13.42.1	Two or more coats on new work	sqm	92.75

Code No.		Description	Unit	Rate ₹
13.43		one coat of water thinnable cement primer of approved brand ufacture on wall surface :		
	13.43.1	Water thinnable cement primer	sqm	64.45
	EXTERIO	OR 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	97.60
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	245.00
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)	sqm	166.85
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	162.35
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors 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	158.95
	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	144.90
	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	140.05
13.48A	VOC less Alkali & fu	walls with 100% Premium acrylic emulsion paint having than 50 gm/litre and UV resistance as per IS 15489:2004, ungal resistance, dirt resistance exterior paint of required company Depot Tinted) with silicon additives.		
	13.48A.1	New work (Two or more coats applied @ 1.43 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.	sqm	154.45
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	61.45
	13.50.2	With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	sqm	62.95

Code No.		Description	Unit	Rate ₹
	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	sqm	55.50
	13.50.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	sqm	29.75
13.51	of approv	with silicon & acrylic emulsion based water thinnable sealer red brand and manufacture on wet or patchy portion of surfaces:		
	13.51.1	One coat	sqm	83.50
	13.51.2	Two coats	sqm	132.65
13.52	and applie	with Epoxy paint (two or more coats) at all locations prepared ed as per manufacturer's specifications including appropriate pat, preparation of surface, etc. complete.		
	13.52.1	On steel work	sqm	201.70
	13.52.2	On concrete work	sqm	198.40
13.53	•	n G.S. sheet with synthetic enamel paint of approved brand ufacture 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	150.20
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	52.70
	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	52.50
13.55	and fitting	two or more coats) on rain water, soil waste and vent pipes s with black anticorrosive bitumastic paint of approved brand ufacture, over and including a priming of ready mixed zinc yellow primer on new work:		
	13.55.1	100 mm diameter pipes	metre	63.15
	13.55.2	150 mm diameter pipes	metre	94.15
13.56	and fitting manufact	two or more coats) on rain water, soil waste and vent pipes gs with synthetic enamel paint of approved brand and ure and required colour over a priming coat of approved per on new work.		
	13.56.1	100 mm diameter pipes	metre	69.00
	13.56.2	150 mm diameter pipes	metre	102.75
13.57	Painting manufact	with oil type wood preservative of approved brand and ure:		
	13.57.1	New work (two or more coats)	sqm	47.10

Code No.		Description	Unit	Rate ₹
13.58	wood / ply of base si	and applying two coats of fire retardant paint on cleaned variace @ 3.5 sqm per litre per coat including preparation urface as per recommendations of manufacturer to make be fire retardant.	sqm	285.80
13.59		ng two coats on new work using 0.16 Litre and 0.12 litre er sqm in the first coat and second coat respectively.	sqm	55.55
13.60	•	nting 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	137.85
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	131.45
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	191.40
13.63	_	vith aluminium paint of approved brand and manufacture to ven shade.		
	13.63.1	Two or more coats on new work 121.45		sqm
13.64	•	with 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	139.25
13.65	_	vith black anti-corrosive bitumastic paint of approved brand ufacture to give an even shade:		
	13.65.1	Two or more coats on new work	sqm	115.10
13.66	DELETED			
	13.66.1	DELETED		
13.67	Varnishin	g with varnish of approved brand and manufacture :		
	13.67.1	Two or more coats of glue sizing with copal varnish over an under coat of flatting varnish	sqm	197.40
	13.67.2	Two or more coats glue sizing with spar varnish or an under coat of flatting varnish	sqm	198.20
13.68	French sp	pirit polishing:		
	13.68.1	Two or more coats on new works including a coat of wood filler	sqm	368.30
13.69	_	on wood work with ready mixed wax polish of approved d manufacture :		
	13.69.1	New work	sqm	164.15

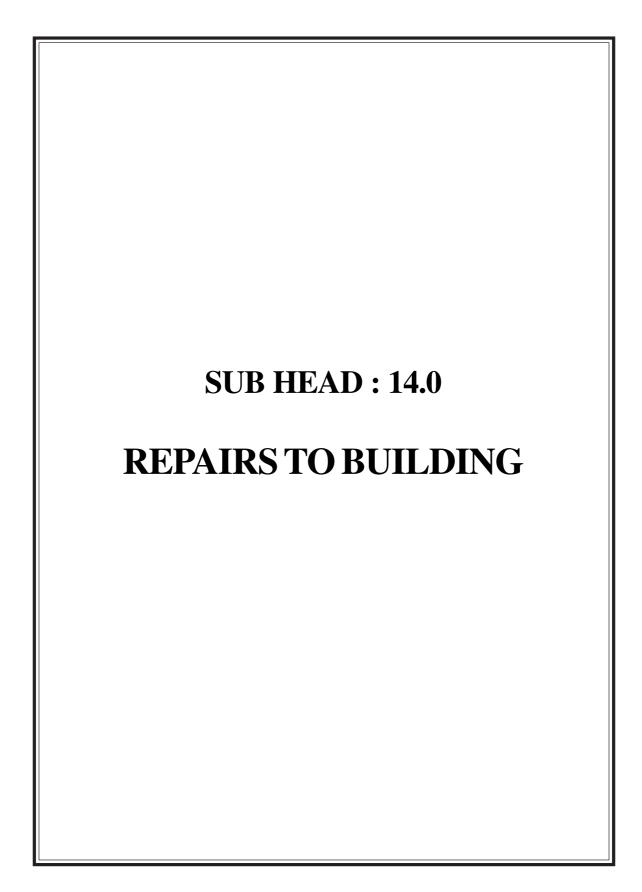
Code No.	Description	Unit	Rate ₹
13.70	Floor polishing on masonry or concrete floors with wax polish of approved brand and manufacture.	sqm	79.60
13.71	Lettering with black Japan paint of approved brand and manufacture	per letter per cm height	5.05
13.72	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in-charge (payment for providing grooves shall be made separately).	sqm	985.45
13.73	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge:		
	13.73.1 15 mm wide and 15 mm deep groove	metre	62.50
	13.73.2 20 mm wide and 15 mm deep groove	metre	63.10
13.74	Extra for washed grit plaster on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	sqm	140.85
13.75	Extra for washed stone grit plaster on circular work not exceeding 6 m in radius (in two coats).	sqm	110.85
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	88.70
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	82.95
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.	eam	363.45
	iocations, initioned in striboth line and level etc. complete.	sqm	505.45

Code No.		Description	Unit	Rate ₹
13.79	6 mm, effe to 1.40 ir Polyester	addition of synthetic Polyester triangular fibre of length ective diameter 10-40 microns and specific gravity of 1.34 in cement plaster/mortar by using 125 gms. of synthetic triangular fibre for 50 Kgs. cement used in cement mortar ections of Engineer-in-Charge.	per bag of 50kg of cement	68.55
13.80	1 mm, of a	and applying white cement based putty of average thickness approved brand and manufacturer, over the plastered wall prepare the surface even and smooth complete.	sqm	123.85
13.81	Organic C brand and	ring with 1st quality acrylic distemper, having VOC (Volatile compound) content less than 50 grams/litre, of approved manufacture, including applying additional coats wherever to achieve even shade and colour.		
	13.81.1	One coat	sqm	54.75
	13.81.2	Two coats	sqm	90.05
13.82	Compoun- manufactu	ng with acrylic emulsion paint, having VOC (Volatile Organic d) content less than 50 grams/litre, of approved brand and ure, including applying additional coats wherever required, e even shade and colour.		
	13.82.1	One coat	sqm	78.00
	13.82.2	Two coats	sqm	116.05
13.83	having VO grams/litr	cing with premium acrylic emulsion paint of interior grade, DC (Volatile Organic Compound) content less than 50 e of approved brand and manufacture, including applying coats wherever required to achieve even shade and colour.		
	13.83.1	One coat	sqm	80.25
	13.83.2	Two coats	sqm	121.55
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	61.45
	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	64.45
13.86	work with	ster on cement concrete or reinforced cement concrete white cement based polymer modified self curing mortar of make as per the direction of Engineer-In-Charge.	sqm	217.50
13.87	White was	shing with lime to give an even shade :		
	13.87.1	Old work (two or more coats)	sqm	19.00
	13.87.2	Old work (one or more coats)	sqm	11.60
13.88	Removing	white or colour wash by scrapping and sand papering and the surface smooth including necessary repairs to scratches	sqm	16.35
	DELETED		'	

Code No.		Description	Unit	Rate ₹
13.90	VOC con	ering with 1st quality acrylic distember (Ready mix) having stent less than 50 grams/ litre of approved brand and ure to give an even shade:		
	13.90.1	Old work (one or more coats)	sqm	56.80
13.91	and the lil	g dry or oil bound distemper, water proofing cement paint ke by scrapping, sand papering and preparing the surface including necessary repairs to scratches etc. complete.	sqm	20.85
13.92	_	on G.S. sheet with synthetic enamel paint of approved brand ufacture of required colour to give an even shade:	sqm	77.20
	13.92.1	Old work (one or more coats)	sqm	77.20
13.93	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 of chromate yellow primer on new work:		
	13.93.1	75 mm diameter pipes	metre	47.35
13.94	and fitting	one or more coats) on rain water, soil waste and vent pipes s with black anticorrosive bitumastic paint of approved brand ufacture on old work:		
	13.94.1	75 mm diameter pipes	metre	22.25
	13.94.2	100 mm diameter pipes	metre	29.40
	13.94.3	150 mm diameter pipes	metre	42.35
13.95	and fitting	two or more coats) on rain water, soil waste and vent pipes is with aluminium paint of approved brand and manufacture ming coat of ready mixed zinc chromate yellow primer on ::		
	13.95.1	75 mm diameter pipes	metre	48.95
	13.95.2	100 mm diameter pipes	metre	67.70
	13.95.3	150 mm diameter pipes	metre	100.85
13.96	and fitting	one or more coats) on rain water, soil waste and vent pipes gs with synthetic enamel paint of approved brand and ure and required colour on old work:		
	13.96.1	75 mm diameter pipes	metre	23.50
	13.96.2	100 mm diameter pipes	metre	30.20
	13.96.3	150 mm diameter pipes	metre	43.45
13.97	Painting manufaction	with oil type wood preservative of approved brand and ure:		
	13.97.1	Old work (one or more coats)	sqm	35.80
13.98	•	nting with plastic emulsion paint of approved brand and ure to give an even shade:		
	13.98.1	One or more coats on old work	sqm	90.85

Code No.		Description	Unit	Rate ₹
13.99		with synthetic enamel paint of approved brand and ure of required colour to give an even shade:		
	13.99.1	One or more coats on old work	sqm	86.55
13.100	Painting w give an ev	ith aluminium paint of approved brand and manufacture to en shade:		
	13.100.1	One or more coats on old work	sqm	79.40
13.101		rith acid proof paint of approved brand and manufacture of olour to give an even shade:		
	13.101.1	One or more coats on old work	sqm	91.25
13.102	_	ith black anti-corrosive bitumastic paint of approved brand facture to give an even shade :		
	13.102.1	One or more coats on old work	sqm	77.05
13.103	French sp	irit polishing:		
	13.103.1	One or more coats on old work	sqm	185.40
13.104	_	on wood work with ready made wax polish of approved manufacture :		
	13.104.1	Old work	sqm	82.95
13.105	Re-letterir manufactu	ng with black Japan paint of approved brand and ire.	per letter per cm height	3.20
13.106	- ,	one or more coats) with black Japan paint of approved manufacture to give an even shade.	sqm	78.60
13.107	Providing sink or wa	and fixing C.P. brass chain and rubber plug complete for sh basin:		
	13.107.1	32 mm dia	each	76.40
	13.107.2	40 mm dia	each	76.40
13.108	VOC cont	ring with 1st quality acrylic distemper (ready made) having ent less than 50 gm per ltr. of approved manufacturer and od shade and colour complete. as per manufacturer's on.		
	13.108.1	One or more coats on old work	sqm	50.60
13.109	Finishing	walls with water proofing cement paint of required shade:		
	13.109.1	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	94.15
	13.109.2	Old work (one or more coats @ 2.20 kg/10 sqm) complete	•	63.25
13.110		walls with textured exterior paint of required shade :	•	
	13.110.1	Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	sqm	191.40
	13.110.2	Old work (One or more coats) applied @ 1.82 ltr/10 sqm	•	118.85

Code No.		Description	Unit	Rate ₹
13.111	Finishing	walls with Acrylic Smooth exterior paint of required shade :		
	13.111.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	sqm	111.60
	13.111.2	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	sqm	74.75
13.112	_	walls with Premium Acrylic Smooth exterior paint with dditives of required shade		
	13.112.1	Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface	sqm	108.60
	13.112.2	Old work (one or more coats applied @ 0.83 ltr/10 sqm).	sqm	74.10
13.113	Varnishin	g with varnish of approved brand and manufacture:		
	13.113.1	One or more coats with copal varnish	sqm	79.45
	13.113.2	One or more coats with spar varnish	sqm	79.85
13.114	Melamine polishing on wood work (one or more coat).		sqm	118.35
13.115		g with flatting varnish of approved brand and manufacture ore coats on old work.	sqm	82.95
13.116	work in re	in high gloss/matt finish melamine clear polish on wood quired color/wooden shade texture with following process uence as detailed below:		
		urface to be polished is rubbed with sand paper 80/120 no. nen with sand paper of 160/180 nos.		
		ing two coats of sealer with spray gun and allowing sufficient g time for 1st coat and 2nd coat is allowed to dry for 8 to 12		
	gradii make surfac the sr dry fo	rying of sealer coat, wet rubbing with emery cloth of finering with ample water to remove excess sealer layer and the surface further smooth after this wet rubbing, then ce is applied with special grade melamine fillers to fill all mall and big holes/grooves etc. Filler coat to be allowed to r 4 to 6 hrs on which again a light wet rubbing is done this ce is further allowed to dry for 12 hrs.		
	using propo surfac to dry comp and m per di	is, 1st coat of melamine polish is applied with spray gun melamine clear polish and melamine thinner in required ortion. This 1st coat is allowed to dry for 24 hrs then this dry be is again fine wet rubbed smooth, which is further allowed or for 12 hrs. The final melamine polish is applied with ressor pressure spray gun using melamine clear polish nelamine thinner mixed in required proportion complete as rection of Engineer-in-Charge. (Final coat to be done in 1 ayers without gap of time.)	sqm	1156.55



BASIC RATES (SH: 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	700.00
0058	Air compressor	hour	200.00
0085	Using cost of Ultra Violet Radiation tube	Hour	190.00
0086	Compressor, gun, rubber pipes & other accessories- hire charge of plant & machinery i/c necessary fuel	day	4000.00
0087	Hire Charges of Suction Jeting machine 2200 PSI machine i/c POL and operator	day	40000.00
0100	Bandhani	day	714.00
0101	Bhisti	day	714.00
0102	Blacksmith 1st class	day	784.00
0103	Blacksmith 2nd class	day	714.00
0111	Carpenter 1st class	day	784.00
0112	Carpenter 2nd class	day	714.00
0114	Beldar	day	645.00
0115	Coolie	day	645.00
0116	Fitter (grade 1)	day	784.00
0117	Assistant Fitter or 2nd class Fitter	day	714.00
0119	Glazier	day	714.00
0123	Mason (brick layer) 1st class	day	784.00
0124	Mason (brick layer) 2nd class	day	714.00
0126	Mason (for ornamental stone work) 1st class	day	784.00
0128	Mate	day	714.00
0129	Sewer man	day	645.00
0130	Mistry	day	784.00
0131	Painter	day	714.00
0138	Sprayer (for bitumen, tar etc.)	day	714.00
0139	Skilled Beldar (for floor rubbing etc.)	day	714.00
0141	White Washer	day	714.00
0155*	Mason (average)	day	749.00
0156*	Carpenter (average)	day	749.00
0159	Skilled torch operator for laying tack	day	784.00
0160	Technician	day	853.00
0164	Security guard without gun (8 hours shift duty per day)	day	784.00
0165	Security guard with gun (8 hours shift duty per day)	day	853.00
0295	Stone Aggregate (Single size): 20 mm nominal size	cum	1400.00
0297	Stone Aggregate (Single size): 10 mm nominal size	cum	1350.00
0302	Safeda ballies 125 mm diameter	metre	40.00
0308	Bhusa	quintal	500.00

Code No.	Description	Unit	Rate ₹
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	34790.00
0316	Bitumen solution primer of approved quality	litre	47.00
0367	Portland Cement (OPC-43 Grade)	tonne	5000.00
0370	Coal (steam)	quintal	440.00
0427	Brass quadrant stays 300 mm	each	110.00
0428	Brass fanlight catch	10 Nos	170.00
0429	Brass fanlight pivot	10 Nos	168.00
0430	Brass chain with hook for fan light catch	each	36.00
0442	Brass helical spring 150 mm	each	290.00
0444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	140.00
0445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	190.00
0446	Brass brackets (curtain rods) 20 mm	each	45.00
0449	Brass screws 50 mm	100 Nos	220.00
0450	Brass screws 40 mm	100 Nos	170.00
0452	Brass screws 25 mm	100 Nos	100.00
0524	Chromium plated Brass butt hinges (heavy) type 75x65x 4 mm weighing not less than 200gms	10 Nos	905.00
0525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4mm	10 Nos	805.00
0526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10 Nos	690.00
0527	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5 mm	10 Nos	421.00
0528	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5 mm	10 Nos	180.00
0585	Chromium plated Brass screws 50 mm	100 Nos	300.00
0586	Chromium plated Brass screws 40 mm	100 Nos	290.00
0587	Chromium plated Brass screws 30 mm	100 Nos	240.00
0588	Chromium plated Brass screws 25 mm	100 Nos	180.00
0589	Chromium plated Brass screws 20 mm	100 Nos	160.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x 1.90 mm	10 Nos	80.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x 1.50 mm	10 Nos	49.00
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	39.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	60.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	40.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	35.00
0761	Fuel wood	quintal	500.00
0771	Kerosene oil	litre	50.00

Code No.	Description	Unit	Rate ₹
0772	White cement based polymer modified self curing compound in powder form	kg	15.00
0775	Dehradun white lime	quintal	600.00
0811	Mud (dry)	cum	165.00
0826	Aluminium paint	litre	150.00
0827	Acid proof paint (chocolate or black)	litre	225.00
0828	Anticorrosive bituminous paint (black)	litre	100.00
0829	Black Japan paint	litre	90.00
0833	Synthetic enamel paint in black or chocolate shade	litre	175.00
0845	Roofing paint for iron sheets in red colour	litre	120.00
0851	Water proofing cement paint	kg	38.00
0855	Wax polish (ready made)	kg	230.00
0856	Ordinary varnish	litre	100.00
0857	Superior copal varnish	litre	115.00
0858	Superior spar varnish	litre	115.00
0859	Oil type wood preservative	litre	130.00
0863	Putty for wood work	kg	28.00
0982	Coarse sand (zone III)	cum	1500.00
0999	Shellac	kg	300.00
1000	Spirit	litre	48.00
1003	Mild steel round bar above 12 mm dia	quintal	4750.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4950.00
1008	Flats up to 10 mm in thickness	quintal	4850.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	120.00
1034	Bolts and nuts up to 300 mm in length	quintal	5200.00
1174	Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	260.00
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	1100.00
1188	First class teak wood in planks	10 cudm	850.00
1189	Second class teak wood in scantling	10 cudm	776.00
1190	Second class teak wood in planks	10 cudm	791.00
1194	Second class deodar wood in planks	10 cudm	500.00
1196	First class kail wood in planks	10 cudm	300.00
1199	Sal wood in scantling	10 cudm	600.00
1208	Bitumen washer	100 Nos	30.00
1209	G.I. plain washer thick	100 Nos	35.00
1213	Water proofing materials	kilogram	35.00
1215	Welding by electric plant	cm	2.00
1241	Commercial LPG in cylinder	kg	84.00
1301	Bleaching powder	quintal	1800.00

Code No.	Description	Unit	Rate ₹
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
1880	Dismenteled P or S trap scrap (approx wt 2kg)	kg	25.00
1890	Centrifugally SCI(spun) S & S P or S trap	each	325.00
1953	Vitreous china Indian type W.C. pan of size 580 mm	each	475.00
1954	Vitreous china orrisa type W.C. pan of size 580 mm	each	1290.00
1970	Vitreous china foot rests 250x125x25 mm	pair	103.00
2200	Carriage of Steam coal	tonne	187.35
2201	Carriage of Bricks	1000 Nos	437.15
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	163.93
2203	Carriage of Coarse sand	cum	163.93
2204	Carriage of Timber	cum	187.35
2205	Carriage of Steel	tonne	145.72
2209	Carriage of Cement	tonne	145.72
2211	Carriage of Tar / Bitumen	tonne	163.93
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	145.72
2264	Carriage of Rubbish	cum	163.93
2406	Float glass panes of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	309.00
2407	Float glass panes of nominal thickness 5 mm (weight not less than 12.50 kg/sqm)	sqm	515.00
2466	Hollock wood in scantling	10 cudm	357.00
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	172.00
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	4590.00
4009	Mild steel tubes hot finished welded type	kg	60.00
4202	Red oxide Zinc chromate primer	litre	120.00
4203	Copper acetate	kg	300.00
7019	Dash fastener / Chemical fastener	each	12.50
7241	Melamine polish	litre	300.00
7346	Double coupler	each	46.00
7387	Spigot for standard jointing	kg	40.00
7397	Base Jack	each	145.00
7398	Challies	each	765.00
7399	Cup locks	each	48.00
7442	Wheel 75 mm dia. 40 mm wide	each	62.00
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	810.00
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	80.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	120.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	130.00

Code No.	Description	Unit	Rate ₹
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	190.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	210.00
8206	Bitumen primer for bitumen membrane	litre	85.00
8207	Geotextile 120 grams per sqm membrane	sqm	45.00
8500	Water for jetting / blowback	1000 litre	1500.00
8505	Acrylic exterior paint	litre	200.00
8506	Premium Acrylic exterior paint	litre	210.00
8507	Textured exterior paint	litre	280.00
8508	Primer for cement paint	litre	90.00
9977	Carriage	L.S.	2.12
9988	Carriage and sundries	L.S.	2.12
9999	Sundries	L.S.	2.12

14.0 REPAIRS TO BUILDING

Code No.		Description	Unit	Rate ₹
14.1	2.5 sq.me raking ou complete	to plaster of thickness 12 mm to 20 mm in patches of area eters and under, including cutting the patch in proper shape, it joints and preparing and plastering the surface of the walls e, including disposal of rubbish to the dumping ground, all eas per direction of Engineer-in-Charge.		
	14.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	sqm	462.30
	14.1.2	With cement mortar 1:4 (1cement: 4 coarse sand)	sqm	478.00
14.2	in floors of in cemer concrete 20 mm not to sides of floors as	owkhats in existing opening including embedding chowkhats or walls cutting masonry for holdfasts, embedding hold fasts at concrete blocks of size 15 x 10 x 10 cm with cement 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate ominal size), painting two coats of approved wood preservative of chowkhats and making good the damages to walls and required complete, including disposal of rubbish to the ground, all complete as per direction of Engineer-in-Charge.		
	14.2.1	Door chowkhats	each	1505.30
	14.2.2	Window chowkhats	each	948.05
	14.2.3	Clerestory window chowkhats	each	712.85
14.3	fasteners vertical m	nowkhat in existing opening in brick/ RCC wall with dash s/Chemical fasteners of appropriate size (3 nos on each rember of door chowkhat and 2 nos on each vertical member of chowkhats), including Cost of dash fasteners/ chemical	each	190.25
14.4	Making the or walls be flooring a of mulba	the opening in brick masonry including dismantling in floor by cutting masonry and making good the damages to walls, and jambs complete, to match existing surface i/c disposal / rubbish to the nearest municipal dumping ground, all eas per direction of Engineer-in-Charge.	odon	100.20
	14.4.1	For door/ window/ clerestory window	sqm	1046.95
14.5		g glass panes, with putty and nails wherever necessary racking out the old putty:		
	14.5.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	sqm	941.95
	14.5.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	sqm	1245.15
14.6	Renewin	g glass panes, with wooden fillets wherever necessary:		
	14.6.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	sqm	1351.15
	14.6.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	sqm	1654.30

Code No.		Description	Unit	Rate ₹
14.7	Renewin	g glass panes and refixing existing wooden fillets:		
	14.7.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	sqm	1055.20
	14.7.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	sqm	1358.35
14.8	Supplying	g and fixing new wooden fillets wherever necessary:		
	14.8.1	2nd class teak wood fillets	metre	66.05
	14.8.2	Hollock wood fillets	metre	59.35
14.9	Renewal	of old putty of glass panes (length)	metre	46.40
14.10	Refixing	old glass panes with putty and nails	sqm	603.05
14.11	Fixing old	d glass panes with wooden fillets (excluding cost of fillets)	sqm	560.60
14.12	size in ex to reinfor chase wi	g and fixing 16 mm M.S. Fan clamps of standard shape and isting R.C.C. slab, including cutting chase, anchoring clamp cement bar, including cleaning, refilling, making good the th matching concrete, plastering and painting the exposed of the clamps complete.	each	468.40
14.13	cement n preparing plaster g 1:3 (1 ce or bricks the dump	ng terracing of mud phaska covered with tiles or brick, in nortar by dismantling tiles or bricks, removing mud plaster, go the surface of mud phaska to proper slope, relaying mud obri leaping and tiles or bricks, grouted in cement mortar ment: 3 fine sand), including replacing unserviceable tiles with new ones and disposal of unserviceable material to bing ground (the cost of the new tiles or brick excluded), all eas per direction of Engineer-in-Charge.	sqm	577.90
14.14	cement : pointing v	g sand stone slabs in roofing, laid in cement mortar 1:4 (1 4 coarse sand), including necessary repairs and cement with same mortar complete, including disposal of rubbish to ground, all complete as per direction of Engineer-in-Charge. Red/ white sand stone slabs 30 to 50 mm thick	sqm	1099.15
14.15	in wall an and man	g wooden battens in roofs, including making good the holes d painting with oil type wood preservative of approved brand sufacture complete, including removal of rubbish to the ground, all complete as per direction of Engineer-in-Charge.		
	14.15.1	Sal wood battens	cum	92213.65
14.16	in walls a brand and	g wooden beams in roofs including making good the holes and painting with oil type wood preservative of approved d manufacture complete, including removal of rubbish to the ground, all complete as per direction of Engineer-in-Charge.		
	14.16.1	Not exceeding 4.00 metres in length.		
		14.16.1.1 Sal wood beams	cum	96739.70
		14.16.1.2 Hollock wood beams	cum	63238.90

Code No.			Description	Unit	Rate ₹
	14.16.2 Abo	ove 4.00 r	netres and upto 5.00 metres length.		
	1-	4.16.2.1	Sal wood beams	cum	99011.80
	1-	4.16.2.2	Hollock wood beams	cum	65503.80
14.17	for re-pointing	g or replas	e or cement mortar and preparing the surface stering, including disposal of rubbish to the applete as per direction of Engineer-in-Charge.	sqm	59.75
14.18	with 2% of inte	egral wate	nent mortar 1:3 (1 cement: 3 fine sand) mixed er proofing compound by weight of cement for mud phaska:		
	14.18.1 W	Vith F.P.S	. brick tiles	sqm	114.70
	14.18.2 W	Vith modu	ılar brick tiles	sqm	115.95
14.19	-		m roof including cutting out rusted bolts, nuts erials to any distance within compound and	kg	4.45
14.20	coats with a manufacturer	nticorrosi r over and	th new fittings including painting two or more we bitumastic paint of approved brand & including priming coat of ready mixed zinc of approved brand.	metre	107.00
14.21	making good	all damag	and/or top runner of collapsible gate including es and applying priming coat of zinc chromate red brand and manufacturer.	kg	246.15
14.22	and fitting an	nd fixing t	n or M.S. Wheel or roller of steel door or gate he same with necessary clamps, nuts and tion etc. complete.		
	14.22.1 W	Vheel 50 r	mm dia and below	per wheel	150.95
	14.22.2 W	Vheel abo	ve 50 mm dia	per wheel	253.00
	EARTH WOR	RK			
14.23	Pumping out water mains o		used by springs, tidal or river seepage, broken and the like.	kilo litre	190.40
14.24	Mud mortar m	nade with	local clay good earth.	cum	823.15
	BRICK WOR	K			
14.25	Brick work wi in mud morta		on burnt clay bricks of class designation 7.5	cum	5700.55
	WOOD WOR	RK			
14.26	Providing and	d fixing 25	mm thick shutters for cup board etc. :		
	14.26.1 P	Panelled o	r panelled & glazed shutters :		
	1.	4.26.1.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	4583.60
	1	4.26.1.2	Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	3979.65

Code No.			Description	Unit	Rate ₹
	14.26.2	Glazed sh	utters :		
		14.26.2.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	4555.30
		14.26.2.2	Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	3904.90
14.27	bright or/a 35x10 mr	and black enai n laths placed	ain jaffri door and window shutters including melled M.S. butt hinges with necessary screws d 35 mm apart (frames to be paid separately), mm beading complete with:		
	14.27.1	Second cl	ass teak wood	sqm	4155.75
14.28	with two b	•	rass curtain rods of wall thickness 1.25 mm is fixed with brass screws and wooden plugs ary complete.		
	14.28.1	20 mm dia	meter.	metre	295.20
	14.28.2	25 mm dia	meter.	metre	362.10
14.29			.S. round or square bars with M.S. flats at oden frames of windows and clerestory	kg	99.70
14.30		• •	es) including hoisting, fixing in position and vative on unexposed surface etc. complete		
	14.30.1	Sal wood		cum	91146.55
	14.30.2	Hollock wo	ood	cum	57984.40
14.31			ght finished brass single acting spring hinges screws etc. complete :		
	14.31.1	150 mm		each	652.40
	14.31.2	125 mm		each	465.10
	14.31.3	100 mm		each	412.95
14.32			ght finished brass double acting spring hinges screws etc. complete :		
	14.32.1	150 mm		each	726.00
	14.32.2	125 mm		each	618.95
	14.32.3	100 mm		each	600.25
14.33		and fixing brews etc. com	ight finished brass flush bolts with necessary nplete:		
	14.33.1	250 mm		each	230.75
	14.33.2	150 mm		each	200.55
	14.33.3	100 mm		each	147.05

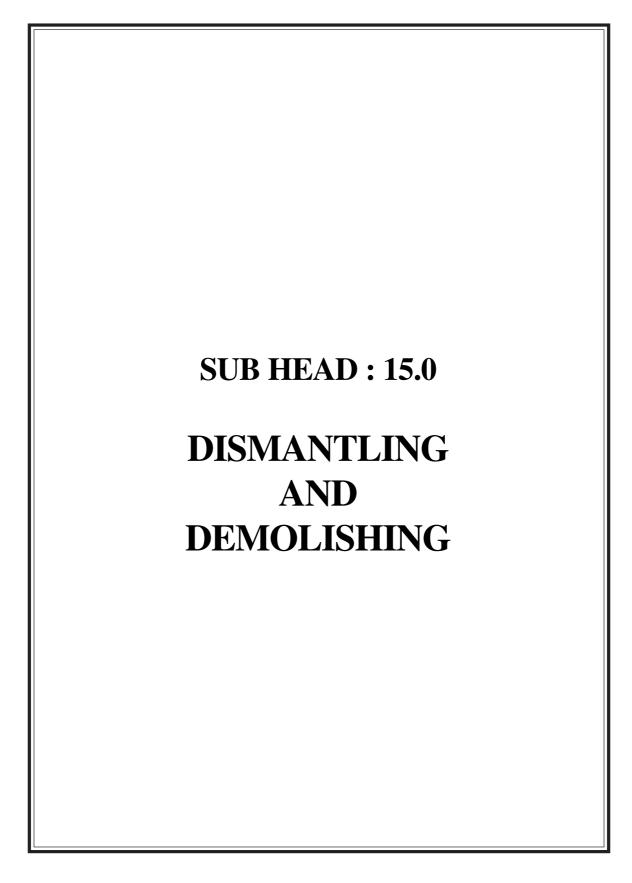
Code No.		Description	Unit	Rate ₹
14.34	with rubbe	and fixing 150 mm bright finished floor brass door stopper er cushion, necessary brass screws etc. to suit shutter complete	each	233.10
14.35	Providing	and fixing bright finished brass hard drawn hooks and eyes:		
	14.35.1	300 mm	each	86.85
	14.35.2	250 mm	each	83.35
	14.35.3	200 mm	each	74.80
	14.35.4	150 mm	each	60.05
	14.35.5	100 mm	each	52.70
14.36		and fixing bright finished brass fan light pivot with necessary ews etc. complete.	each	40.20
14.37	-	and fixing 300 mm long bright finished brass chain with an light including necessary brass screws etc. complete.	each	64.25
14.38		and fixing bright finished brass quadrant stay 300 mm long ssary brass screws etc. complete.	each	163.25
14.39	Providing quality).	and fixing bright finished brass helical door spring (superior	each	462.75
14.40		and fixing chromium plated brass butt hinges with necessary n plated brass screws etc. complete.		
	14.40.1	125x70x4 mm (ordinary type)	each	172.20
	14.40.2	100x70x4 mm (ordinary type)	each	147.70
	14.40.3	75x65x4 mm (heavy type)	each	164.20
	14.40.4	75x40x2.5 mm (ordinary type)	each	99.40
	14.40.5	50x40x2.5 mm (ordinary type)	each	41.30
14.41	with nece	and fixing 85x42 mm chromium plated brass pull bolt lock ssary chromium plated brass screws, nuts, bolts and etc. complete.	each	255.80
14.72	the exteri M.S. tube with cup a clamps a platform a required a scaffoldir connection work at re workmen in-charge for payme duration o	and fixing double scaffolding system (cup lock type) on or 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. and M.S. staircase system in the scaffolding for working etc. and maintaining it in a serviceable condition for the duration as approved and removing it there after .The ang system shall be stiffened with bracings, runners, on with the building etc wherever required for inspection of equired locations with essential safety features for the etc. complete as per directions and approval of Engineer. The elevational area of the scaffolding shall be measured ent purpose .The payment will be made once irrespective of a scaffolding. This item to be used for maintenance work judicially, by deduction for scaffolding in the existing item to be done.	sqm	285.00

Code No.	Description	Unit	Rate ₹
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	484.30
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	59.40
14.75	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	sqm	540.35
	ROUTINE MAINTENANCE WORK	•	
14.75A	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	litre	0.40
14.76	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	each	89.45
14.77	Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm	metre	285.90
14.78	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:-		
	(i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits.		
	(ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water.		
	(iii) Chlorination of RCC internal surface by liquid chlorine.		
	(iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface.		
	(v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	sqm	71.30

Code No.	Descript	ion	Unit	Rate ₹
14.79	Disconnecting damaged overhead/te of any size from water supply line and including shifting at ground level as per	removing from the terrace	each	357.55
14.80	Providing & fixing White vitreous chir (Indian type) along with "S" or "P" trawword seat and "S" or "P" trap at site including all necessary materials, laboraterial i/c malba, all complete as pecharge.	p including dismantling of old complete with all operations our and disposal of dismantled		
	14.80.1 Long pattern W.C Pan of	size 580x440 mm	each	2962.80
	14.80.2 Orissa pattern W.C Pan o	of size 580x440 mm	each	3850.65
14.81	Cutting holes of required size in brick many fan including providing and fixing 300 BIS-12818 and making good the same of Engineer-in-charge.	mm dia PVC pipe conforming	each	243.10
14.82	Dismantling W.C. Pan of all sizes incomaterials i/c malba all complete as per	• .	each	110.70
14.83	Charge. Hacking of CC flooring including clear as per direction of the Engineer-in-Characteristics.		sqm	2.85
14.84	Dismantling 15 to 40 mm dia G.I. dismantled pipes (within 50 metres lead in-Charge.			
	(a) Internal Work- Exposed on wall		metre	2.85
14.85	Taking out existing wooden door shut etc. and refixing of repaired door shu including replacement of hinges with complete as per the direction of the El	tters to existing door frames, screws, etc. as required, all	each	325.95
14.86	Providing and laying in situ seven country with APP (Atactic poly-propylene) mover roof consisting of first coat of bit sqm, 2nd, 4th & 6th courses of bond which shall consist of blown type bitum to IS: 702, 3rd and 5th layers of roof Polymeric membrane 1.5 mm thick of 2 of five layers prefabricated with centre film sandwiched on both sides with pomix is protected on both side with 20 roop most layer shall be finished with a 10 grouted with cement mortar 1:3 (with 2% integral water proofing composite the proof of the pr	dified Polymeric memberane umen primer @ 0.40 litre per ing material @ 1.20 Kg/sqm, nen of grade 85/25 conforming ing membrane APP modified 2.25 Kg/sqm weight consisting a core as 20 micron HMHDPE lymeric mix and the polymeric micron HMHDPE film. 7th, the prick tiles of class designation a cement: 3 fine sand) mixed bund by weight of cement over 1 cement: 3 fine sand) and	og m	615.00
	finished neat (item of laying brick tiles	sinan be paid for separately).	sqm	615.00

Code No.	Description	Unit	Rate ₹
14.87	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 @ 0.40 litre 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).	sqm	454.80
14.88	Providing and laying in situ seven course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	sqm	732.75
14.89	Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same 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.	sqm	445.80
	(-3	-1	

Code No.	Description	Unit	Rate ₹
14.90	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:		
	14.90.1 3 mm thick	sqm	534.10
14.91	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscocity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane:		
	14.91.1 3 mm thick	sqm	563.50
14.92	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	103.50
14.93	Providing round the clock security guard without gun for watch & ward of Government premises and its all belongings by deploying neatly dressed security guards in 8 hour's shift including necessary T&P like torch, lathi and uniform etc.complete, as per the direction of Engineer-in-charge. (One job means 8 hour's duty).	each job	1077.30
14.94	Providing round the clock security guard with gun for watch & ward of Government premises and its all belongings by deploying neatly dressed security guards in 8 hour's shift including necessary T&P like torch, lathi and uniform etc.complete, as per the direction of Engineer-in-charge.(One job means 8 hour's duty).	each job	1169.65



BASIC RATES (SH:15.0 DISMANTLING AND DEMOLISHING)

Tractor with ripper attachment Tractor with trolley Air compressor 250 cfm with two leads for pneumatic cutters / hammers Joint cutting machine with 2-3 blades Bandhani Bhisti Carpenter 2nd class Carpenter 2nd class Eldar Coolie Fitter (grade 1) Assistant Fitter or 2nd class Mason (brick layer) 1st class	day day day day day day	1200.00 1200.00 1600.00 800.00 714.00
Air compressor 250 cfm with two leads for pneumatic cutters / hammers 0041 Joint cutting machine with 2-3 blades 0100 Bandhani 0101 Bhisti 0103 Blacksmith 2nd class 0112 Carpenter 2nd class 0114 Beldar 0115 Coolie 0116 Fitter (grade 1) 0117 Assistant Fitter or 2nd class Fitter 0123 Mason (brick layer) 1st class	day day day	1600.00 800.00
hammers 0041 Joint cutting machine with 2-3 blades 0100 Bandhani 0101 Bhisti 0103 Blacksmith 2nd class 0112 Carpenter 2nd class 0114 Beldar 0115 Coolie 0116 Fitter (grade 1) 0117 Assistant Fitter or 2nd class Fitter 0123 Mason (brick layer) 1st class	day day	800.00
0100 Bandhani 0101 Bhisti 0103 Blacksmith 2nd class 0112 Carpenter 2nd class 0114 Beldar 0115 Coolie 0116 Fitter (grade 1) 0117 Assistant Fitter or 2nd class Fitter 0123 Mason (brick layer) 1st class	day	
0101 Bhisti 0103 Blacksmith 2nd class 0112 Carpenter 2nd class 0114 Beldar 0115 Coolie 0116 Fitter (grade 1) 0117 Assistant Fitter or 2nd class Fitter 0123 Mason (brick layer) 1st class	•	714.00
0103 Blacksmith 2nd class 0112 Carpenter 2nd class 0114 Beldar 0115 Coolie 0116 Fitter (grade 1) 0117 Assistant Fitter or 2nd class Fitter 0123 Mason (brick layer) 1st class	day	
O112 Carpenter 2nd class O114 Beldar O115 Coolie O116 Fitter (grade 1) O117 Assistant Fitter or 2nd class Fitter O123 Mason (brick layer) 1st class	-	714.00
0114 Beldar 0115 Coolie 0116 Fitter (grade 1) 0117 Assistant Fitter or 2nd class Fitter 0123 Mason (brick layer) 1st class	day	714.00
0115 Coolie 0116 Fitter (grade 1) 0117 Assistant Fitter or 2nd class Fitter 0123 Mason (brick layer) 1st class	day	714.00
0116 Fitter (grade 1) 0117 Assistant Fitter or 2nd class Fitter 0123 Mason (brick layer) 1st class	day	645.00
0117 Assistant Fitter or 2nd class Fitter 0123 Mason (brick layer) 1st class	day	645.00
0123 Mason (brick layer) 1st class	day	784.00
	day	714.00
	day	784.00
0124 Mason (brick layer) 2nd class	day	714.00
0128 Mate	day	714.00
0130 Mistry	day	784.00
O139 Skilled Beldar (for floor rubbing etc.)	day	714.00
0761 Fuel wood	quintal	500.00
0771 Kerosene oil	litre	50.00
2264 Carriage of Rubbish	cum	163.93
9977 Carriage	L.S.	2.12
9988 Carriage and sundries	L.S.	2.12
9999 Sundries	L.S.	2.12

15.0 DISMANTLING AND DEMOLISHING

Code No.		Description	Unit	Rate ₹
15.1		shing lime concrete manually/ by mechanical means and all of material within 50 metres lead as per direction of Engineer-	cum	701.95
15.2	includir	shing cement concrete manually/ by mechanical means ng disposal of material within 50 metres lead as per direction neer - in - charge.		
	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	2007.10
	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	cum	1239.60
15.3	stackin	shing R.C.C. work manually/ by mechanical means including g of steel bars and disposal of unserviceable material within res lead as per direction of Engineer - in- charge.	cum	2928.10
15.4	stackin	shing R.B. work manually/ by mechanical means including g of steel bars and disposal of unserviceable material within res lead as per direction of Engineer-in- charge.	cum	2619.45
15.5	in R.C.	or cutting reinforcement bars manually/ by mechanical means a.C. or R.B. work (Payment shall be made on the cross al area of R.C.C. or R.B. work) as per direction of Engineer-	sqm	947.10
15.6		or scrapping, cleaning and straightening reinforcement from or R.B. work.	kg	7.45
15.7	stackin	shing brick work manually/ by mechanical means including g of serviceable material and disposal of unserviceable material 60 metres lead as per direction of Engineer-in-charge.		
	15.7.1	In mud mortar	cum	581.15
	15.7.2	In lime mortar with old mughal bricks	cum	1470.00
	15.7.3	In lime mortar	cum	701.95
	15.7.4	In cement mortar	cum	1698.45
15.8		ing mortar from bricks and cleaning bricks including stacking a lead of 50 m (stacks of cleaned bricks shall be measured):		
	15.8.1	From brick work in mud mortar	1000 Nos	3839.15
	15.8.2	From brick work in lime mortar	1000 Nos	4414.15
	15.8.3	From brick work in cement mortar	1000 Nos	5522.25
15.9	includi unservi	shing stone rubble masonry manually/ by mechanical means ng stacking of serviceable material and disposal of ceable material within 50 metres lead as per direction of er-in-charge:		
	15.9.1	In lime mortar	cum	954.80
	15.9.2	In cement mortar	cum	2027.10

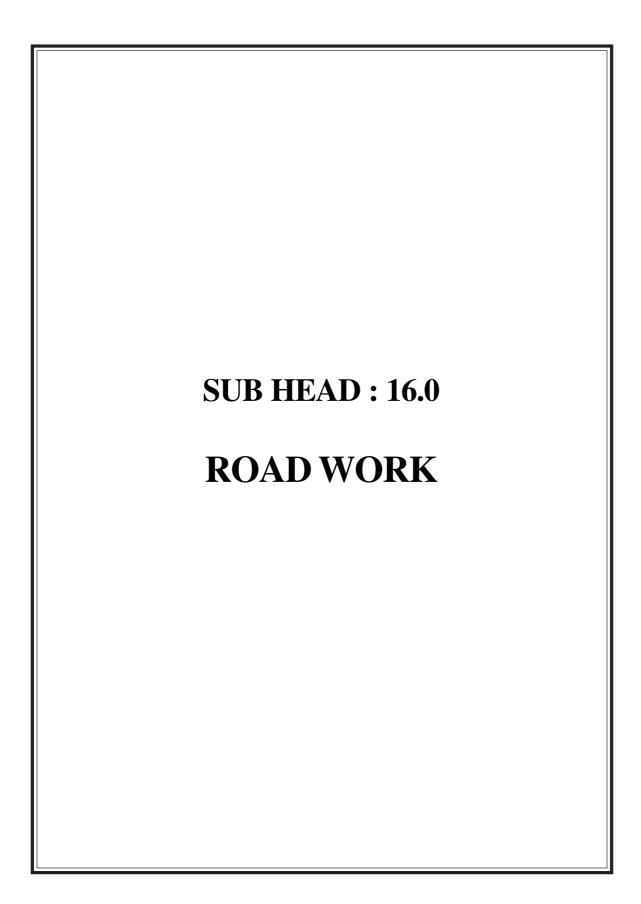
Code No.	Description	Unit	Rate ₹
15.10	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge:		
	15.10.1 In lime mortar	cum	1207.25
	15.10.2 In cement mortar	cum	2372.30
15.11	Removing mortar from and cleaning stones and concrete articles (net quantity of stacks of cleaned materials will be measured):		
	15.11.1 In lime mortar	cum	394.45
	15.11.2 In cement mortar	cum	568.15
15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead:		
	15.12.1 Of area 3 sq. metres and below	each	302.70
	15.12.2 Of area beyond 3 sq. metres	each	414.55
15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:		
	15.13.1 Of area 3 sq. metres and below	each	118.30
	15.13.2 Of area beyond 3 sq. metres	each	155.75
15.14	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead:		
	15.14.1 Of sectional area 40 square centimetres and above	cum	3674.50
	15.14.2 Of sectional area below 40 square centimetres	metre	14.70
15.15	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional 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	487.95
	15.15.2 Of sectional area below 40 square centimetres	metre per metre span	1.35
15.16	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional height of one metre or part thereof beyond 5 metres:		
	15.16.1 Of sectional area 40 square centimetres and above	cum per metre span	708.30
	15.16.2 Of sectional area below 40 square centimetres	metre per metre span	2.80
15.17	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:		
	15.17.1 R.S. Joists	kg	2.80
	15.17.2 Channels, angles, tees and flats	kg	1.90

Code No.	Description	Unit	Rate ₹
15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	kg	4.65
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	3.20
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	0.70
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	0.70
15.22	Extra for marking of structural steel work required to be re-erected.	kg	3.80
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	60.50
	15.23.2 For thickness of tiles above 25 mm and up to 40 mm	sqm	93.40
15.24	Demolishing dry brick pitching in floors, drains etc. including stacking of serviceable material and disposal of unserviceable material within 50 metres lead:	cum	1086.45
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	219.75
15.26	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	86.80
15.27	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	cum	753.75
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	136.00
	15.28.2 Asbestos Cement sheet	sqm	63.75
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		0407.55
15.30	within 50 metres lead. Dismantling jack arch roofing and floors including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	cum	2197.55
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	173.15
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	47.65

Code No.	Description	Unit	Rate ₹
15.33	Dismantling wooden ballies in posts and struts including stacking within 50metres lead.	metre	17.30
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	192.95
	15.34.2 R.C.C.	each	204.80
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	11.80
15.36	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	kg	30.35
15.37	Dismantling wooden trellis work excluding frames but including stacking the serviceable material within 50 metres lead.	sqm	53.50
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	62.50
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	50.35
	15.39.2 Thickness above 10 mm up to 25 mm	sqm	64.15
	15.39.3 Thickness above 25 mm up to 40 mm	sqm	74.70
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	238.65
	15.40.2 Thickness above 40 mm up to 75 mm	sqm	357.60
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	46.50
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	62.40
	15.42.2 100 mm dia pipe	metre	64.30
	15.42.3 150 mm dia pipe	metre	66.20
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	179.65
	15.43.2 bituminous road	sqm	353.65

Code No.	Description	Unit	Rate ₹
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	124.10
	15.44.2 Above 40 mm nominal bore	metre	134.25
15.45	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:		
	15.45.1 Up to 150 mm diameter	metre	340.70
	15.45.2 Above 150 mm dia up to 300 mm dia	metre	448.15
	15.45.3 Above 300 mm diameter	metre	583.30
15.46	Dismantling steel cylinder R.C. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metres lead as per direction of Engineer-in-charge:		
	15.46.1 Up to 600 mm diameter	metre	574.85
	15.46.2 Above 600 mm diameter	metre	1447.60
15.47	Dismantling asbestos cement pressure pipes including excavation and refilling trenches after taking out the pipes manually/ by mechanical means and stacking the pipes within 50 metres lead as per direction of Engineer-in-charge:		
	15.47.1 Up to 150 mm diameter	metre	273.80
	15.47.2 Above 150 mm diameter	metre	332.25
15.48	Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	each	576.25
15.49	Taking out C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	each	336.25
15.50	Dismantling of R.C.C. spun vent shaft including excavating the cement concrete pit completely, taking out the shaft, refilling the excavated gap, stacking the useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	3817.90

Code No.	Description	Unit	Rate ₹
15.51	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap.	each	791.65
15.52	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	744.60
15.53	Dismantling of C.I. sluice valve including stacking of useful materials within a lead of 50 metres		
	15.53.1 Up to 150 mm diameter	each	264.65
	15.53.2 Above 150 mm diameter	each	976.60
15.54	Dismantling of spindle fire hydrant including stacking of useful materials within 50 metres lead.	each	598.05
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	910.15
	15.55.2 210 x 120 cm (outside to outside)	each	1396.00
	15.55.3 320 x 120 cm (outside to outside)	each	1976.05
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	45.05
15.57	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	sqm	46.50
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	2328.55
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	347.90
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		040.05
	including all lifts involved.	cum	219.35



BASIC RATES (SH: 16.0 ROAD WORK)

Code No.	Description	Unit	Rate ₹
0001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	800.00
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	3000.00
0004	Production cost of concrete by batch mix plant	cum	400.00
0007	Hire charges of Coaltar Sprayer	day	350.00
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	210.00
0012	Vibrator (Needle type 40 mm)	day	350.00
0013	Machine for rubbing of floors	day	300.00
0014	Front end loader capacity 1.00 cum	day	6000.00
0016	Mastic Cooker	day	750.00
0017	Hire and running charges of tipper	day	3750.00
0018	Hire and running charges of loader	day	6000.00
0021	Pin vibrator	day	250.00
0022	Surface Vibrator	day	300.00
0023	Hot Bitumen Mixer 0.5 cum i/c hand cart	day	3500.00
0029	Carriage of ready mixed concrete by rotatory transit mixer	km/cum	37.30
0030	Generator 250 KVA	day	3000.00
0033	Paint applicator	day	800.00
0038	Tractor with ripper attachment	day	1200.00
0041	Joint cutting machine with 2-3 blades	day	800.00
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	1200.00
0047	Concrete joint cutting machine	day	600.00
0048	Texturing machine	day	925.00
0049	Dozer D-80-A 12	hour	1500.00
0050	Motor Grader 3.35 metre blade	hour	2400.00
0051	Hydraulic Excavator of 1 cum bucket	hour	800.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	1300.00
0053	Tipper-5 Cum/10 tonnes	tonne/km	3.30
0054	Vibratory roller 8 to 10 tonne	hour	600.00

Code No.	Description	Unit	Rate ₹
0055	Smooth Wheeled Roller 8 to 10 tonne	hour	300.00
0056	Tandem Road Roller	hour	1200.00
0057	Water Tanker 5 to 6 KL capacity	hour	200.00
0058	Air compressor	hour	200.00
0059	Wet Mix Plant 60 TPH	hour	950.00
0060	Mechanical Broom Hydraulic	hour	450.00
0061	Emulsion Pressure Distributor of capacity 1750 sqm per hour	hour	700.00
0062	Hot mix Plant -120 TPH capacity	hour	15000.00
0063	Hot mix Plant 100 TPH Capacity	hour	13000.00
0064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	1500.00
0065	Paver finisher Mechanical 100 TPH	hour	800.00
0066	Batching and Mixing Plant @ 75 cum per hour	hour	2400.00
0068	Concrete Paver finisher with 40 HP Motor and sensor	hour	3000.00
0069	Generator 250 KVA	hour	400.00
0070	Generator 100 KVA/125 KVA	hour	300.00
0071	Truck 5.5 cum/10 tonnes	tonne km	3.30
0075	Road sweeper (Mechamical Broom) @ 1250 sqm per hour	hour	450.00
0076	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	12000.00
0083	Hire charges of TATA 407 or equivalent for local shifting.	day	1400.00
0100	Bandhani	day	714.00
0101	Bhisti	day	714.00
0102	Blacksmith 1st class	day	784.00
0103	Blacksmith 2nd class	day	714.00
0113	Chowkidar	day	645.00
0114	Beldar	day	645.00
0115	Coolie	day	645.00
0116	Fitter (grade 1)	day	784.00
0123	Mason (brick layer) 1st class	day	784.00
0124	Mason (brick layer) 2nd class	day	714.00
0125	Mason (for plain stone work) 2nd class	day	714.00
0126	Mason (for ornamental stone work) 1st class	day	784.00
0128	Mate	day	714.00
0130	Mistry	day	784.00
0131	Painter	day	714.00
0138	Sprayer (for bitumen, tar etc.)	day	714.00

0155' Mason (average) day 748 0286 Brick Aggregate (Single size) : 50 mm nominal size cum 656 0287 Brick Aggregate (Single size) : 40 mm nominal size cum 100 0291 Stone Aggregate (Single size) : 50 mm nominal size cum 100 0292 Stone Aggregate (Single size) : 50 mm nominal size cum 130 0293 Stone Aggregate (Single size) : 20 mm nominal size cum 135 0294 Stone Aggregate (Single size) : 20 mm nominal size cum 135 0295 Stone Aggregate (Single size) : 12.5 mm nominal size cum 135 0296 Stone Aggregate (Single size) : 10 mm nominal size cum 135 0297 Stone Aggregate (Single size) : 10 mm nominal size cum 140 0304 Bajri cum 100 0309 Paving bitumen of grade VG-10 of approved quality tonne 2561 0310 Bitumen emulsion tonne 3479 0312 Bitumen for probleum bitumen of penetration 85/25 of approved quality tonne 3479	Code No.	Description	Unit	Rate ₹
0286 Brick Aggregate (Single size) : 50 mm nominal size cum 656 0287 Brick Aggregate (Single size) : 40 mm nominal size cum 650 0291 Stone Aggregate (Single size) : 50 mm nominal size cum 1000 0292 Stone Aggregate (Single size) : 25 mm nominal size cum 1300 0293 Stone Aggregate (Single size) : 25 mm nominal size cum 1350 0294 Stone Aggregate (Single size) : 20 mm nominal size cum 1350 0295 Stone Aggregate (Single size) : 20 mm nominal size cum 1400 0296 Stone Aggregate (Single size) : 12.5 mm nominal size cum 1350 0297 Stone Aggregate (Single size) : 10 mm nominal size cum 1350 0297 Stone Aggregate (Single size) : 10 mm nominal size cum 1400 0298 Stone Aggregate (Single size) : 10 mm nominal size cum 1350 0297 Stone Aggregate (Single size) : 10 mm nominal size cum 1400 0298 Stone Aggregate (Single size) : 10 mm nominal size cum 1350 0304 Bajri cu	0139	Skilled Beldar (for floor rubbing etc.)	day	714.00
0287 Brick Aggregate (Single size) : 40 mm nominal size cum 656 0291 Stone Aggregate (Single size) : 63 mm nominal size cum 100 0292 Stone Aggregate (Single size) : 50 mm nominal size cum 100 0293 Stone Aggregate (Single size) : 25 mm nominal size cum 130 0294 Stone Aggregate (Single size) : 25 mm nominal size cum 140 0295 Stone Aggregate (Single size) : 12.5 mm nominal size cum 135 0296 Stone Aggregate (Single size) : 12.5 mm nominal size cum 135 0297 Stone Aggregate (Single size) : 10 mm nominal size cum 136 0298 Stone Aggregate (Single size) : 10 mm nominal size cum 136 0298 Stone Aggregate (Single size) : 10 mm nominal size cum 130 0298 Stone Aggregate (Single size) : 10 mm nominal size cum 130 0298 Stone Aggregate (Single size) : 10 mm nominal size cum 130 0299 Paving bitumen of the size of	0155*	Mason (average)	day	749.00
0291 Stone Aggregate (Single size) : 63 mm nominal size cum 1000 0292 Stone Aggregate (Single size) : 50 mm nominal size cum 100 0293 Stone Aggregate (Single size) : 40 mm nominal size cum 130 0294 Stone Aggregate (Single size) : 25 mm nominal size cum 135 0295 Stone Aggregate (Single size) : 20 mm nominal size cum 140 0296 Stone Aggregate (Single size) : 10 mm nominal size cum 135 0297 Stone Aggregate (Single size) : 10 mm nominal size cum 140 0298 Stone Aggregate (Single size) : 06 mm nominal size cum 140 0304 Bajiri cum 100 0309 Paving bitumen of grade VG-10 of approved quality tonne 2561- 0310 Bitumen emulsion tonne 32950 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 3479 0314 Bitumen solution primer of approved quality litre 4.	0286	Brick Aggregate (Single size): 50 mm nominal size	cum	650.00
0292 Stone Aggregate (Single size) : 50 mm nominal size cum 1000 0293 Stone Aggregate (Single size) : 40 mm nominal size cum 1301 0294 Stone Aggregate (Single size) : 25 mm nominal size cum 1400 0295 Stone Aggregate (Single size) : 20 mm nominal size cum 1400 0296 Stone Aggregate (Single size) : 12.5 mm nominal size cum 1350 0297 Stone Aggregate (Single size) : 10 mm nominal size cum 1400 0298 Stone Aggregate (Single size) : 06 mm nominal size cum 1400 0304 Bajri cum 1000 0309 Paving bitumen of grade VG-10 of approved quality tonne 2561 0310 Bitumen emulsion tonne 32950 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 3479 0314 Bitumen solution primer of approved quality litre 45 0317 Premoulded joint filler 12 mm thick sqm 36	0287	Brick Aggregate (Single size): 40 mm nominal size	cum	650.00
0293 Stone Aggregate (Single size) : 40 mm nominal size cum 1300 0294 Stone Aggregate (Single size) : 25 mm nominal size cum 1351 0295 Stone Aggregate (Single size) : 20 mm nominal size cum 1400 0296 Stone Aggregate (Single size) : 10 mm nominal size cum 1351 0297 Stone Aggregate (Single size) : 10 mm nominal size cum 1400 0298 Stone Aggregate (Single size) : 06 mm nominal size cum 1400 0304 Bajri cum 1000 0309 Paving bitumen of grade VG-10 of approved quality tonne 2561-6 0310 Bitumen emulsion tonne 30800 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 34790 0314 Bitumen solution primer of approved quality litre 45 0316 Bitumen solution primer of approved quality litre 45 0317 Premoulded joint filler 12 mm thick sqm 36 03	0291	Stone Aggregate (Single size): 63 mm nominal size	cum	1000.00
0294 Stone Aggregate (Single size) : 25 mm nominal size cum 1356 0295 Stone Aggregate (Single size) : 20 mm nominal size cum 1400 0296 Stone Aggregate (Single size) : 12.5 mm nominal size cum 1356 0297 Stone Aggregate (Single size) : 10 mm nominal size cum 1350 0298 Stone Aggregate (Single size) : 06 mm nominal size cum 1400 0304 Bajri cum 1000 0309 Paving bitumen of grade VG-10 of approved quality tonne 2561-4 0310 Bitumen emulsion tonne 30800 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 34790 0314 Bitumen solution primer of approved quality litre 45 0316 Bitumen solution primer of approved quality litre 45 0317 Premoulded joint filler 12 mm thick sqm 36 0323 Separation Membrane of impermeable plastic sheeting 125 micron thick sqm 12 <td>0292</td> <td>Stone Aggregate (Single size): 50 mm nominal size</td> <td>cum</td> <td>1000.00</td>	0292	Stone Aggregate (Single size): 50 mm nominal size	cum	1000.00
0295 Stone Aggregate (Single size): 20 mm nominal size cum 1400 0296 Stone Aggregate (Single size): 12.5 mm nominal size cum 1350 0297 Stone Aggregate (Single size): 10 mm nominal size cum 1350 0298 Stone Aggregate (Single size): 06 mm nominal size cum 1400 0304 Bajri cum 1000 0309 Paving bitumen of grade VG-10 of approved quality tonne 2561- 0310 Bitumen emulsion tonne 3890 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 34790 0314 Bitumen hot sealing compound : grade A kg 25 0316 Bitumen solution primer of approved quality litre 43 0317 Premoulded joint filler 12 mm thick sqm 360 0323 Separation Membrane of impermeable plastic sheeting 125 micron thick sqm 12 0349 Curing compound litre 33 23	0293	Stone Aggregate (Single size): 40 mm nominal size	cum	1300.00
0296 Stone Aggregate (Single size): 12.5 mm nominal size cum 1356 0297 Stone Aggregate (Single size): 10 mm nominal size cum 1356 0298 Stone Aggregate (Single size): 06 mm nominal size cum 1400 0304 Bajri cum 1000 0309 Paving bitumen of grade VG-10 of approved quality tonne 25614 0310 Bitumen emulsion tonne 30800 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 34790 0314 Bitumen hot sealing compound : grade A kg 25 0316 Bitumen solution primer of approved quality litre 45 0317 Premoulded joint filler 12 mm thick sqm 360 0323 Separation Membrane of impermeable plastic sheeting 125 micron thick sqm 12 0349 Curing compound litre 33 23 33 34 34 34 34 34 34 34 34 </td <td>0294</td> <td>Stone Aggregate (Single size): 25 mm nominal size</td> <td>cum</td> <td>1350.00</td>	0294	Stone Aggregate (Single size): 25 mm nominal size	cum	1350.00
0297 Stone Aggregate (Single size) : 10 mm nominal size cum 1350 0298 Stone Aggregate (Single size) : 06 mm nominal size cum 1400 0304 Bajri cum 1000 0309 Paving bitumen of grade VG-10 of approved quality tonne 25614 0310 Bitumen emulsion tonne 30800 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 34790 0314 Bitumen hot sealing compound : grade A kg 25 0316 Bitumen solution primer of approved quality litre 47 0317 Premoulded joint filler 12 mm thick sqm 36 0323 Separation Membrane of impermeable plastic sheeting 125 micron thick sqm 12 0349 Curing compound litre 33 0364 Wire brush each 20 0365 Soft brush each 20 0367 Portland Cement (OPC-43 Grade) tonne 50	0295	Stone Aggregate (Single size): 20 mm nominal size	cum	1400.00
0298 Stone Aggregate (Single size) : 06 mm nominal size cum 1400 0304 Bajri cum 1000 0309 Paving bitumen of grade VG-10 of approved quality tonne 2561- 0310 Bitumen emulsion tonne 30800 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 34790 0314 Bitumen hot sealing compound : grade A kg 25 0316 Bitumen solution primer of approved quality litre 47 0317 Premoulded joint filler 12 mm thick sqm 360 0323 Separation Membrane of impermeable plastic sheeting 125 micron thick sqm 12 0349 Curing compound litre 33 0364 Wire brush each 20 0365 Soft brush each 20 0367 Portland Cement (OPC-43 Grade) tonne 5000 0370 Coal (steam) quintal 440	0296	Stone Aggregate (Single size): 12.5 mm nominal size	cum	1350.00
0304 Bajri cum 1000 0309 Paving bitumen of grade VG-10 of approved quality tonne 25614 0310 Bitumen emulsion tonne 30800 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 34790 0314 Bitumen hot sealing compound : grade A kg 25 0316 Bitumen solution primer of approved quality litre 47 0317 Premoulded joint filler 12 mm thick sqm 360 0323 Separation Membrane of impermeable plastic sheeting 125 micron thick sqm 12 0349 Curing compound litre 38 0364 Wire brush each 20 0365 Soft brush each 20 0369 Plastic sheet, 1.25 mm thick for dowel bars sqm 28 0370 Coal (steam) quintal 440 0371 Sealant primer kg 13 0374 Pre moulded Joint fi	0297	Stone Aggregate (Single size): 10 mm nominal size	cum	1350.00
0309 Paving bitumen of grade VG-10 of approved quality tonne 25614 0310 Bitumen emulsion tonne 30800 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 34790 0314 Bitumen hot sealing compound : grade A kg 25 0316 Bitumen solution primer of approved quality litre 4 0317 Premoulded joint filler 12 mm thick sqm 360 0323 Separation Membrane of impermeable plastic sheeting sqm 12 0349 Curing compound litre 38 0364 Wire brush each 20 0365 Soft brush each 20 0369 Plastic sheet, 1.25 mm thick for dowel bars sqm 28 0370 Coal (steam) quintal 44 0371 Sealant primer kg 13 0374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 40 0588	0298	Stone Aggregate (Single size): 06 mm nominal size	cum	1400.00
Bitumen emulsion tonne 30800 0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 34790 0314 Bitumen hot sealing compound : grade A kg 25 0316 Bitumen solution primer of approved quality litre 47 0317 Premoulded joint filler 12 mm thick sqm 360 0323 Separation Membrane of impermeable plastic sheeting 125 micron thick sqm 12 0349 Curing compound litre 38 0364 Wire brush each 20 0365 Soft brush each 20 0367 Portland Cement (OPC-43 Grade) tonne 5000 0369 Plastic sheet, 1.25 mm thick for dowel bars sqm 25 0370 Coal (steam) quintal 440 0371 Sealant primer kg 130 0374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 0379 Unslaked lime (factory made) quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0304	Bajri	cum	1000.00
0312 Bitumen grade PMB - 40 tonne 32950 0313 Blown type petroleum bitumen of penetration 85/25 of approved quality tonne 34790 0314 Bitumen hot sealing compound : grade A kg 25 0316 Bitumen solution primer of approved quality litre 47 0317 Premoulded joint filler 12 mm thick sqm 360 0323 Separation Membrane of impermeable plastic sheeting 125 micron thick sqm 12 0349 Curing compound litre 38 0364 Wire brush each 20 0365 Soft brush each 20 0369 Plastic sheet, 1.25 mm thick for dowel bars sqm 25 0370 Coal (steam) quintal 440 0371 Sealant primer kg 130 0588 Chromium plated Brass screws 25 mm 100 Nos 18 0773 Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0309	Paving bitumen of grade VG-10 of approved quality	tonne	25614.00
Blown type petroleum bitumen of penetration 85/25 of approved quality Bitumen hot sealing compound : grade A kg 25 Bitumen solution primer of approved quality litre 47 Bitumen solution primer approved primer approved primer approved approve	0310	Bitumen emulsion	tonne	30800.00
quality tonne 34790 0314 Bitumen hot sealing compound: grade A kg 25 0316 Bitumen solution primer of approved quality litre 45 0317 Premoulded joint filler 12 mm thick sqm 360 0323 Separation Membrane of impermeable plastic sheeting 125 micron thick sqm 12 0349 Curing compound litre 38 0364 Wire brush each 20 0365 Soft brush each 20 0367 Portland Cement (OPC-43 Grade) tonne 5000 0369 Plastic sheet, 1.25 mm thick for dowel bars sqm 28 0370 Coal (steam) quintal 440 0371 Sealant primer kg 130 0374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 0588 Chromium plated Brass screws 25 mm 100 Nos 180 0773 Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) cum 1130	0312	Bitumen grade PMB - 40	tonne	32950.00
0316Bitumen solution primer of approved qualitylitre470317Premoulded joint filler 12 mm thicksqm3600323Separation Membrane of impermeable plastic sheeting 125 micron thicksqm120349Curing compoundlitre380364Wire brusheach200365Soft brusheach200367Portland Cement (OPC-43 Grade)tonne50000369Plastic sheet, 1.25 mm thick for dowel barssqm250370Coal (steam)quintal4400371Sealant primerkg1300374Pre moulded Joint filler, 25 mm thick for expansion joint.sqm4000588Chromium plated Brass screws 25 mm100 Nos1800773Unslaked limequintal3000777Dry hydrated lime (factory made)quintal2900784Marble dust/ powdercum1130	0313		tonne	34790.00
O317 Premoulded joint filler 12 mm thick sqm 360 O323 Separation Membrane of impermeable plastic sheeting 125 micron thick sqm 12 O349 Curing compound litre 38 O364 Wire brush each 20 O365 Soft brush each 20 O367 Portland Cement (OPC-43 Grade) tonne 5000 O369 Plastic sheet, 1.25 mm thick for dowel bars sqm 25 O370 Coal (steam) quintal 440 O371 Sealant primer kg 130 O374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 O588 Chromium plated Brass screws 25 mm 100 Nos 180 O773 Unslaked lime quintal 300 O777 Dry hydrated lime (factory made) quintal 290 O784 Marble dust/ powder cum 1130	0314	Bitumen hot sealing compound : grade A	kg	29.00
Separation Membrane of impermeable plastic sheeting 125 micron thick Sqm 12 0349 Curing compound litre 38 0364 Wire brush each 20 0365 Soft brush each 20 0367 Portland Cement (OPC-43 Grade) tonne 5000 0369 Plastic sheet, 1.25 mm thick for dowel bars sqm 29 0370 Coal (steam) quintal 440 0371 Sealant primer kg 130 0374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 0588 Chromium plated Brass screws 25 mm 100 Nos 180 0773 Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0316	Bitumen solution primer of approved quality	litre	47.00
125 micron thick sqm 12 0349 Curing compound litre 38 0364 Wire brush each 20 0365 Soft brush each 20 0367 Portland Cement (OPC-43 Grade) tonne 5000 0369 Plastic sheet, 1.25 mm thick for dowel bars sqm 25 0370 Coal (steam) quintal 440 0371 Sealant primer kg 130 0374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 0588 Chromium plated Brass screws 25 mm 100 Nos 180 0773 Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0317	Premoulded joint filler 12 mm thick	sqm	360.00
Wire brush each 20 0365 Soft brush each 20 0367 Portland Cement (OPC-43 Grade) tonne 5000 0369 Plastic sheet, 1.25 mm thick for dowel bars sqm 25 0370 Coal (steam) quintal 440 0371 Sealant primer kg 130 0374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 0588 Chromium plated Brass screws 25 mm 100 Nos 180 0773 Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0323	· · · · · · · · · · · · · · · · · · ·	sqm	12.00
0365Soft brusheach200367Portland Cement (OPC-43 Grade)tonne50000369Plastic sheet,1.25 mm thick for dowel barssqm250370Coal (steam)quintal4400371Sealant primerkg1300374Pre moulded Joint filler, 25 mm thick for expansion joint.sqm4000588Chromium plated Brass screws 25 mm100 Nos1800773Unslaked limequintal3000777Dry hydrated lime (factory made)quintal2900784Marble dust/ powdercum1130	0349	Curing compound	litre	38.00
Portland Cement (OPC-43 Grade) tonne 5000 0369 Plastic sheet,1.25 mm thick for dowel bars sqm 25 0370 Coal (steam) quintal 440 0371 Sealant primer kg 130 0374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 0588 Chromium plated Brass screws 25 mm 100 Nos 180 0773 Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0364	Wire brush	each	20.00
O369 Plastic sheet,1.25 mm thick for dowel bars sqm 25 0370 Coal (steam) quintal 440 0371 Sealant primer kg 130 0374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 0588 Chromium plated Brass screws 25 mm 100 Nos 180 0773 Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0365	Soft brush	each	20.00
O370 Coal (steam) quintal 440 0371 Sealant primer kg 130 0374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 0588 Chromium plated Brass screws 25 mm 100 Nos 180 0773 Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0367	Portland Cement (OPC-43 Grade)	tonne	5000.00
O371 Sealant primer kg 130 0374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 0588 Chromium plated Brass screws 25 mm 100 Nos 180 0773 Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0369	Plastic sheet, 1.25 mm thick for dowel bars	sqm	25.00
O374 Pre moulded Joint filler, 25 mm thick for expansion joint. sqm 400 0588 Chromium plated Brass screws 25 mm 100 Nos 180 0773 Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0370	Coal (steam)	quintal	440.00
0588Chromium plated Brass screws 25 mm100 Nos1800773Unslaked limequintal3000777Dry hydrated lime (factory made)quintal2900784Marble dust/ powdercum1130	0371	Sealant primer	kg	130.00
Unslaked lime quintal 300 0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0374	Pre moulded Joint filler, 25 mm thick for expansion joint.	sqm	400.00
0777 Dry hydrated lime (factory made) quintal 290 0784 Marble dust/ powder cum 1130	0588	Chromium plated Brass screws 25 mm	100 Nos	180.00
0784 Marble dust/ powder cum 1130	0773	Unslaked lime	quintal	300.00
·	0777	Dry hydrated lime (factory made)	quintal	290.00
0810 Moorum cum 500	0784	Marble dust/ powder	cum	1130.00
World	0810	Moorum	cum	500.00

Code No.	Description	Unit	Rate ₹
0979	Royalty for good earth	cum	40.00
0982	Coarse sand (zone III)	cum	1500.00
0983	Fine sand (zone IV)	cum	900.00
1003	Mild steel round bar above 12 mm dia	quintal	4750.00
1005	Twisted steel/ deformed TMT bars Fe-500D	quintal	4900.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4950.00
1008	Flats up to 10 mm in thickness	quintal	4850.00
1013	Mild steel sheets of 1.00 mm thickness for tanks	quintal	4850.00
1021	Hard drawn steel wire fabric 75 x 25 mm mesh of weight not less than 7.75kg/sqm	sqm	430.00
1028	Straining bolts	each	80.00
1029	Galvanised steel barbed wire of 9.8 kg /100metre	quintal	5500.00
1030	Galvanised steel turn buckles	each	25.00
1151	Boundary stone top chisel dressed 15x15x90 cm	each	80.00
1158	Stone for pitching 15 cm x 22.5 cm	cum	600.00
1159	Stone dust	cum	1100.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	900.00
1215	Welding by electric plant	cm	2.00
1235	Diesel	litre	80.87
1241	Commercial LPG in cylinder	kg	84.00
1980	Fly ash	cum	11.00
2200	Carriage of Steam coal	tonne	187.35
2201	Carriage of Bricks	1000 Nos	437.15
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	163.93
2203	Carriage of Coarse sand	cum	163.93
2205	Carriage of Steel	tonne	145.72
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	178.19
2208	Carriage of Lime	cum	163.93
2209	Carriage of Cement	tonne	145.72
2211	Carriage of Tar / Bitumen	tonne	163.93
2215	Carriage of Soling stone & masonry stone	cum	192.86
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	145.72
2241	Carriage of Good earth	cum	204.92
2260	Carriage of Brick aggregate	cum	178.19
2261	Carriage of Fine sand (1 part of badarpur sand: 2 parts jamuna sand)	cum	163.93
2265	Carriage of Moorum	cum	163.93

Code No.	Description	Unit	Rate ₹
2266	Carriage of Surkhi	cum	163.93
2267	Carriage of Stone dust	cum	163.93
2302	Carriage of G.I. sheet and accessories	tonne	145.72
2311	Carriage of Red bajri	cum	163.93
2314	Carriage of Barbed wire	tonne	145.72
2335	Carriage of sand	cum	163.93
2342	Carriage of Solvent / Diesel.	quintal	16.39
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	4590.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kg	240.00
2901	Stone Aggregate (Single size): 100 mm nominal size	cum	1360.00
2902	Stone Aggregate (Single size): 80 mm nominal size	cum	1360.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	1400.00
2904	Stone chippings/screenings 150 micron nominal size	cum	1400.00
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	550.00
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	600.00
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1200.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1200.00
2914	Solvent	kg	30.00
2916	Paving Asphalt VG 10 of approved quality	tonne	24500.00
5001	Mobil oil	litre	318.00
6501	Sand zone V (Jamuna)	cum	1300.00
7254	Hardening compound	litre	36.00
7255	Road marking paint (spirit based)	litre	115.00
7256	Superior quality road marking paint (water based)	litre	130.00
7280	Waste plastic additive	tonne	38100.00
7295	Granite of colour black, cherry/ruby red 18 mm thick (slab area upto 0.50 sqm)	sqm	1800.00
7296	Granite of colour black, cherry/ruby red 30 mm thick (slab area upto 0.50 sqm)	sqm	1900.00
7297	Granite of all colour except black, cherry/ruby red 18 mm thick (slab area upto 0.50 sqm)	sqm	1000.00
7298	Granite of colour black, cherry/ruby red 18 mm thick (slab area above 0.50 sqm)	sqm	2000.00
7299	Granite of all colour except black, cherry/ruby red 18 mm thick (slab area above 0.50 sqm)	sqm	1200.00
7300	Granite of all colour except black, cherry/ruby red 30 mm thick (slab area above 0.50 sqm)	sqm	2100.00

Code No.	Description	Unit	Rate ₹
7309	Paving Asphalt of grade VG-30 of approved quality	tonne	38150.00
7318	Plasticizer / super plasticizer	kg	29.00
7382	Bitumen emulsion rapid setting (R.S.) confirming to IS: 8887	tonne	18250.00
7426	Cat's eye	each	80.00
7737	Fly ash bricks conforming to I.S. 12894	1000 Nos	3950.00
7741	Modified Bitumen Refinery produced CRMB - 60	tonne	29150.00
7742	Bitumen emulsion medium setting (M.S.) conforming to IS: 8887	tonne	27100.00
7753	Stone Boulder 50 mm to 200 mm	cum	810.00
7773	Coloured inter locking C.C. paver Block (60 mm thick, M-35)	sqm	425.00
7774	Stone size 10x10x7.50cm	each	9.00
7893	Tactile tile	sqm	800.00
7895	Matt finished vitrified tile 100x100 x16 mm	sqm	910.00
7896	Vitrified tile	sqm	450.00
8576	Powder coated Galvanized Iron intermediate cross-T section wire diameter 3.00 mm).	sqm	200.00
8577	Crates made of Mesh type 10x12 (D=100 mm) Zn+PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD).	sqm	250.00
8578	Crates made of Mesh type $10x12$ (D=100 mm) Zn+10% Al alloy + PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD).	sqm	290.00
8685	Delineator	each	336.00
8686	Precast C.C. Kerb stone M - 25	cum	5600.00
8687	Thermoplastic paint	kg	66.00
8688	Glass beads	kg	72.00
8689	Interlocking C.C. paver block (60 mm thick, M-30)	sqm	440.00
8690	High intensity retro - reflective sheet as per IRC 67-2001	sqm	1443.00
8691	Punched tape concertina coil 600 mm dia 10 m openable length (Total length 90 m)	bundle	600.00
8692	RBT reinforced barbed wire	metre	7.00
8693	Turn buckle and strengthening bolt	each set	42.00
8694	Precast pavement slab 450 x 450 x 50 mm (M - 30)	each	145.00
8695	Chain link fabric fencing mesh of size $50x50$ mm made of G.I. wire of dia 4 mm	sqm	300.00
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	330.00
8697	Chain link fabric fencing mesh of size $25x25$ mm made of G.I. wire of dia 3 mm	sqm	380.00
8785	Interlocking C.C. paver block (80 mm thick, M-30)	sqm	485.00
9977	Carriage	L.S.	2.12
9999	Sundries	L.S.	2.12

16.0 ROAD WORK

Code No.		Description	Unit	Rate ₹
	ROADS			
16.1	8 to 12 to cm depth including	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres.		180.50
16.2		compaction of earth work in embankment under optimum conditions to give at least 95% of the maximum dry density density).	cum	20.55
16.3	Supplyin	g and stacking at site.		
	16.3.1	90 mm to 45 mm size stone aggregate	cum	1937.60
	16.3.2	63 mm to 45 mm size stone aggregate	cum	1624.50
	16.3.3	53 mm to 22.4 mm size stone aggregate	cum	1837.25
	16.3.4	Over burnt (Jhama) brick aggregate 120 mm to 40 mm	cum	974.25
	16.3.5	Over burnt (Jhama) brick aggregate 90 mm to 45 mm	cum	1041.15
	16.3.6	Stone screening 13.2 mm nominal size (Type A)	cum	1865.00
	16.3.7	Stone screening 11.2 mm nominal size (Type B)	cum	2065.70
	16.3.8	Red bajri	cum	1557.25
	16.3.9	Good earth	cum	624.55
	16.3.10	Moorum	cum	888.30
16.4	to WBM with 3 wh proper gr screening	preading 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	865.80
16.5	binding n to templ	vater bound macadam sub-base with brick aggregate and naterial, earth etc. including screening, sorting and spreading ate and consolidation with light power road-roller etc. e.(payment for brick aggregate and moorum etc. to be made ly)		
	16.5.1	Over burnt (Jhama) brick aggregate 120 mm to 40 mm	cum	725.60
	16.5.2	Over burnt (Jhama) brick aggregate 90 mm to 45 mm	cum	725.60
16.6		g, stacking and Spreading 6 mm thick red bajri, watering ag complete including preparation of the surface and rolling.		
	16.6.1	With road roller/ hand roller	sqm	21.80

Code No.		Description	Unit	Rate ₹
16.7		ging 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	179.50
16.8	-	ing laid lengthwise with half brick depth including excavation, and 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	49.90
16.9	rubbish, l	g metalled (water-bound) road surface including disposal of lead upto 50 m and consolidation of the aggregate received rifying with power road roller of 8 to 10 tonne capacity.	sqm	27.55
16.10	laying br blinding i	pajri path including preparation of subgrade, supplying and rick aggregate of 50 mm nominal size 7.5 cm deep with material consisting of 12 mm moorum and 12 mm red bajri pated with road roller.	sqm	190.05
16.11		e pitching 22.5 cm thick including supply of stones and g surface complete.	sqm	821.95
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	607.20
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	4157.85
	16.13.2	Water bound macadam	cum	2592.10
16.14	-	pajri paths and making good the same including supply of antities of brick aggregate, moorum and red bajri required.	sqm	242.85
	FENCINO	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 coarsesand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-incharge (cost of earth works in excavation, concrete works in foundation to be paid separately).	cum	28603.00
	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	74.45
16.16	Supplyin fencing.	g and fixing turn buckles and straining bolts for barbed wire	each set	243.75

Code No.	Description	Unit	Rate ₹
16.17	Fencing with R.C.C. 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 one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth 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	12.45
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	19.60
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	99.95
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		FE 00
	concrete to be paid for separately).	sqm	55.00
16.21	ROAD SIGNS Engraving letters in hard stone	per cm height per letter	8.70
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	222.40
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	726.90

Code No.	Description	Unit	Rate ₹
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	2499.40
	16.24.2 50x152.5x25 cm size	each	4547.15
	16.24.3 35x93.5x18 cm size	each	1670.60
	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	178.15
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	248.00
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.	eam	137.85
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:	sqm	137.03
	16.28.1 Using bitumen emulsion (minimum 50% bitumen content-RS grade conforming to IS: 8887)	sqm	169.80
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	107.45

Code No.		Description	Unit	Rate ₹
	PREMIX	CARPET		
16.30	grade V0 with med	g and applying tack coat using hot straight run bitumen of G - 10, including heating the bitumen, spraying the bitumen chanically operated spray unit fitted on bitumen boiler, g and preparing the existing road surface as per ations:		
	16.30.1	On W.B.M. @ 0.75 Kg / sqm	sqm	45.20
	16.30.2	On bituminous surface @ 0.50 Kg / sqm	sqm	36.60
16.31	to IS:888	g and applying tack coat using bitumen emulsion conforming 87, using emulsion pressure distributer including preparing ce & 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	11.60
		16.31.1.2 On bituminous surface @ 0.25kg/sqm	sqm	7.90
	16.31.2	With medium setting bitumen emulsion		
		16.31.2.1 On W.B.M / W.M.M. @ 0.4kg/sqm	sqm	16.35
		16.31.2.2 On bituminous surface @ 0.25kg/sqm	sqm	10.85
		se of Item No. 16.81.1 shall be restricted only per site at temperature or for emergency application		
16.32	chipping sqm and of 13.2 r with hot s	emix carpet surfacing with 1.8 cum and 0.90 cum of stone is of 13.2 mm size and 11.2 mm size respectively per 100 52 kg and 56 kg of hot bitumen per cum of stone chippings mm and 11.2 mm size respectively, including a tack coat straight run bitumen, including consolidation with road roller 0 tonne capacity etc. complete (tack coat to be paid for ally).		
	16.32.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	sqm	189.25
	16.32.2	With paving Asphalt grade VG - 30 with no solvent	sqm	211.50
	16.32.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53	sqm	196.00
16.33	stone ch sqm and of 13.2 r with hot s	oremix carpet surfacing with 2.25 cum and 1.12 cum of ippings of 13.2 mm and 11.2 mm size respectively per 100 52 kg and 56 kg of hot bitumen per cum of stone chippings mm and 11.2 mm size respectively, including a tack coat straight run bitumen, including consolidation with road roller tonne capacity etc. complete (tack coat to be paid for	•	
	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	sam	227.00
	16.33.2	With paving Asphalt grade VG - 30 with no solvent	sqm sqm	254.80
	16.33.3	With Refinery Modified Bitumen CRMB 55 conforming to	əyın	2J4.0U
	10.33.3	IRC: SP: 53	sqm	235.45

	Description	Unit	Rate ₹
mm nomi min. 65% per cum	nal size per 100 sqm and bitumen emulsion (medium setting bitumen content) complying with IS: 8887, using 96 kg of chippings, including consolidation with road roller of 6 to	sqm	170.20
mm nomi min. 65% per cum	nal size per 100 sqm and bitumen emulsion (medium setting bitumen contents) complying with IS: 8887, using 96 kg of chippings of road surface, including consolidation with	sqm	205.25
aggregat suitable specified tipper tai pressure of aggreg roller of n	e of quality, size and grading as specified, with bitumen of penetration grade, including required key aggregate as, spreading coarse aggregate with the help of self propelled/ I mounted aggregate spreader and applying bitumen by a distributor and then spreading key aggregate with the help gate spreader complete, including consolidation with road ninimum 8 to 10 tonne capacity to achieve specified values		
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.	sgm	414.20
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/	·	611.55
specifica IS:702, and slope fine grain cum per centre in mm over debris et	g and laying bitumen mastic wearing course (as per tions) with industrial bitumen of grade 85/25 conforming to prepared by using mastic cooker and laid to required level a, including providing antiskid surface with bitumen precoated ed hard stone chipping of approved size at the rate of 0.005 10 sqm and at approximate spacing of 10 cm centre to both directions, pressed into surface protruding 1 mm to 4 mastic surface, including cleaning the surface, removal of c. all complete. (Considering bitumen using 10.2% as per		
16.37.1	25 mm thick	sqm	726.95
16.37.2	40 mm thick	sqm	1163.10
using sto with 10 r sand @ ¹ 56 kg/cu tack coa with roac	one chippings (60% with 12.5 mm nominal size and 40% mm nominal size) @ 1.65 cum per 100 sqm and coarse I.65 cum per 100 sqm of road surface and with bitumen @ m of stone chippings and @ 128 kg/cum of sand over a t with hot straight run bitumen, including consolidation I roller of 8 to 10 tonne etc. complete. (tack coat to be paid		
	mm nomimin. 65% per cum of comparation of comparati	2 cm premix carpet surfacing with 2.4 cum of stone chippings 11.2 mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen content) complying with IS: 8887, using 96 kg per cum of chippings, including consolidation with road roller of 6 to 9 tonne capacity etc. complete. 2.5 cm premix carpet surfacing with 3 cum of stone chippings 10 mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen contents) complying with IS: 8887, using 96 kg per cum of chippings of road surface, including consolidation with road roller etc complete. Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road 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. 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 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 60-20 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 68 kg/ 10 sqm. Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS: 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size	2 cm premix carpet surfacing with 2.4 cum of stone chippings 11.2 mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen content) complying with IS: 8887, using 96 kg per cum of chippings, including consolidation with road roller of 6 to 9 tonne capacity etc. complete. 2.5 cm premix carpet surfacing with 3 cum of stone chippings 10 mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen contents) complying with IS: 8887, using 96 kg per cum of chippings of road surface, including consolidation with road roller etc complete. Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road 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 12.5 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. 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. Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS: 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into

Code No.		Description	Unit	Rate ₹
	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	285.00
	16.38.2	With paving Asphalt grade VG - 30	sqm	331.75
	16.38.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53	sqm	299.15
16.39	using sto with 10 r sand @ 2 56 kg/cu tack coa	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 at with hot straight run bitumen, including consolidation d roller of 8 to 10 tonne etc. complete. (tack coat to be paid ely):		
	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	427.75
	16.39.2	With paving asphalt grade VG - 30 with no solvent	sqm	501.70
	16.39.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53	sqm	450.20
	SEAL CO	DAT		
16.40	2.36 mm kg of bitu and 0.60	g and laying seal coat of premixed fine aggregate (passing and retained on 180 micron sieve) with bitumen using 128 umen of grade VG - 10 bitumen per cum of fine aggregate cum of fine aggregate per 100 sqm of road surface, including and finishing with road roller all complete.	sqm	79.85
16.41	bitumen using 98 0.90 cun sieve and	g and laying seal coat over prepared surface of road with heated 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 d retained on 2.36 mm sieve) per 100 sqm of road surface, rolling and finishing with power road roller all complete.	sqm	106.10
		eal coat items to be operated only with the prior approval of gineer concerned.	·	
	CONCRE	ETE PAVEMENTS		
16.42	aggregat and cam	concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone te 40 mm nominal size) in pavements, laid to required slope ber in panels as required including consolidation finishing bing complete.	cum	7399.20
16.43	roads/ ta mix, usino size in ap criteria, p laying at	g and laying design mix cement concrete of M-30 grade, in axi tracks/ runways, using cement content as per design g coarse sand and graded stone aggregate of 40 mm nominal opropriate proportions as per approved & specified design providing dowel bars with sleeve/ tie bars wherever required, a site, spreading and compacting mechanically by using and surface vibrators, levelling to required slope/ camber,		

Code No.		Description	Unit	Rate ₹
	M.S. cha expansic deep) by approved Engineer	with required texture, including steel form work with sturdy annel sections, curing, making provision for contraction/on, construction & longitudinal joints (10 mm wide x 50 mm groove cutting machine, providing and filling joints with dijoint filler and sealants, complete all as per direction of r-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 ly.		
	16.43.1	Cement concrete prepared with batch mixing machine	cum	9492.90
	16.43.2	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	cum	10006.65
16.44		providing and mixing hardening compound of approved quality anufacturer's specification in cement concrete.	litre	48.15
16.45	RCC roa high pres Engineer hot sealir more tha	g and fixing pre-moulded joint filler in expansion joints of ds / CC pavements after making the joints dust free with ssure air jet cleaners, all complete as per direction of the in-Charge. (Pre-moulded joint fillers shall be made of bitumen ag compound impregnated fibre board having impregnation in 35%, conforming to IS:1838 for fibre board and IS: 1834 realing bitumen compound grade A.)	per cm depth per cm width per metre length	4.70
16.46	compour	g and filling in position rubberized bitumen hot sealing and for sealing of expansion joints in roads / pavements all as per direction of the Engineer-in-Charge.		
	16.46.1	Using grade 'A' sealing compound conforming to IS: 1834.	per cm depth per cm width per metre length	7.50
	PAINTIN	G AREA/RUNWAY MARKING		
16.47	to give u	runway/taxi track/apron marking with adequate nos of coats niform finish with road marking paint of superior make as d by the Engineer-in-charge, i/c cleaning the surface of ail es, oil, grease and other foreign material etc. and lining out e.		
	16.47.1	New work (Two or more coats)	sqm	158.50
	16.47.2	Old work (One or more coats)	sqm	101.60
16.48	uniform f : 164, on	road surface marking with adequate nos of coats to give inish with ready mixed road marking paint conforming to IS bituminous surface in white/yellow shade, including cleaning ce of all dirt, scales, oil, grease and foreign material etc.		
	16.48.1	New work (Two or more coats)	sqm	239.95
	16.48.2	Old work (One or more coats)	sqm	157.60

Description	Unit	Rate ₹
MISCELLANEOUS		
Making bell mouth opening/ entrance of size 100x50x50 cm for drainage pipe under footpath, including providing cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) for shape of bell mouth, including plastering providing and fixing precast R.C.C./ S.F.R.C. slab including plastering with cement mortar 1:3 (1 cement: 3 fine sand) of 6 mm thickness on exposed surface of the slab & bell mouth including centring, shuttering & neat cement punning inside the bell mouth etc. all complete.	each	2712.20
Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degress to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4: 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.	each	175.50
Preparation of sub-base road pavement with commercial dry lime (slaked), fly ash stabilised soil with a mix of 3% lime, 12% fly ash and 85% local suitable soil by weight, so as to achieve minimum field C.B.R. of 20, including mixing, rolling with road roller curing etc. all complete.		
16.51.1 Minimum thickness 15 cm	cum	1321.95
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	12038.85
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 2.4m 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	303.65
	Miscellaneous Making bell mouth opening/ entrance of size 100x50x50 cm for drainage pipe under footpath, including providing cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) for shape of bell mouth, including plastering providing and fixing precast R.C.C./ S.F.R.C. slab including plastering with cement mortar 1:3 (1 cement: 3 fine sand) of 6 mm thickness on exposed surface of the slab & bell mouth including centring, shuttering & neat cement punning inside the bell mouth etc. all complete. Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degress to base. The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4: 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge. Preparation of sub-base road pavement with commercial dry lime (slaked), fly ash stabilised soil with a mix of 3% lime, 12% fly ash and 85% local suitable soil by weight, so as to achieve minimum field C.B.R. of 20, including mixing, rolling with road roller curing etc. all complete. 16.51.1 Minimum thickness 15 cm Providing and fixing precast lime fly ash concrete blocks 1:2:3:6 (1 lime: 2 fly ash: 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. Providing and fixing concertina coil fencing wi	Miscellaneous Making bell mouth opening/ entrance of size 100x50x50 cm for drainage pipe under footpath, including providing cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) for shape of bell mouth, including plastering providing and fixing precast R.C.C./ S.F.R.C. slab including plastering with cement mortar 1:3 (1 cement : 3 fine sand) of 6 mm thickness on exposed surface of the slab & bell mouth including centring, shuttering & neat cement punning inside the bell mouth etc. all complete. Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degress to base. The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4: 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge. Preparation of sub-base road pavement with commercial dry lime (slaked), fly ash stabilised soil with a mix of 3% lime, 12% fly ash and 85% local suitable soil by weight, so as to achieve minimum field C.B.R. of 20, 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. 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 metr

Code No.		Description	Unit	Rate ₹
16.54	crushed bituminor tippers, la the requi wheeled, the desire	g and laying Dense Graded Bituminous Macadam using stone aggregates of specified grading, premixed with us binder and filler, transporting the hot mix to work site by aying with paver finisher equiped with electronic sensor to ired grade, level and alignment and rolling with smooth vibratory and tandem rollers as per specifications to achieve ed compaction and density, complete as per specifications tions of Engineer-in-Charge.		
	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	10013.30
	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	9930.95
16.55	aggregat transport with pave grade, lev and tand compacti	g and laying bituminous macadam using crushed stone tes of specified grading premixed with bituminous binder, ed to site by tippers, laid over a previously prepared surface er finisher equiped with electronic sensor to the required wel and alignment and rolling with smooth wheeled, vibratory lem rollers as per specifications to achieve the desired on and density, complete as per specifications and directions eer-in-Charge.		
	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	7756.40
	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	7678.10
16.56	stone ag binder ar laying witl grade, lev and tand	grand laying semi-dense Bituminous concrete using crushed gregates of specified grading, premixed with bituminous and filler, transporting the hot mix to work site by tippers, he paver finisher equiped with electronic sensor to the required well and alignment and rolling with smooth wheeled, vibratory em rollers to achieve the desired compaction and density secification, complete and as per directions of Engineer-in-		
	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	249.40

Code No.		Description	Unit	Rate ₹
	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	247.35
16.57	aggregat and filler, paver fin 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, a 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	10870.75
	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	11399.20
	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.	cum	9969.20
	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	9310.40
	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	10786.70
	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	11315.15
	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	au.m	
		capacity.	cum	9885.15

Code No.		Description	Unit	Rate ₹
	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	9226.35
16.59	up of 2 m intensity conforming other collingual), substrate heat and fixing the c/c to ba along with M.S. ang Tee sect 100x100 pipes, an size, steenamel pover pring support aluminium over and lifts etc.	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 lour combination including subject matter, message (bisognobles and borders etc. as per IRC; 67:2001, pasted on by an adhesive backing which shall be activated by applying pressure conforming to class -2 of ASTM-D-4956-01 and a same with suitable sized aluminium alloy rivets @ 20 cm ck support frame of M.S. angle iron of size 25x25x3 mm in the the tresistant measures, mounted and fixed with 2 Nos. also of size 35x35x5 mm to a vertical post made up to M.S. ion ISMT 50x50x6 mm welded with base plate of size in gles flats, providing & fixing M.S. message plate of required and of required shade and of approved brand & manufacture and including making holes in gles flats, providing & fixing M.S. message plate of required and of required shade and of approved brand & manufacture and of approved brand & manufacture and coat of zinc chromate yellow primer (vertical MS-Tee to be painted in black and white colours). Backside of misheet to be painted with two or more coats of epoxy paint including appropriate priming coat including all leads and complete as per drawing, specification and direction of in-in-charge.		
	16.59.1	Mandatory/ Regulatory sign boards of 900 mm diametre with support length of 3750 mm	each	5745.95
	16.59.2	Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm	each	4209.20
16.60	boards in covered was approximated in tensity backing was a structural rivets or periphery measure epoxy paincluding rounding	turing, supplying and fixing retro reflective overhead signage nade up of 2 mm thick aluminium sheet, face to be fully with high intensity and encapsulated lens type heat activated ective sheeting conforming to type - III of ASTM-D-4956-01 wed by Engineer-in-charge, letters, borders etc. as per IRC in silver white with blue colour back ground and with high grade, pasted on substrate by pressure sensitive adhesive which shall be activated by applying pressure conforming to of ASTM-D-4956-01 and fixing the same to the plate of I frame work by means of suitable sized aluminium alloys, bolts & nuts @ 300 mm centre to centre all along the y as well as in two vertical rows along with theft resistant s, including the cost of painting with two or more coats of aint in grey colour on the back side of aluminium sheet appropriate priming coat. The rate includes the cost of off the corners, lowering down the structural frame work gantry, fixing and erecting the same in position all complete		

Code No.	Description	Unit	Rate ₹
	as per drawings, specification and direction of the engineer-in- charge.(Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment).		
	16.60.1 Overhead informatory road signage	sqm	5609.55
16.61	Providing Retro-reflective regulatory sign board of size 900 mm dia meter made out of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated lens type retro -reflective sheeting as approved by Engineer-in-charge. Letter, symbols, borders etc. will be as per IRC - 67 with required colour scheme on the boards and with the high intensity grade A. The aluminium sheet to be riveted to M.S. frame of angle iron of size 40x40x4 mm. The boards will be fixed to 1 No. 50x50 mm square post made of M.S. angle 50x50x4 mm, 4 m long welded to the frame with adequate anti-theft arrangement. Sheet work to be painted with two or more coats of synthetic enamel paint over an under coat (primer) and back side of aluminium sheet to be painted with two or more coats of epoxy paint including appropriate priming coat complete in all respects as per direction of Engineer-in-charge.	each	6281.60
16.62	Providing and applying 2.5 mm thick road marking strips (retro-reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable		
16.63	specifications. Providing, laying and making kerb channel 30 cm wide and 50 mm thick with cement concrete 1:3:6 (1 cement: 3 coarse sand:6 graded stone aggregate 20 mm nominal size) over 75mm bed of dry brick 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 sqm	623.80 529.80
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	196.30
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	781.40
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	29.95

Code No.		Description	Unit	Rate ₹
16.67	pavement reinforcer setting in of 20 mm sand), had including	g and fixing at or near ground level factory made RCC at slab of M-30 grade of size 450x450x50 mm, including ment with 6 mm dia M.S. bars 4 nos on each side, including position in footpath to the required level and line over a bed a average thick cement mortar 1:5 (1 cement : 5 coarse aving joint thickness not more than 5mm except on curve, filling of joints with same cement mortar and making grooves blete as per direction of Engineer-in-charge.	sqm	1371.20
16.68	interlocki machine & shape, thick com	g and laying 60mm thick faciory made cement concrete ng paver block of M -30 grade made by block making with strong vibratory compaction, of approved size, design laid in required colour and pattern over and including 50mm apacted bed of coarse sand, filling the joints with line sand amplete as per the direction of Engineer-in-charge.	sqm	951.00
16.69	of M-25 g and curva sand), ind joints exc making d direction be measu	and laying at or near ground level factory made kerb stone trade cement concrete in position to the required line, level ature, jointed with cement mortar 1:3 (1 cement: 3 coarse cluding making joints with or without grooves (thickness of cept at sharp curve shall not to more than 5mm), including trainage opening wherever required complete etc. as per of Engineer-in-charge (length of finished kerb edging shall tred for payment). (Precast C.C. kerb stone shall be approved beer-in-charge).	cum	8613.55
16.70	mesh size nuts, bolt	and fixing G.I. chain link fabric fencing of required width in e 50x50 mm including strengthening with 2 mm dia wire or s and washers as required complete as per the direction of in-charge.		
	16.70.1	Made of G.I. wire of dia 4 mm	sqm	859.50
	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	901.65
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 tening with 2 mm dia wire or nuts, bolts and washers as complete as per the direction of Engineer-in-charge.	sqm	971.90
16.72	Supplying thick at s	g and stacking of hard stone (for stone pitching) 22.5 cm	cum	1060.80
16.73	Dry stone 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 emplete. (Payment for Stone to be made separately).	sqm	542.85
16.74		ick back filling for pitching including supplying of required and consolidation etc. complete with:		
	16.74.1	Moorum	sqm	82.00
	16.74.2	Stone aggregate 20 mm nominal size	sqm	175.85
	16.74.3	Stone aggregate 40 mm nominal size	sqm	167.25

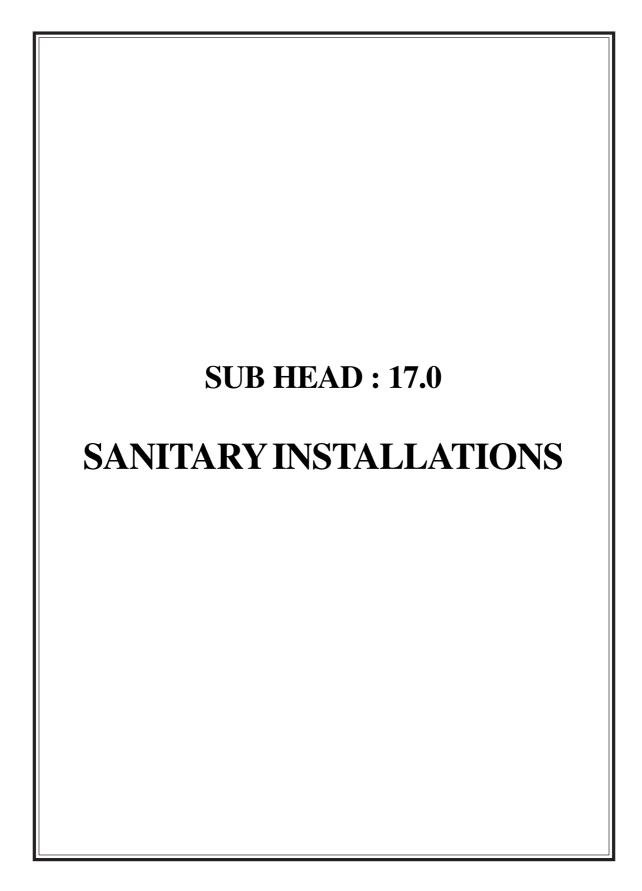
Description	Unit	Rate ₹
Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-incharge. (The panel shuttering work shall be paid for separately).		
(Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	cum	8277.55
Deduct for using of M-20 grade concrete instead of M-25 grade concrete in C.C. pavement.	cum	191.10
Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material within all lifts and lead upto 1km	sam	5.85
Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	54	
16.78.1 With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	cum	2658.10
16.78.2 With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25	cum	2775.65
16.78.3 With material conforming to Grade-III (size range 26.5 mm to 0.075 mm) having CBR Value-20	cum	2612.95
Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub-base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achievethe desired density, complete as per specifications and directions of Engineer-in-Charge.	cum	2803.65
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-charge.	cum	4130.55
	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-incharge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately). Deduct for using of M-20 grade concrete instead of M-25 grade concrete in C.C. pavement. Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material within all lifts and lead upto 1 km (by mechanical means). Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. 16.78.1 With material conforming to Grade-II (size range 75 mm to 0.075 mm) having CBR Value-30 16.78.2 With material conforming to Grade-III (size range 53 mm to 0.075 mm) having CBR Value-20 Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) having CBR value-20 Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achievethe desired density, complete as per specifications and directions of Engineer-in-Charge. Construct	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-incharge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately). Deduct for using of M-20 grade concrete instead of M-25 grade concrete in C.C. pavement. Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material within all lifts and lead upto 1 km (by mechanical means). Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. 16.78.2 With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25 16.78.2 With material conforming to Grade-III (size range 56.5 mm to 0.075 mm) having CBR Value-25 16.78.3 With material conforming to Grade-III (size range 26.5 mm to 0.075 mm) having CBR Value-20 Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) having CBR Value-20 Providing, laying, spreading and compacting with mechanical paverfinisher in sub-base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achievethe desired density, complete as per specifications and directions of Engineer-in-Charge. Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggreg

Code No.	Description	Unit	Rate ₹
16.81	Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed 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).	metre	2827.40
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	32.40
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	108.65
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	362.30

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 mortal 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)		90.85
16.86	Providing and laying gang saw cut 18 mm thick, mirror polished premoulded 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 With granite stone of area less than 0.50 sqm.	sqm	4115.80
16.87	Providing and laying gang saw cut 30 mm thick, mirror polished premoulded 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 (1 cement: 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 With granite stone of colour black, cherry/ruby red of are less than 0.50 sqm.	ea sqm	4256.30
	16.87.2 With granite stone of all colour except black, cherry/rub red of area less than 0.50 sqm.	y sqm	4537.25
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 8 patterns including grouting the joints with white cement mixed with matching pigments etc. complete as direction of Engineer-in-Charge		1866.20
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 (1 cement : 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.		1050.75
	of Engineer-in-Charge.	sqm	1250.75

Code No.	Description	Unit	Rate ₹
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 (1 cement : 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	1719.00
16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, 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 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 sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.		
	16.91.1 60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	sqm	932.35
	16.91.2 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	1011.20
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 (1 cement : 4 coarse sand) with joints 10mm wide filled with same mortar including ruled pointing etc. complete as per direction of engineer-in-charge.	sqm	1871.80
16.93	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	sqm	2617.15
16.94	Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS $16014:2012$,MORTH Clause 2500 , of required size, Mesh Type $10x12$ (D=100 mm with tolerance of \pm 2%) Zinc coated, Mesh wire diameter 3.0 mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2 mm, supplied @ 3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per direction of Engineer-in-charge.	cum	3727.70

Code No.	Description	Unit	Rate ₹
16.95	Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x12(D=100 mm with tolerance of ± 2%) Zinic+PVC coated, Mesh wire diameter2.7/3.7mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2/3.2mm(ID/OD), supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per directions of Engineer-incharge.	cum	3857.20
16.96	Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x12(D=100 mm with tolerance of ±2%), Zinic+10% Al alloy+PVC coated, Mesh wire diameter 2.7/3.7mm (ID/OD), mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2/3.2mm(ID/OD), supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per directions of Engineer-in-charge.	cum	4151.55
	5.14.95.	Jann	1101.00



BASIC RATES (17.0 SANITARY INSTALLATIONS)

Code No.	Description	Unit	Rate ₹
0100	Bandhani	day	714.00
0101	Bhisti	day	714.00
0103	Blacksmith 2nd class	day	714.00
0112	Carpenter 2nd class	day	714.00
0114	Beldar	day	645.00
0115	Coolie	day	645.00
0116	Fitter (grade 1)	day	784.00
0117	Assistant Fitter or 2nd class Fitter	day	714.00
0123	Mason (brick layer) 1st class	day	784.00
0124	Mason (brick layer) 2nd class	day	714.00
0128	Mate	day	714.00
0131	Painter	day	714.00
0295	Stone Aggregate (Single size): 20 mm nominal size	cum	1400.00
0297	Stone Aggregate (Single size): 10 mm nominal size	cum	1350.00
0367	Portland Cement (OPC-43 Grade)	tonne	5000.00
0586	Chromium plated Brass screws 40 mm	100 Nos	290.00
0588	Chromium plated Brass screws 25 mm	100 Nos	180.00
0828	Anticorrosive bituminous paint (black)	litre	100.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	165.00
0982	Coarse sand (zone III)	cum	1500.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4950.00
1309	C.I. bracket for wash basin and sinks	pair	88.00
1313	8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long with S.S. tringular plate for Eureopean type W.C.	each	200.00
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	67.50
1331	M.S. Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	30.00
1332	M.S. Holder bat clamp of approved design for 75 mm S.C.I. pipe	each	27.00
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	35.00
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	37.00
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	25.00
1373	Rubber insertions for 75 mm dia pipe joints	each	16.00
1374	Rubber insertions for 100 mm dia pipe joints	each	18.00
1392	Mirror of superior make glass 60x45 cm	each	450.00

Code No.	Description	Unit	Rate ₹
1396	Vitreous china pedestal for wash basin	each	950.00
1397	Pig lead	kg	210.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	310.00
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	425.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	525.00
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	610.00
1540	Flush pipe and spreaders G.I. for single set of one squatting plate urinal	each	190.00
1541	Flush pipe and spreaders G.I. for range of two squatting plates urinal	each	275.00
1542	Flush pipe and spreaders G.I. for range of three squatting plates urinal	each	310.00
1543	Flush pipe and spreaders G.I. for range of four squatting plates urinal	each	450.00
1614	G.I. inlet connection	each	70.00
1616	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75 mm dia	each	1050.00
1617	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long:100 mm dia	each	1135.00
1620	S.C.I. plain bend 75 mm dia	each	210.00
1621	S.C.I. plain bend 100 mm dia	each	280.00
1624	S.C.I. bend with access door 75 mm dia	each	290.00
1625	S.C.I. bend with access door 100 mm dia	each	350.00
1627	S.C.I. plain single equal junctions 75x75x75 mm dia	each	315.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	405.00
1630	S.C.I. single equal junctions 75x75x75 mm dia with access door	each	390.00
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door	each	455.00
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	410.00
1634	S.C.I. plain double equal junctions 100x100x100x100 mm dia	each	615.00
1636	S.C.I. double equal junctions 75x75x75x75 mm dia with access door	each	525.00
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door	each	730.00
1639	Slotted cowl (terminal guard) 75 mm dia	each	215.00
1640	Slotted cowl (terminal guard) 100 mm dia	each	265.00
1653	Sand cast iron S&S plain single unequal junctions: 100x100x 75 mm dia	each	525.00

Code No.	Description	Unit	Rate ₹
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door	each	575.00
1659	Sand cast iron S&S plain double unequal junctions: 100x100x75x 75 mm dia	each	625.00
1662	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door	each	725.00
1666	Sand cast iron heel rest bend 75 mm dia	each	300.00
1667	Sand cast iron heel rest bend 100 mm dia	each	355.00
1669	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	350.00
1670	S.C.I. single equal invert branch of required degree 100x100x 100 mm dia	each	435.00
1672	S.C.I. double equal invert branch of required degree 75x75x75x 75 mm dia	each	425.00
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	500.00
1677	S.C.I. double unequal invert branch of required degree 100x100x 75x75 mm dia	each	600.00
1682	S.C.I. door pieces 75 mm dia	each	285.00
1683	S.C.I. door pieces 100 mm dia	each	485.00
1685	S.C.I. collar 75 mm dia	each	180.00
1686	S.C.I. collar 100 mm dia	each	270.00
1863	Fire clay kitchen sink: 600x450x250 mm	each	1300.00
1871	White vitreous china laboratory sink 450x300x150 mm	each	1500.00
1872	White vitreous china laboratory sink 600x450x200 mm	each	2500.00
1875	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	410.00
1876	Black plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	325.00
1881	Spun yarn	kg	55.00
1885	15 mm C.P. brass tap	each	270.00
1889	C.P. brass toilet paper holder of standard size	each	280.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 50 mm dia	each	190.00
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	315.00
1896	100 mm S.C.I. trap with vent heel	each	325.00
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	300.00
1898	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	220.00
1913	Vitreous china lipped front urinal	each	470.00

Code No.	Description	Unit	Rate ₹
1915	Vitreous china squatting plate urinal	each	1053.00
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	85.00
1952	C.P. brass waste 40 mm	each	100.00
1953	Vitreous china Indian type W.C. pan of size 580 mm	each	475.00
1954	Vitreous china orrisa type W.C. pan of size 580 mm	each	1290.00
1955	Vitreous china pedestal type water closet	each	1025.00
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	2500.00
1966	Floor mounted white vitrous china double trap syphonic WC with 10 litre cistern and all fittings & fixtures, seat cover etc	each	9800.00
1970	Vitreous china foot rests 250x125x25 mm	pair	103.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	163.93
2203	Carriage of Coarse sand	cum	163.93
2205	Carriage of Steel	tonne	145.72
2209	Carriage of Cement	tonne	145.72
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	300.00
3229	Vitreous china flat back wash basin 550x400 mm	each	550.00
3617	C.P. Brass union 40mm dia	each	210.00
3620	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long:100 mm dia	each	1170.00
3621	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long:75 mm dia	each	1150.00
3624	S.C.I. S&S bends with access door 100 mm dia	each	400.00
3625	S.C.I. S&S bends with access door 75 mm dia	each	300.00
3628	S.C.I. S&S bend 100 mm dia	each	300.00
3629	S.C.I. S&S bend 75 mm dia	each	200.00
3634	S.C.I. S&S heel rest sanitary bend 100 mm dia	each	300.00
3635	S.C.I. S&S heel rest sanitary bend 75 mm dia	each	280.00
3640	S.C.I. S&S single equal junctions 100x100x100 mm	each	500.00
3641	S.C.I. S&S single equal junctions 75x75x75 mm	each	350.00
3644	S.C.I. S&S single equal junctions with access door 100x100x 100 mm	each	500.00
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	390.00

Code No.	Description	Unit	Rate ₹
3650	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	630.00
3651	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	470.00
3654	S.C.I. S&S double equal junctions with access door 100x100x100x 100 mm	each	630.00
3655	S.C.I. S&S double equal junctions with access door 75x75x75x 75 mm	each	500.00
3660	S.C.I. S&S single unequal junctions 100x100x75 mm	each	600.00
3664	S.C.I. S&S single unequal junctions with access door 100x100x 75 mm	each	650.00
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	900.00
3681	S.C.I. S&S single equal invert branch of required degree 100x100x 100 mm dia	each	430.00
3682	S.C.I. S&S single equal invert branch of required degree 75x75x 75 mm dia	each	330.00
3685	S.C.I. S&S double equal invert branch of required degree 100x100x 100x100 mm dia	each	540.00
3686	S.C.I. S&S double equal invert branch of required degree 75x75x 75x75 mm dia	each	450.00
3690	S.C.I. S&S single unequal invert branch of required degree 100x 100x75 mm dia	each	550.00
3695	S.C.I. S&S double unequal invert branch of required degree 100x 100x75x75 mm dia	each	730.00
3699	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	230.00
3707	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	300.00
3708	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	400.00
3712	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	310.00
3713	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	390.00
3716	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	360.00
3717	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	460.00
3728	S.C.I. S&S door pieces 100 mm dia	each	410.00
3729	S.C.I. S&S door pieces 75 mm dia	each	300.00
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	300.00
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	210.00
3738	S.C.I. S&S, collars 100 mm	each	300.00
3739	S.C.I. S&S, collars 75 mm	each	180.00
3746	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	220.00
3747	S.C.I. S&S, 75 mm offset for 100 mm dia pipe	each	360.00
3749	Vitreous china toilet paper holder of standard size	each	110.00

Code No.	Description	Unit	Rate ₹
4202	Red oxide Zinc chromate primer	litre	120.00
7004	Vitreous china flat back wash basin 450x300 mm	each	280.00
7005	Vitreous china 10 litres low level cistern without fittings	each	700.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1200.00
7048	Rawl plug 50 mm (designation 10 nos)	each	22.00
7072	Wall mounted water closet of size 780 x 370x690 mm	each	5500.00
7073	Adjustable Vitreous China Cistern with fittings of flushing capacity 3 litre/ 6litre 9adjustibla to 4 litre/8litre)	each	1600.00
7074	White Vetrious China Waterless Urinal of size 600x330x315 mm	each	9000.00
7075	Cistern with fittings for Waterless Urinal	each	2200.00
7076	Battery based infrared sensor operated white Vitreous Urinal of aprox.size 610x390x370 mm	each	4500.00
7095	Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 250 mm	each	3000.00
7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm	each	3500.00
7097	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 200 mm	each	3200.00
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	2200.00
7102	Stainless steel kitchen sink - without drain board 610x460 mm bowl depth 200 mm	each	1500.00
7103	Stainless steel kitchen sink - without drain board 470x420 mm bowl depth 178 mm	each	1200.00
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	1600.00
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	850.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	1000.00
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	350.00
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	400.00
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	290.00
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	290.00
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	670.00
7116	Hard board 6 mm thick	sqm	115.00
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	25.00
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	33.00

Code No.	Description	Unit	Rate ₹
7119	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32mm dia with length not less than 700 mm i/c PVC waste fittings	each	35.00
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	35.00
7121	Bottle Trap	each	620.00
7122	CP Brass Single lever telephonic wall mixer of approved make	each	4500.00
7123	Coloured High density polyethylene / poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	550.00
7126	White Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	700.00
7127	Coloured Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	1150.00
7358	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe)	each	575.00
7359	P.V.C. automatic flushing cistern 5 litre capacity	each	450.00
7361	P.V.C. automatic flushing cistern 10 litre capacity	each	500.00
7363	15 mm C.P. brass tap with elbow operation lever	each	430.00
7364	White glazed fire clay draining board 600x450x25 mm	each	500.00
7366	Glass reinforced Gypsum (GRG) plaster board 12.5 mm thick confirming to IS 2095 (Part 3):1996	sqm	240.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	445.00
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	765.00
7377	G.i. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1050.00
7378	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals	each	1430.00
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	865.00
7406	PTMT pillar cock	each	115.00
7491	PTMT - Waste Coupling 31/32 mm	each	34.00
7492	PTMT - Waste Coupling 38/40 mm	each	39.00
7493	PTMT - Bottle Trap 31/32 mm	each	200.00
7494	PTMT - Bottle Trap 38/40 mm	each	200.00
7503	PTMT Liquid Soap Container of 400 ml capacity	each	95.00
7504	PTMT - Towel Ring 215x200x37 mm	each	110.00
7505	PTMT - Towel Rail (450 mm long)	each	125.00
7506	PTMT - Towel Rail (600 mm long)	each	145.00
7507	PTMT Shelf 450x124x36 mm	each	150.00
7508	PTMT - Urinal Spreader 15 mm	each	55.00

Code No.	Description	Unit	Rate ₹
7621	Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 100 mm dia (3000 mm length pipe)	metre	700.00
7622	Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 75 mm dia (3000 mm length pipe)	metre	570.00
7623	Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 100mm dia	each	230.00
7624	Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 75 mm dia	each	160.00
7625	Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 100x100x100x100 mm dia	each	510.00
7626	Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 75x75x75x75 mm dia	each	275.00
7627	Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 - 100x100x100 mm dia	each	400.00
7628	Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 - 75x75x75 mm dia	each	215.00
7629	Hubless centrifugally cast (spun) iron double unequal plain junction as per IS 15905 - 100x100x75x75 mm dia	each	400.00
7630	Hubless centrifugally cast (spun) iron single unequal plain junction as per IS 15905 -100x100x75 mm dia	each	375.00
7631	Hubless centrifugally cast (spun) iron double equal plain invert branch as per IS 15905 - 100x100x100 mm dia	each	625.00
7632	Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 - 100x100x100 mm dia	each	390.00
7633	Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 - 75x75x75 mm dia	each	260.00
7634	Hubless centrifugally cast (spun) iron single unequal plain invert branch 45 degree as per IS 15905 - 100x100x75 mm dia	each	430.00
7635	Hubless centrifugally cast (spun) iron 65 mm offset with 100 mm dia pipe as per IS 15905	each	360.00
7636	Hubless centrifugally cast (spun) iron 65 mm offset with 75 mm dia pipe as per IS 15905	each	295.00
7637	Hubless centrifugally cast (spun) iron 130 mm offset with 100 mm dia pipe as per IS 15905	each	440.00
7638	Hubless centrifugally cast (spun) iron 130 mm offset with 75 mm dia pipe as per IS 15905	each	310.00
7639	Hubless centrifugally cast (spun) iron bend with access door - 100mm dia as per IS 15905	each	365.00
7640	Hubless centrifugally cast (spun) iron bend with access door - 75mm dia as per IS 15905	each	290.00
7641	Hubless centrifugally cast (spun) iron terminal guard (slotted cowl) - 100 mm dia as per IS 15905	each	270.00
7642	Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 100 mm outlet as per IS 15905	each	540.00

Code No.	Description	Unit	Rate ₹
7643	Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 75 mm outlet as per IS 15905	each	385.00
7644	SS 304 grade shielded coupling with EPDM rubber gasket for 100mm dia Hubless centrifugally cast (spun) iron	each	275.00
7645	SS 304 grade shielded coupling with EPDM rubber gasket for 75 mm dia Hubless centrifugally cast (spun) iron	each	250.00
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724mm X 578 mm	each	4500.00
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355 mm	each	1500.00
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345 mm	each	2000.00
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	450.00
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	500.00
7858	P.T.M.T. Urinal cock 15 mm dia	each	95.00
9001	C.P. Brass Centre Hole Basin Mixer With Cast Spout	each	1600.00
9977	Carriage	L.S.	2.12
9988	Carriage and sundries	L.S.	2.12
9999	Sundries	L.S.	2.12

17.0 SANITARY INSTALLATIONS

Code No.		Description	Unit	Rate ₹
17.1	pan) wit P.V.C. flu device (I 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 ishing 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 erever required:		
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	5781.35
	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	10076.15
17.2	(Europea P.V.C. flu device (I fixtures o	g and fixing white vitreous china pedestal type water closet an type W.C. pan) with seat and lid, 10 litre low level white ashing 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	5540.55
	17.2.2	W.C. pan with ISI marked black solid plastic seat and lid	each	5426.80
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 and 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	6941.30
	17.3.2	W.C. pan with ISI marked black solid plastic seat and lid	each	6827.55
17.4	lipped from sizes respipe 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	5268.85
	17.4.2	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	each	8115.55
	17.4.3	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern	each	11256.40
	17.4.4	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern	each	15564.35

Code No.		Description	Unit	Rate ₹
17.5	size 580 with fittin unions a 2556, C. including	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, g painting of fittings and cutting and making good the walls is wherever required:		
	17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	each	10128.30
	17.5.2	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern	each	15115.40
	17.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	18546.45
	17.5.4	Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	21880.95
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	7752.60
	17.6.2	Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern	each	11281.10
	17.6.3	Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern	each	14817.35
	17.6.4	Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern	each	17784.35
17.7	pillar tap	g and fixing wash basin with C.I. brackets, 15 mm C.P. brass as, 32 mm C.P. brass waste of standard pattern, including of fittings and brackets, cutting and making good the walls require:		
	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	3392.85
	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	each	2965.60
	17.7.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	each	3158.70
	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	each	2731.45
	17.7.5	White Vitreous China Angle back wash basin size 600 x 480 mm with single 15mm C.P. brass pillar tap	each	2965.60

Code No.			Description	Unit	Rate ₹
	17.7.6		ous China Angle back wash basin size 400 x th single 15 mm C.P. brass pillar tap	each	2564.20
	17.7.7		ous China Flat back wash basin size 450x th single 15mm C.P. brass pillar tap	each	2370.20
	17.7.8	660x460 m	ous China Surgeon type wash basin of size m with a pair of 15 mm C.P. brass pillar taps ncluding operated levers	each	4322.70
	17.7.9	660x460 m	ous China Surgeon type wash basin of size m with single 15 mm C.P. brass pillar taps operated levers ISI Marked	each	3681.40
	17.7.10		teel AISI-304(18/8) Round basin 405x355 mm 15 mm C.P. brass pillar tap	each	4002.50
	17.7.11		teel AISI-304(18/8) Wash basin 530x345 mm 15 mm C.P. brass pillar tap	each	4671.45
17.7A	Brass sin painting	gle hole basin	rash basin with C.I. brackets, 15 mm dia CP mixer of approved quality and make, including brackets, cutting and making good the walls		
	, ,		ina Wash basin size 550x400 mm with a le hole basin mixer	each	4542.40
17.7B	pillar cock painting of whereve	g and fixing w k, 32 mm PTM of fittings and r required. Wh mm with sing	each	2521.85	
17.8	-		nite vitreous china pedestal for wash basin at the back for the reception of pipes and	each	1500.05
17.9	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required:				
	17.9.1	White glaze	d fire clay kitchen sink of size 600x450x 250 mm	each	3302.95
17.10	per IS:13 including	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required:			
	17.10.1	Kitchen sink	with drain board		
		17.10.1.1	510x1040 mm bowl depth 250 mm	each	6008.45
		17.10.1.2	510x1040 mm bowl depth 225 mm	each	6677.40
		17.10.1.3	510x1040 mm bowl depth 200 mm	each	6276.00
		17.10.1.4	510x1040 mm bowl depth 178 mm	each	6008.45

17.10.2.2 610x460 mm bowl depth 200 mm each 17.10.2.3 470x420 mm bowl depth 178 mm each 2 each 17.10.2.3 470x420 mm bowl depth 178 mm each 2 each 17.11 Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40 mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required: 17.11.1 Size 450x300x150 mm each 17.11.2 Size 600x450x200 mm each 17.11.2 Size 600x450x200 mm each 17.11.2 White glazed fire clay draining board of size 600x450x 25 mm each 17.12.1 White glazed fire clay draining board of size 600x450x 25 mm each 17.13.1 Long pattern W.C. pan of size 580 mm each 17.13.2 Orissa pattern W.C. pan of size 580 mm each 17.13.2 Orissa pattern W.C. pan of size 580 mm each 17.14.1 Orissa pattern W.C. pan instead of white W.C. pan: 17.14.1 Orissa pattern W.C. pan 580x440 mm each 17.15 Providing and fixing white vitreous china pedestal type (European type) wash down type) water closet pan. each 17.16 Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 17.16 Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 17.17.1 250x130x30 mm pair 17.17.2 250x130x30 mm pair 17.17.2 250x125x25 mm pair 17.17	Code No.			Description	Unit	Rate ₹
17.10.2.2 610x460 mm bowl depth 200 mm each 17.10.2.3 470x420 mm bowl depth 178 mm each 2 each 17.11 Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required: 17.11.1 Size 450x300x150 mm each 17.11.2 Size 600x450x200 mm each 17.11.2 Size 600x450x200 mm each 17.11.2 White glazed fire clay draining board of size 600x450x 25 mm each 17.12.1 White glazed fire clay draining board of size 600x450x 25 mm each 17.13.1 Long pattern W.C. pan of size 580 mm each 17.13.2 Orissa pattern W.C. pan of size 580 mm each 17.13.2 Orissa pattern W.C. pan of size 580x440 mm each 17.14.1 Orissa pattern W.C. pan instead of white W.C. pan : 17.14 Extra for using coloured W.C. pan instead of white W.C. pan : 17.15 Providing and fixing white vitreous china pedestal type (European type) wash down type) water closet pan. each 17.14.1 Orissa pattern W.C. pan 580x440 mm each 17.15.1 Providing and fixing white vitreous china pedestal type (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 17.16 Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pai		17.10.2	Kitchen sink	without drain board		
17.10.2.3 470x420 mm bowl depth 178 mm each 2 17.11 Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required: 17.11.1 Size 450x300x150 mm each 4. 17.11.2 Size 600x450x200 mm each 5. 17.12 Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required: 17.12.1 White glazed fire clay draining board of size 600x450x 25 mm each 1. 17.13 Providing and fixing white vitreous china water closet squatting pan (Indian type): 17.13.1 Long pattern W.C. pan of size 580 mm each 1. 17.13.2 Orissa pattern W.C. pan of size 580x440 mm each 2. 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 1. 17.15 Providing and fixing white vitreous china pedestal type (European type) water doset pan. each 2. 17.16 Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 1. 17.16 Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 1. 17.17.1 250x130x30 mm pair 17.17.2 250x130x30 mm pair 17.17.2 250x125x25 mm pair 17.17.2 250x125x25 mm pair 17.17.2 250x125x25 mm pair 17.18 Providing and fixing a P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.			17.10.2.1	610x510 mm bowl depth 200 mm	each	4274.40
17.11 Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required: 17.11.1 Size 450x300x150 mm each 4. 17.11.2 Size 600x450x200 mm each 5. 17.12 Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required: 17.12.1 White glazed fire clay draining board of size 600x450x 25 mm each 1. 17.13 Providing and fixing white vitreous china water closet squatting pan (Indian type): 17.13.1 Long pattern W.C. pan of size 580 mm each 1. 17.13.2 Orissa pattern W.C. pan of size 580x440 mm each 2. 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 1. 17.15 Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan. each 1. 17.16 Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 1. 17.16A Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 1. 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pair 17.17.2 250x125x25 mm pair 17.17.2 250x125x25 mm pair 17.17.2 250x125x25 mm pair 17.17.3 and fixtures complete.			17.10.2.2	610x460 mm bowl depth 200 mm	each	3337.85
brackets, C.P. brass chain with rubber plug, 40 mm Č.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required: 17.11.1 Size 450x300x150 mm			17.10.2.3	470x420 mm bowl depth 178 mm	each	2936.45
17.11.2 Size 600x450x200 mm each 50 17.12 Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required: 17.12.1 White glazed fire clay draining board of size 600x450x 25 mm each 15 17.13 Providing and fixing white vitreous china water closet squatting pan (Indian type): 17.13.1 Long pattern W.C. pan of size 580 mm each 17.13.2 Orissa pattern W.C. pan of size 580x440 mm each 17.14.1 Orissa pattern W.C. pan instead of white W.C. pan: 17.14 Extra for using coloured W.C. pan instead of white W.C. pan: 17.15 Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan. each 25 17.16 Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 17.16A Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17 250x130x30 mm pair 17.18 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	17.11	brackets, and 40mr including	C.P. brass ch n C.P. brass tr painting of fit	ain with rubber plug, 40 mm C.P brass waste ap with necessary C.P. brass unions complete, tings and brackets, cutting and making good		
17.12 Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required: 17.12.1 White glazed fire clay draining board of size 600x450x 25 mm each 15. 17.13 Providing and fixing white vitreous china water closet squatting pan (Indian type): 17.13.1 Long pattern W.C. pan of size 580 mm each 17. 17.14.2 Orissa pattern W.C. pan of size 580x440 mm each 27. 17.14.1 Orissa pattern W.C. pan instead of white W.C. pan: 17.15 Providing and fixing white vitreous china pedestal type (European type/wash down type) water closet pan. each 27. 17.16 Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 17. 17.16 Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 17. 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pair 17.18 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.		17.11.1	Size 450x3	00x150 mm	each	4272.95
of brackets, cutting and making good the walls wherever required: 17.12.1 White glazed fire clay draining board of size 600x450x 25 mm each 1: 17.13 Providing and fixing white vitreous china water closet squatting pan (Indian type): 17.13.1 Long pattern W.C. pan of size 580 mm each 1: 17.13.2 Orissa pattern W.C. pan of size 580x440 mm each 2: 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 1: 17.15 Providing and fixing white vitreous china pedestal type (European type/wash down type) water closet pan. each 2: 17.16 Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 17.16A Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pair 17.17.1 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete.		17.11.2	Size 600x4	50x200 mm	each	5610.85
25 mm each 1: 17.13 Providing and fixing white vitreous china water closet squatting pan (Indian type): 17.13.1 Long pattern W.C. pan of size 580 mm each 1: 17.13.2 Orissa pattern W.C. pan of size 580x440 mm each 2: 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 1: 17.15 Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan. each 1: 17.16 Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 1: 17.16A Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 1: 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pair 17.17.8 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.	17.12					
(Indian type): 17.13.1 Long pattern W.C. pan of size 580 mm each 17.13.2 Orissa pattern W.C. pan of size 580x440 mm each 2. 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 17.15 Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan. each 17.16 Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 17.16A Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pair 17.17.8 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.		17.12.1	_	ed fire clay draining board of size 600x450x	each	1351.65
17.13.2 Orissa pattern W.C. pan of size 580x440 mm each 2 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 17.15 Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan. each 17.16 Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 17.16 Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.18 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	17.13	•	,	nite vitreous china water closet squatting pan		
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 Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan. each Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pair Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.		17.13.1	Long patter	n W.C. pan of size 580 mm	each	1667.80
17.14.1 Orissa pattern W.C. pan 580x440 mm each Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan. each Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.18 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.		17.13.2	Orissa patt	ern W.C. pan of size 580x440 mm	each	2758.20
17.15 Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan. Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. each 17.16 Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. each 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pair Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	17.14	Extra for	using coloure	ed W.C. pan instead of white W.C. pan :		
type/ wash down type) water closet pan. Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern. Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.18 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.		17.14.1	Orissa patte	ern W.C. pan 580x440 mm	each	414.75
with low level cistern of same colour instead of white vitreous china W.C pan and cistern. 17.16A Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. 17.17 Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pair 17.18 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	17.15	-		• • • • • •	each	2403.65
1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as approved by Engineer - in - charge. Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pair Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	17.16	with low I	evel cistern o		each	167.25
pattern for squatting pan water closet: 17.17.1 250x130x30 mm pair 17.17.2 250x125x25 mm pair Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	17.16A	1 metre l	ong with S.S.	triangular plate to Eureopean type W.C. of	each	299.35
17.17.2 250x125x25 mm pair 17.18 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	17.17					
17.18 Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.		17.17.1	250x130x3	0 mm	pair	219.60
controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.		17.17.2	250x125x2	5 mm	pair	223.60
17.18.1 10 litre capacity - White each 1	17.18	controlled	d device (hand	le lever) conforming to IS: 7231, with all fittings		
		17.18.1	10 litre cap	acity - White	each	1023.05
17.18.2 10 litre capacity - coloured each		17.18.2	10 litre capa	acity - coloured	each	989.60

Code No.	Description			Rate ₹
17.19	Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.			
	17.19.1	10 litre (full flush) capacity-white	each	1930.85
	17.19.2	10 litre (full flush) capacity-coloured	each	2532.95
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	586.55
	17.20.2	Black solid plastic seat with lid	each	472.80
	17.20.3	Coloured (other than black & white) solid plastic seat with lid	each	506.25
17.22	Providing with W.C	g and fixing G.I. inlet connection for flush pipe connecting . pan.	each	131.65
17.22A	-	g and fixing CP Brass 32mm size Bottle Trap of approved make and as per the direction of Engineer-in-charge.	each	886.25
17.22B	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.			
	(a) 15 mr	m nominal dia	each	6119.15
17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.			1382.30
17.24		g and fixing white vitreous china squatting plate urinal with im longitudinal flush pipe.	each	3389.35
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	1149.60
	17.25.2	Flat back wash basin of size 550x400 mm	each	915.45
	17.25.3	Angle back wash basin of size 600x480 mm	each	1149.60
	17.25.4	Angle back wash basin of size 400x400 mm	each	748.20
	17.25.5	Flat back wash basin of size 450x300 mm	each	554.20
	17.25.6	Surgeon type wash basin of size 660x460 mm	each	1651.30
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	1884.60
17.27		g and fixing white vitreous china laboratory sink including all connections excluding cost of fittings :		
	17.27.1	Size 450x300x150 mm	each	2152.20
	17.27.2	Size 600x450x200 mm	each	3490.15

Code No.			Description	Unit	Rate ₹
17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.1	Semi rigid p			
		17.28.1.1	32 mm dia	each	90.95
		17.28.1.2	40 mm dia	each	101.65
	17.28.2	Flexible pip	е		
		17.28.2.1	32 mm dia	each	104.35
		17.28.2.2	40 mm dia	each	104.35
17.29	Providing	g and fixing 10	00 mm sand cast Iron grating for gully trap.	each	45.25
17.30	•		position 25 mm diameter mosquito proof nunicipal design.	each	45.30
17.31	glass (of	g and fixing 6 approved qu xed to woode	each	1411.15	
17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing:			eacii	1411.13
	17.32.1	Circular sha	ape 450 mm dia	each	1248.60
	17.32.2	Rectangula	r shape 453x357 mm	each	1158.95
	17.32.3	Oval shape	450x350 mm (outer dimensions)	each	1157.40
	17.32.4	Rectangula	r shape 1500x450 mm	each	1817.20
17.33	supporte brackets	d on anodise	0x120x5 mm glass shelf with edges round off, ed aluminium angle frame with C.P. brass I complete fixed with 40 mm long screws, rawl	each	942.15
17.34	. •	•	ilet paper holder :	eacm	342.13
17.04	17.34.1	C.P. brass	net paper noider.	each	680.80
	17.34.1	Vitreous ch	ina	each	463.00
17.35				eacm	403.00
17.00	17.35.1	Providing and fixing soil, waste and vent pipes: 17.35.1 100 mm dia			
	17.55.1	17.35.1.1	Sand aget iron SVS ping as par IS: 1700	motro	1018.05
		17.35.1.1	Sand cast iron S&S pipe as per IS: 1729 Centrifugally cast (spun) iron socket &	metre	1010.03
			spigot (S&S) pipe as per IS: 3989	metre	1077.40
		17.35.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	metre	1061.25

Code No.			Description	Unit	Rate ₹
	17.35.2	75 mm diar	neter:		
		17.35.2.1	Sand cast iron S&S pipe as per IS: 1729	metre	931.55
		17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	metre	1042.10
		17.35.2.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	metre	867.55
17.36		-	ne joints with spun yarn, cement slurry and cement: 2 fine sand) in S.C.I./ C.I. Pipes:		
	17.36.1	75 mm dia	pipe	each	138.70
	17.36.2	100 mm dia	a pipe	each	163.45
17.37	Sand Ca cement of coarse s	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 mn	n dia pipe	each	308.45
	17.37.2	For 75 mm	dia pipe	each	304.45
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	1		
		17.38.1.1	Sand cast iron S&S as per IS - 1729	each	530.70
		17.38.1.2	Sand cast iron S&S as per IS - 3989	each	597.60
		17.38.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	550.80
	17.38.2	75 mm dia	10.10000	odon	000.00
		17.38.2.1	Sand cast iron S&S as per IS - 1729	each	440.00
		17.38.2.2	Sand cast iron S&S as per IS- 3989	each	453.40
		17.38.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	440.00
17.39	Providino	and fixing pla	ain bend of required degree.		
	17.39.1	100 mm dia			
		17.39.1.1	Sand cast iron S&S as per IS - 1729	each	412.95
		17.39.1.2	Sand cast iron S&S as per IS : 3989	each	439.75
		17.39.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	each	346.05

Code No.			Description	Unit	Rate ₹
	17.39.2	75 mm dia			
		17.39.2.1	Sand cast iron S&S as per IS -1729	each	311.55
		17.39.2.2	Sand cast iron S&S as per IS - 3989	each	298.20
		17.39.2.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	each	244.70
17.40	Providing	g and fixing he	eel rest sanitary bend		
	17.40.1	100 mm dia	1		
		17.40.1.1	Sand cast iron S&S as per IS - 1729	each	513.30
		17.40.1.2	Sand cast iron S&S as per IS - 3989	each	439.75
	17.40.2	75 mm dia			
		17.40.2.1	Sand cast iron S&S as per IS - 1729	each	432.00
		17.40.2.2	Sand cast iron S&S as per IS - 3989	each	405.25
17.41		g and fixing do door, insertion e :			
	17.41.1	100x100x1	00x100 mm		
		17.41.1.1	Sand cast iron S&S as per IS - 1729	each	1038.75
		17.41.1.2	Sand cast iron S&S as per IS - 3989	each	904.95
	17.41.2	75x75x75x	75 mm		
		17.41.2.1	Sand cast iron S&S as per IS - 1729	each	754.45
		17.41.2.2	Sand cast iron S&S as per IS - 3989	each	721.00
17.42	Providing	g and fixing do	ouble equal plain junction of required degree.		
	17.42.1	100x100x1	00x100 mm		
		17.42.1.1	Sand cast iron S&S as per IS - 1729	each	861.20
		17.42.1.2	Sand cast iron S&S as per IS - 3989	each	881.25
		17.42.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	each	720.70
	17.42.2	75x75x75x		odon	720170
		17.42.2.1	Sand cast iron S&S as per IS - 1729	each	579.15
		17.42.2.2	Sand cast iron S&S as per IS - 3989	each	659.45
		17.42.2.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	each	398.55

Code No.			Description	Unit	Rate ₹
17.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
	17.43.1	100x100x1	00 mm		
		17.43.1.1	Sand cast iron S&S as per IS - 1729	each	671.20
		17.43.1.2	Sand cast iron S&S as per IS - 3989	each	731.40
	17.43.2	75x75x75 r	nm		
		17.43.2.1	Sand cast iron S&S as per IS - 1729	each	573.80
		17.43.2.2	Sand cast iron S&S as per IS - 3989	each	573.80
17.44	Providing	g and fixing si	ngle equal plain junction of required degree :		
	17.44.1	100x100x1	00 mm		
		17.44.1.1	Sand cast iron S&S as per IS - 1729	each	580.20
		17.44.1.2	Sand cast iron S&S as per IS - 3989	each	707.30
		17.44.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	573.50
	17.44.2	75x75x75 r		odon	070.00
	.,	17.44.2.1	Sand cast iron S&S as per IS - 1729	each	452.05
		17.44.2.2	Sand cast iron S&S as per IS - 3989	each	498.90
		17.44.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	318.25
17.45		g and fixing do door, insertior			
	17.45.1	100x100x75			
		17.45.1.1	Sand cast iron S&S as per IS - 1729	each	1032.45
		17.45.1.2	Sand cast iron S&S as per IS - 3989	each	1266.60
17.46	Providing	a and fixing do	puble unequal plain junction of required degree :		
-	17.46.1	100x100x7			
		17.46.1.1	Sand cast iron S&S as per IS - 1729	each	874.55
		17.46.1.2	Sand cast iron S&S as per IS - 3989	each	1108.70
		17.46.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	573.50
17.47	access of	Providing and fixing single unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete:			
	17.47.1	100x100x7	5 mm		
		17.47.1.1	Sand cast iron S&S as per IS - 1729	each	831.75
		17.47.1.2	Sand cast iron S&S as per IS - 3989	each	932.10

Code No.			Description	Unit	Rate ₹
17.48	Providing and fixing single unequal plain junction of required degree :				
	17.48.1	100x100x7	5 mm		
		17.48.1.1	Sand cast iron S&S as per IS - 1729	each	740.75
		17.48.1.2	Sand cast iron S&S as per IS - 3989	each	841.10
		17.48.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	540.10
17.49	Providing	g and fixing dou	uble equal plain invert branch of required degree:		
	17.49.1	100x100x1			
		17.49.1.1	Sand cast iron S&S as per IS - 1729	each	774.20
		17.49.1.2	Sand cast iron S&S as per IS 3989	each	760.85
		17.49.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	874.55
	17.49.2	75x75x75x	75 mm		
		17.49.2.1	Sand cast iron S&S as per IS - 1729	each	599.25
		17.49.2.2	Sand cast iron S&S as per IS - 3989	each	632.70
17.50	Providing and fixing single equal plain invert branch of required degree:				
	17.50.1	100x100x1	00 mm		
		17.50.1.1	Sand cast iron S&S as per iron 1729	each	620.35
		17.50.1.2	Sand cast iron S&S as per IS - 3989	each	613.65
		17.50.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	560.15
	17.50.2	75x75x75 r	nm		
		17.50.2.1	Sand cast iron S&S as per IS - 1729	each	498.90
		17.50.2.2	Sand cast iron S&S as per IS - 3989	each	472.10
		17.50.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	378.45
17.51	Providino	g and fixing do	puble unequal invert branch of required degree :		
	17.51.1	100x100x7	5x75 mm		
		17.51.1.1	Sand cast iron S&S as per IS - 1729	each	841.10
		17.51.1.2	Sand cast iron S&S as per IS - 3989	each	1015.05

Code No.			Description	Unit	Rate ₹
17.52	Providing and fixing single unequal plain invert branch of required degree:				
	17.52.1	100x100x7			
		17.52.1.1	Sand cast iron S&S as per IS - 1729	each	707.30
		17.52.1.2	Sand cast iron S&S as per IS - 3989	each	774.20
		17.52.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	613.65
17.53	Providing	and fixing sa	and cast iron S&S off sets as per IS: 1729		
	17.53.1	76 mm off s	sets		
		17.53.1.1	With 75 mm dia pipe	each	324.95
		17.53.1.2	With 100 mm dia pipe	each	512.25
	17.53.2	114 mm off	sets		
		17.53.2.1	With 75 mm dia pipe	each	453.10
		17.53.2.2	With 100 mm dia pipe	each	560.15
	17.53.3 152 mm off sets				
		17.53.3.1	With 75 mm dia pipe	each	532.55
		17.53.3.2	With 100 mm dia pipe	each	666.35
17.53A	Providing and fixing Hubless centrifugally cast iron offsets epoxy coated inside & outside as per IS:15905				
	17.53A.1	65 mm offs	ets		
		17.53A.1.1	With 100 mm dia pipe	each	512.25
		17.53A.1.2	With 75 mm dia pipe	each	425.30
17.54	Providing	and fixing sa			
	17.54.1	75 mm off s			
		17.54.1.1	With 75 mm dia pipe	each	338.35
	17.54.2	150 mm off	sets		
		17.54.2.1	With 75 mm dia pipe	each	447.10
		17.54.2.2	With 100 mm dia pipe	each	580.90
17.54A	-	-	lubless centrifugally cast iron offsets epoxy e as per IS:15905		
	17.54A.1	130 mm off	sets		
		17.54A.1.1	With 100 mm dia	each	627.05
		17.54A.1.2	With 75 mm dia	each	445.35
17.55	•	and fixing douts complete	oor piece, insertion rubber washer 3mm thick, :		
	17.55.1	100 mm			
		17.55.1.1	Sand cast iron S&S as per IS - 1729	each	711.35
		17.55.1.2	Sand cast iron S&S as per IS - 3989	each	611.00

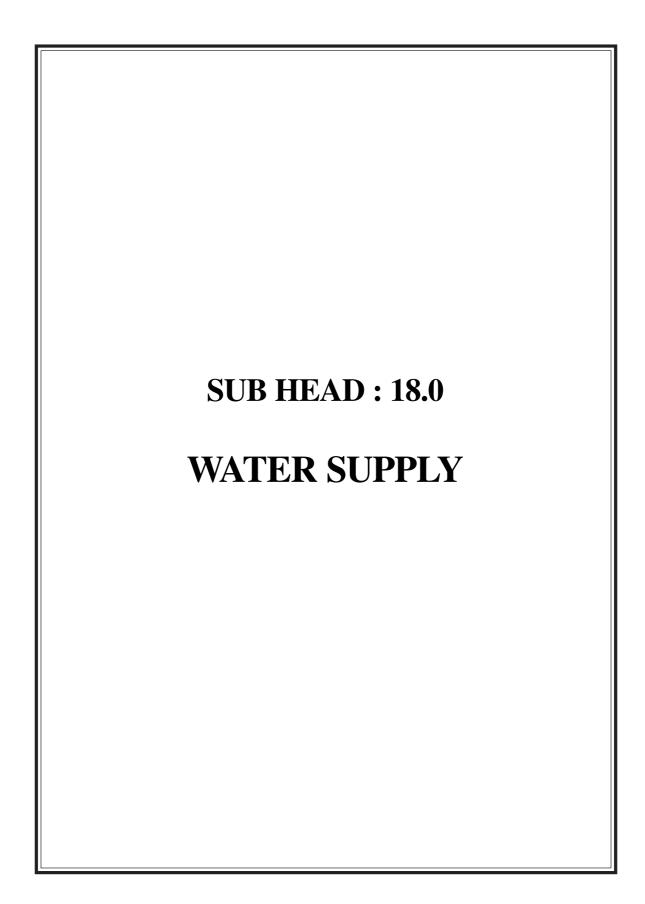
Code No.			Description	Unit	Rate ₹
	17.55.2	75 mm			
		17.55.2.1	Sand cast iron S&S as per IS - 1729	each	433.30
		17.55.2.2	Sand cast iron S&S as per IS - 3989	each	453.40
17.56	Providing	and fixing ter	minal guard :		
	17.56.1	100 mm			
		17.56.1.1	Sand cast iron S&S as per IS - 1729	each	392.90
		17.56.1.2	Sand cast iron S&S as per IS - 3989	each	439.75
		17.56.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	399.60
	17.56.2	75 mm			
		17.56.2.1	Sand cast iron S&S as per IS - 1729	each	318.25
		17.56.2.2	Sand cast iron S&S as per IS - 3989	each	311.55
17.57	Providing	and fixing co	llar :		
	17.57.1	100 mm			
		17.57.1.1	Sand cast iron S&S as per IS - 1729	each	399.60
		17.57.1.2	Sand cast iron S&S as per IS - 3989	each	439.75
	17.57.2	75 mm			
		17.57.2.1	Sand cast iron S&S as per IS - 1729	each	271.45
		17.57.2.2	Sand cast iron S&S as per IS - 3989	each	271.45
17.57A	Providing iron pipe				
	17.57A.1	100 mm dia			
		17.57A.1.1	SS 304 grade coupling with EPDM rubber gasket	each	406.30
	17.57A.2	75 mm dia			
		17.57A.2.1	SS 304 grade coupling with EPDM rubber gasket	each	365.10
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	549.65
	17.58.2	75 mm		each	466.40
	17.58.3	50 mm		each	376.85
17.59			M.S. stays and clamps for sand cast iron/n) iron pipes of diameter:		
	17.59.1	100 mm		each	128.65
	17.59.2	75 mm		each	80.10
	17.59.3	50 mm		each	73.75

Code No.	Description			Unit	Rate ₹
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	1604.10	
		17.60.1.2	Sand Cast Iron S&S as per IS: 1729	each	1403.45
		17.60.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	760.85
	17.60.2	100 mm inl	et and 75 mm outlet		
		17.60.2.1	Sand cast iron S&S as per IS - 3989	each	1671.00
		17.60.2.2	Sand Cast Iron S&S as per IS- 1729	each	1296.40
		17.60.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	553.45
17.61	cast iron same wi graded s	chases in bric /centrifugally th cement co tone aggregat and pointing i			
	17.61.1	100 mm dia	a .	metre	615.70
	17.61.2	75 mm dia		metre	442.20
	17.61.3	50 mm dia		metre	287.50
17.62	inside an	nd white paint d quality) on t	th bitumastic or any other anti-corrosive paint over a coat of zinc chromate yellow primer (of the outside surface of the cistern, flush pipe, plete for new work.	each	844.70
17.63	paint ins flush pipe	ide and white e, other fittings	en with bitumastic or any other anti-corrosive e paint on the outside surface of the cistern, s, etc. complete, including polishing of wooden ing of W.C. pan with acid wherever necessary.	each	560.65
17.64	brand an	-	with synthetic enamel paint of approved colour, e on the outside surface of cistern, flush pipe, plete.	each	244.00
17.65	vent pipe	es and fittings	on/ centrifugally cast (spun) iron soil, waste s with two coats of synthetic enamel paint of ocolate grey, or buff etc. over a coat of primer or new work:		
	17.65.1	100 mm dia	ameter pipe	metre	69.55
	17.65.2	75 mm diar	neter pipe	metre	52.90

Code No.		Description	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	33.40
	17.66.2	75 mm diameter pipe	metre	25.00
17.67	Repaintir	ng bath tub of size 1700x730x430 mm with enamel paint.	each	684.45
17.68	use as so W.C pan buffers, 1 mm flush 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, 40 in bend, 20 mm over flow pipe, with specials of standard ind 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	10326.65
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	103.00
	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	each	109.70
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	325.10
	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	325.10
17.71	mm high bracket o	g and fixing PTMT liquid soap container 109 mm wide, 125 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	146.30
17.72	200 mm conceale	g 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, you less than 88 gms.	each	204.70

Code No.		Description	Unit	Rate ₹
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	573.60
	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	600.35
17.74	_	g and fixing PTMT shelf 440 mm long, 124 mm width and 36 ht of approved quality and colour, weighing not less than .	each	607.05
17.75	Providing	g and fixing PTMT 15 mm Urinal spreader size 95x69x100 1/2" BSP thread and shapes, weighing not less than 60	each	92.75
17.76	ŭ	g and fixing PTMT urinal cock of approved quality and colour.	odon	02.70
	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	149.95
17.77	sand cas made of the wall hold fast RCC suri already f 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 in 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	247.95
	17.77.2	Total bracket length 810 mm of approved shape and design (for two 100 mm dia pipes)	each	306.90
	17.77.3	Total bracket length 1040 mm of approved shape and design (for three 100 mm dia pipes)	each	365.65
17.78	water clo providing of flushir	g and fixing white vitreous china extended wall mounting uset of size 780x370x690 mm of approved shape including g & fixing white vitreous china cistern with dual flush fitting, and capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), g seat cover, and cistern fittings, nuts, bolts and gasket etc	each	13036.55
17.79	Providing	g & fixing white vitreous china water less urinal of size 600 x 5 mm having antibacterial /germs free ceramic surface, n cartridge having debris catcher and hygiene seal.	each	15968.65

Code No.	Description	Unit	Rate ₹
17.80	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	each	7004.45
17.81	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.	each	16100.40



BASIC RATES (SH: 18.0 WATER SUPPLY)

Code No.	Description	Unit	Rate ₹
0001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	800.00
0010	Hire charges of Derrick monkey rope	day	750.00
0114	Beldar	day	645.00
0115	Coolie	day	645.00
0116	Fitter (grade 1)	day	784.00
0117	Assistant Fitter or 2nd class Fitter	day	714.00
0123	Mason (brick layer) 1st class	day	784.00
0124	Mason (brick layer) 2nd class	day	714.00
0593	C.P. Brass Extension Nipple (1/2"x2" size)	each	40.00
0761	Fuel wood	quintal	500.00
0771	Kerosene oil	litre	50.00
1301	Bleaching powder	quintal	1800.00
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	225.00
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 75 mm dia pipe joints	each	16.00
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	Pig lead	kg	210.00

Code No.	Description	Unit	Rate ₹
1464	S & S.C.I. standard specials upto 300 mm dia (heavy class)	quintal	3800.00
1466	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	3800.00
1468	Flanged C.I. standard specials upto 300 mm dia (heavy class)	quintal	5700.00
1470	Flanged C.I. standard specials over 300 mm dia (heavy class)	quintal	5250.00
1472	Casing pipe 100 mm dia	metre	340.00
1545	G.I. pipes 15 mm dia	metre	95.00
1546	G.I. pipes 20 mm dia	metre	130.00
1547	G.I. pipes 25 mm dia	metre	196.00
1548	G.I. pipes 32 mm dia	metre	225.00
1549	G.I. pipes 40 mm dia	metre	290.00
1550	G.I. pipes 50 mm dia	metre	360.00
1551	G.I. pipes 65 mm dia	metre	415.00
1552	G.I. pipes 80 mm dia	metre	525.00
1555	G.I. back (jam) nuts 25 mm dia	each	18.00
1559	G.I. back (jam) nuts 65 mm dia	each	25.00
1608	G.I. tees (equal) 25 mm	each	65.00
1612	G.I. tees (equal) 65 mm	each	452.00
1641	G.I. Union 15 mm nominal bore	each	35.00
1642	G.I. Union 20 mm nominal bore	each	55.00
1643	G.I. Union 25 mm nominal bore	each	115.00
1644	G.I. Union 32 mm nominal bore	each	145.00
1645	G.I. Union 40 mm nominal bore	each	230.00
1646	G.I. Union 50 mm nominal bore	each	310.00
1647	G.I. Union 65 mm nominal bore	each	525.00
1648	G.I. Union 80 mm nominal bore	each	575.00
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	6.10
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	700.00
1878	Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia	each	110.00

Code No.	Description	Unit	Rate ₹
1879	Shower rose C.P. brass for 15 to 20 mm inlet 150 mm dia	each	125.00
1881	Spun yarn	kg	55.00
1882	Strainer brass 40 mm dia 1.5 metre long	each	625.00
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	215.00
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	240.00
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	230.00
1926	20 mm dia Gunmetal gate valve with wheel	each	325.00
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	375.00
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	415.00
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	500.00
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	625.00
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	1625.00
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	350.00
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	475.00
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	575.00
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	840.00
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1525.00
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	2300.00
1940	C.I. sluice valve (with caps) class I: 100 mm dia	each	2450.00
1941	C.I. sluice valve (with caps) class I: 125 mm dia	each	2610.00
1942	C.I. sluice valve (with caps) class I: 150 mm dia	each	3650.00
1943	C.I. sluice valve (with caps) class I: 200 mm dia	each	7600.00
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	11.50
1957	Bolts and nuts 16 mm dia 65 mm long	each	13.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	15.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	17.50
1960	Bolts and nuts 20 mm dia 75 mm long	each	17.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	17.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	27.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	31.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	37.00
2271	Carriage of G.I. pipes below 100 mm dia	tonne	145.72
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	145.72

Code No.	Description	Unit	Rate ₹
2309	Carriage of Cast Iron fittings	tonne	145.72
2319	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	358.32
2320	Carriage of Spun iron S & S pipes 125 mm dia	100 metre	478.64
2321	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	597.20
2322	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	971.45
2323	Carriage of Spun iron S & S pipes 250 mm dia	100 metre	1380.48
2324	Carriage of Spun iron S & S pipes 300 mm dia	100 metre	1706.30
2325	Carriage of Spun iron S & S pipes 350 mm dia	100 metre	2388.82
2326	Carriage of Spun iron S & S pipes 400 mm dia	100 metre	3257.48
2327	Carriage of Spun iron S & S pipes 450 mm dia	100 metre	3981.36
2328	Carriage of Spun iron S & S pipes 500 mm dia	100 metre	3981.36
2329	Carriage of Spun iron S & S pipes 600mm dia	100 metre	5972.04
2330	Carriage of C.I. pipes 500 mm dia	100 metre	3981.36
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	8958.06
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	11944.08
2333	Carriage of R.C.C. pipes 1100 mm dia	100 metre	11944.08
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	11944.08
2335	Carriage of sand	cum	163.93
2341	Carriage of Pig lead	tonne	145.72
2343	Carriage of Ductile Iron pipes (k7) 100 mm dia	100 metre	358.32
2344	Carriage of Cast iron pipes 150 mm dia	100 metre	597.20
2345	Carriage of Cast iron pipes 200 mm dia	100 metre	971.45
2346	Carriage of Cast iron pipes 250 mm dia	100 metre	1380.48
2347	Carriage of Cast iron pipes 300 mm dia	100 metre	1706.30
2348	Carriage of Cast iron pipes 350 mm dia	100 metre	2388.82
2349	Carriage of Cast iron pipes 400 mm dia	100 metre	3257.48
2350	Carriage of Cast iron pipes 450 mm dia	100 metre	3981.36
2351	Carriage of Cast iron pipes 500 mm dia	100 metre	3981.36
2352	Carriage of Cast iron pipes 600 mm dia	100 metre	5972.04
2353	Carriage of Cast iron pipes 700 mm dia	100 metre	5972.04
2355	Carriage of Cast iron pipes 800 mm dia	100 metre	5972.04
2356	Carriage of Cast iron pipes 900 mm dia	100 metre	8958.06
2357	Carriage of Cast iron pipes 1000 mm dia	100 metre	11944.08
3080	Gunmetal non-return valve - vertical (screwed end) 25 mm dia	each	400.00
3084	Gunmetal non-return valve - vertical (screwed end) 32 mm dia	each	550.00
3088	Gunmetal non-return valve - vertical (screwed end) 40 mm dia	each	750.00

Code No.	Description	Unit	Rate ₹
3092	Gunmetal non-return valve - vertical (screwed end) 50 mm dia	each	950.00
3096	Gunmetal non-return valve - vertical (screwed end) 65 mm dia	each	1550.00
3300	Gunmetal non-return valve - vertical (screwed end) 80 mm dia	each	2600.00
3311	C.I. sluice valve (with caps) class II: 100 mm dia	each	2700.00
3314	C.I. sluice valve (with caps) class II: 125 mm dia	each	3300.00
3317	C.I. sluice valve (with caps) class II: 150 mm dia	each	4100.00
3320	C.I. sluice valve (with caps) class II: 200 mm dia	each	8900.00
3321	C.I. sluice valve (with caps) class II: 250 mm dia	each	15000.00
3326	C.I. sluice valve (with caps) class II: 300 mm dia	each	18500.00
3327	15 mm Battery Based Sensor Pillar Cock	each	6000.00
3862	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 15 mm outer dia	metre	310.00
3863	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 22 mm outer dia	metre	500.00
3864	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 28 mm outer dia	metre	650.00
3865	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 35 mm outer dia	metre	945.00
3866	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 42 mm outer dia	metre	1160.00
3867	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 54 mm outer dia	metre	1500.00
3868	Coupling/Socket fittings for 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	215.00
3869	Coupling/Socket fittings for 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	270.00
3870	Coupling/Socket fittings for 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	315.00
3871	Coupling/Socket fittings for 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	395.00
3872	Coupling/Socket fittings for 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	535.00
3873	Coupling/Socket fittings for 54 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	640.00
3874	Reducer for 22 mm X 15 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	255.00
3875	Reducer for 28 mm X 15 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	375.00
3876	Reducer for 28 mm X 22 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	310.00

Code No.	Description	Unit	Rate ₹
3877	Reducer for 35 mm X 22 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	380.00
3878	Reducer for 35 mm X 28 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	470.00
3879	Reducer for 42 mm X 22 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	690.00
3880	Reducer for 42 mm X 28 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	720.00
3881	Reducer for 42 mm X 35 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	605.00
3882	Reducer for 54 mm X 28 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	990.00
3883	Reducer for 54 mm X 35 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1030.00
3884	Reducer for 54 mm X 42 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	835.00
3885	Sleeve/Slip Coupling / Socket 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	375.00
3886	Sleeve/Slip Coupling / Socket 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	450.00
3887	Sleeve/Slip Coupling / Socket 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	520.00
3888	Sleeve/Slip Coupling / Socket 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	580.00
3889	Sleeve/Slip Coupling / Socket 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	670.00
3890	Sleeve/Slip Coupling / Socket 54 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	955.00
3891	Elbow 90° for 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	305.00
3892	Elbow 90° for 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	430.00
3893	Elbow 90° for 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	575.00
3894	Elbow 90° for 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	940.00
3895	Elbow 90° for 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1520.00
3896	Elbow 90° for 54 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2010.00
3897	Equal Tee for 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	500.00

Code No.	Description	Unit	Rate ₹
3898	Equal Tee for 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	585.00
3899	Equal Tee for 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	720.00
3900	Equal Tee for 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	895.00
3901	Equal Tee for 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1250.00
3902	Equal Tee for 54 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1500.00
3903	Reducing Tee for 22 mm X 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	575.00
3904	Reducing Tee for 28 mm X 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	715.00
3905	Reducing Tee for 28 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	710.00
3906	Reducing Tee for 35 mm X 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	900.00
3907	Reducing Tee for 35 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	905.00
3908	Reducing Tee for 35 mm X 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	915.00
3909	Reducing Tee for 42 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1280.00
3910	Reducing Tee for 42 mm X 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1265.00
3911	Reducing Tee for 42 mm X 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1290.00
3912	Reducing Tee for 54 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1570.00
3913	Reducing Tee for 54 mm X 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1540.00
3914	Reducing Tee for 54 mm X 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1550.00
3915	Reducing Tee for 54 mm X 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1500.00
3916	Stainless steel Female thread Tee for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	560.00
3917	Stainless steel Female thread Tee for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	615.00

Code No.	Description	Unit	Rate ₹
3918	Stainless steel Female thread Tee for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	690.00
3919	Stainless steel Female thread Tee for 28 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	730.00
3920	Stainless steel Female thread Tee for 28 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	755.00
3921	Stainless steel Female thread Tee for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	840.00
3922	Stainless steel Female thread Tee for 35 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	845.00
3923	Stainless steel Female thread Tee for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1159.00
3924	Stainless steel Female thread Tee for 42 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1346.00
3925	Stainless steel Female thread Tee for 54 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1920.00
3926	Stainless steel Female thread Tee for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2307.00
3927	Stainless steel Female threaded Connector/Adapter for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	440.00
3928	Stainless steel Female threaded Connector/Adapter for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	495.00
3929	Stainless steel Female threaded Connector/Adapter for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	580.00
3930	Stainless steel Female threaded Connector/Adapter for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	955.00
3931	Stainless steel Female threaded Connector/Adapter for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1020.00
3932	Stainless steel Female threaded Connector/Adapter for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1565.00
	10 00 11.20 17 and obmorning to Liv 100 12 standard	Caon	1505.00

Code No.	Description	Unit	Rate ₹
3933	Stainless steel Female threaded Connector/Adapter for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2400.00
3934	Stainless steel Male threaded Connector/ Adapter for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	405.00
3935	Stainless steel Male threaded Connector/ Adapter for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	480.00
3936	Stainless steel Male threaded Connector/ Adapter for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	505.00
3937	Stainless steel Male threaded Connector/ Adapter for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	665.00
3938	Stainless steel Male threaded Connector/ Adapter for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	970.00
3939	Stainless steel Male threaded Connector/ Adapter for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1415.00
3940	Stainless steel Male threaded Connector/ Adapter for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1895.00
	Female Threaded Elbow 90°		
3941	SS Female Threaded Elbow 90° for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	640.00
3942	SS Female Threaded Elbow 90° for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	860.00
3943	SS Female Threaded Elbow 90° for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1180.00
3944	SS Female Threaded Elbow 90° for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1917.00
3945	SS Female Threaded Elbow 90° for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2088.00
3946	SS Female Threaded Elbow 90° for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	3227.00

Code No.	Description	Unit	Rate ₹
3947	SS Male Threaded Elbow 90° for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	525.00
3948	SS Male Threaded Elbow 90° for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	790.00
3949	SS Male Threaded Elbow 90° for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1045.00
3950	SS Male Threaded Elbow 90° for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1440.00
3951	SS Male Threaded Elbow 90° for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2635.00
3952	SS Male Threaded Elbow 90° for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2998.00
3953 I	Stainless steel Cap for 15 mm outer dia pipe of grade 316L as per S 6911:2017 and conforming to EN-10312 standard	each	320.00
3954	Stainless steel Cap for 22 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	415.00
3955	Stainless steel Cap for 28 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	515.00
3956	Stainless steel Cap for 35 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	720.00
3957	Stainless steel Cap for 42 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1565.00
3958	Stainless steel Cap for 54 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1720.00
3959	Stainless steel Pipe Bridge for 15 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	415.00
3960	Stainless steel Pipe Bridge for 22 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1110.00
3961	Stainless steel Pipe Bridge for 28 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1526.00
3962	SS Male Union for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	885.00
3963	SS Male Union for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	895.00

Code No.	Description	Unit	Rate ₹
3964	SS Male Union for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1025.00
3965	SS Male Union for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312		1805.00
3966	standard SS Male Union for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each each	1885.00
3967	SS Male Union for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2130.00
3968	SS Male Union for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	3680.00
3969	SS Female Union for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	950.00
3970	SS Female Union for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1280.00
3971	SS Female Transition Elbow/ FTE for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	649.00
3972	SS Female Transition Elbow/ FTE for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	900.00
3973	SS Female Transition Elbow/ FTE for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	870.00
6501	Sand zone V (Jamuna)	cum	1300.00
7257	C.P. Brass bibcock 15 mm	each	300.00
7258	C.P. Brass long nose bibcock 15 mm	each	500.00
7259	C.P. Brass long body bibcock 15 mm	each	500.00
7260	C.P. Brass stop cock (concealed) 15 mm	each	420.00
7261	C.P. Brass angle valve 15 mm	each	350.00
7400	15 mm PTMT bib cock	each	65.00
7401	15 mm PTMT bib cock with flange (fancy)	each	90.00
7402	15 mm PTMT bib cock long body with flange	each	100.00
7403	15 mm dia PTMT stop cock (male thread)	each	60.00
7405	20 mm dia PTMT stop cock	each	68.00

Code No.	Description	Unit	Rate ₹
7406	PTMT pillar cock	each	115.00
7407	PTMT push cock 15 mm dia	each	55.00
7408	PTMT push cock 12 mm dia 20 mm BSP	each	45.00
7409	PTMT grating 100 mm dia	each	16.00
7410	PTMT Pillar cock (fancy) 15 mm foam flow	each	125.00
7411	125 mm grating with waste hole	each	25.00
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)	each	118.00
7415	Double acting air valve 50 mm	each	3715.00
7416	Double acting air valve 80 mm	each	4525.00
7417	Double acting air valve 100 mm	each	5910.00
7418	Water meter (including testing charges) 80 mm	each	2030.00
7419	Water meter (including testing charges) 100 mm	each	3143.00
7420	Water meter (including testing charges) 150 mm	each	4765.00
7421	Water meter (including testing charges) 200 mm	each	5145.00
7422	Dirt box strainer 80 mm	each	2680.00
7423	Dirt box strainer 100 mm	each	4370.00
7424	Dirt box strainer 150 mm	each	5540.00
7425	Dirt box strainer 200 mm	each	7860.00
7495	PTMT Ball Cock 15mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	75.00
7496	PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	110.00
7497	PTMT Ball Cock 25mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	275.00
7498	PTMT Ball Cock 40mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	420.00
7499	PTMT Ball Cock 50mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	820.00
7500	PTMT Angle Stop cock with Flange 15 mm	each	85.00
7501	PTMT Swiveling shower 15 mm	each	65.00
7509	PTMT Soap Dish/Holder 138x102x75 mm	each	58.00
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100 mm dia	metre	765.00
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 150 mm dia	metre	1150.00
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 200 mm dia	metre	1575.00
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia	metre	2200.00
7655	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 300 mm dia	metre	2750.00

Code No.	Description	Unit	Rate ₹
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350 mm dia	metre	3350.00
7657	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 400 mm dia	metre	4300.00
7658	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 450 mm dia	metre	5000.00
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500 mm dia	metre	6270.00
7660	Ductile Iron class K -9 pipe Conforming to I.S. 8329 - 600 mm dia	metre	7560.00
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700 mm dia	metre	10500.00
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750 mm dia	metre	11350.00
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800 mm dia	metre	11450.00
7664	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900 mm dia	metre	13900.00
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000 mm dia	metre	15550.00
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	each	29.00
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia	each	33.00
7669	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200 mm dia	each	60.00
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia	each	70.00
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	each	100.00
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	each	116.00
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	each	210.00
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	each	250.00
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	each	270.00
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	each	356.00
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	each	510.00
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia	each	600.00
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	each	705.00
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	each	910.00
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	each	1080.00
7682	Ductile Iron K - 12 specials suitable for push on jointing up to 600 mm dia	quintal	12400.00
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600 mm dia	quintal	17200.00
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600 mm dia	quintal	13050.00
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm dia	quintal	18750.00
7686	Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia	metre	1100.00
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 mm dia	metre	1650.00
7688	Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia	metre	2075.00
7689	Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia	metre	2950.00

Code No.	Description	Unit	Rate ₹
7690	Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia	metre	3790.00
7691	Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia	metre	4780.00
7692	Ductile Iron Pipe Class K-9 flanges and welding 400 mm dia	metre	6150.00
7693	Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia	metre	6453.00
7694	Ductile Iron Pipe Class K-9 flanges and welding 500 mm dia	metre	9180.00
7695	Ductile Iron Pipe Class K-9 flanges and welding 600 mm dia	metre	12150.00
7696	Ductile Iron Pipe Class K-9 flanges and welding 700 mm dia	metre	14370.00
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia	metre	857.00
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125 mm dia	metre	1067.00
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia	metre	1286.00
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia	metre	2190.00
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia	metre	2857.00
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia	metre	3857.00
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350 mm dia	metre	4619.00
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400 mm dia	metre	6095.00
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450 mm dia	metre	7381.00
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500 mm dia	metre	8571.00
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia	metre	11995.00
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	quintal	5190.00
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	quintal	6200.00
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	quintal	8571.00
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per I.S. 13382 over 300 mm dia	quintal	9048.00
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	metre	1310.00
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	metre	2048.00
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	metre	3238.00
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	metre	3905.00
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	metre	4990.00
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	metre	6286.00

Code No.	Description	Unit	Rate ₹
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	metre	8143.00
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	metre	10381.00
7720	Screwed double flanged centrifugally cast (spun) C./. Pipe of Class B conforming to I.S. 1536, - 500 mm dia	metre	12914.00
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	metre	17905.00
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia	metre	800.00
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia	metre	1140.00
7724	Ductile Iron Class K-7 pipe conforming to I.S. 8329 - 200 mm dia	metre	1400.00
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia	metre	1800.00
7726	Ductile Iron Class K- 7 pipe conforming to i.S. 8329 - 300 mm dia	metre	2250.00
7727	Ductile Iron Class K- 7 pipe conforming to i.S. 8329 - 350 mm dia	metre	2650.00
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia	metre	3175.00
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia	metre	3852.00
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia	metre	4350.00
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia	metre	5600.00
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia	metre	7300.00
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia	metre	9100.00
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia	metre	11800.00
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000 mm dia	metre	12300.00
7859	P.T.M.T. Bib cock with nozzle 15 mm	each	110.00
7861	P.T.M.T. Stop cock (concealed) 15 mm	each	120.00
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	38.00
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	52.00
7864	P.T.M.T. extension nipple 15 mm dia	each	25.00
7865	P.T.M.T. extension nipple 20 mm dia	each	50.00
7866	P.T.M.T. extension nipple 25 mm dia	each	68.00
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	80.00
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	90.00
8302	2025 mm PE-AL-PE Composite pressure pipe	metre	140.00
8303	2532 mm PE-AL-PE Composite pressure pipe	metre	180.00
8304	3240 mm PE-AL-PE Composite pressure pipe	metre	280.00
8305	4050 mm PE-AL-PE Composite pressure pipe	metre	360.00

Code No.	Description	Unit	Rate ₹
8306	PPR Union 20 mm	each	60.00
8307	PPR Union 25 mm	each	110.00
8308	PPR Union 32 mm	each	150.00
8309	PPR Union 40 mm	each	220.00
8310	PPR Union 50 mm	each	410.00
8311	PPR Union 63 mm	each	550.00
8312	PPR Union 75 mm	each	1100.00
8626	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 20 mm Outer dia	metre	48.46
8627	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 25 mm Outer dia	metre	74.82
8628	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 32 mm Outer dia	metre	107.47
8629	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 40 mm Outer dia	metre	162.00
8630	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 50 mm Outer dia	metre	255.00
8631	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 63 mm Outer dia	metre	285.00
8632	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 75 mm Outer dia	metre	425.00
8633	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 90 mm Outer dia	metre	600.00
8634	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 110 mm Outer dia	metre	890.00
8635	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 160 mm Outer dia	metre	2575.00
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm nominal dia	metre	49.00
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm nominal dia	metre	80.00
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm nominal dia	metre	127.97
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm nominal dia	metre	165.00
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm nominal dia	metre	230.00
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm nominal dia	metre	375.25
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 65 mm nominal dia	metre	793.30
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 80 mm nominal dia	metre	1031.05
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm nominal dia	metre	1466.75
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm nominal dia	metre	3145.15
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	620.00

Code No.	Description	Unit	Rate ₹
8702	Coupling/Socket fittings for 15.88 mm outer dia SS pipe	each	60.00
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	140.00
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	250.00
8781	SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia	metre	310.00
8782	SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia	metre	439.50
8783	SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia	metre	450.00
8786	Coupling/Socket fittings for 22.22 mm outer dia SS pipe	each	70.00
8787	Coupling/Socket fittings for 28.58 mm outer dia SS pipe	each	96.25
8788	Coupling/Socket fittings for 34.00 mm outer dia SS pipe	each	135.00
8789	Coupling/Socket fittings for 42.70 mm outer dia SS pipe	each	160.00
8790	Coupling/Socket fittings for 48.60 mm outer dia SS pipe	each	180.00
8791	Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe	each	108.50
8792	Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe	each	152.50
8793	Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe	each	161.50
8794	Reducer for 34.00 mm X 15.88 mm outer Dia SS pipe	each	200.00
8795	Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe	each	210.00
8796	Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe	each	210.00
8797	Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe	each	375.00
8798	Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe	each	375.00
8799	Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe	each	390.00
8800	Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe	each	390.00
8801	Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe	each	425.00
8802	Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe	each	425.00
8803	Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe	each	425.00
8804	Reducer for 48.60 mm X 34.00 mm outer Dia SS pipe	each	425.00
8805	Reducer for 48.60 mm X 42.70 mm outer Dia SS pipe	each	425.00
8806	Slip Coupling / Socket 15.88 mm outer dia SS pipe	each	55.00
8807	Slip Coupling / Socket 22.22 mm outer dia SS pipe	each	70.00
8808	Slip Coupling / Socket 28.58 mm outer dia SS pipe	each	95.00
8809	Slip Coupling / Socket 34.00 mm outer dia SS pipe	each	135.00
8810	Slip Coupling / Socket 42.70 mm outer dia SS pipe	each	160.00
8811	Slip Coupling / Socket 48.60 mm outer dia SS pipe	each	175.00

Code No.	Description	Unit	Rate ₹
8812	Elbow 90° for 15.88 mm outer dia SS pipe	each	65.00
8813	Elbow 90° for 22.22 mm outer dia SS pipe	each	70.00
8814	Elbow 90° for 28.58 mm outer dia SS pipe	each	105.00
8815	Elbow 90° for 34.00 mm outer dia SS pipe	each	120.00
8816	Elbow 90° for 42.70 mm outer dia SS pipe	each	130.00
8817	Elbow 90° for 48.60 mm outer dia SS pipe	each	160.00
8818	Reducing Elbow 90° for 22.22 mm X 15.88 mm outer dia SS pipe	each	150.00
8819	Reducing Elbow 90° for 28.58 mm X 15.88 mm outer dia SS pipe	each	210.00
8820	Reducing Elbow 90° for 28.58 mm X 22.22 mm outer dia SS pipe	each	250.00
8821	Reducing Elbow 90° for 34.00 mm X 22.22 mm outer dia SS pipe	each	295.00
8822	Reducing Elbow 90° for 34.00 mm X 28.58 mm outer dia SS pipe	each	350.00
8823	Reducing Elbow 90° for 42.70 mm X 34.00 mm outer dia SS pipe	each	190.00
8824	Equal Tee for 15.88 mm outer dia SS pipe	each	175.00
8825	Equal Tee for 22.22 mm outer dia SS pipe	each	250.00
8826	Equal Tee for 28.58 mm outer dia SS pipe	each	295.00
8827	Equal Tee for 34.00 mm outer dia SS pipe	each	440.00
8828	Equal Tee for 42.70 mm outer dia SS pipe	each	695.00
8829	Equal Tee for 48.60 mm outer dia SS pipe	each	915.00
8830	Reducing Tee for 22.22 mm X 15.88 mm outer dia SS	each	185.00
8831	Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe	each	290.00
8832	Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe	each	290.00
8833	Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe	each	440.00
8834	Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe	each	440.00
8835	Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe	each	440.00
8836	Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe	each	690.00
8837	Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe	each	690.00
8838	Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe	each	690.00
8839	Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe	each	690.00
8840	Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe	each	895.00
8841	Reducing Tee for 48.60 mm X 22.22 mm outer dia SS pipe	each	895.00
8842	Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe	each	895.00
8843	Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe	each	895.00
8844	Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe	each	895.00
8845	Stainless steel Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	185.00

Code No.	Description	Unit	Rate ₹
8846	Stainless steel Male thread Tee for 22.22 mm outer dia X 15 mm nomina dia threaded	each	215.00
8847	Stainless steel Male thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	215.00
8848	Stainless steel Male thread Tee for 28.58 mm outer dia X 15 mm nomina dia threaded	each	295.00
8849	Stainless steel Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	295.00
8850	Stainless steel Male thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	295.00
8851	Stainless steel Male thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	465.00
8852	Stainless steel Male thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	465.00
8853	Stainless steel Male thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	465.00
8854	Stainless steel Male thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	465.00
8855	Stainless steel Male thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	710.00
8856	Stainless steel Male thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	710.00
8857	Stainless steel Male thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	710.00
8858	Stainless steel Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	710.00
8859	Stainless steel Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	710.00
8860	Stainless steel Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	895.00
8861	Stainless steel Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	895.00
8862	Stainless steel Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	895.00
8863	Stainless steel Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	895.00
8864	Stainless steel Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	895.00
8865	Stainless steel Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	895.00
8866	Stainless steel Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	185.00

Code No.	Description	Unit	Rate ₹
8867	Stainless steel Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	205.00
8868	Stainless steel Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	205.00
8869	Stainless steel Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	275.00
8870	Stainless steel Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	275.00
8871	Stainless steel Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	275.00
8872	Stainless steel Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	445.00
8873	Stainless steel Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	445.00
8874	Stainless steel Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	445.00
8875	Stainless steel Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	445.00
8876	Stainless steel Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	700.00
8877	Stainless steel Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	700.00
8878	Stainless steel Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	700.00
8879	Stainless steel Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	700.00
8880	Stainless steel Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	700.00
8881	Stainless steel Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	905.00
8882	Stainless steel Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	905.00
8883	Stainless steel Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	905.00
8884	Stainless steel Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	905.00
8885	Stainless steel Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	905.00
8886	Stainless steel Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	905.00
8887	Stainless steel Female threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	195.00

Code No.	Description	Unit	Rate ₹
8888	Stainless steel Female threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	230.00
8889	Stainless steel Female threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	240.00
8890	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 15 mm nominal threaded	each	277.00
8891	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	290.00
8892	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	355.00
8893	Stainless steel Female threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	410.00
8894	Stainless steel Female threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	540.00
8895	Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	595.00
8896	Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	695.00
8897	Stainless steel Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	845.00
8898	Stainless steel Female threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	975.00
8899	Stainless steel Male threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	195.00
8900	Stainless steel Male threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	230.00
8901	Stainless steel Male threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	255.00
8902	Stainless steel Male threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	325.00
8903	Stainless steel Male threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	325.00
8904	Stainless steel Male threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	475.00
8905	Stainless steel Male threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	565.00
8906	Stainless steel Male threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	649.00
8907	Stainless steel Male threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	730.00
8908	Stainless steel Male threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	850.00

Code No.	Description	Unit	Rate ₹
8909	Stainless steel Male threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	1140.00
8910	Stainless steel Valve Connector for 15.88 mm outer dia X 15 mm nominal dia threaded	each	235.00
8911	Stainless steel Valve Connector for 22.22 mm outer dia X 15 mm nominal dia threaded	each	280.00
8912	Stainless steel Valve Connector for 22.22 mm outer dia X 20 mm nominal dia threaded	each	310.00
8913	Stainless steel Valve Connector for 28.58 mm outer dia X 25 mm nominal dia threaded	each	425.00
8914	Stainless steel Valve Connector for 34.00 mm outer dia X 32 mm nominal dia threaded	each	645.00
8915	Stainless steel Valve Connector for 42.70 mm outer dia X 40 mm nominal dia threaded	each	880.00
8916	Stainless steel Valve Connector for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1210.00
8917	SS Female Threaded Elbow 90o for 15.88 mm outer dia X 15 mm nominal dia threaded	each	160.00
8918	Stainless steel Female Threaded Elbow 90o for 22.22 mm outer dia X 15 mm nominal dia threaded	each	215.00
8919	Stainless steel Female Threaded Elbow 90o for 22.22 mm outer dia X 20 mm nominal dia threaded	each	215.00
8920	Stainless steel Female Threaded Elbow 90o for 28.58 mm outer dia X 25 mm nominal dia threaded	each	215.00
8921	Stainless steel Female Threaded Elbow 90o for 34.00 mm outer dia X 32 mm nominal dia threaded	each	295.00
8922	Stainless steel Female Threaded Elbow 90o for 42.70 mm outer dia X 32 mm nominal dia threaded	each	480.00
8923	Stainless steel Female Threaded Elbow 90o for 42.70 mm outer dia X40 mm nominal dia threaded	each	480.00
8924	Stainless steel Female Threaded Elbow 90o for 48.60 mm outer dia X 40 mm nominal dia threaded	each	710.00
8925	Stainless steel Female Threaded Elbow 90o for 48.60 mm outer dia X 50 mm nominal dia threaded	each	710.00
8926	Stainless steel Male Threaded Elbow 90o for 15.88 mm outer dia X15 mm nominal dia threaded	each	195.00
8927	Stainless steel Male Threaded Elbow 90o for 22.22 mm outer dia X15 mm nominal dia threaded	each	225.00
8928	Stainless steel Male Threaded Elbow 900 for 22.22 mm outer dia X20 mm nominal dia threaded	each	225.00
8929	Stainless steel Male Threaded Elbow 900 for 28.58 mm outer dia X25 mm nominal dia threaded	each	225.00

Code No.	Description	Unit	Rate ₹
8930	Stainless steel MaleThreaded Elbow 900 for 34.00 mm outer dia X 25 mm nominal dia threaded	each	290.00
8931	Stainless steel Male Threaded Elbow 900 for 34.00 mm outer dia X 32 mm nominal dia threaded	each	290.00
8932	Stainless steel Male Threaded Elbow 900 for 42.70 mm outer dia X 32 mm nominal dia threaded	each	480.00
8933	Stainless steel Male Threaded Elbow 900 for 42.70 mm outer dia X 40 mm nominal dia threaded	each	480.00
8934	Stainless steel Male Threaded Elbow 900 for 48.60 mm outer dia X 40 mm nominal dia threaded	each	695.00
8935	Stainless steel Male Threaded Elbow 900 for 48.60 mm outer dia X 50 mm nominal dia threaded	each	695.00
8936	Stainless steel Cap for 15.88 mm outer dia pipe	each	48.00
8937	Stainless steel Cap for 22.22 mm outer dia pipe	each	70.00
8938	Stainless steel Cap for 28.58 mm outer dia pipe	each	90.00
8939	Stainless steel Cap for 34.00 mm outer dia pipe	each	175.00
8940	Stainless steel Cap for 42.70 mm outer dia pipe	each	250.00
8941	Stainless steel Cap for 48.60 mm outer dia pipe	each	325.00
8942	Stainless steel Pipe Bridge for 15.88 mm outer dia pipe	each	220.00
8943	Stainless steel Pipe Bridge for 22.22 mm outer dia pipe	each	290.00
8944	Stainless steel Pipe Bridge for 28.58 mm outer dia pipe	each	415.00
9977	Carriage	L.S.	2.12
9988	Carriage and sundries	L.S.	2.12
9999	Sundries	L.S.	2.12

18.0 WATER SUPPLY

Code No.		Description	Unit	Rate ₹			
	PE-AL-P	E COMPOSITE PRESSURE PIPE					
18.1	PE Com stabilized water sup all specia and bras couplers This incl	g and fixing Polyethelene-Aluminium-Polyethelene PE-AL-posite 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 in-charge.					
	INTERN	AL WORK - EXPOSED ON WALL					
	18.1.1	1216 (16 mm OD) pipe	metre	294.55			
	18.1.2	1620 (20 mm OD) pipe	metre	327.20			
	18.1.3	2025 (25 mm OD) pipe	metre	429.45			
	18.1.4	2532 (32 mm OD) pipe	metre	527.05			
	18.1.5	3240 (40 mm OD) pipe	metre	761.35			
	18.1.6	4050 (50 mm OD) pipe	metre	900.45			
18.2	PE Com stabilized water sup all specia and bras couplers This incli	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.					
	Conceale etc.	ed work, including cutting chases and making good the wall					
	18.2.1	1216 (16 mm OD) pipe	metre	513.75			
	18.2.2	1620 (20 mm OD) pipe	metre	537.15			
	18.2.3	2025 (25 mm OD) pipe	metre	654.20			
	18.2.4	2532 (32 mm OD) pipe	metre	747.85			
18.3	PE Com stabilized water sup all specia and bras couplers	g and fixing Polyethelene-Aluminium-Polyethelene PE-AL-posite Pressure Pipes conforming to IS - 15450, U.V. d with carbon black having thermal stability for hot & cold pply, capable to withstand temperature up to 80°C, including all fittings of composite material (engineering plastic blend is inserts wherever required) e.g. elbows, tees, reducers, & connectors etc., with trenching, refilling and testing of implete as per direction of the engineer in charge.					
	External	work					
	18.3.1	1216 (16 mm OD) pipe	metre	275.25			

18.3.3 2025 (25 mm OD) pipe metre 379.60 18.3.4 2532 (32 mm OD) pipe metre 449.20 18.3.5 3240 (40 mm OD) pipe metre 646.20 18.3.6 4050 (50 mm OD) pipe metre 785.35 PP-R PIPES 18.4 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. Internal Exposed on walls	Code No.		Description	Unit	Rate ₹
18.3.4 2532 (32 mm OD) pipe metre 449.20 18.3.5 3240 (40 mm OD) pipe metre 646.20 18.3.6 4050 (50 mm OD) pipe metre 785.35 PP-R PIPES 18.4 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. Internal Exposed on walls 18.4.1 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 358.90 18.4.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 358.90 18.4.3 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 523.60 18.4.4 PN - 16 Pipe, 40mm OD (SDR-7.4) metre 523.60 18.5.5 PN - 10 Pipe, 50mm OD (SDR-7.4) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 542.10 18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 542.10 18.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene andom fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. Externa		18.3.2	1620 (20 mm OD) pipe	metre	292.65
18.3.5 3240 (40 mm OD) pipe metre 646.20 18.3.6 4050 (50 mm OD) pipe metre 785.35 PP-R PIPES 18.4 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. Internal Exposed on walls 18.4.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 358.90 18.4.2 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 358.90 18.4.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 523.60 18.4.4 PN - 16 Pipe, 50mm OD (SDR-7.4) metre 523.60 18.4.5 PN - 10 Pipe, 50mm OD (SDR-7.1) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 542.10 18.6.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 213.90		18.3.3	2025 (25 mm OD) pipe	metre	379.60
18.3.6 4050 (50 mm OD) pipe metre 785.35 PP-R PIPES 18.4 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP-R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. Internal Exposed on walls 18.4.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 316.10 18.4.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 358.90 18.4.3 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 358.90 18.4.4 PN - 16 Pipe, 40mm OD (SDR-7.4) metre 523.60 18.4.5 PN - 10 Pipe, 50mm OD (SDR-7.4) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work,including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 542.10 18.6.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including tenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20		18.3.4	2532 (32 mm OD) pipe	metre	449.20
PP-R PIPES 18.4 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. Internal Exposed on walls 18.4.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 358.90 18.4.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 358.90 18.4.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 523.60 18.4.4 PN - 16 Pipe, 40mm OD (SDR-7.4) metre 523.60 18.4.5 PN - 10 Pipe, 50mm OD (SDR-7.4) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 542.10 18.6.4 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, incl		18.3.5	3240 (40 mm OD) pipe	metre	646.20
Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. Internal Exposed on walls 18.4.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 316.10 18.4.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 358.90 18.4.4 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 523.60 18.4.5 PN - 10 Pipe, 50mm OD (SDR-7.4) metre 523.60 18.4.5 PN - 10 Pipe, 50mm OD (SDR-7.4) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 542.10 18.6.4 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UX stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 268.20 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20		18.3.6	4050 (50 mm OD) pipe	metre	785.35
pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. Internal Exposed on walls 18.4.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 316.10 18.4.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 358.90 18.4.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 358.90 18.4.4 PN - 16 Pipe, 40mm OD (SDR-7.4) metre 523.60 18.4.5 PN - 10 Pipe, 50mm OD (SDR-7.4) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work,including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 501.60 18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 501.60 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 268.20 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 268.20		PP-R PII	PES		
18.4.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 254.95 18.4.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 316.10 18.4.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 358.90 18.4.4 PN - 16 Pipe, 40mm OD (SDR-7.4) metre 523.60 18.4.5 PN - 10 Pipe, 50mm OD (SDR-7.4) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 501.60 18.6.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 268.20 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 268.20	18.4	pipes co welded, I all PP - F fixing the	nfirming to IS 15801, UV stabilized & anti - microbial fusion having thermal stability for hot & cold water supply, including R plain & brass threaded polypropylene random fittings, i/c pipe with clamps at 1.00 m spacing. This includes testing		
18.4.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 316.10 18.4.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 358.90 18.4.4 PN - 16 Pipe, 40mm OD (SDR-7.4) metre 523.60 18.4.5 PN - 10 Pipe, 50mm OD (SDR-11) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work,including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 542.10 18.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 268.20 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60		Internal	Exposed on walls		
18.4.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 358.90 18.4.4 PN - 16 Pipe, 40mm OD (SDR-7.4) metre 523.60 18.4.5 PN - 10 Pipe, 50mm OD (SDR-11) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work,including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 501.60 18.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60		18.4.1	PN - 16 Pipe, 20mm OD (SDR-7.4)	metre	254.95
18.4.4 PN - 16 Pipe, 40mm OD (SDR-7.4) metre 523.60 18.4.5 PN - 10 Pipe, 50mm OD (SDR-11) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 542.10 18.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60		18.4.2	PN - 16 Pipe, 25mm OD (SDR-7.4)	metre	316.10
18.4.5 PN - 10 Pipe, 50mm OD (SDR-11) metre 666.65 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work,including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 501.60 metre 501.		18.4.3	PN - 16 Pipe, 32mm OD (SDR-7.4)	metre	358.90
Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work,including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 501.60 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 542.10 18.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60		18.4.4	PN - 16 Pipe, 40mm OD (SDR-7.4)	metre	523.60
pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work,including cutting chases and making good the wall etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 439.90 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 542.10 18.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60		18.4.5	PN - 10 Pipe, 50mm OD (SDR-11)	metre	666.65
etc. 18.5.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 439.90 18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 542.10 18.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60	18.5	pipes col welded, I all PP - F fixing the of cutting	nfirming to IS:15801, UV stabilized & anti - microbial fusion having thermal stability for hot & cold water supply, including a plain & brass threaded polypropylene random fittings, i/c pipe with clamps at 1.00 m spacing. This includes the cost g chases and making good the same including testing of		
18.5.2 PN - 16 Pipe, 25mm OD (SDR-7.4) metre 501.60 18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 542.10 18.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60			ed work,including cutting chases and making good the wall		
18.5.3 PN - 16 Pipe, 32mm OD (SDR-7.4) metre 542.10 18.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 320.60		18.5.1	PN - 16 Pipe, 20mm OD (SDR-7.4)	metre	439.90
Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 320.60		18.5.2	PN - 16 Pipe, 25mm OD (SDR-7.4)	metre	501.60
pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work 18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60		18.5.3	PN - 16 Pipe, 32mm OD (SDR-7.4)	metre	542.10
18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4) metre 213.90 18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60	18.6	pipes co welded, l all PP - including	nfirming to IS:15801 UV stabilized & anti - microbial fusion having thermal stability for hot & cold water supply, including R plain & brass threaded polypropylene random fittings, g trenching, refilling & testing of joints complete as per		
18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4) metre 268.20 18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60		Externa	l work		
18.6.3 PN - 16 Pipe, 32 mm OD (SDR-7.4) metre 320.60		18.6.1	PN - 16 Pipe, 20mm OD (SDR-7.4)	metre	213.90
		18.6.2	PN - 16 Pipe, 25 mm OD (SDR-7.4)	metre	268.20
18.6.4 PN - 16 Pipe, 40 mm OD (SDR-7.4) metre 419.25		18.6.3	PN - 16 Pipe, 32 mm OD (SDR-7.4)	metre	320.60
		18.6.4	PN - 16 Pipe, 40 mm OD (SDR-7.4)	metre	419.25

Code No.		Description	Unit	Rate ₹
	18.6.5	PN - 10 Pipe, 50 mm OD (SDR-11)	metre	568.60
	18.6.6	PN - 10 Pipe, 63 mm OD (SDR-11)	metre	654.65
	18.6.7	PN - 10 Pipe, 75 mm OD (SDR-11)	metre	879.45
	18.6.8	PN - 10 Pipe, 90 mm OD (SDR-11)	metre	1223.90
	18.6.9	PN - 10 Pipe, 110 mm OD (SDR-11)	metre	1689.50
	18.6.10	PN - 10 Pipe, 160 mm OD (SDR-11)	metre	4535.10
18.6A	Providing	and fixing PPR Unions		
	18.6A.1	PPR Union 20mm	each	295.75
	18.6A.2	PPR Union 25mm	each	362.65
	18.6A.3	PPR Union 32mm	each	416.15
	18.6A.4	PPR Union 40mm	each	509.80
	18.6A.5	PPR Union 50mm	each	764.05
	18.6A.6	PPR Union 63mm	each	951.35
	18.6A.7	PPR Union 75mm	each	1687.20
	C.P.V.C.	PIPES		
	CPVC pla clamps a with one	nermal 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 rection of Engineer in Charge.		
	Internal	work - Exposed on wall		
	18.7.1	15 mm nominal dia Pipes	metre	255.90
	18.7.2	20 mm nominal dia Pipes	metre	325.10
	18.7.3	25 mm nominal dia Pipes	metre	408.55
	18.7.4	32 mm nominal dia Pipes	metre	500.95
	18.7.5	40 mm nominal dia Pipes	metre	674.35
	18.7.6	50 mm nominal dia Pipes	metre	927.00
18.8	having the CPVC plate at 1.00 m step CPV good the	g and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, nermal 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 iC solvent cement and the cost of cutting chases and making same including testing of joints complete as per direction per in Charge.		
	Conceale etc.	ed work, including cutting chases and making good the walls		
	18.8.1	15 mm nominal dia Pipes	metre	441.15
	18.8.2	20 mm nominal dia Pipes	metre	513.75
	18.8.3	25 mm nominal dia Pipes	metre	626.05
	18.8.4	32 mm nominal dia Pipes	metre	712.75

Code No.		Description	Unit	Rate ₹	
18.9	having the plain & br with one	g and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, ermal stability for hot & cold water supply including all CPVC rass threaded fittings This includes jointing of pipes & fittings step CPVC solvent cement, trenching, refilling & testing of mplete as per direction of Engineer in Charge.			
	External	work			
	18.9.1	15 mm nominal dia Pipes	metre	221.35	
	18.9.2	20 mm nominal dia Pipes	metre	275.25	
	18.9.3	25 mm nominal dia Pipes	metre	370.65	
	18.9.4	32 mm nominal dia Pipes	metre	435.05	
	18.9.5	40 mm nominal dia Pipes	metre	559.20	
	18.9.6	50 mm nominal dia Pipes	metre	811.85	
	18.9.7	65 mm nominal dia Pipes	metre	1576.90	
	18.9.8	80 mm nominal dia Pipes	metre	1990.40	
	18.9.9	100 mm nominal dia Pipes	metre	2811.75	
	18.9.10	150 mm nominal dia Pipes	metre	5871.25	
18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
	Internal	work - Exposed on wall			
	18.10.1	15 mm dia nominal bore	metre	304.15	
	18.10.2	20 mm dia nominal bore	metre	373.35	
	18.10.3	25 mm dia nominal bore	metre	491.20	
	18.10.4	32 mm dia nominal bore	metre	563.60	
	18.10.5	40 mm dia nominal bore	metre	725.15	
	18.10.6	50 mm dia nominal bore	metre	893.20	
18.11	i/c makin	g and fixing G.I. Pipes complete with G.I. fittings and clamps, ag good the walls etc. concealed pipe, including painting corrosive bitumastic paint, cutting chases and making good			
	18.11.1	15 mm dia nominal bore	metre	485.20	
	18.11.2	20 mm dia nominal bore	metre	541.10	
18.12		g and fixing G.I. pipes complete with G.I. fittings including gand refilling etc.			
	External	work			
	18.12.1	15 mm dia nominal bore	metre	267.50	
	18.12.2	20 mm dia nominal bore	metre	315.35	
	18.12.3	25 mm dia nominal bore	metre	417.95	
	18.12.4	32 mm dia nominal bore	metre	457.70	
	18.12.5	40 mm dia nominal bore	metre	558.35	

Code No.		Description	Unit	Rate ₹
	18.12.6	50 mm dia nominal bore	metre	654.20
	18.12.7	65 mm dia nominal bore	metre	768.60
	18.12.8	80 mm dia nominal bore	metre	919.10
18.13	_	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	757.10
	18.13.2	50 to 80 mm nominal bore	each	1513.70
18.14	and thread	er meter and stop cock in G.I. pipe line including cutting ding the pipe and making long screws etc. complete (cost leter and stop cock to be paid separately).	each	670.15
	BRASS FI	TTINGS		
18.15	Providing	and fixing brass bib cock of approved quality:		
	18.15.1	15 mm nominal bore	each	303.85
	18.15.2	20 mm nominal bore	each	327.95
18.16	Providing	and fixing brass stop cock of approved quality:		
	18.16.1	15 mm nominal bore	each	303.85
	18.16.2	20 mm nominal bore	each	327.95
18.17	_	and fixing gun metal gate valve with C.I. wheel of approved rewed end):		
	18.17.1	25 mm nominal bore	each	532.35
	18.17.1A	20 mm nominal bore	each	461.75
	18.17.2	32 mm nominal bore.	each	589.90
	18.17.3	40 mm nominal bore	each	707.30
	18.17.4	50 mm nominal bore	each	878.25
	18.17.5	65 mm nominal bore	each	1490.70
	18.17.6	80 mm nominal bore	each	2227.60
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	348.85
	18.18.2	20 mm nominal bore	each	397.45
	18.18.3	25 mm nominal bore	each	399.15
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	506.65
		18.19.1.2 Vertical	each	573.50

Code No.			Description	Unit	Rate ₹
	18.19.2	32 mm non	ninal bore		
		18.19.2.1	Horizontal	each	677.55
		18.19.2.2	Vertical	each	777.90
	18.19.3	40 mm non	ninal bore		
		18.19.3.1	Horizontal	each	815.05
		18.19.3.2	Vertical	each	1049.20
	18.19.4	50 mm non	ninal bore		
		18.19.4.1	Horizontal	each	1173.65
		18.19.4.2	Vertical	each	1320.80
	18.19.5	65 mm non	ninal bore		
		18.19.5.1	Horizontal	each	2093.80
		18.19.5.2	Vertical	each	2127.25
	18.19.6	80 mm non	ninal bore		
		18.19.6.1	Horizontal	each	3134.80
		18.19.6.2	Vertical	each	3536.15
18.20	-	g and fixing broad tapping the	ass ferrule with C.I. mouth cover including main:		
	18.20.1	15 mm non	ninal bore	each	301.60
	18.20.2	20 mm non	ninal bore	each	347.90
	18.20.3	25 mm non	ninal bore	each	447.00
18.21	Providing unions:	and fixing up	plasticised PVC connection pipe with brass		
	18.21.1	30 cm length			
		18.21.1.1	15 mm nominal bore	each	74.80
		18.21.1.2	20 mm nominal bore	each	81.50
	18.21.2	45 cm leng	th		
		18.21.2.1	15 mm nominal bore	each	85.20
		18.21.2.2	20 mm nominal bore	each	102.55
18.22	Providing	and fixing C.	P. brass shower rose with 15 or 20 mm inlet :		
	18.22.1	100 mm dia	ameter	each	166.35
	18.22.2	150 mm dia	ameter	each	190.10
	C.I./DUC	TILE IRON PI	PES & SPECIALS		
18.23		position centi g cost of pipe)	rifugally cast (spun) iron S&S or flanged pipes).	quintal	298.50
18.24		•	or flanged C.I. special such as tees, bends, as etc.(excluding cost of specials).	quintal	546.00

Code No.		Description	Unit	Rate ₹
18.25	-	and laying S&S C.I. standard specials such as tees, bends, pers, caps etc. (Heavy class):		
	18.25.1	Up to 300 mm dia	quintal	5649.65
	18.25.2	Over 300 mm dia	quintal	5649.65
18.26	_	and laying flanged C.I. standard specials such as tees, llars, tapers, caps etc., suitable for flanged jointing as per:		
	18.26.1	Up to 300 mm dia	quintal	8191.75
	18.26.2	Over 300 mm dia	quintal	7589.65
18.27	_	and laying S&S centrifugally cast (spun) iron pipes (Class rming to IS - 1536 :		
	18.27.1	100 mm dia pipe	metre	1210.50
	18.27.2	125 mm dia pipe	metre	1511.00
	18.27.3	150 mm dia pipe	metre	1824.70
	18.27.4	200 mm dia pipe	metre	3083.65
	18.27.5	250 mm dia pipe	metre	4030.50
	18.27.6	300 mm dia pipe	metre	5427.45
	18.27.7	350 mm dia pipe	metre	6519.65
	18.27.8	400 mm dia pipe	metre	8572.95
	18.27.9	450 mm dia pipe	metre	10380.20
	18.27.10	500 mm dia pipe	metre	12049.40
	18.27.11	600 mm dia pipe	metre	16832.90
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	410.25
	18.28.2	125 mm diameter pipe	each	609.45
	18.28.3	150 mm diameter pipe	each	615.75
	18.28.4	200 mm diameter pipe	each	818.35
	18.28.5	250 mm diameter pipe	each	1023.05
	18.28.6	300 mm diameter pipe	each	1230.65
	18.28.7	350 mm diameter pipe	each	1252.00
	18.28.8	400 mm diameter pipe	each	1648.10
	18.28.9	450 mm diameter pipe	each	1850.45
	18.28.10	500 mm diameter pipe	each	1956.30
	18.28.11	600 mm diameter pipe	each	2653.90
18.29	Supplying	pig lead at site of work.	quintal	28116.20

Code No.		Description	Unit	Rate ₹
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	182.85
	18.30.2	100 mm diameter pipe	each	284.75
	18.30.3	125 mm diameter pipe	each	303.50
	18.30.4	150 mm diameter pipe	each	343.55
	18.30.5	200 mm diameter pipe	each	377.00
	18.30.6	250 mm diameter pipe	each	520.30
	18.30.7	300 mm diameter pipe	each	527.00
	18.30.8	350 mm diameter pipe	each	662.00
	18.30.9	400 mm diameter pipe	each	907.60
	18.30.10	450 mm diameter pipe	each	1114.80
	18.30.11	500 mm diameter pipe	each	1264.60
	18.30.12	600 mm diameter pipe	each	1482.90
	C.I. SLUIC	CE VALVES/ FIRE HYDRANTS & FIXTURES		
18.31	_	and fixing C.I. sluice valves (with cap) complete with bolts, per insertions etc. (the tail pieces if required will be paid y):		
	18.31.1	100 mm diameter		
		18.31.1.1 Class I	each	4097.90
		18.31.1.2 Class II	each	4500.25
	18.31.2	125 mm diameter		
		18.31.2.1 Class I	each	4417.35
		18.31.2.2 Class II	each	5408.35
	18.31.3	150 mm diameter		
		18.31.3.1 Class I	each	5980.45
		18.31.3.2 Class II	each	6661.80
	18.31.4	200 mm diameter		
		18.31.4.1 Class I	each	11609.50
		18.31.4.2 Class II	each	13512.60
	18.31.5	250 mm diameter		
		18.31.5.1 Class I	each	16748.50
		18.31.5.2 Class II	each	22409.75
	18.31.6	300 mm diameter		
		18.31.6.1 Class I	each	23162.70
		18.31.6.2 Class II	each	27521.50

Code No.	Description	Unit	Rate ₹
18.32	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :		
	18.32.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	1712.15
18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :		
	18.33.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	10102.50
18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :		
	18.34.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	17577.90
18.35	Constructing masonry Chamber 120x120x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :icks of class		
	designation 7.5	each	24388.85

Code No.		Description	Unit	Rate ₹
18.36	in cemen with C.I. s with chair sand: 4 g excavation graded st with ceme	ting masonry Chamber 60x60x75 cm, inside in brick work t mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, surface box 350x350 mm top and 165 mm deep (inside) ned lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse raded stone aggregate 20 mm nominal size), i/c necessary on, foundation concrete 1:5:10 (1 cement : 5 fine sand:10 one aggregate 40 mm nominal size) and inside plastering ent mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, with a floating coat of neat cement complete as per standard		
	18.36.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	9630.65
18.37	in cemen complete with locking coarse sat necessar fine sand: plastering mm thick	ting masonry Chamber 60x45x50 cm inside, in brick work t mortar 1:4 (1 cement : 4 coarse sand) for water meter with C.I. double flap surface box 400x200x200 mm (inside) ng arrangement and RCC top slab 1:2:4 mix (1 cement : 2 and : 4 graded stone aggregate 20 mm nominal size), i/c y excavation, foundation concrete 1:5:10 (1 cement : 5 10 graded stone aggregate 40 mm nominal size) and inside g with cement mortar 1:3 (1 cement : 3 coarse sand) 12, finished with a floating coat of neat cement complete as ard design :		
	18.37.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	9020.80
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	16.40
	18.38.2	20 mm diameter pipe	metre	19.65
	18.38.3	25 mm diameter pipe	metre	25.60
	18.38.4	32 mm diameter pipe	metre	30.70
	18.38.5	40 mm diameter pipe	metre	36.05
	18.38.6	50 mm diameter pipe	metre	43.05
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	8.10
	18.39.2	20 mm diameter pipe	metre	9.60
	18.39.3	25 mm diameter pipe	metre	12.25
	18.39.4	32 mm diameter pipe	metre	14.65
	18.39.5	40 mm diameter pipe	metre	17.00
	18.39.6	50 mm diameter pipe	metre	20.25

Code No.		Description	Unit	Rate ₹
18.40	_	G.I. pipes and fittings with two coats of anti-corrosive paint of approved quality:		
	18.40.1	15 mm diameter pipe	metre	10.05
	18.40.2	20 mm diameter pipe	metre	12.00
	18.40.3	25 mm diameter pipe	metre	15.25
	18.40.4	32 mm diameter pipe	metre	18.40
	18.40.5	40 mm diameter pipe	metre	20.95
	18.40.6	50 mm diameter pipe	metre	25.25
	18.40.7	65 mm diameter pipe	metre	31.30
	18.40.8	80 mm diameter pipe	metre	36.40
18.41	_	and filling sand of grading zone V or coarser grade, allround pes in external work :		
	18.41.1	15 mm diameter pipe	metre	157.70
	18.41.2	20 mm diameter pipe	metre	159.85
	18.41.3	25 mm diameter pipe	metre	164.10
	18.41.4	32 mm diameter pipe	metre	168.35
	18.41.5	40 mm diameter pipe	metre	170.50
	18.41.6	50 mm diameter pipe	metre	176.90
	18.41.7	65 mm diameter pipe	metre	279.20
	18.41.8	80 mm diameter pipe	metre	287.70
	18.41.9	100 mm diameter pipe	metre	304.75
	18.41.10	150 mm diameter pipe	metre	453.95
18.42	in all soils	th 100 mm diameter casing pipe for hand pump / tubewell, sexcept ordinary hard rocks requiring blasting, including the casing pipe after the hand pump / tube well is lowered d:		
	18.42.1	Up to 6 metres depth	metre	618.00
	18.42.2	Beyond 6 m and up to 12 m depth	metre	730.95
	18.42.3	Beyond 12 m and up to 18 m depth	metre	847.35
18.43		and placing in position filters of 40 mm diameter G.I. pipe strainer of approved quality.	metre	813.25
18.44		and fixing to filter and lowering to proper levels 40 mm G.I. lbe well including cleaning and priming the tube well.	metre	499.80
18.45	_	and placing in position hand pump of approved quality for ameter G.I. pipe complete with all accessories.	each	1178.65
18.46		and fixing G.I. Union in G.I. pipe including cutting and the pipe and making long screws etc. complete (New		
	18.46.1	15 mm nominal bore	each	262.30

Code No.		Description	Unit	Rate ₹
	18.46.2	20 mm nominal bore	each	289.05
	18.46.3	25 mm nominal bore	each	369.35
	18.46.4	32 mm nominal bore	each	409.45
	18.46.5	40 mm nominal bore	each	523.20
	18.46.6	50 mm nominal bore	each	706.70
	18.46.7	65 mm nominal bore	each	994.35
	18.46.8	80 mm nominal bore	each	1061.25
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	682.90
	18.47.2	20 mm nominal bore	each	709.70
	18.47.3	25 mm nominal bore	each	789.95
	18.47.4	32 mm nominal bore	each	830.10
	18.47.5	40 mm nominal bore	each	943.80
	18.47.6	50 mm nominal bore	each	1280.30
	18.47.7	65 mm nominal bore	each	1567.95
	18.47.8	80 mm nominal bore	each	1634.85
18.48	storage ta arrangem	and placing on terrace (at all floor levels) polyethylene water ank, IS: 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.	per litre	9.70
18.48A	storage lo opaque w making ne	and fixing rectangular high density polyethylene water oft tank with cover, conforming to ISI: 12701, colour of hite or as approved by Engineer-in-charge. The rate includes eccessary holes for inlet, outlet & over flow pipes. The base c fittings & fixtures for tank shall be paid separately.	perlitre	9.70
	C.P. BRA	SS FITTINGS		
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	434.20
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	715.05
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	708.40
18.52	_	and fixing C.P. brass stop cock (concealed) of standard d of approved make conforming to IS:8931.		
	18.52.1	15 mm nominal bore	each	594.75

Code No.			Description	Unit	Rate ₹
18.53			ass angle valve for basin mixer and geyser conforming to IS:8931		
	18.53.1	15mm nomina	bore	each	500.35
18.53A			ass extension nipple (size 15mmx50mm) lity as per direction of Engineer-in-charge.	each	61.70
	PTMT F	TTINGS			
18.54	Providin	g and fixing PTMT	bib cock of approved quality and colour.		
	18.54.1	15mm nomina than 88 gms	l bore, 86 mm long, weighing not less	each	109.85
	18.54.2	15 mm nomina than 99 gms	al bore, 122mm long, weighing not less	each	143.30
	18.54.3	15 mm nomina than 110 gms	al bore, 165 mm long, weighing not less	each	156.65
	18.54.4	15 mm nomina than 93 gms	al bore, 90 mm long, weighing not less	each	170.05
18.55	Providing	g and fixing PTMT	stop cock of approved quality and colour.		
	18.55.1	15 mm nomina than 88 gms	al bore, 86 mm long, weighing not less	each	103.15
	18.55.2	20 mm nomina than 88 gms	al bore, 89 mm long, weighing not less	each	113.85
	18.55.3		o cock, 15 mm nominal bore, 108 mm long, ess than 108 gms	each	183.40
18.56	Providing and fixing PTMT pillar cock of approved quality and colour.				
	18.56.1	15 mm nomina than 110 gms	al bore, 107 mm long, weighing not less	each	180.80
	18.56.2	15 mm nomina not less than 1	al bore, 125 mm long foam flow, weighing 20 gms	each	194.15
18.57	Providing	and fixing PTMT,	push cock of approved quality and colour.		
	18.57.1	15 mm nomina than 75 gms	al bore, 98 mm long, weighing not less	each	96.45
	18.57.2	15 mm nomina than 46 gms	al bore, 80 mm long, weighing not less	each	83.05
18.58	Providing	g and fixing PTMT	grating of approved quality and colour.		
	18.58.1	Circular type			
		18.58.1.1 10	00 mm nominal dia	each	33.20
		18.58.1.2 12	25 mm nominal dia with 25 mm waste hole	each	45.25
	18.58.2	Rectangular type	e with openable circular lid		
			50 mm nominal size square 100 mm ameter of the inner hinged round grating	each	169.70

Code No.		Description	Unit	Rate ₹
	AIR VALV	/E & WATER METER (BULK TYPE)		
18.59	with bolts	and fixing C.I. double acting air valve of approved quality s, nuts, rubber insertions etc. complete (The tail pieces, c if required will be paid separately):		
	18.59.1	50 mm dia	each	5171.75
	18.59.2	80 mm dia	each	6255.45
	18.59.3	100 mm dia	each	8214.10
18.60	to IS: 23	and fixing enclosed type water meter (bulk type) conforming 873 and tested by Municipal Board complete with bolts, per insertions etc. (The tail pieces if required will be paid by):		
	18.60.1	80 mm dia nominal bore	each	3266.10
	18.60.2	100 mm dia nominal bore	each	4995.90
	18.60.3	150 mm dia nominal bore	each	7357.35
	18.60.4	200 mm dia nominal bore	each	8080.15
18.61	Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS: 2373:			
	18.61.1	80 mm dia	each	4135.75
	18.61.2	100 mm dia	each	6637.55
	18.61.3	150 mm dia	each	8394.25
	18.61.4	200 mm dia	each	11712.65
18.62	_	and fixing PTMT Ball cock of approved quality, colour and applete with Epoxy coated aluminium rod with L.P./ H.P.H.D.		
	18.62.1	15 mm nominal bore, 105 mm long, weighing not less than 138 gms	each	161.55
	18.62.2	20 mm nominal bore, 120 mm long, weighing not less than 198 gms	each	223.50
	18.62.3	25 mm nominal bore, 152mm long, weighing not less than 440 gms	each	459.40
	18.62.4	40 mm nominal bore, 206mm long, weighing not less than 690 gms	each	653.40
	18.62.5	50 mm nominal bore, 242mm long, weighing not less than 1240 gms	each	1188.55
18.63	_	and fixing PTMT angle stop cock 15 mm nominal bore, not less than 85 gms	each	136.60
18.64	_	and fixing PTMT swivelling shower, 15 mm nominal bore, not less than 40 gms	each	106.15

Code No.		Description	Unit	Rate ₹
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	96.75
18.66	_	and laying S&S C.I. Standard specials such as tees, bends, pers and caps etc, suitable for flanged jointing as per IS:		
	18.66.1	Up to 300 mm dia	quintal	7509.40
	18.66.2	Above 300 mm dia	quintal	8860.70
18.67	-	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	12032.95
	18.67.2	Above 300 mm dia	quintal	12671.15
18.68	_	and laying D.I. specials of class K-12 suitable for push-on sper IS: 9523:		
	18.68.1	Up to 600 mm dia	quintal	17155.90
	18.68.2	Above 600 mm dia	quintal	23578.00
18.69	_	and laying D.I. Specials of Class K - 12 suitable for al jointing as per IS: 9523:		
	18.69.1	Up to 600 mm dia	quintal	18025.60
	18.69.2	Above 600 mm dia	quintal	25651.85
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	96.15
	18.70.2	150 mm dia pipes	joint	156.05
	18.70.3	200 mm dia pipes	joint	229.50
	18.70.4	250 mm dia pipes	joint	280.15
	18.70.5	300 mm dia pipes	joint	357.60
	18.70.6	350 mm dia pipes	joint	416.30
	18.70.7	400 mm dia pipes	joint	579.40
	18.70.8	450 mm dia pipes	joint	670.20
	18.70.9	500 mm dia pipes	joint	715.60
	18.70.10	600 mm dia pipes	joint	961.25
	18.70.11	700 mm dia pipes	joint	1256.80
	18.70.12	750 mm dia pipes	joint	1377.20
	18.70.13	800 mm dia pipes	joint	1577.35
	18.70.14	900 mm dia pipes	joint	1963.55
	18.70.15	1000 mm dia pipes	joint	2265.60

Code No.		Description	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	1838.10
	18.71.2	150 mm dia C.I. Double Flanged Pipe	metre	2880.00
	18.71.3	200 mm dia C.I. Double Flanged Pipe	metre	4535.10
	18.71.4	250 mm dia C.I. Double Flanged Pipe	metre	5498.05
	18.71.5	300 mm dia C.I. Double Flanged Pipe	metre	7027.50
	18.71.6	350 mm dia C.I. Double Flanged Pipe	metre	8847.60
	18.71.7	400 mm dia C.I. Double Flanged Pipe	metre	11436.30
	18.71.8	450 mm dia C.I. Double Flanged Pipe	metre	14544.15
	18.71.9	500 mm dia C.I. Double Flanged Pipe	metre	18032.25
	18.71.10	600 mm dia C.I. Double Flanged Pipe	metre	24977.15
18.72		and laying S&S Centrifugally Cast (Spun) / Ductile Iron Informing to IS: 8329:		
	18.72.1	100 mm dia Ductile Iron Class K-7 pipes	metre	1121.10
	18.72.2	150 mm dia Ductile Iron Class K-7 pipes	metre	1601.30
	18.72.3	200 mm dia Ductile Iron Class K-7 pipes	metre	1975.95
	18.72.4	250 mm dia Ductile Iron Class K-7 pipes	metre	2544.05
	18.72.5	300 mm dia Ductile Iron Class K-7 pipes	metre	3177.65
	18.72.6	350 mm dia Ductile Iron Class K-7 pipes	metre	3774.50
	18.72.7	400 mm dia Ductile Iron Class K-7 pipes	metre	4525.25
	18.72.8	450 mm dia Ductile Iron Class K-7 pipes	metre	5479.85
	18.72.9	500 mm dia Ductile Iron Class K-7 pipes	metre	6191.50
	18.72.10	600 mm dia Ductile Iron Class K-7 pipes	metre	7986.05
	18.72.11	700 mm dia Ductile Iron Class K-7 pipes	metre	10410.70
	18.72.12	800 mm dia Ductile Iron Class K-7 pipes	metre	12982.00
	18.72.13	900 mm dia Ductile Iron Class K-7 pipes	metre	16751.40
	18.72.14	1000 mm dia Ductile Iron Class K-7 pipes	metre	17655.80
	18.72.15	100 mm dia Ductile Iron Class K-9 pipes	metre	1081.35
	18.72.16	150 mm dia Ductile Iron Class K-9 pipes	metre	1625.05
	18.72.17	200 mm dia Ductile Iron Class K-9 pipes	metre	2228.15
	18.72.18	250 mm dia Ductile Iron Class K-9 pipes	metre	3105.20
	18.72.19	300 mm dia Ductile Iron Class K-9 pipes	metre	3882.70
	18.72.20	350 mm dia Ductile Iron Class K-9 pipes	metre	4752.05
	18.72.21	400 mm dia Ductile Iron Class K-9 pipes	metre	6079.70
	18.72.22	450 mm dia Ductile Iron Class K-9 pipes	metre	7074.20
	18.72.23	500 mm dia Ductile Iron Class K-9 pipes	metre	8828.65
	18.72.24	600 mm dia Ductile Iron Class K-9 pipes	metre	10698.20

Code No.		Description	Unit	Rate ₹
	18.72.25	700 mm dia Ductile Iron Class K-9 pipes	metre	14750.95
	18.72.26	750 mm dia Ductile Iron Class K-9 pipes	metre	16029.60
	18.72.27	800 mm dia Ductile Iron Class K-9 pipes	metre	16276.50
	18.72.28	900 mm dia Ductile Iron Class K-9 pipes	metre	19716.20
	18.72.29	1000 mm dia Ductile Iron Class K-9 pipes	metre	22099.60
18.73	_	and laying Double Flanged (Screwed/ Welded) Centrifugally actile Iron Pipes of Class K - 9 conforming to IS: 8329:		
	18.73.1	100 mm dia Ductile Iron Double Flanged	metre	1541.60
	18.73.2	150 mm dia Ductile Iron Double Flanged	metre	2312.90
	18.73.3	200 mm dia Ductile Iron Double Flanged	metre	2921.15
	18.73.4	250 mm dia Ductile Iron Double Flanged	metre	4142.70
	18.73.5	300 mm dia Ductile Iron Double Flanged	metre	5321.65
	18.73.6	350 mm dia Ductile Iron Double Flanged	metre	6700.15
	18.73.7	400 mm dia Ductile Iron Double Flanged	metre	8594.30
	18.73.8	450 mm dia Ductile Iron Double Flanged	metre	9068.45
	18.73.9	500 mm dia Ductile Iron Double Flanged	metre	12777.30
	18.73.10	600 mm dia Ductile Iron Double Flanged	metre	16929.85
	18.73.11	700 mm dia Ductile Iron Double Flanged	metre	20040.60
18.74	•	and fixing unplasticised P.V.C. connection pipe with PTMT ar and bush of approved quality and colour.		
	18.74.1	15 mm nominal bore with 30cm length	each	85.50
	18.74.2	15 mm nominal bore with 45 cm length	each	107.90
18.75	ū	and fixing PTMT extension nipple for water tank pipe, fittings ed quality and colour.		
	18.75.1	15 mm nominal bore, weighing not less than 32 gms	each	43.05
	18.75.2	20 mm nominal bore, weighing not less than 40 gms	each	76.50
	18.75.3	25mm nominal bore, weighing not less than 62 gms	each	100.55
18.76	Cutting ho same:	oles up to 30x30 cm in walls including making good the		
	18.76.1	With common burnt clay F.P.S. (non modular) bricks	each	362.40
18.77	drain pipe with ceme stone agg	oles up to 15x15 cm in R.C.C. floors and roofs for passing etc. and repairing the hole after insertion of drain pipe etc. ent concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded regate 20 mm nominal size), including finishing complete nake it leak proof.	each	377.10
18.78		nases up to 7.5x7.5 cm in walls including making good and	Caon	377.10
10.70	_	vith matching surface after housing G.I. pipe etc.	metre	171.80

Code No.		Description	Unit	Rate ₹
18.79	diameter i : 3 coarse	ole up to 20x20 cm and embedding pipes up to 150 mm n masonry and filling with cement concrete 1:3:6 (1 cement sand: 6 graded stone aggregate 20 mm nominal size) disposal of malba.	metre	198.40
18.80	bleaching same with getting the	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 a sample of water from the disinfected main tested in the laboratory.		
	18.80.1	80 mm diameter C.I. pipe	100 metre	1523.95
	18.80.2	100 mm diameter C.I. pipe	100 metre	1996.50
	18.80.3	125 mm diameter C.I. pipe	100 metre	2486.60
	18.80.4	150 mm diameter C.I. pipe	100 metre	2974.90
	18.80.5	200 mm diameter C.I. pipe	100 metre	3954.45
	18.80.6	250 mm diameter C.I. pipe	100 metre	4960.30
	18.80.7	300 mm diameter C.I. pipe	100 metre	5501.75
	18.80.8	350 mm diameter C.I. pipe	100 metre	6056.95
	18.80.9	400 mm diameter C.I. pipe	100 metre	6635.25
	18.80.10	450 mm diameter C.I. pipe	100 metre	7220.85
	18.80.11	500 mm diameter C.I. pipe	100 metre	7834.30
	18.80.12	600 mm diameter C.I. pipe	100 metre	9071.95
18.81	water con cleaning th	very operation of disinfecting the C.I. main by flushing with taining bleaching powder @ 0.5 gms per litre of water and he same with fresh water, including getting the samples of ed in the municipal laboratory:		
	18.81.1	80 mm diameter C.I. pipe	100 metre	558.00
	18.81.2	100 mm diameter C.I. pipe	100 metre	681.90
	18.81.3	125 mm diameter C.I. pipe	100 metre	830.25
	18.81.4	150 mm diameter C.I. pipe	100 metre	963.75
	18.81.5	200 mm diameter C.I. pipe	100 metre	1451.60
	18.81.6	250 mm diameter C.I. pipe	100 metre	1669.45
	18.81.7	300 mm diameter C.I. pipe	100 metre	1873.85
	18.81.8	350 mm diameter C.I. pipe	100 metre	2190.05
	18.81.9	400 mm diameter C.I. pipe	100 metre	2508.80
	18.81.10	450 mm diameter C.I. pipe	100 metre	2835.00
	18.81.11	500 mm diameter C.I. pipe	100 metre	3163.20
	18.81.12	600 mm diameter C.I. pipe	100 metre	3829.45

Code No.		Description	Unit	Rate ₹
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	327.30
	18.82.2	100 mm diameter C.I. pipe	metre	340.80
	18.82.3	125 mm diameter C.I. pipe	metre	353.40
	18.82.4	150 mm diameter C.I. pipe	metre	366.20
	18.82.5	200 mm diameter C.I. pipe	metre	407.80
	18.82.6	250 mm diameter C.I. pipe	metre	448.10
	18.82.7	300 mm diameter C.I. pipe	metre	484.50
	18.82.8	350 mm diameter C.I. pipe	metre	519.10
	18.82.9	400 mm diameter C.I. pipe	metre	550.80
	18.82.10	450 mm diameter C.I. pipe	metre	583.30
	18.82.11	500 mm diameter C.I. pipe	metre	611.90
	18.82.12	600 mm diameter C.I. pipe	metre	662.15
18.83	Labour fo	r cutting C.I. pipe with steel saw.		
	18.83.1	80 mm diameter C.I. pipe	each cut	119.90
	18.83.2	100 mm diameter C.I. pipe	each cut	160.70
	18.83.3	125 mm diameter C.I. pipe	each cut	222.85
	18.83.4	150 mm diameter C.I. pipe	each cut	301.90
	18.83.5	200 mm diameter C.I. pipe	each cut	402.65
	18.83.6	250 mm diameter C.I. pipe	each cut	500.85
	18.83.7	300 mm diameter C.I. pipe	each cut	601.60
	18.83.8	350 mm diameter C.I. pipe	each cut	699.75
	18.83.9	400 mm diameter C.I. pipe	each cut	800.15
	18.83.10	450 mm diameter C.I. pipe	each cut	898.70
	18.83.11	500 mm diameter C.I. pipe	each cut	999.10
	18.83.12	600 mm diameter C.I. pipe	each cut	1192.85
18.84	_	& fixing chrome plated brass battery based infrared sensor pillar cock, having foam flow technology.		
	18.84.1	15 mm nominal bore	each	8050.50
18.85	as per JIS shall be pa m spacing testing of	and fixing Stainless Steel pipe and fitting of grade AISI 304 S standard 3448 complete with press type fitting (fitting aid for separately) i/c fixing of the pipe with clamps at 1.00 g including cutting and making good the walls including joints complete as per direction of Engineer-in-charge. I length inserted in the fitting shall not be measured for		

Code No.		Description	Unit	Rate ₹
	Inernal w	vork - Exposed on wall		
	18.85.1	15.88 mm outer dia pipe	metre	352.15
	18.85.2	22.22 mm outer dia Pipe	metre	506.70
	18.85.3	28.58 mm outer dia Pipe	metre	591.45
	18.85.4	34.00 mm outer dia Pipe	metre	773.40
	18.85.5	42.70 mm outer dia Pipe	metre	788.55
	18.85.6	48.60 mm outer dia Pipe	metre	1027.40
18.85A	per IS 691 with press the pipe w good the v Engineer-	and fixing Stainless Steel pipe and fitting of grade 316L as 11:2017 and conforming to EN-10312 standards complete type fitting (fitting shall be paid for separately) i/c fixing of with clamps at 1.00 m spacing including cutting and making walls including testing of joints complete as per direction of cin-charge. (The pipe length inserted in the fitting shall not ured for payment)		
	Inernal w	ork - Exposed on wall		
	18.85A.1	15 mm outer dia pipe	metre	590.95
	18.85A.2	22 mm outer dia Pipe	metre	857.95
	18.85A.3	28 mm outer dia Pipe	metre	1069.10
	18.85A.4	35 mm outer dia Pipe	metre	1483.60
	18.85A.5	42 mm outer dia Pipe	metre	1786.05
	18.85A.6	54 mm outer dia Pipe	metre	2263.75
18.86	as per JIS 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 pred for payment)		
	Internal v	work - Concealed Pipe		
	18.86.1	15.88 mm outer dia .Pipes.	metre	523.15
	18.86.2	22.22 mm Outer dia pipes	metre	677.75
18.86A	per IS 691 with press the pipe w chases an as per dire	and fixing Stainless Steel pipe and fitting of grade 316L as 11:2017 and conforming to EN-10312 standards complete stype fitting (fitting shall be paid for separately) i/c fixing of with clamps at 1.00m spacing and also including cutting of and making good the walls including testing of joints complete ection of Engineer -in-charge. (The pipe length inserted in shall not be measured for payment)		
	Internal v	work - Concealed Pipe		
	18.86A.1	15 mm outer dia .Pipes.	metre	762.00
	18.86A.2	22 mm Outer dia pipes	metre	1028.95

Code No.		Description	Unit	Rate ₹
18.87	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 direction of Engineer-in-charge.		
	Coupling	/Socket		
	18.87.1	For 15.88 mm outer dia pipe	each	80.30
	18.87.2	For 22.22 mm outer dia pipe	each	93.65
	18.87.3	For 28.58 mm outer dia pipe	each	128.80
	18.87.4	For 34.00 mm outer dia pipe	each	180.60
	18.87.5	For 42.70 mm outer dia pipe	each	214.05
	18.87.6	For 48.60 mm outer dia pipe	each	240.85
18.87A	of grade 3 standards	and fixing required Stainless Steel Fitting of press fit design 816L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM frequired dia as per direction of Engineer-in-charge.		
	Coupling	/Socket		
	18.87A.1	For 15 mm outer dia pipe	each	287.65
	18.87A.2	For 22 mm outer dia pipe	each	361.25
	18.87A.3	For 28 mm outer dia pipe	each	421.45
	18.87A.4	For 35 mm outer dia pipe	each	528.50
	18.87A.5	For 42 mm outer dia pipe	each	715.80
	18.87A.6	For 54 mm outer dia pipe	each	856.30
18.88	of grade A or M-profi providing a 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 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 direction of Engineer-in-charge.		
	Reducer			
	18.88.1	For 22.22 mm x 15.88 mm outer dia pipe	each	145.15
	18.88.2	For 28.58 mm x 15.88 mm outer dia pipe	each	204.05
	18.88.3	For 28.58 mm x 22.22 mm outer dia pipe	each	216.10
	18.88.4	For 34.00 mm x 15.88 mm outer dia pipe	each	267.60
	18.88.5	For 34.00 mm x 22.22 mm outer dia pipe	each	280.95
	18.88.6	For 34.00 mm x 28.58 mm outer dia pipe	each	280.95
	18.88.7	For 42.70 mm x 15.88 mm outer dia pipe	each	501.75
	18.88.8	For 42.70 mm x 22.22 mm outer dia pipe	each	501.75
	18.88.9	For 42.70 mm x 28.58 mm outer dia pipe	each	521.80
	18.88.10	For 42.70 mm x 34.00 mm outer dia pipe	each	521.80

Code No.		Description	Unit	Rate ₹
	18.88.11	For 48.60 mm x 15.88 mm outer dia pipe	each	568.60
	18.88.12	For 48.60 mm x 22.22 mm outer dia pipe	each	568.60
	18.88.13	For 48.60 mm x 28.58 mm outer dia pipe	each	568.60
	18.88.14	For 48.60 mm x 34.00 mm outer dia pipe	each	568.60
	18.88.15	For 48.60 mm x 42.70 mm outer dia pipe	each	568.60
18.88A	of grade 3 standards	and fixing required Stainless Steel Fitting of press fit design a 16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM required dia as per direction of Engineer-in-charge.		
	Reducer			
	18.88A.1	For 22mm x 15 mm outer dia pipe	each	341.15
	18.88A.2	For 28 mm x 15 mm outer dia pipe	each	501.75
	18.88A.3	For 28 mm x 22 mm outer dia pipe	each	414.75
	18.88A.4	For 35 mm x 22 mm outer dia pipe	each	508.40
	18.88A.5	For 35 mm x 28 mm outer dia pipe	each	628.85
	18.88A.6	For 42 mm x 22 mm outer dia pipe	each	923.20
	18.88A.7	For 42 mm x 28 mm outer dia pipe	each	963.30
	18.88A.8	For 42 mm x 35 mm outer dia pipe	each	809.45
	18.88A.9	For 54 mm x 28 mm outer dia pipe	each	1324.55
	18.88A.10	For 54 mm x 35 mm outer dia pipe	each	1378.10
	18.88A.11	For 54 mm x 42 mm outer dia pipe	each	1117.20
18.89	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 e and with O-ring sealing gasket of EPDM material of a as per direction of Engineer-in-charge.		
	Slip Coup	oling/ Socket		
	18.89.1	For 15.88 mm outer dia pipe	each	73.60
	18.89.2	For 22.22 mm outer dia pipe	each	93.65
	18.89.3	For 28.58 mm outer dia pipe	each	127.10
	18.89.4	For 34.00 mm outer dia pipe	each	180.60
	18.89.5	For 42.70 mm outer dia pipe	each	214.05
	18.89.6	For 48.60 mm outer dia pipe	each	234.15
18.89A	of grade 3 standards	and fixing required Stainless Steel Fitting of press fit design 116L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM required dia as per direction of Engineer-in-charge.		
	Sleeve/Sli	ip Coupling/ Socket		
	18.89A.1	For 15 mm outer dia pipe	each	501.75
	18.89A.2	For 22 mm outer dia pipe	each	602.05

Code No.		Description	Unit	Rate ₹
	18.89A.3	For 28 mm outer dia pipe	each	695.75
	18.89A.4	For 35 mm outer dia pipe	each	776.00
	18.89A.5	For 42 mm outer dia pipe	each	896.40
	18.89A.6	For 54 mm outer dia pipe	each	1277.75
18.90	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 direction of Engineer-in-charge.		
	Elbow 90°			
	18.90.1	For 15.88mm outer dia pipe	each	86.95
	18.90.2	For 22.22 mm outer dia pipe	each	93.65
	18.90.3	For 28.58 mm outer dia pipe	each	140.50
	18.90.4	For 34.00 mm outer dia pipe	each	160.55
	18.90.5	For 42.70 mm outer dia pipe	each	173.95
	18.90.6	For 48.60 mm outer dia pipe	each	214.05
18.90A	of grade 3 standards	and fixing required Stainless Steel Fitting of press fit design B16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM frequired dia as per direction of Engineer-in-charge.		
	Elbow 90°	0		
	18.90A.1	For 15 mm outer dia pipe	each	408.05
	18.90A.2	For 22 mm outer dia pipe	each	575.30
	18.90A.3	For 28 mm outer dia pipe	each	769.30
	18.90A.4	For 35 mm outer dia pipe	each	1257.65
	18.90A.5	For 42 mm outer dia pipe	each	2033.65
	18.90A.6	For 54 mm outer dia pipe	each	2689.25
18.91	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 direction of Engineer-in-charge.		
	Reducing	j Elbow 90°		
	18.91.1	For22.22 mm x 15.88 mm outer dia pipe	each	200.70
	18.91.2	For 28.58 mm x 15.88 mm outer dia pipe	each	280.95
	18.91.3	For 28.58 mm x 22.22 mm outer dia pipe	each	334.50
	18.91.4	For 34.00 mm x 22.22 mm outer dia pipe	each	394.70
	18.91.5	For 34.00 mm x 28.58 mm outer dia pipe	each	468.30
	18.91.6	For 42.70 mm x 34.00 mm outer dia pipe	each	254.20

Code No.		Description	Unit	Rate ₹
18.92	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 ile and with O-ring sealing gasket of EPDM material of lia as per direction of Engineer-in-charge.		
	Equal Te	e		
	18.92.1	For 15.88 mm outer dia pipe	each	234.15
	18.92.2	For 22.22 mm outer dia pipe	each	334.50
	18.92.3	For 28.58 mm outer dia pipe	each	394.70
	18.92.4	For 34.00 mm outer dia pipe	each	588.70
	18.92.5	For 42.70 mm outer dia pipe	each	929.85
	18.92.6	For 48.60 mm outer dia pipe	each	1224.20
18.92A	of grade 3 standards	and fixing required Stainless Steel Fitting of press fit design 316L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM frequired dia as per direction of Engineer-in-charge.		
	Equal Te	e		
	18.92A.1	For 15 mm outer dia pipe	each	668.95
	18.92A.2	For 22 mm outer dia pipe	each	782.70
	18.92A.3	For 28 mm outer dia pipe	each	963.30
	18.92A.4	For 35 mm outer dia pipe	each	1197.45
	18.92A.5	For 42 mm outer dia pipe	each	1672.40
	18.92A.6	For 54 mm outer dia pipe	each	2006.90
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 ile and with O-ring sealing gasket of EPDM material of lia as per direction of Engineer-in-charge.		
	Reducing	g Tee		
	18.93.1	For 22.22 mm x 15.88 mm outer dia pipe	each	247.50
	18.93.2	For 28.58 mm x 15.88 mm outer dia pipe	each	388.00
	18.93.3	For 28.58 mm x 22.22 mm outer dia pipe	each	388.00
	18.93.4	For 34.00 mm x 15.88 mm outer dia pipe	each	588.70
	18.93.5	For 34.00 mm x 22.22 mm outer dia pipe	each	588.70
	18.93.6	For 34.00 mm x 28.58 mm outer dia pipe	each	588.70
	18.93.7	For 42.70 mm x 15.88 mm outer dia pipe	each	923.20
	18.93.8	For 42.70 mm x 22.22 mm outer dia pipe	each	923.20
	18.93.9	For 42.70 mm x 28.58 mm outer dia pipe	each	923.20
	18.93.10	For 42.70 mm x 34.00 mm outer dia pipe	each	923.20
	18.93.11	For 48.60 mm x 15.88 mm outer dia pipe	each	1186.75

Code No.		Description	Unit	Rate ₹
	18.93.12	For 48.60 mm x 22.22 mm outer dia pipe	each	1197.45
	18.93.13	For 48.60 mm x 28.58 mm outer dia pipe	each	1197.45
	18.93.14	For 48.60 mm x 34.00 mm outer dia pipe	each	1197.45
	18.93.15	For 48.60 mm x 42.70 mm outer dia pipe	each	1197.45
18.93A	of grade 3 standards	and fixing required Stainless Steel Fitting of press fit design 16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM required dia as per direction of Engineer-in-charge.		
	Reducing	Tee		
	18.93A.1	For 22 mm x 15 mm outer dia pipe	each	769.30
	18.93A.2	For 28 mm x 15 mm outer dia pipe	each	956.65
	18.93A.3	For 28 mm x 22 mm outer dia pipe	each	949.95
	18.93A.4	For 35 mm x 15 mm outer dia pipe	each	1204.15
	18.93A.5	For 35 mm x 22 mm outer dia pipe	each	1210.85
	18.93A.6	For 35 mm x 28 mm outer dia pipe	each	1224.20
	18.93A.7	For 42 mm x 22 mm outer dia pipe	each	1712.55
	18.93A.8	For 42 mm x 28 mm outer dia pipe	each	1692.50
	18.93A.9	For 42 mm x 35 mm outer dia pipe	each	1725.95
	18.93A.10	For 54 mm x 22 mm outer dia pipe	each	2100.55
	18.93A.11	For 54 mm x 28 mm outer dia pipe	each	2060.40
	18.93A.12	For 54 mm x 35 mm outer dia pipe	each	2073.80
	18.93A.13	For 54 mm x 42 mm outer dia pipe	each	2006.90
18.94	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 e and with O-ring sealing gasket of EPDM material of a as per direction of Engineer-in-charge.		
	Male Thre	ead Tee		
	18.94.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	247.50
	18.94.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	287.65
	18.94.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	287.65
	18.94.4	For 28.58 mm outer dia x 15 mm nominal dia threaded	each	394.70
	18.94.5	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	394.70
	18.94.6	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	394.70
	18.94.7	For 34.00 mm outer dia x 15 mm nominal dia threaded	each	622.15
	18.94.8	For 34.00 mm outer dia x 20 mm nominal dia threaded	each	622.15
	18.94.9	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	622.15
	18.94.10	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	622.15
	18.94.11	For 42.70 mm outer dia x 15 mm nominal dia threaded	each	949.95
	18.94.12	For 42.70 mm outer dia x 20 mm nominal dia threaded	each	949.95

Code Descri No.	iption	Unit	Rate ₹
18.94.13 For 42.70 mm outer dia	a x 25 mm nominal dia threaded	each	949.95
18.94.14 For 42.70 mm outer dia	a x 32 mm nominal dia threaded	each	949.95
18.94.15 For 42.70 mm outer dia	a x 40 mm nominal dia threaded	each	949.95
18.94.16 For 48.60 mm outer dia	a x 15 mm nominal dia threaded	each	1197.45
18.94.17 For 48.60 mm outer dia	a x 20 mm nominal dia threaded	each	1197.45
18.94.18 For 48.60 mm outer dia	a x 25 mm nominal dia threaded	each	1197.45
18.94.19 For 48.60 mm outer dia	a x 32 mm nominal dia threaded	each	1197.45
18.94.20 For 48.60 mm outer dia	a x 40 mm nominal dia threaded	each	1197.45
18.94.21 For 48.60 mm outer dia	a x 50 mm nominal dia threaded	each	1197.45
18.95 Providing and fixing required Stainle of grade AISI 304 conforming to JW or M-profile and with O-ring sealing required dia as per direction of English	WA G116 standard with V-profile ng gasket of EPDM material of		
Female Thread Tee			
18.95.1 For 15.88 mm outer dia	a x15 mm nominal dia threaded	each	247.50
18.95.2 For 22.22 mm outer dia	a x 15 mm nominal dia threaded	each	274.30
18.95.3 For 22.22 mm outer dia	a x 20 mm nominal dia threaded	each	274.30
18.95.4 For 28.58 mm outer dia	a x 15 mm nominal dia threaded	each	367.95
18.95.5 For 28.58 mm outer dia	a x 20 mm nominal dia threaded	each	367.95
18.95.6 For 28.58 mm outer dia	a x 25 mm nominal dia threaded	each	367.95
18.95.7 For 34.00 mm outer dia	a x 15 mm nominal dia threaded	each	595.40
18.95.8 For 34.00 mm outer dia	a x 20 mm nominal dia threaded	each	595.40
18.95.9 For 34.00 mm outer dia	a x 25 mm nominal dia threaded	each	595.40
18.95.10 For 34.00 mm outer dia	a x 32 mm nominal dia threaded	each	595.40
18.95.11 For 42.70 mm outer dia	a x 15 mm nominal dia threaded	each	936.55
18.95.12 For 42.70 mm outer dia	a x 20 mm nominal dia threaded	each	936.55
18.95.13 For 42.70 mm outer dia	a x 25 mm nominal dia threaded	each	936.55
18.95.14 For 42.70 mm outer dia	a x 32 mm nominal dia threaded	each	936.55
18.95.15 For 42.70 mm outer dia	a x 40 mm nominal dia threaded	each	936.55
18.95.16 For 48.60 mm outer dia	a x 15 mm nominal dia threaded	each	1210.85
18.95.17 For 48.60 mm outer dia	a x 20 mm nominal dia threaded	each	1210.85
18.95.18 For 48.60 mm outer dia	a x 25 mm nominal dia threaded	each	1210.85
18.95.19 For 48.60 mm outer dia	a x 32 mm nominal dia threaded	each	1210.85
18.95.20 For 48.60 mm outer dia	a x 40 mm nominal dia threaded	each	1210.85
18.95.21 For 48.60 mm outer dia	a x 50 mm nominal dia threaded	each	1210.85

Code No.		Description	Unit	Rate ₹
18.95A	of grade 3 standards	and fixing required Stainless Steel Fitting of press fit design 16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM required dia as per direction of Engineer-in-charge.		
	Female TI	hread Tee		
	18.95A.1	For 15 mm outer dia x 1/2" nominal dia threaded	each	749.25
	18.95A.2	For 22mm outer dia x 1/2" nominal dia threaded	each	822.85
	18.95A.3	For 22mm outer dia x 3/4" nominal dia threaded	each	923.20
	18.95A.4	For 28 mm outer dia x 1/2" nominal dia threaded	each	976.70
	18.95A.5	For 28 mm outer dia x 3/4" nominal dia threaded	each	1010.15
	18.95A.6	For 28 mm outer dia x 1" nominal dia threaded	each	1123.85
	18.95A.7	For 35 mm outer dia x 1/2" nominal dia threaded	each	1130.55
	18.95A.8	For 35 mm outer dia x 1-1/4" nominal dia threaded	each	1550.65
	18.95A.9	For 42 mm outer dia x 1-1/4" nominal dia threaded	each	1800.85
	18.95A.10	For 54 mm outer dia x 1-1/2" nominal dia threaded	each	2568.85
	18.95A.11	For 54 mm outer dia x 2" nominal dia threaded	each	3086.60
18.96	of grade All or M-profile	and fixing required Stainless Steel Fitting of press fit design SI 304 conforming to JWWA G116 standard with V-profile e and with O-ring sealing gasket of EPDM material of a as per direction 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	260.90
	18.96.2	For 22.22 mm outer dia x 15 mmnominal dia threaded	each	307.75
	18.96.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	321.10
	18.96.4	For 28.58 mm outer dia x 15 mm nominal dia threaded	each	370.60
	18.96.5	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	388.00
	18.96.6	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	474.95
	18.96.7	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	548.55
	18.96.8	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	722.50
	18.96.9	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	796.05
	18.96.10	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	929.85
	18.96.11	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	1130.55
	18.96.12	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1304.50
18.96A	of grade 3 standards	and fixing required Stainless Steel Fitting of press fit design 16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM required dia as per direction of Engineer-in-charge.		
	Female Th	nread Connector/ Adapter		
	18.96A.1	For 15 mm outer dia x 1/2" mm nominal dia threaded	each	588.70

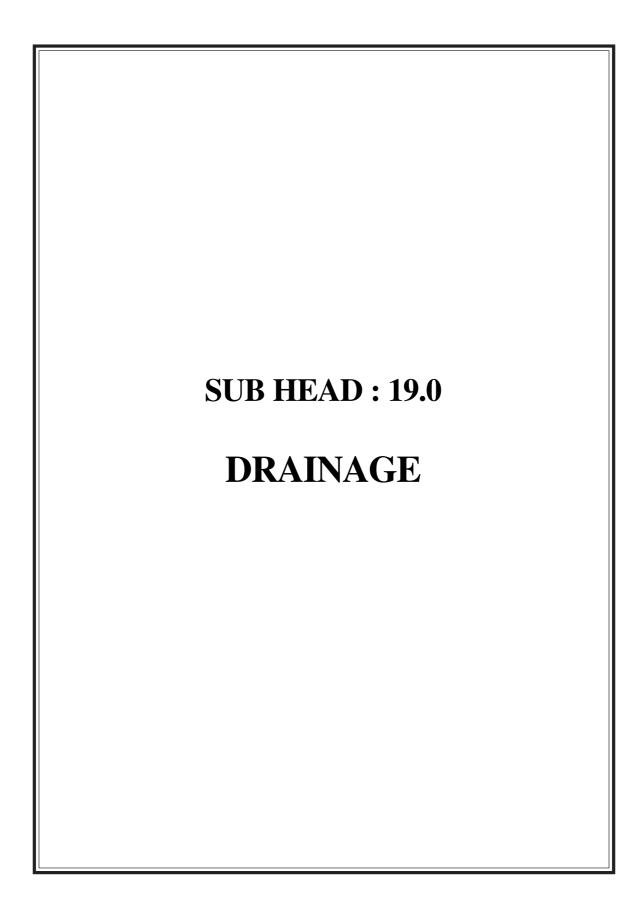
Code No.		Description	Unit	Rate ₹
	18.96A.2	For 22 mm outer dia x 1/2" mm nominal dia threaded	each	662.30
	18.96A.3	For 22 mm outer dia x 3/4" mm nominal dia threaded	each	776.00
	18.96A.4	For 28 mm outer dia X 1" nominal dia threaded	each	1277.75
	18.96A.5	For 35 mm outer dia X 1-1/4" nominal dia threaded	each	1364.70
	18.96A.6	For 42 mm outer dia X 1-1/2" nominal dia threaded	each	2093.85
	18.96A.7	For 54 mm outer dia X 2" nominal dia threaded	each	3211.05
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 direction of Engineer-in-charge.		
	Male Thre	ead Connector/ Adapter		
	18.97.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	260.90
	18.97.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	307.75
	18.97.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	341.15
	18.97.4	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	434.85
	18.97.5	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	434.85
	18.97.6	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	635.50
	18.97.7	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	755.95
	18.97.8	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	868.30
	18.97.9	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	976.70
	18.97.10	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	1137.25
	18.97.11	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1525.25
18.97A	of grade 3 standard	and fixing required Stainless Steel Fitting of press fit design 816L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM frequired dia as per direction of Engineer-in-charge.		
	Male Thre	ead Connector/ Adapter		
	18.97A.1	For 15 mm outer dia X $1/2$ " nominal dia threaded	each	541.85
	18.97A.2	For 22 mm outer dia X 1/2" nominal dia threaded	each	642.20
	18.97A.3	For 22 mm outer dia X 3/4" nominal dia threaded	each	675.65
	18.97A.4	For 28 mm outer dia X 1" nominal dia threaded	each	889.75
	18.97A.5	For 35 mm outer dia X 1-1/4" nominal dia threaded	each	1297.80
	18.97A.6	For 42 mm outer dia X 1-1/2"nominal dia threaded	each	1893.20
	18.97A.7	For 54 mm outer dia X 2" nominal dia threaded	each	2535.40
18.98	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 direction of Engineer-in-charge.		

Code No.		Description	Unit	Rate ₹
	Valve Cor	nnector		
	18.98.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	314.40
	18.98.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	374.60
	18.98.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	414.75
	18.98.4	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	568.60
	18.98.5	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	862.95
	18.98.6	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	1177.40
	18.98.7	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1618.90
18.99	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 direction of Engineer-in-charge.		
	Female Th	nreaded Elbow 90°		
	18.99.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	214.05
	18.99.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	287.65
	18.99.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	287.65
	18.99.4	For 25.58 mm outer dia x 25 mm nominal dia threaded	each	287.65
	18.99.5	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	394.70
	18.99.6	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	642.20
	18.99.7	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	642.20
	18.99.8	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	949.95
	18.99.9	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	949.95
18.99A	of grade 3 standard	and fixing required Stainless Steel Fitting of press fit design B16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM frequired dia as per direction of Engineer-in-charge.		
	Female T	hreaded Elbow 90°		
	18.99A.1	For 15 mm outer dia X 1/2" nominal dia threaded	each	856.30
	18.99A.2	For 22 mm outer dia X 3/4" nominal dia threaded	each	1150.65
	18.99A.3	For 28mm outer dia X 1" nominal dia threaded	each	1578.75
	18.99A.4	For 35mm outer dia X 1-1/4" nominal dia threaded	each	2564.85
	18.99A.5	For 42mm outer dia X 1-1/2" nominal dia threaded	each	2793.60
	18.99A.6	For 54mm outer dia X 2" nominal dia threaded	each	4317.50
18.100	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 Ie and with O-ring sealing gasket of EPDM material of ia as per direction of Engineer-in-charge.		
	Male Thre	eaded Elbow 90°		
	18.100.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	260.90

Code No.		Description	Unit	Rate ₹
	18.100.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	301.05
	18.100.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	301.05
	18.100.4	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	301.05
	18.100.5	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	388.00
	18.100.6	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	388.00
	18.100.7	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	642.20
	18.100.8	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	642.20
	18.100.9	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	929.85
	18.100.10	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	929.85
18.100.A	of grade 3 standard v	and fixing required Stainless Steel Fitting of press fit design 16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM required dia as per direction of Engineer-in-charge.		
	Male Thre	aded Elbow 90°		
	18.100A.1	For 15mm outer dia X 1/2" nominal dia threaded	each	702.40
	18.100A.2	For 22mm outer dia X 3/4" nominal dia threaded	each	1056.95
	18.100A.3	For 28mm outer dia X 1" nominal dia threaded	each	1398.15
	18.100A.4	For 35mm outer dia X 1-1/4" nominal dia threaded	each	1926.65
	18.100A.5	For 42mm outer dia X 1-1/2" nominal dia threaded	each	3525.45
	18.100A.6	For 54mm outer dia X 2" mm nominal dia threaded	each	4011.15
18.101	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 e and with O-ring sealing gasket of EPDM material of a as per direction of Engineer-in-charge.		
	Сар			
	18.101.1	For 15.88 mm outer dia pipe	each	64.20
	18.101.2	For 22.22 mm outer dia pipe	each	93.65
	18.101.3	For 28.58 mm outer dia pipe	each	120.40
	18.101.4	For 34.00 mm outer dia pipe	each	234.15
	18.101.5	For 42.70 mm outer dia pipe	each	334.50
	18.101.6	For 48.60 mm outer dia pipe	each	434.85
18.101A	of grade 3 standard v	and fixing required Stainless Steel Fitting of press fit design 16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM required dia as per direction of Engineer-in-charge.		
	Сар			
	18.101A.1	For 15 mm outer dia pipe	each	428.15
	18.101A.2	For 22 mm outer dia pipe	each	555.25

Code No.		Description	Unit	Rate ₹
	18.101A.3	For 28 mm outer dia pipe	each	689.05
	18.101A.4	For 35 mm outer dia pipe	each	963.30
	18.101A.5	For 42 mm outer dia pipe	each	2093.85
	18.101A.6	For 54 mm outer dia pipe	each	2301.25
18.102	of grade Alsor M-profile	and fixing required Stainless Steel Fitting of press fit design SI 304 conforming to JWWA G116 standard with V-profile e and with O-ring sealing gasket of EPDM material of a as per direction of Engineer-in-charge.		
	Pipe Bride	ge		
	18.102.1	For 15.88 mm outer dia pipe	each	294.35
	18.102.2	For 22.22 mm outer dia pipe	each	388.00
	18.102.3	For 28.58 mm outer dia pipe	each	555.25
18.102A	of grade 3 standard w	and fixing required Stainless Steel Fitting of press fit design 16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM required dia as per direction of Engineer-in-charge.		
	Pipe Brido	ge		
	18.102A.1	For 15 mm outer dia pipe	each	555.25
	18.102A.2	For 22 mm outer dia pipe	each	1485.10
	18.102A.3	For 28 mm outer dia pipe	each	2041.70
18.103	of grade 3 standard w	and fixing required Stainless Steel Fitting of press fit design 16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM required dia as per direction of Engineer-in-charge.		
	Male Unio	on .		
	18.103.1	For 15mm outer dia X 1/2" nominal dia threaded	each	1184.05
	18.103.2	For 22mm outer dia X 1/2" nominal dia threaded	each	1197.45
	18.103.3	For 22mm outer dia X 3/4" nominal dia threaded	each	1371.40
	18.103.4	For 28mm outer dia X 1" nominal dia threaded	each	2415.00
	18.103.5	For 35mm outer dia X 1-1/4" nominal dia threaded	each	2522.00
	18.103.6	For 42mm outer dia X 1-1/2" nominal dia threaded	each	2849.80
	18.103.7	For 54mm outer dia X 2" nominal dia threaded	each	4923.60
18.104	of grade 3 standard w	and fixing required Stainless Steel Fitting of press fit design 16L as per IS 6911:2017 and conforming to EN-10312 with V-profile and with O-ring sealing gasket of EPDM required dia as per direction of Engineer-in-charge.		
	Female U	nion		
	18.104.1	For 22 mm outer dia X 3/4" nominal dia threaded	each	1271.05
	18.104.2	For 28mm outer dia X 1" nominal dia threaded	each	1712.55

Code No.		Description	Unit	Rate ₹
18.105	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.			
	Female T	ransition Elbow / FTE		
	18.105.1	For 15mm outer dia X 1/2" nominal dia threaded	each	868.30
	18.105.2	For 22mm outer dia X 1/2" nominal dia threaded	each	1204.15
	18.105.3	For 22mm outer dia X 3/4" nominal dia threaded	each	1164.00



BASIC RATES (SH: 19.0 DRAINAGE)

Code No.	Description	Unit	Rate ₹
0101	Bhisti	day	714.00
0103	Blacksmith 2nd class	day	714.00
0114	Beldar	day	645.00
0115	Coolie	day	645.00
0123	Mason (brick layer) 1st class	day	784.00
0124	Mason (brick layer) 2nd class	day	714.00
0285	Brick Aggregate (Single size) : 63 mm nominal size	cum	650.00
0287	Brick Aggregate (Single size): 40 mm nominal size	cum	650.00
0362	Brick bats	cum	450.00
0367	Portland Cement (OPC-43 Grade)	tonne	5000.00
0983	Fine sand (zone IV)	cum	900.00
1003	Mild steel round bar above 12 mm dia	quintal	4750.00
1006	Mild steel square bars	quintal	4850.00
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	480.00
1353	C.I. cover without frame 300x300 mm inside weight not less than 4.50 kg	each	477.00
1354	C.I. Rectangular cover 455x610 mm with frame (low duty)	each	1400.00
1355	C.I. Rectangular cover 455x610 mm without frame (low duty)	each	910.00
1356	C.I. 500 mm dia cover with frame (medium duty)	each	4400.00
1357	C.I. 500 mm dia cover without frame (medium duty)	each	2300.00
1364	C.I. grating 100x100 mm	each	40.00
1366	C.I. grating 150x150 mm	each	55.00
1367	C.I. grating 180x180 mm	each	65.00
1617	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long:100 mm dia	each	1135.00
1618	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long:150 mm dia	each	1750.00
1621	S.C.I. plain bend 100 mm dia	each	280.00
1622	S.C.I. plain bend 150 mm dia	each	475.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	405.00
1700	R.C.C. pipes NP2 class 100 mm dia	metre	210.00
1701	R.C.C. pipes NP2 class 150 mm dia	metre	220.00
1702	R.C.C. pipes NP2 class 250 mm dia	metre	365.00
1703	R.C.C. pipes NP2 class 300 mm dia	metre	450.00
1704	R.C.C. pipes NP2 class 450 mm dia	metre	775.00

Code No.	Description	Unit	Rate ₹
1705	R.C.C. pipes NP2 class 500 mm dia	metre	950.00
1706	R.C.C. pipes NP2 class 600 mm dia	metre	1150.00
1707	R.C.C. pipes NP2 class 700 mm dia	metre	1500.00
1709	R.C.C. pipes NP2 class 800 mm dia	metre	1825.00
1710	R.C.C. pipes NP2 class 900 mm dia	metre	2550.00
1711	R.C.C. pipes NP2 class 1000 mm dia	metre	2950.00
1712	R.C.C. pipes NP2 class 1100 mm dia	metre	3250.00
1713	R.C.C. pipes NP2 class 1200 mm dia	metre	3575.00
1714	R.C.C. collars NP2 class 100 mm dia	each	35.00
1715	R.C.C. collars NP2 class 150 mm dia	each	37.00
1716	R.C.C. collars NP2 class 250 mm dia	each	55.00
1717	R.C.C. collars NP2 class 300 mm dia	each	56.00
1718	R.C.C. collars NP2 class 450 mm dia	each	110.00
1719	R.C.C. collars NP2 class 500 mm dia	each	120.00
1720	R.C.C. collars NP2 class 600 mm dia	each	145.00
1721	R.C.C. collars NP2 class 700 mm dia	each	160.00
1723	R.C.C. collars NP2 class 800 mm dia	each	225.00
1724	R.C.C. collars NP2 class 900 mm dia	each	240.00
1725	R.C.C. collars NP2 class 1000 mm dia	each	295.00
1726	R.C.C. collars NP2 class 1100 mm dia	each	315.00
1727	R.C.C. collars NP2 class 1200 mm dia	each	375.00
1728	RCC pipe 450 mm dia NP-3 spigot	metre	1500.00
1729	RCC pipe 600 mm dia NP-3 spigot	metre	2000.00
1730	RCC pipe 900 mm dia NP-3 spigot	metre	3175.00
1731	RCC pipe 1000 mm dia NP-3 spigot	metre	3915.00
1732	RCC pipe 1200 mm dia NP-3 spigot	metre	5200.00
1733	RCC pipe 1800 mm dia NP-3 spigot	metre	9450.00
1734	RCC pipe 450 mm dia NP-4 spigot	metre	1750.00
1735	RCC pipe 600 mm dia NP-4 spigot	metre	2350.00
1736	RCC pipe 900 mm dia NP-4 spigot	metre	4500.00
1737	RCC pipe 1000 mm dia NP-4 spigot	metre	5570.00
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	70.00
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	125.00
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	200.00
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	350.00

Code No.	Description	Unit	Rate ₹
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	525.00
1881	Spun yarn	kg	55.00
1900	S.W. gully trap P type 100x100 mm	each	115.00
1902	S.W. gully trap P type 150x100 mm	each	155.00
1904	S.W. gully trap P type 180x150 mm	each	230.00
2201	Carriage of Bricks	1000 Nos	437.15
2209	Carriage of Cement	tonne	145.72
2224	Carriage of S.W. pipes 100 mm dia	100 metre	218.58
2225	Carriage of S.W. pipes 150 mm dia	100 metre	437.15
2226	Carriage of S.W. pipes 200 mm dia	100 metre	728.59
2228	Carriage of S.W. pipes 250 mm dia	100 metre	1249.01
2229	Carriage of S.W. pipes 300 mm dia	100 metre	1561.26
2260	Carriage of Brick aggregate	cum	178.19
2261	Carriage of Fine sand (1 part of badarpur sand: 2 parts jamuna sand)	cum	163.93
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	145.72
2275	Carriage of R.C.C. pipes 100 mm dia	100 metre	358.32
2281	Carriage of R.C.C. pipes 150 mm dia	100 metre	597.20
2287	Carriage of R.C.C. pipes 250 mm dia	100 metre	1380.48
2290	Carriage of R.C.C. pipes 300 mm dia	100 metre	1706.30
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	3981.36
2303	Carriage of R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	5972.04
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	8958.06
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	11944.08
2333	Carriage of R.C.C. pipes 1100 mm dia	100 metre	11944.08
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	11944.08
2336	Carriage of R.C.C. pipe above 1200 mm dia and upto 1800 mm dia	100 metre	11944.08
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	4590.00
3860	560 mm dia cover with frame (Heavy duty)	each	9100.00
3861	560 mm dia cover without frame (Heavy duty)	each	5100.00
7087	S.C.I. Tee 150 mm	each	570.00
7128	S.W. intercepting trap 100 mm dia	each	185.00
7129	S.W. intercepting trap 150 mm dia	each	240.00
7130	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D 2.5	each	675.00
7131	Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D 2.5	each	575.00

Code No.	Description	Unit	Rate ₹
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D 2.5	each	575.00
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D 10	each	670.00
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame- M.D10	each	575.00
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D 20	each	880.00
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D 35	each	1170.00
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	110.00
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	620.00
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	235.00
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	620.00
9977	Carriage	L.S.	2.12
9988	Carriage and sundries	L.S.	2.12
9999	Sundries	L.S.	2.12

19.0 DRAINAGE

Code No.			Description	Unit	Rate ₹
	are app	- The rates licable to w llowance h			
	STONE	WARE PIF	PES AND FITTINGS		
19.1	with stiff	mixture of	and jointing glazed stoneware pipes class SP-1 cement mortar in the proportion of 1:1 (1 cement ding testing of joints etc. complete:		
	19.1.1	100 mm c	liameter	metre	375.75
	19.1.2	150 mm c	liameter	metre	591.40
	19.1.3	200 mm c	liameter	metre	830.40
	19.1.4	250 mm c	liameter	metre	1293.90
	19.1.5	300 mm c	liameter	metre	1774.50
19.2	sand : 1	0 graded s	ng cement concrete 1:5:10 (1 cement : 5 coarse stone aggregate 40 mm nominal size) all-round ng bed concrete as per standard design :		
	19.2.1	100 mm c	diameter S.W. pipe	metre	895.50
	19.2.2	150 mm c	diameter S.W. pipe	metre	1095.15
	19.2.3	200 mm c	diameter S.W. pipe	metre	1276.70
	19.2.4	250 mm c	diameter S.W. pipe	metre	1476.35
19.3	sand:	10 graded es of S.W.	ng cement concrete 1:5:10 (1 cement : 5 coarse stone aggregate 40 mm nominal size) up to pipes including bed concrete as per standard		
	19.3.1	100 mm c	diameter S.W. pipe	metre	425.60
	19.3.2	150 mm c	diameter S.W. pipe	metre	689.75
	19.3.3	200 mm c	diameter S.W. pipe	metre	810.80
	19.3.4	250 mm c	diameter S.W. pipe	metre	943.90
	19.3.5	300 mm c	diameter S.W. pipe	metre	1089.10
19.4	complete C.I. cov	te with C.I. er with fran	ng square-mouth S.W. gully trap class SP-1 grating brick masonry chamber with water tight me of 300 x300 mm size (inside) the weight of s than 4.50 kg and frame to be not less than 2.70 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	2453.55
		19.4.1.2	With Sewer bricks conforming to IS: 4885	each	2407.65

Code No.			Description	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	2474.40
		19.4.2.2	With sewer bricks conforming to IS: 4885	each	2428.45
	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	2534.00
		19.4.3.2	With Sewer bricks conforming to IS: 4885	each	2488.10
19.5	concrete	e stacking	S.W. pipes including breaking of joints and bed of useful materials near the site within 50 m lead serviceable materials into municipal dumps :		
	19.5.1	100 mm c	liameter	metre	73.35
	19.5.2	150 mm c	liameter	metre	81.10
	19.5.3	200 mm c	liameter	metre	86.30
	19.5.4	250 mm c	liameter	metre	91.45
	19.5.5	300 mm c	liameter	metre	96.65
	19.5.6	350 mm c	liameter	metre	111.30
	19.5.7	400 mm c	liameter	metre	121.70
	19.5.8	450 mm c	liameter	metre	126.85
19.6	pipes w	ith collars j on of 1:2 (1	ng non-pressure NP2 class (light duty) R.C.C. ointed with stiff mixture of cement mortar in the cement : 2 fine sand) including testing of joints		
	19.6.1	100 mm c	dia. R.C.C. pipe	metre	447.25
	19.6.2	150 mm c	dia. R.C.C. pipe	metre	493.10
	19.6.3	250 mm (dia. R.C.C. pipe	metre	811.15
	19.6.4	300 mm (dia. R.C.C. pipe	metre	902.05
	19.6.5	450 mm (dia. R.C.C. pipe	metre	1481.55
	19.6.6	500 mm (dia. R.C.C. pipe	metre	1745.20
	19.6.7	600 mm (dia. R.C.C. pipe	metre	2098.10
	19.6.8	700 mm (dia. R.C.C. pipe	metre	2629.35
	19.6.9	800 mm c	dia. R.C.C. pipe	metre	3144.45
	19.6.10	900 mm d	dia. R.C.C. pipe	metre	4260.35
	19.6.11	1000 mm	dia. R.C.C. pipe	metre	5007.00
	19.6.12	1100 mm	dia. R.C.C. pipe	metre	5625.95
	19.6.13	1200 mm	dia. R.C.C. pipe	metre	6334.40

Code No.			Description	Unit	Rate ₹
19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement: 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement: 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand (zone-III): 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	with fram total weig	e 90x80 cm and 45 cm deep including C.I. cover e (light duty) 455x610 mm internal dimensions, tht of cover and frame to be not less than 38 kg f 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	11687.10
		19.7.1.2	With Sewer bricks conforming to IS: 4885	each	11567.00
	19.7.2	with frame weight of	e 120x90 cm and 90 cm deep including C.I. cover e (medium duty) 500 mm internal diameter, total cover and frame to be not less than 116 kg (weight 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	24405.90
		19.7.2.2	With Sewer bricks conforming to IS: 4885	each	24077.30
	19.7.3	with fram weight of	e 120x90 cm and 90 cm deep including C.I. cover e (heavy duty) 560 mm internal diameter, total cover and frame to be not less than 208 kg (weight 08 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	30197.95
		19.7.3.2	With Sewer bricks conforming to IS: 4885	each	29915.30
19.8	Extra fo	r depth for	manholes:		
	19.8.1	Size 90	x80 cm		
		19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	8127.45
		19.8.1.2	With Sewer bricks conforming to IS: 4885	metre	7777.70
	19.8.2	Size 120	k90 cm		
		19.8.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	9744.25
		19.8.2.2	With Sewer bricks conforming to IS: 4885	metre	9327.40

Code No.	Description	Unit	Rate ₹
19.9	Constructing brick masonry circular type manhole dia at bottom and 0.56m dia at top in cement morta: 4 coarse sand), inside cement plaster 12 mm th mortar 1:3 (1 cement: 3 coarse sand) finished with of neat cement, foundation concrete 1:3:6 mix (1 ce sand: 6 graded stone aggregate 40 mm nominal sin necessary channel in cement concrete 1:2:4 (1 ce sand: 4 graded stone aggregate 20 mm nominal with a floating coat of neat cement, all complete a design:	ar 1:4 (1 cement ick with cement h a floating coat ement : 3 coarse ze), and making ement : 2 coarse al size) finished	
	19.9.1 0.91 m deep with S.F.R.C. cover and frai HD-20 grade designation) 560 mm internations forming to I.S. 12592, total weight of cover not less than 182 kg., fixed in cement concernent: 2 coarse sand: 4 graded stone and nominal size) including centering, shuttering (Excavation, foot rests and 12mm thick controls the external surface shall be paid for separations.	al diameter con- and frame to be concrete 1:2:4 (1 ggregate 20 mm ing all complete. ement plaster at	
	19.9.1.1 With common burnt clay F.P.S bricks of class designation 7.5	,	11886.45
	19.9.1.2 With Sewer bricks conforming		11666.90
19.10	Extra depth for circular type manhole 0.91m internated beyond 0.91 m to 1.67 m	al dia (at bottom)	
	19.10.1 With common burnt clay F.P.S. (non mod class designation 7.5	ular) bricks of metre	6986.80
	19.10.2 With Sewer bricks conforming IS: 4885	metre	6693.95
19.11	Constructing brick masonry circular manhole 1.22 bottom and 0.56 m dia at top in cement mortar 1 coarse sand) inside cement plaster 12 mm thick with 1:3 (1 cement : 3 coarse sand) finished with a float cement foundation concrete 1:3:6 (1 cement : 3 coarsed stone aggregate 40 mm nominal size) and m channel in cement concrete 1:2:4 (1 cement : 2 coarsed stone aggregate 20 mm nominal size) finished coat of neat cement, all complete as per standard	:4 (1 cement :4 h cement mortar ting coat of neat coarse sand : 6 aking necessary coarse sand : 4 ed with a floating	
	19.11.1 1.68 m deep with SFRC Cover and frame 20 grade designation) 560 mm internal dia ing to I.S. 12592, total weight of cover and less than 182 kg. fixed in cement concrement: 2 coarse sand: 4 graded stone agnominal size) including centering, shutteri (Excavation, foot rests and 12 mm thick of the external surface shall be paid for separations.	ameter conform- If frame to be not ete 1:2:4 (1 ce- ggregate 20 mm ing all complete. ement plaster at	
	19.11.1.1 With common burnt clay F.P.S bricks of class designation 7.5	,	22951.95
	19.11.1.2 With Sewer bricks conforming	g IS: 4885 each	22463.90

Code No.	Description	Unit	Rate ₹
19.12	Extra depth for circular type manhole 1.22 m internal dia (at bottom) beyond 1.68 m to 2.29 m :		
	19.12.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	9068.35
	19.12.2 With Sewer bricks conforming IS: 4885	metre	8686.10
19.13	Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel 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, 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	49193.00
	19.13.1.2 With Sewer bricks conforming IS: 4885	each	47828.25
19.14	Extra depth for circular type manhole 1.52 m internal dia (at bottom) beyond 2.30 m :		
	19.14.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	21103.40
	19.14.2 With Sewer bricks conforming IS: 4885	metre	20114.90
19.15	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :		
	19.15.1 With 20x20 mm square bar	each	461.35
	19.15.2 With 20 mm diameter round bar	each	420.00
19.16	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS: 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with 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		

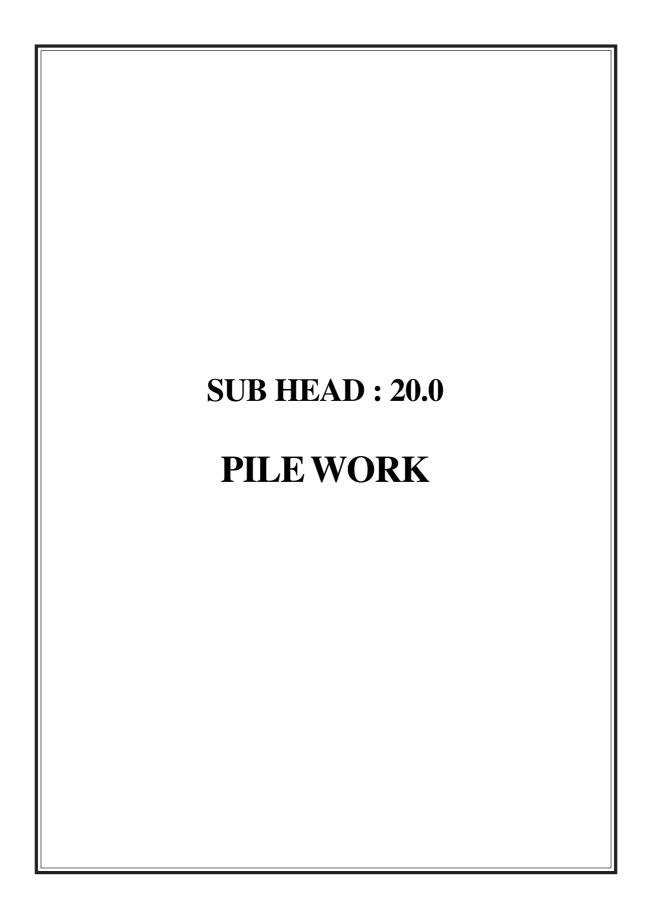
Code No.	Description		Unit	Rate ₹	
	fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.			each	487.10
19.17	concrete	blocks and cement : 3	S. foot rests in manholes including dismantling lfixing with 20x20x10 cm cement concrete blocks coarse sand: 6 graded stone aggregate 20 mm		
	19.17.1	With 20x2	0 mm square bar	each	564.60
	19.17.2	With 20 m	m diameter round bar	each	523.25
19.18	Supplyir	ng and fixin	g C.I. cover without frame for manholes :		
	19.18.1		mm rectangular C.I. cover (light duty) the weight er to be not less than 23 kg	each	1341.35
	19.18.2		iameter C.I. cover (medium duty) the weight of to be not less than 58 kg	each	3219.00
	19.18.3		iameter C.I. cover (heavy duty) the weight of the e not less than 108 kg	each	6972.75
19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
	19.19.1	L D- 2.5			
		19.19.1.1	Rectangular shape 600x450 mm internal dimensions	each	1255.25
		19.19.1.2	Square shape 450 mm internal dimensions	each	1047.80
		19.19.1.3	Circular shape 450 mm internal diameter	each	1047.80
	19.19.2	M D - 10			
		19.19.2.1	Square shape 450 mm internal dimension	each	1257.40
		19.19.2.2	Circular shape 500 mm internal diameter	each	1056.65
	19.19.3	H D - 20			
		19.19.3.1	Circular shape 560 mm internal diameter	each	1494.20
	19.19.4	EHD - 35			
		19.19.4.1	Circular shape 560 mm internal dia	each	1882.20
19.20			g C.I. cover 300x300 mm without frame for gully ern) the weight of cover to be not less than 4.5 kg	each	671.75
19.21	including concrete aggrega with cen floating	g breaking ir e 1:2:4 mix ite 20 mm nent mortar	n of drain or sewer line with existing manhole into and making good the walls, floors with cement is (1 cement : 2 coarse sand : 4 graded stone nominal size) cement plastered on both sides in 1:3 (1 cement : 3 coarse sand), finished with a last cement and making necessary channels for olete :		
	19.21.1	For pipes	100 to 250 mm diameter	each	683.70
	19.21.2	For pipes	250 to 300 mm diameter	each	785.90
	19.21.3	For pipes	350 to 450 mm diameter	each	1134.65

Code No.		Description	Unit	Rate ₹
19.22	from bra and clea bend en 5 fine sa all cente making coarse coarse betweer (1 ceme S.W. pip	ing sand cast iron drop connection externally for 60 cm drop anch sewer line to main sewer manhole including inspection aning eye with chain and lid, sand cast iron drop pipe and cased all-round with cement concrete 1:5:10 (1 cement: and: 10 graded stone aggregate 40 mm nominal size) with ering and shuttering required, cutting holes in walls and good with brick work in cement mortar 1:4 (1 cement: 4 sand) plastered with cement mortar 1:3 (1 cement: 3 sand) on inside of the manhole wall, lead caulked joints in sand cast iron pipes and fittings, stiff cement mortar 1:1 ent: 1 fine sand) joints between sand cast iron tee and one, making required channels complete as per standard and specifications:		
	19.22.1	100 mm dia sand cast iron drop connection	each	10137.65
	19.22.2	150 mm dia sand cast iron drop connection	each	13789.75
19.23	Extra fo	r depths beyond 60 cm of sand cast iron drop connection e:		
	19.23.1	For 100 mm dia sand cast iron drop connection	metre	2792.70
	19.23.2	For 150 mm dia sand cast iron drop connection	metre	3608.00
19.24	frame, i disposal	tling of manhole including R.C.C. top slab, C.I. cover with ncluding stacking of useful materials near the site and of unserviceable materials within 50 m lead as per direction eer-in-charge:		
	19.24.1	Rectangular manhole 90x80 cm and 45 cm deep	each	2096.10
	19.24.2	Rectangular manhole 120x90 cm and 90 cm deep	each	3691.10
	19.24.3	Rectangular arch type manhole 140x90 cm and 2.45 m deep	each	6982.55
	19.24.4	Circular manhole 122 cm diameter and 1.68 m deep	each	5338.95
19.25	Extra for	r depth of manholes dismantled :		
	19.25.1	Rectangular manhole 90x80 cm and beyond 45 cm depth	metre	1686.65
	19.25.2	Rectangular manhole 120x90 cm and beyond 90 cm depth	metre	2009.35
	19.25.3	Rectangular arch type manhole 140x90 cm and beyond 2.45 m depth (up to 4.25 m depth)	metre	1628.95
	19.25.4	Circular manhole 122 cm diameter and beyond 1.68 m depth (up to 2.29 m depth)	metre	1837.85
19.26	dismant	manhole cover and frame slab to required level including ling existing slab and making good the damage as required g depth of manhole to be paid separately):		
	19.26.1	Rectangular manhole $90x80$ cm with rectangular cover 600×450 mm of grade LD - 2.5	each	2723.65

Code No.			Description	Unit	Rate ₹
	19.26.2	_	lar manhole 120x90 cm with circular cover ia of grade MD - 10	each	4290.35
	19.26.3	0	lar manhole 120x90 cm with circular cover ia of grade HD - 20	each	3989.40
	19.26.4		anhole 140 cm dia with circular cover ia of grade EHD - 35	each	326.45
19.27	bricks ir 500x450	n cement m	masonry road gully chamber 50x45x60 cm with ortar 1:4 (1 cement : 4 coarse sand) including ast R.C.C. horizontal grating with frame complete sign :		
	19.27.1		mon burnt clay F.P.S. (non modular) bricks of gnation 7.5	each	5589.45
19.28	with brid	cks in ceme	masonry road gully chamber 45x45x77.5 cm ent mortar 1:4 (1 cement : 4 coarse sand) with cical grating complete as per standard design :		
	19.28.1		mon burnt clay F.P.S. (non modular) bricks of gnation 7.5	each	6258.20
19.29	with bric 500x450	ks in cemer) mm precas	masonry road gully chamber 110x50x77.5 cm at mortar 1:4 (1 cement : 4 coarse sand) including st R.C.C. horizontal grating with frame and vertical sper standard design :		
	19.29.1		mon burnt clay F.P.S. (non modular) bricks of gnation 7.5	each	10596.95
19.30	chambe coarse s dimensi kg (weig slab wit aggrega cement size), ins	er and bender sand) C.I. co ons, total w ght of cover th 1:1.5:3 m ate 20 mm : 5 fine san side plasteri se sand), fin	nasonry chamber for underground C.I. inspection is with bricks in cement mortar 1:4 (1 cement: 4 over with frame (light duty) 455x610 mm internal reight of cover with frame to be not less than 38 of 23 kg and weight of frame 15 kg), R.C.C. top nix (1 cement: 1.5 fine sand: 3 graded stone nominal size), foundation concrete 1:5:10 (1 d: 10 graded stone aggregate 40 mm nominal ling 12 mm thick with cement mortar 1:3 (1 cement ished smooth with a floating coat of neat cement concrete etc. complete as per standard design:		
	19.30.1	Inside dim pipe line :	ensions 455x610 mm and 45 cm deep for single		
		19.30.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	6431.30
	19.30.2		nensions 500x700 mm and 45 cm deep for pipe or two inlets :		
		19.30.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	7308.15

Code No.	Description		Unit	Rate ₹
	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	8613.20
19.31	Extra fo	r depth 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	5640.75
	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	6158.05
	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	7177.15
19.32	brick ho	soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry ney comb shaft with bricks and S.W. drain pipe 100 mm r, 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	28029.15
19.33	S.W. dra	cting soak pit 1.20x1.20x1.20 m filled with brickbats including ain pipe 100 mm diameter and 1.20 m long complete as per d design.	each	2940.20
19.34	mixture	ng and fixing S.W. intercepting trap in manholes with stiff of cement mortar 1:1 (1 cement : 1 fine sand) including of joints etc. complete :		
	19.34.1	100 mm dia	each	378.45
	19.34.2	150 mm dia	each	513.15
19.35	pipes in mortar i	g and laying Non Pressure NP-3 class (Medium duty) R.C.C. cluding collars/spigot jointed with stiff mixture of cement in the proportion of 1:2 (1 cement : 2 fine sand) including of joints etc. complete		
	19.35.1	450 mm dia RCC pipes.	metre	2385.50
	19.35.2	600 mm dia RCC pipes.	metre	3051.55
	19.35.3	900 mm dia RCC pipes.	metre	4821.65
	19.35.4	1000 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	5980.10
	19.35.5	1200 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	8118.55
	19.35.6	1800 mm dia RCC pipes. (Laying by manual/ machenical means)	metre	14292.75

Code No.		Description	Unit	Rate ₹
19.36	pipes in mortar i	ng and laying Non Pressure NP-4 class (Heavy duty) R.C.C. cluding collars/spigot jointed with stiff mixture of cement in the proportion of 1:2 (1 cement : 2 fine sand) including of joints etc. complete		
	19.36.1	450 mm dia RCC pipes.	metre	2720.00
	19.36.2	600 mm dia RCC pipes.	metre	3519.85
	19.36.3	900 mm dia RCC pipes.	metre	6594.40
	19.36.4	1000 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	8194.40
	19.36.5	1200 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	9871.25
	19.36.6	1800 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	19912.10



BASIC RATES (SH: 20.0 PILE WORK)

Code No.	Description	Unit	Rate ₹
0015	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories	day	3000.00
0017	Hire and running charges of tipper	day	3750.00
0018	Hire and running charges of loader	day	6000.00
0024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site	day	35000.00
0025	Hire and running charges of light crane	day	3500.00
0026	Hire and running charges of bentonite pump	day	3000.00
0027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories	day	30000.00
0028	Hire and running charges of crane 20 tonne capacity	day	7000.00
0800	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	645.00
0130	Mistry	day	784.00
0160	Technician	day	853.00
0161	Helper (Technician)	day	645.00
7181	C.I. pile shoe	kg	48.00
7182	M.S. clamps for pile shoe of 35 kg per pile	kg	43.00
7183	Bentonite of 35 kg per pile	tonne	2800.00
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	38500.00
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	43000.00
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	49500.00

Code No.	Description	Unit	Rate ₹
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	13800.00
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	22800.00
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	28500.00
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	13800.00
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	23100.00
9977	Carriage	L.S.	2.12
9999	Sundries	L.S.	2.12

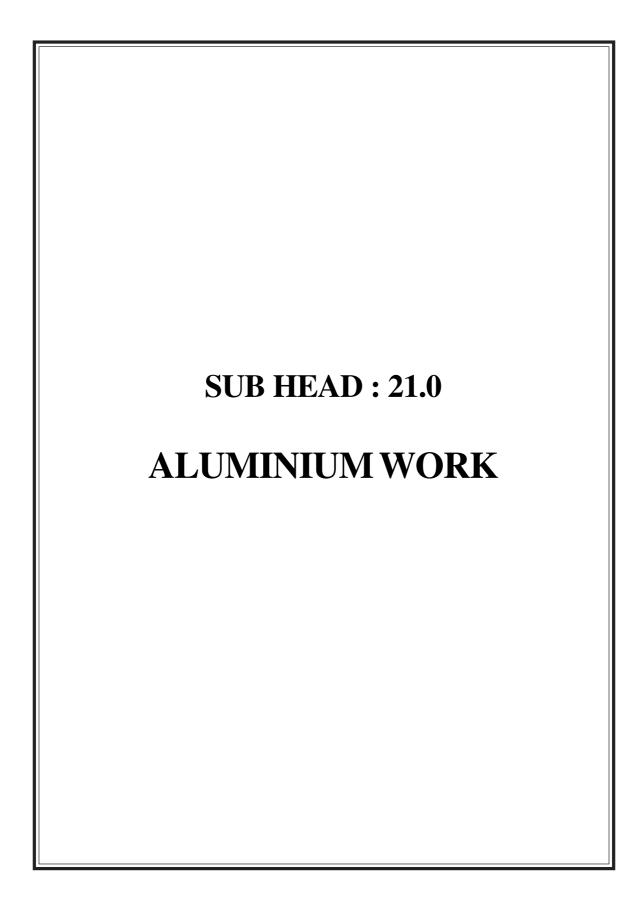
20.0 PILE WORK

Code No.		Description	Unit	Rate ₹
20.1	installing M-25 of safe wor reinforce be embe	g, driving with hydraulic piling rigs with power units and driven cast-in-situ reinforced cement concrete piles of grade specified diameter and length below the pile cap, to carry king load not less than specified, excluding the cost of steel ement but including the cost of shoe and the length of pile to edded in the pile cap etc. all complete. (Length of pile for t shall be measured from top of shoe to the bottom of pile		
	20.1.1	400 mm dia piles	metre	2333.50
	20.1.2	450 mm dia piles	metre	2889.45
	20.1.3	500 mm dia piles	metre	3475.40
	20.1.4	550 mm dia piles	metre	3813.10
	20.1.5	750 mm dia piles	metre	6508.40
	20.1.6	1000 mm dia piles	metre	10723.35
	20.1.7	1200 mm dia piles	metre	14025.05
	20.1.8	1500 mm dia piles	metre	19835.70
20.2	concrete the pile excludin boring w length fo to be en Direct m and med excavate	providing and installation bored cast-in-situ reinforced cement expiles of grade M-25 of specified diameter and length below cap, to carry a safe working load not less than specified, and the cost of steel reinforcement but including the cost of with bentonite solution and temporary casing of appropriate or setting out and removal of same and the length of the pile embedded in the pile cap etc. by percussion drilling using und circulation (DMC) or Bailer and chisel technique by tripod chanical Winch Machine all complete, including removal of ed earth with all its lifts and leads (length of pile for payment measured up to bottom of pile cap).		
	Note: Tr be used	uck Mounted rotary/TMR/Tubewell boring machine shall not		
	20.2.1	450 mm dia piles	metre	1916.40
	20.2.2	500 mm dia piles	metre	2274.25
	20.2.3	600 mm dia piles	metre	3060.10
	20.2.4	750 mm dia piles	metre	4695.05
20.2A	Boring, p concrete pile cap, the cost bentonit setting c embedd hydrauli earth wit	providing and installation bored cast-in-situ reinforced cement epiles of garde M-25 of specified diameter and length below to carry a safe working load not less than specified, excluding of steel reinforcement but including the cost of boring with e solution and temporary casing of appropriate length for but and removal of same and the length of the pile to be ed in the pile cap etc. by Crawler mounted, telescopic boom copilling Rig all complete, including removal of excavated the all its lifts and leads (length of pile for payment shall be ed up to bottom of pile cap).		

Code No.		Description	Unit	Rate ₹
	Note: To	ruck Mounted rotary/TMR/Tube well boring machine shall sed.		
	20.2A.1	600 mm dia piles	metre	4514.40
	20.2A.2	750 mm dia piles	metre	6505.75
	20.2A.3	1000 mm dia piles	metre	10897.00
	20.2A.4	1200 mm dia piles	metre	14289.20
	20.2A.5	1500 mm dia piles	metre	20497.35
20.3	installing and leng working reinforce and the l	with hydraulic piling rigs with power units, providing and g cast in situ single under reamed piles of specified diameter at the below pile cap in M-25 cement concrete, to carry a safe load not less than specified, excluding the cost of steel ement but including the cost of boring with bentonite solution ength of the pile to be embedded in pile cap etc. all complete. of pile for payment shall be measured upto to the bottom of the pile to be embedded in pile cap etc.		
	20.3.1	300 mm dia piles	metre	2560.90
	20.3.2	400 mm dia piles	metre	3178.00
	20.3.3	450 mm dia piles	metre	3545.20
	20.3.4	550 mm dia piles	metre	3956.75
20.4		er single under ream for providing additional bulbs in under piles, under specified diameter(only the nos. of extra bulbs paid)		
	20.4.1	300 mm dia piles	each	2182.60
	20.4.2	400 mm dia piles	each	2433.80
	20.4.3	450 mm dia piles	each	2585.20
	20.4.4	550 mm dia piles	each	2800.80
20.5	power un cement pile cap than spe pipe of d (1cement complete the stee the cost	g, driving (with vibrating pile driving hammer complete with nits & accessories) and installing driven Pre-cast reinforced concrete piles of specified diameter and length below the in M-25 cement concrete to carry safe working load not less ecified with a central through preformed hole with M.S. black ia, 40 mm for grouting with cement sand grouting of mix 1:2 at: 2 coarse sand) under sufficient positive pressure to ensure e filling including centring, shuttering, driving and removing I casing pipe and lifting casing etc. complete but excluding of steel reinforcement. (Length of pile for payment shall be ed from top of the shoe to the bottom of pile cap).		
	20.5.1	400 mm dia piles	metre	3143.80
	20.5.2	450 mm dia piles	metre	4007.00
	20.5.3	500 mm dia piles	metre	4151.55
	20.5.4	550 mm dia piles	metre	4739.10
	20.5.5	750 mm dia piles	metre	9104.75
	20.5.6	1000 mm dia piles	metre	12537.45

Code No.			Description	Unit	Rate ₹
20.6	including method dismant	g installation and preparat ling of test ca	of piles in accordance with IS 2911 (Part IV) of loading platform by Kentledge/Anchor piles ion of pile head or construction of test cap and ap after test etc. complete as per specification ineer in-charge.		
		. Initial and F	Routine Load Test shall not be carried out by esting.		
		Testing ager			
	20.6.1	Single pile			
		20.6.1.1	Initial test (Test Load 2.5 times the Safe capacity)	per test	51510.60
		20.6.1.2	Routine test (Test Load 1.5 times the Safe capacity)	per test	18463.55
	20.6.2	Single pile capacity	above 50 tonne and upto 100 tonne Safe		
		20.6.2.1	Initial test (Test Load 2.5 times the Safe capacity)	per test	57531.30
		20.6.2.2	Routine test (Test Load 1.5 times the Safe capacity)	per test	30505.00
	20.6.3	Group of tw	vo or more piles upto 50 tonne Safe capacity		
		20.6.3.1	Initial test (Test Load 2.5 times the Safe capacity)	per test	66227.90
		20.6.3.2	Routine test (Test Load 1.5 times the Safe capacity)	per test	38131.20
20.7	Cyclic vertical load testing of pile in accordance with IS Code of practice IS:2911 (part IV) by Kentledge method including preparation of pile head etc for.				
	20.7.1	Single pile			
		20.7.1.1	Upto 50 tonne Safe capacity pile	per test	18463.55
		20.7.1.2	Above 50 tonne and upto 100 tonne Safe capacity pile	per test	30505.00
	20.7.2	Group of tv	vo or more piles		
		20.7.2.1	Upto 400 tonne Safe capacity of group	per test	38131.20
20.8		IS: 2911 (Pa	of single pile in accordance with IS Code of rt IV) for determining safe allowable lateral load		
	20.8.1	Upto 50 to	nne capacity pile	per test	18463.55
	20.8.2	Above 50 t	onne and upto 100 tonne capacity pile	per test	30906.35

Code No.	Description	Unit	Rate ₹
20.9	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.	per test	982.55
	Note :- The inclusion of the above item in the schedule of work shall be judiciously decided by the technical sanctioning authority, keeping in view the quality control, type of soil strata & importance of the project.		



BASIC RATES (SH: 21.0 ALUMINIUM WORK)

Code No.	Description	Unit	Rate ₹
0100	Bandhani	day	714.00
0111	Carpenter 1st class	day	784.00
0112	Carpenter 2nd class	day	714.00
0114	Beldar	day	645.00
0116	Fitter (grade 1)	day	784.00
0119	Glazier	day	714.00
0123	Mason (brick layer) 1st class	day	784.00
0124	Mason (brick layer) 2nd class	day	714.00
0139	Skilled Beldar (for floor rubbing etc.)	day	714.00
0589	Chromium plated Brass screws 20 mm	100 Nos	160.00
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	393.00
0992	Galvanised steel plain sheets	quintal	5000.00
2406	Float glass panes of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	309.00
2407	Float glass panes of nominal thickness 5 mm (weight not less than 12.50 kg/sqm)	sqm	515.00
2408	Float glass panes of nominal thickness 8 mm (weight not less than 20.00 kg/sqm)	sqm	628.00
2604	Weather/structural non sag elastomeric PU sealant (600ml Sausage) for joints in RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum/ Alluminium work complying to ASTM C920, DIN 18540-F & ISO 11600 incl all taxes	each	543.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kg	240.00
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	195.00
7019	Dash fastener / Chemical fastener	each	12.50
7048	Rawl plug 50 mm (designation 10 nos)	each	22.00
7306	Aluminium T or L sections	kg	190.00
7313	Expandable fastener with plastic sleeve and M.S. screws: 32 mm long	each	10.00
7347	Cadmium plated full threaded steel screws (30x4 mm dia)	100 Nos	27.00
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	10.00
7389	Anodising 15 microns on aluminium sections	kg	38.00
7390	EPDM Gasket for uPVC window/door	metre	15.00

Code No.	Description	Unit	Rate ₹
7391	Anodising 25 microns on aluminium sections	kg	48.00
7392	Powder coating 50 microns on aluminium sections	kg	61.00
7393	Polyester powder coating 50 microns on aluminium sections	kg	67.00
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1500.00
7395	6 mm dia G.I. adjustable hangers including clips (up to 1.2 m length)	each	20.00
7396	Double action hydraulic floor spring with brass cover plate	each	1620.00
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	500.00
7480	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS: 12823 (exterior grade) 12 mm thick	sqm	490.00
8646	Weather Silicon sealant	cartridge	112.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	35.84
8648	Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap	sqm	2200.00
8649	Stainless steel (SS 304 grade) adjustable friction window stay 205 \times 19 mm	each	197.80
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 \times 19 mm	each	225.00
8651	Stainless steel (SS 304 grade) adjustable friction window stay 355 \times 19 mm	each	195.00
8652	Stainless steel (SS 304 grade) adjustable friction window stay 510 \times 19 mm	each	535.00
8653	Stainless steel (SS 304 grade) adjustable friction window stay 710 \times 19 mm	each	925.00
8654	Masking tape	metre	2.18
8660	Aluminium casement window fastener (Anodised AC 15)	each	48.00
8661	Aluminium casement window fastener (powder coated)	each	52.64
8662	Aluminium casement window fastener (polyester powder coated)	each	51.52
8663	Aluminium round shape handle (anodised AC 15) outer dia 100 mm	each	59.36
8664	Aluminium round shape handle (powder coated) outer dia 100 mm	each	60.00
8665	Aluminium round shape handle (polyester powder coated) outer dia 100 mm	each	62.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	41.80
8674	Precoated galvanised steel gutter 600mm overall girth	metre	440.00
8676	Precoated galvanised steel barge board (upto 300mm)	metre	230.00

Code No.	Description	Unit	Rate ₹
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	47.04
8774	Aluminium Grill as per IS 1868	kg	279.00
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	17.00
8778	Toughened glass 12 mm thickness	sqm	1750.00
9977	Carriage	L.S.	2.12
9988	Carriage and sundries	L.S.	2.12
9999	Sundries	L.S.	2.12

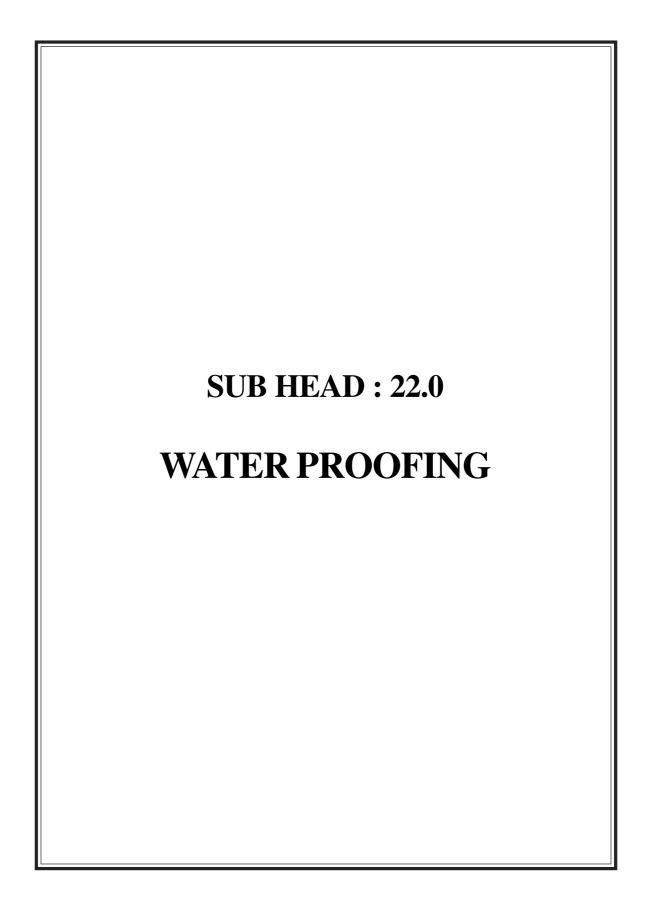
21.0 ALUMINIUM WORK

Code No.			Description	Unit	Rate ₹
21.1	and partiappropriations required junctions neoprenestraight, nucleat angular brass / substitution of the straight of the strai	tions with eate Z section to IS: 733 dia and size, i.e. at top, be gasket etc. nitred and joi le, Aluminiu tainless ste and the direct	luminium work for doors, windows, ventilators extruded built up standard tubular sections/ons and other sections of approved make 3 and IS: 1285, fixing with dash fasteners of e, including necessary filling up the gaps at bottom and sides with required EPDM rubber/Aluminium sections shall be smooth, rust free, inted mechanically wherever required including im snap beading for glazing / paneling, C.P. el screws, all complete as per architectural ctions of Engineer-in-charge. (Glazing, paneling 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	433.95
		21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	466.30
		21.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kg	474.70
	21.1.2	providing for fixing of of EPDM	ers of doors, windows & ventilators including and fixing hinges/ pivots and making provision of fittings wherever required including the cost rubber / neoprene gasket required (Fittings and 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	531.80
		21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	564.80
		21.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kg	573.40
21.2	pressed t 12823 Gr shutters a	hree layer or ade I Type II, and partition lete as per ar	12 mm thick prelaminated particle board flat regraded wood particle board conforming to IS: in panelling fixed in aluminum doors, windows frames with C.P. brass / stainless steel screws rehitectural drawings and directions of engineer-		
	21.2.1		nated particle board with decorative lamination de and balancing lamination on other side	sqm	965.10
	21.2.2	Pre-lamir on both s	nated particle board with decorative lamination ides	sqm	951.05

Code No.		Description	Unit	Rate ₹
21.3	shutters etc. comp	g and fixing glazing in aluminium door, window, ventilator and partitions etc. with EPDM rubber / neoprene gasket blete as per the architectural drawings and the directions of -in-charge. (Cost of aluminium snap beading shall be paid tem):		
	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	sqm	1019.80
	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	sqm	1325.55
	21.3.3	With float glass panes of 8 mm thickness (weight not less than 20 kg/sqm)	sqm	1496.15
21.4	brand an embosse door weight to the existingle piece.	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, and 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	2448.85
	21.4.2	With brass cover plate minimum 1.25 mm thickness	each	2609.40
21.5	thickness sections, ceiling in stainless wall with fixing the necessar approved	g and fixing powder coated aluminium work (minimum 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/ 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-inevel adjusting hangers, ceiling cleats and expansion hold		
		s to be paid for separately).	kg	674.60
21.6	1200mm out of G.I. dash fast	g and fixing 6 mm dia. G.I. level adjusting hangers (upto length), fixed to roof slabs by means of ceiling cleats made flat 40x3mm size 60 mm long and stainless steel expandable tener of 12.5 mm dia and 50 mm long, complete as per of Engineer-in-charge.	each	70.95
21.7	Providing pattern 8 machine vertical s side of joi 8 mm dia 2 mm thic centre incexpandal	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 int only shall be done with stainless steel dash fasteners of and 75 mm long bolt including providing aluminium washers ck & 15 mm dia, at a staggered pitch of 200mm centre to cluding drilling holes in the receiving surface and providing ble plastic sleeves in holes etc. complete as per direction of -in-charge.		, 3.33

Code No.		Description	Unit	Rate ₹
	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	603.30
	21.7.2	Powder coated aluminium sheet 2.5mm thick (minimum thickness of powder coating 50 micron)	kg	635.60
21.8	Stone wo	e gap in between aluminium frame & adjacent RCC/ Brick/rk by providing weather silicon sealant over backer rod of quality as per architectural drawings and direction of in-charge complete.		
	21.8.1	Upto 5mm depth and 5 mm width	metre	85.25
21.9		applying additional anodic coating AC 25 instead of AC 15 ium extruded sections.		
	21.9.1	For fixed portion	kg	13.40
	21.9.2	For shutters of doors, windows & ventilators	kg	13.40
21.10	aluminiur clear float EPDM ga (Both prir	and fixing double glazed hermetically sealed glazing in m windows, ventilators and partition etc. with 6 mm thick t 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	4013.35
21.11	windows screws e	and fixing stainless steel (SS 304 grade) adjustable friction stays of approved quality with necessary stainless steel to the side hung windows as per direction of Engineer-complete.		
	21.11.1	205 X 19 mm	each	292.80
	21.11.2	255 X 19 mm	each	329.20
	21.11.3	355 X 19 mm	each	289.05
	21.11.4	510 X 19 mm	each	743.95
	21.11.5	710 X 19 mm	each	1265.75
21.12	3.0 mm th	and fixing aluminium tubular handle bar 32 mm outer dia, nick & 2100 mm long with SS screws etc .complete as per of Engineer-in-Charge.		
	21.12.1	Anodized (AC 15) aluminium tubular handle bar	each	513.20
	21.12.2	Powder coated minimum thickness 50 micron aluminium tubular handle bar	each	563.50
	21.12.3	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar	each	576.60
21.13	levers wi	and fixing Brass 100mm mortice latch and lock with 6 thout pair of handles (best make of approved quality) for m doors including necessary cutting and making good etc.	each	449.55

Code No.		Description	Unit	Rate ₹
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 figrade AC 15) sub frame work for windows and ventilators ided built up standard tubular sections of approved make ig to IS: 733 and IS: 1285, fixed with dash fastener of required ze (Dash fastener to be paid for separately).	kg	357.90
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	73.55
	21.15.2	Powder coated minimum thickness 50 micron aluminium	each	79.75
	21.15.3	Polyester powder coated minimum thickness 50 micron aluminium	each	78.25
21.16	_	and fixing aluminium round shape handle of outer dia 100 SS screws etc. complete as per direction of Engineer-in-		
	21.16.1	Anodized (AC 15) aluminium	each	88.75
	21.16.2	Powder coated minimum thickness 50 micron aluminium	each	89.60
	21.16.3	Polyester powder coated minimum thickness 50 micron aluminium	each	92.25
21.17	or dyed to coating of standard brass/ sta cutting th handles a around th	and fixing anodised aluminium grill (anodised transparent 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. tinless steel screws @ 200 mm centre to centre, including e grill to proper opening size for fixing and operation of and fixing approved anodised aluminium standard section e opening, all complete as per requirement and direction of in-charge. (Only weight of grill to be measured for payment).	kg	560.85
21.18	levers wit	and fixing Brass 100mm mortice latch and lock with 6 thout pair of handles (best make of approved quality) for n doors including necessary cutting and making good etc.	sqm	4540.70
21.19	Filling the RCC/Brid weather/s of approv	gap in between aluminium/stone/wood frame and adjacent ck/ Stone/wood/ Ceramic/ Gypsum work by providing structural non sag elastomeric PU sealant over backer rod red quality as per architectural drawings and direction of in-charge complete, complying to ASTM C920, DIN 18540-	34III	1010.70
	21.19.1	Upto 5 mm depth and 5 mm width	metre	130.20
	21.19.2	Upto 10 mm depth and 10 mm width	metre	177.00
	21.19.3	Upto 20 mm depth and 20 mm width	metre	320.25
		•		



BASIC RATES (SH: 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	350.00
0101	Bhisti	day	714.00
0114	Beldar	day	645.00
0115	Coolie	day	645.00
0123	Mason (brick layer) 1st class	day	784.00
0124	Mason (brick layer) 2nd class	day	714.00
0125	Mason (for plain stone work) 2nd class	day	714.00
0128	Mate	day	714.00
0130	Mistry	day	784.00
0131	Painter	day	714.00
0155*	Mason (average)	day	749.00
0159	Skilled torch operator for laying tack	day	784.00
0285	Brick Aggregate (Single size): 63 mm nominal size	cum	650.00
0295	Stone Aggregate (Single size): 20 mm nominal size	cum	1400.00
0296	Stone Aggregate (Single size): 12.5 mm nominal size	cum	1350.00
0297	Stone Aggregate (Single size): 10 mm nominal size	cum	1350.00
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	34790.00
0316	Bitumen solution primer of approved quality	litre	47.00
0318	Bitumen felt fibre base (vegetable or animal): As per IS 7193 Grade I	sqm	70.00
0319	Bitumen felt as per IS 7193 Grade II	sqm	80.00
0322	Bitumen felt :Type 3 grade 1	sqm	70.00
0351	Integral crystalline slurry	kg	195.00
0352	Integral crystalline admixture	kg	230.00
0353	Crystalline mortar	kg	190.00
0354	Integral crystalline dry shake	kg	280.00
0355	Swellable type water stop tape	metre	325.00
0356	Primer for swellable type water stop tape	litre	1300.00
0367	Portland Cement (OPC-43 Grade)	tonne	5000.00
0370	Coal (steam)	quintal	440.00
0982	Coarse sand (zone III)	cum	1500.00
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	250.00
1177	Stone grit 6 mm and down size or pea sized gravel	cum	800.00
1213	Water proofing materials	kilogram	35.00
1241	Commercial LPG in cylinder	kg	84.00

Code No.	Description	Unit	Rate ₹
2200	Carriage of Steam coal	tonne	187.35
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	163.93
2203	Carriage of Coarse sand	cum	163.93
2209	Carriage of Cement	tonne	145.72
2211	Carriage of Tar / Bitumen	tonne	163.93
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	145.72
2260	Carriage of Brick aggregate	cum	178.19
3002	Polyvinyl chloride sheet 400 micron thick	sqm	45.00
7233	Fibre glass tissue reinforcement Type II Grade i	sqm	75.00
7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	200.00
7428	Water stops Dumb bell with central bulb	metre	160.00
7429	Kickers	metre	160.00
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	80.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	120.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	130.00
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	190.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	210.00
8206	Bitumen primer for bitumen membrane	litre	85.00
8207	Geotextile 120 grams per sqm membrane	sqm	45.00
8501	Polymer modified cementation coating	kg	160.00
8502	Fibre glass cloth	sqm	32.00
8511	Fibre reinforced elastomeric liquid water proofing membrane	litre	230.00
8512	Cementitious water proofing coating with elastic polymers	kg	225.00
8513	Acrylic modified resin based texture	kg	42.00
9977	Carriage	L.S.	2.12
9999	Sundries	L.S.	2.12

22.0 WATER PROOFING

Code No.	e Description		Unit	Rate ₹
22.1	proofin	ng and laying integral cement based treatment for water g on horizontal surface at all depth below ground level for ground structures as directed by Engineer-in-Charge and ting of:		
	st ce co le se	t layer of 22 mm to 25 mm thick approved and specified rough one slab over a 25 mm thick base of cement mortar 1:3 (1 ement: 3 coarse sand) mixed with water proofing compound onforming to IS:2645 in the recommended proportion over the veling course (leveling course to be paid separately). Joints ealed and grouted with cement slurry mixed with water proofing ompound.		
	sa	and layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse and) mixed with water proofing compound in recommended roportions.		
	siz	nishing top with stone aggregate of 10 mm to 12 mm nominal ze spreading @ 8 cudm/sqm thoroughly embedded in the nd layer.		
	22.1.1	Using rough kota stone.	sqm	1362.95
22.2	proofing to 25 r compore a gap of surface water p cement neat cor recomm	ng and laying integral cement based treatment for water g on the vertical surface by fixing specified stone slab 22 mm mm thick with cement slurry mixed with water proofing und conforming to IS:2645 in recommended proportions with of 20 mm (minimum) between stone slabs and the receiving es and filling the gaps with neat cement slurry mixed with proofing compound and finishing the exterior of stone slab with the mortant 1:3 (1 cement: 3 coarse sand) 20 mm thick with ement punning mixed with water proofing compound in mended proportion complete at all levels and as directed by er-in-charge:		
	22.2.1	Using rough Kota stone	sqm	1780.30
22.3	horizor	ing and laying water proofing treatment to vertical and ntal surfaces of depressed portions of W.C., kitchen and the nsisting of:		
	\ !	st 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.		
	, , , , , , , , , , , , , , , , , , ,	Ind course of 20 mm cement plaster 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.		
	. ,	Illrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.		
	(Vth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	sqm	774.25

Code No.		Description	Unit	Rate ₹
22.4	to IS:12 membe	ng and Placing in position suitable PVC water stops conforming 2200 for construction/ expansion joints between two RCC ers and fixed to the reinforcement with binding wire before concrete etc. complete:		
	22.4.1	Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	285.60
	22.4.2	Dumb bell with central bulb (180 mm wide, 8 mm thick)	metre	232.05
	22.4.3	Kickers (320 mm wide, 5 mm thick)	metre	232.05
22.5	WCs, b	ng and laying water proofing treatment in sunken portion of eathroom etc., by applying cement slurry mixed with water g cement compound consisting of applying:		
	1	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.		
	\ 	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.		
		e includes preparation of surface, treatment and sealing of all corners, junctions of pipes and masonry with polymer mixed	sqm	516.60
22.6	applying	ng and laying water proofing treatment on roofs of slabs by g cement slurry mixed with water proofing cement compounding of applying:		
	C	after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.		
	S	aying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less han 10 cm.		
	() () b	hird layer of 1.5 mm thickness consisting of slurry of cement ② 1.289 kg/sqm mixed with water proofing cement compound ② 0.670 kg/sqm and coarse sand ② 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on be parapet wall and tucked into groove in parapet all around.		
	, ,	ourth and final layer of brick tiling with cement mortar (which vill be paid for separately.		
	For the measure	purpose of measurement the entire treated surface will be ed.	sqm	585.55
22.7	includin	ng and laying integral cement based water proofing treatment ng preparation of surface as required for treatment of roofs, es, terraces etc consisting of following operations:		

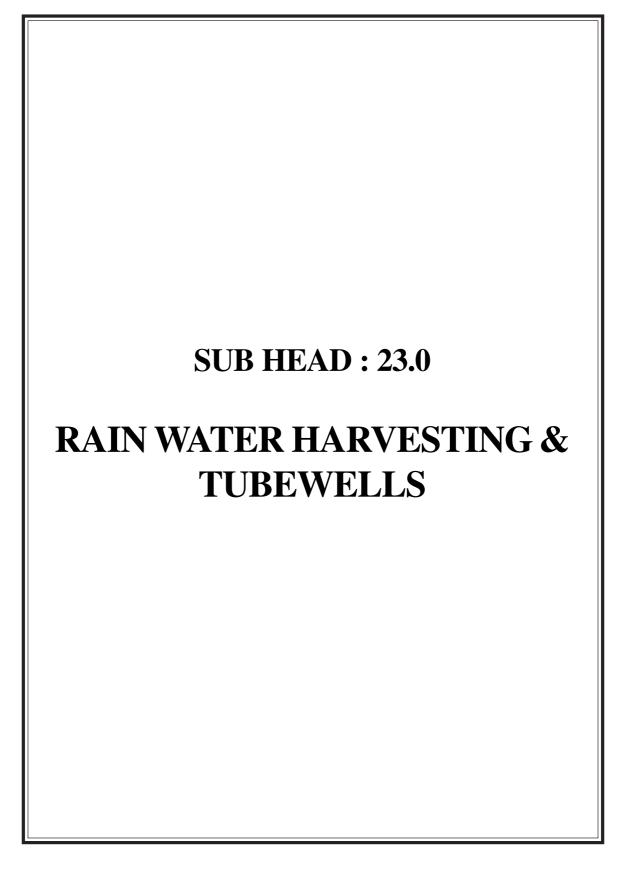
Code No.		Description	Unit	Rate ₹
	(a)	Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.		
	(b)	Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.		
	(c)	After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge.		
	(d)	Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 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	1522.95
22.8	felt over 85/25 square type 3 and fin gravel	ing and laying four courses water proofing treatment with bitumen er roofs consisting of first and third courses of blown bitumen or 90/15 conforming to IS: 702 applied hot @ 1.45 Kg per emetre of area for each course, second course of roofing felt grade-I (hessian based self finished bitumen felt) and fourth hal course of stone grit 6 mm and down size or pea sized spread at 6 cubic decimeter per square metre, including ration of surface but excluding grading complete with:		
	22.8.1	Bitumen felt (hessian base) type 3 grade I conforming to IS: 1322	sqm	432.10

Code No.		Description	Unit	Rate ₹
22.9	bitumen f blown bitu 1.45, 1.20 and fourth 1322 (Hes of stone (and laying six courses water proofing treatment with elt over roofs consisting of first, third and fifth course of umen 85/25 or 90/15 conforming to IS: 702 applied hot @ and 1.45 Kg per square metre of area respectively, second a courses of roofing felt type 3 grade I conforming to IS: ssian based self finished bitumen felt), sixth and final course grit 6 mm and down size or pea sized gravel spread at 6 meter per sqm including preparation of surface but excluding complete.	sqm	675.00
22.10	bitumen f blown or / per squar roofing fe and final gravel spi	and laying six courses water proofing treatment with elt over roofs consisting of first, third and fifth courses of and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg e metre of area respectively, second and fourth courses of It type 2 grade I (fibre base self finished bitumen felt) six courses of stone grit 6 mm and down size or pea sized read at 6 cubic decimeter per sqm including preparation of excluding grading, compete.	sqm	773.50
22.11	bitumen f blown or / per squar roofing fel and sixth sized grav	and laying six courses water proofing treatment with elt over roofs consisting of first, third and fifth courses of and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg e metre of area respectively, second and fourth courses of t type 2 grade II (glass fibre base self finished bitumen felt) and final course of stone grit 6 mm and down size or pea rel spread at 6 cubic decimeter per sqm including preparation but excluding grading, complete.	sqm	773.95
22.12	Supplying	g and applying bituminous solution primer on roof and / or ce at 0.24 litre per sqm.	sqm	50.25
22.13		or omitting in water proofing treatment final course of g stone grit 6 mm down size or pea sized gravel:		
	22.13.1	at 6 cudm per sqm	sqm	15.80
	22.13.2	at 8 cudm per sqm	sqm	19.85
22.14	Grading r	oof for water proofing treatment with		
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	cum	7510.75
	22.14.2	Cement mortar 1:3 (1 cement : 3 coarse sand)	cum	14275.75
	22.14.3	Cement mortar 1:4 (1cement : 4 coarse sand)	cum	13378.15
22.22	treatment reservior, bridge de of the read (minimum concrete specificat material s	and mixing integral crystalline admixture for water proofing to RCC structures like basement raft, retaining walls, sewage & water treatment plant, tunnels / subway and ck etc. at the time of transporting of concrete into the drum dy-mix truck, using integral crystalline admixture @0.80% n) to the weight of cement content per cubic meter of or higher as recommended by the manufacturer's ion in reinforced cement concrete at site of work. The shall meet the requirements as specified in ACI-212-3R-by reducing permeability of concrete by more than 90%,		

Code No.	Description	Unit	Rate ₹
	compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.	kg	332.40
22.22A	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	sqm	474.15
22.23	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.		
	22.23.1 For vertical surface two coats @ 0.70 kg per sqm	sqm	406.25
22.23A	22.23.2 For horizontal surface one coat @1.10 kg per sqm. Providing & Applying polymer modified, flexible cementatious negative side waterproofing coating with elastic waterproofing polymers on interior wall plaster surface in three coats @14.35 kg /10 sqm. one coat of self priming of cementatious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementatious waterproofing polymer (dilution with water in the ratio of 3:1) after scrapping and properly cleaning the surface to remove pre-existing paint film & loose particles till plaster is visible, complete in all respect	sqm	311.50
22.24	as per the direction of Engineer-in-Charge. Providing and applying integral crystalline (dry shake) of hydrophilic in nature for waterproofing treatment to the RCC structures like	sqm	522.20

Code No.		Description	Unit	Rate ₹
basement raft, foundation slab, sewage & water treatment plate warehouses floor, parking structures and water tank base is sprinkled @0.60kg per sqm or higher as recommended manufacturer's specification over the lean concrete of above structures. The material shall meet the requirements as specifications. The material shall meet the requirements as specification and the concrete as per DIN 1048 and responsible to 16 bar hydrostatic pressure on negative side. The crystall shake shall be capable of self-healing of cracks up to a volume. The work shall be carried out all complete specification and the direction of the Engineer-in-charge. The performance shall carry guarantee for 10 years against any		structures and water tank base slab etc. adm or higher as recommended by the on over the lean concrete of above cited hall meet the requirements as specified in educing permeability of concrete by more of concrete as per DIN 1048 and resistant sure on negative side. The crystalline dryff self-healing of cracks up to a width of II be carried out all complete as per ion of the Engineer-in-charge. The product	sqm	265.75
22.24A	of Dholpur/Red sand stone properties to be applied as 43.04 kgs/10 sqm to form that and properly cleaning the splaster surface, followed by exterior paint with Silicon	quality acrylic modified resin based texture Pattern with anti algae and UV resistance is intermediate finish in desired pattern @ film of 1-1.5 mm thickness after scrapping surface to remove loose particles from the y top coating with Premium Acrylic Smooth e additives of required shade by two or 10 sqm, complete as the direction of	sqm	482.05
22.25	Providing and applying cry: 1 (4.5 parts crystalline in faulty construction joints honeycombed surface of R water tanks, bridge deck et mortar shall conform to the Class R4 ?45 MPa and ad The work shall be carried	rstalline mortar by mixing in the ratio of 4.5 mortar: 1 part water) for the treatment of s, cracks, tie rod holes and spalled & CC underground structures like basement, c. to ensure water tightness. The crystallie e EN 1504-3 having compressive strength hesive bond strength Class R3?1.5 MPa. out all complete as per specification and r-in-charge. The product performance shall ars against any leakage.		
	22.25.1 For sealing craout/making U primed the are running metre groove upto surunning metre finally applied	acks and faulty construction joints, routed shape groove size 25x25mm and then a with integral crystalline slurry @0.05kg/ and while the surface is tacky filled the surface with crystalline mortar @1.50kg/. Once crystalline mortar is touch dry then two coats of integral crystalline slurry ning metre per coat.	metre	469.65
	and then prim @0.070kg/sqi then filled mortar@0.040 be tightly rodd	f tie rod holes, prepared tie rod hole surface ed the area with integral crystalline slurry m and while the surface is tacky repair and the tie rod holes with crystalline okg per hole. The crystalline mortar should ed into tie rod holes or packed tightly (For a tie rod hole, use 0.040kg to fill the hole)	each hole	19.95

Code No.	Description	Unit	Rate ₹
22.26	Providing and applying of swellable type water stop tape, 19mm x 25mm thick in linear meter (expansive nature) for construction joints treatment of RCC structure such as raft slab, retaining walls, water storage tank and at the junctions of raft slab with the retaining walls etc After cleaning the surface, one coat of required primer for swellable water stop tape shall be applied throughout the length of the joint @3.78 litre per 240 running meter. Over the primed surface swellable type water stop tape shall be placed. The work shall be carried out all complete as per specification and the direction of the Engineer-In-Charge. The product performance shall carry guarantee		
	for 10 years against any leakage.	metre	495.40



BASIC RATES (SH: 23.0 RAIN WATER HARVESTING & TUBEWELLS)

Code No.	Description	Unit	Rate ₹
0005	Hire charges of Diesel Truck - 9 tonne (with POL)	day	3940.00
0020	Hydraulic Excavator (3D) with driver and fuel	day	7000.00
0040	Air compressor 250 cfm with two leads for pneumatic cutters / hammers	day	1600.00
0103	Blacksmith 2nd class	day	714.00
0113	Chowkidar	day	645.00
0114	Beldar	day	645.00
0115	Coolie	day	645.00
0123	Mason (brick layer) 1st class	day	784.00
0124	Mason (brick layer) 2nd class	day	714.00
0130	Mistry	day	784.00
0134	Rock Hole Driller	day	645.00
1235	Diesel	litre	80.87
2319	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	358.32
2321	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	597.20
2322	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	971.45
2343	Carriage of Ductile Iron pipes (k7) 100 mm dia	100 metre	358.32
2344	Carriage of Cast iron pipes 150 mm dia	100 metre	597.20
2345	Carriage of Cast iron pipes 200 mm dia	100 metre	971.45
7743	M.S. pipe 150 mm dia casing pipe	metre	1126.00
7744	M.S. pipe 200 mm dia casing pipe	metre	1400.00
7745	PVC blind pipe 150 mm dia as per IS: 12818	metre	490.00
7746	PVC blind pipe 200 mm dia as per IS: 12818	metre	700.00
7747	M.S. cap 150 mm dia	each	150.00
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	500.00
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	810.00
7753	Stone Boulder 50 mm to 200 mm	cum	810.00
7754	Gravel 5 mm to 10 mm	cum	815.00
7755	Gravel 1.5 mm to 2 mm	cum	815.00

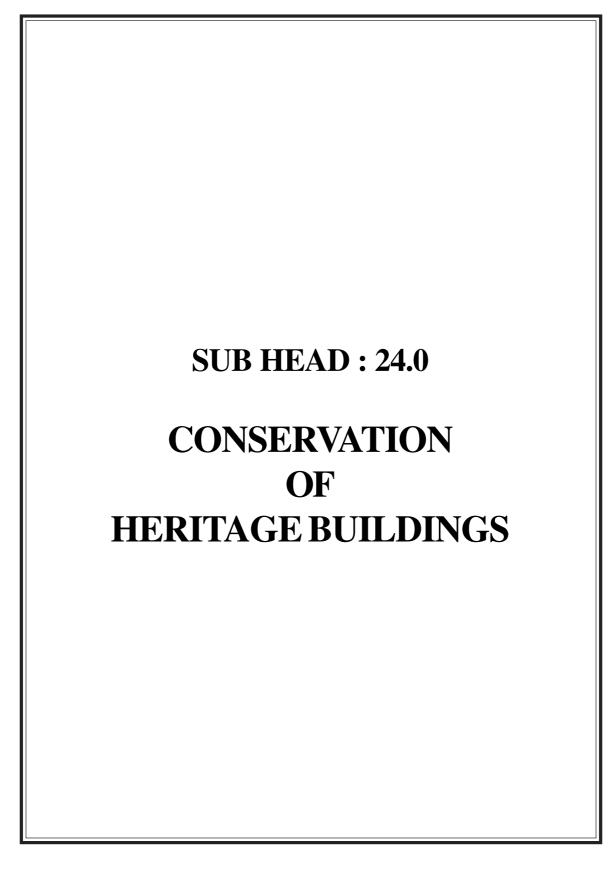
Code No.	Description	Unit	Rate ₹
7756	Gravel 3 mm to 6 mm	cum	815.00
7757	M.S. pipe 100 mm dia casing pipe	metre	780.00
7758	uPVC blind pipe 100 mm dia as per IS: 12818	metre	405.00
7759	uPVC slotted pipe 100 mm dia as per IS: 12818	metre	425.00
7760	M.S. cap 100 mm dia	each	135.00
7761	M.S. bail plug 100 mm dia	each	160.00
7762	Precast R.C.C. perforated slab	each	875.00
7763	Water supply tanker of 5000 litre capacity	each	1500.00
7764	M.S. socket 100 mm dia	each	125.00
7765	M.S. socket 150 mm dia	each	205.00
7766	M.S. socket 200 mm dia	each	265.00
7772	Pea Gravel	cum	910.00
9988	Carriage and sundries	L.S.	2.12
9999	Sundries	L.S.	2.12

23.0 RAIN WATER HARVESTING & TUBEWELLS

Code No.			Description	Unit	Rate ₹
23.1	suitable samples bore log plants &	method presc from different , including hire machineries re	Il of required dia for casing/ strainer pipe, by ribed in IS: 2800 (part I), including collecting strata, preparing and submitting strata chart/ & running charges of all equipments, tools, quired for the job, all complete as per direction upto 90 metre depth below ground level.		
	23.1.1	All types of s	soil		
		23.1.1.1	300 mm dia	metre	592.05
		23.1.1.2	350 mm dia	metre	647.55
		23.1.1.3	400 mm dia	metre	828.85
	23.1.2	Rocky strata	including Boulders		
		23.1.2.1	300 mm dia	metre	1416.30
		23.1.2.2	350 mm dia	metre	1497.25
		23.1.2.3	400 mm dia	metre	1777.90
23.2	suitable samples bore log plants & of Engir	method presc from different , including hire machineries re	Il of required dia for casing/ strainer pipe, by ribed in IS: 2800 (part I), including collecting strata, preparing and submitting strata chart/ & x running charges of all equipments, tools, quired for the job, all complete as per direction by, beyond 90 metre & upto 150 metre depth		
	23.2.1	All types of s	soil		
		23.2.1.1	300 mm dia	metre	690.70
		23.2.1.2	350 mm dia	metre	767.45
		23.2.1.3	400 mm dia	metre	1036.10
	23.2.2	Rocky strata	including Boulders		
		23.2.2.1	300 mm dia	metre	1561.70
		23.2.2.2	350 mm dia	metre	1632.15
		23.2.2.3	400 mm dia	metre	2082.35
23.3	well, unp dia, con charges	olasticized PV forming to IS:	lowering and fixing in vertical position in bore C medium well casing (CM) pipe of required 12818, including required hire and labour essories etc. all complete, for all depths, as er-in-charge.		
	23.3.1	100 mm no	ominal size dia	metre	553.20
	23.3.2	150 mm no	ominal size dia	metre	668.50
	23.3.3	200 mm no	ominal size dia	metre	971.30

Code No.		Description	Unit	Rate ₹
23.4	well unpla conformir accessori	g, assembling, lowering and fixing in vertical position in bore asticized PVC medium well screen (RMS) pipes with ribs, ag to IS: 12818, including hire & labour charges, fittings & les etc. all complete, for all depths, as per direction of in-charge.		
	23.4.1	100 mm nominal size dia	metre	579.95
	23.4.2	150 mm nominal size dia	metre	681.90
	23.4.3	200 mm nominal size dia	metre	1099.25
23.5	5 cm to 20	g, filling, spreading & leveling stone boulders of size range 0 cm, in recharge pit, in the required thickness, for all leads complete as per direction of Engineer-in-charge.	cum	1302.30
23.6	10 mm, ir required t	g, filling, spreading & leveling gravels of size range 5 mm to the recharge pit, over the existing layer of boulders, in hickness, for all leads & lifts, all complete as per direction er-in-charge.	cum	1309.00
23.7	mm to 2 m	g, filling, spreading & leveling coarse sand of size range 1.5 nm in recharge pit, in required thickness over gravel layer, ds & lifts, all complete as per direction of Engineer -in-	cum	1309.00
23.8	Gravel pa including & sizes as	cking 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	1479.25
23.9	having con mm, reinf sectional 7 @ 100 to	and fixing factory made precast RCC perforated drain covers, norete of strength not less than M-25, of size 1000 x 450x50 forced with 8 mm dia four nos longitudinal & 9 nos cross T.M.T. hoop bars, including providing 50 mm dia perforations 125 mm c/c, including providing edge binding with M.S. e 50 mm x 1.6 mm complete, all as per direction of Engineer.	each	1213.25
23.10	well, ERW and socke to IS: 427 outside si brand and fittings & 8	g, assembling, lowering and fixing in vertical position in bore V (Electric Resistance Welded) FE 410 mild steel screwed eted/plain ended casing pipes of required dia, conforming 70, of reputed & approved make, including painted with urface 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.		
	23.10.1	100 mm nominal size dia having minimum wall thickness 5.00 mm	metre	1172.30
	23.10.2	150 mm nominal size dia having minimum wall thickness 5.00 mm	metre	1675.80
	23.10.3	200 mm nominal size dia having minimum wall thickness 5.40 mm	metre	2082.10

Code No.		Description	Unit	Rate ₹
23.11	well, ERW slot of siz bevel end reputed a 5.40 mm, anticorros including	, assembling, lowering and fixing in vertical position in bore // (Electric Resistance Welded) FE 410 plain slotted (having te 1.6/3.2 mm) mild steel threaded and socketed/ plain ed pipe (type A) of required dia, conforming to IS: 8110, of nd approved make, having wall thickness not less than including painted with outside surface with two coats of sive bitumestic paint of approved brand and manufacture, hire & labour charges, fittings & accessories, all complete, ths, as per direction of Engineer -in-charge.		
	23.11.1	100 mm nominal size dia	metre	1258.00
	23.11.2	150 mm nominal size dia	metre	1790.00
	23.11.3	200 mm nominal size dia	metre	2194.85
23.12	11189, to content (compress developed approved draw dow approved hire & lab	tent of tube well in accordance with IS: 2800 (part I) and IS: establish maximum rate of usable water yield without sand beyond permissible limit), with required capacity air or, running the compressor for required time till well is fully d, measuring yield of well by "V" notch method or any other method, measuring static level & draw down etc. by step on method, collecting water samples & getting tested in laboratory, i/c disinfection of tubewell, all complete, including our charges of air compressor, tools & accessories etc., requirement and direction of Engineer-in-charge.	hour	916.80
23.13	Providing 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:		
	23.13.1	100 mm dia	each	189.65
	23.13.2	150 mm dia	each	210.75
	23.13.3	200 mm dia	each	280.95
23.14	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.		
	23.14.1	100 mm clamp	each	1522.50
	23.14.2	150 mm clamp	each	1609.25
	23.14.3	200 mm clamp	each	1827.00
23.15	_	and fixing Bail plug/ Bottom plug of required dia to the pipe assembly of tubewell as per IS:2800 (part I).		
	23.15.1	100 mm dia	each	228.25
	23.15.2	150 mm dia	each	281.75
	23.15.3	200 mm dia	each	308.55



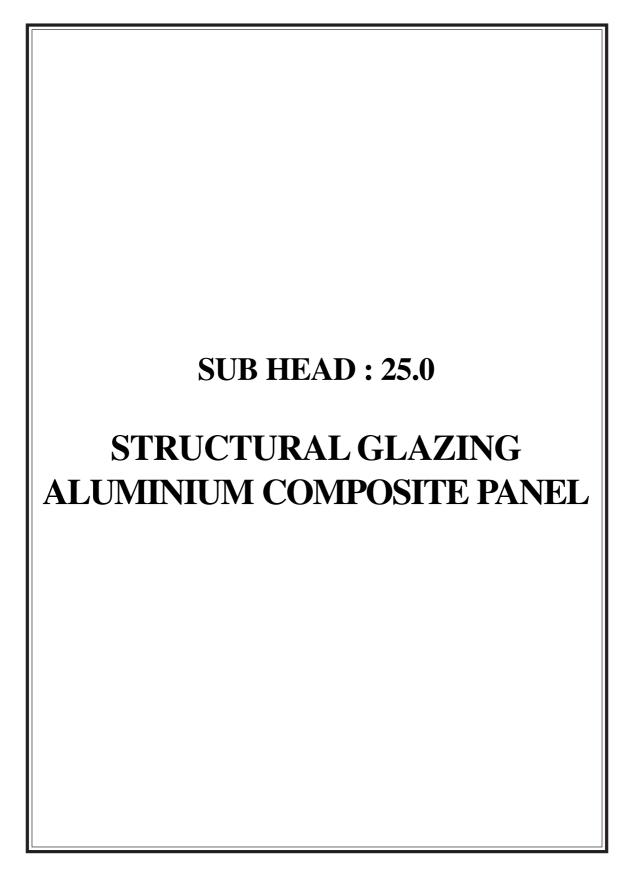
BASIC RATES (SH: 24.0 CONSERVATION OF HERITAGE BUILDINGS)

Code No.	Description	Unit	Rate ₹
0101	Bhisti	day	714.00
0103	Blacksmith 2nd class	day	714.00
0114	Beldar	day	645.00
0115	Coolie	day	645.00
0116	Fitter (grade 1)	day	784.00
0124	Mason (brick layer) 2nd class	day	714.00
0128	Mate	day	714.00
0131	Painter	day	714.00
0155*	Mason (average)	day	749.00
0159	Skilled torch operator for laying tack	day	784.00
0773	Unslaked lime	quintal	300.00
1034	Bolts and nuts up to 300 mm in length	quintal	5200.00
1182	Surkhi	cum	700.00
2205	Carriage of Steel	tonne	145.72
4009	Mild steel tubes hot finished welded type	kg	60.00
6501	Sand zone V (Jamuna)	cum	1300.00
7346	Double coupler	each	46.00
7387	Spigot for standard jointing	kg	40.00
7397	Base Jack	each	145.00
7398	Challies	each	765.00
7399	Cup locks	each	48.00
7767	Stone cleaning chemical approved by ASI	litre	270.00
7768	Water repallent chemical approved by ASI	litre	1100.00
7769	Stone surface strengthening chemical approved by ASI	litre	835.00
7770	Turpentine oil	litre	50.00
7771	Liquid Ammonia 5%	litre	145.00
7775	Sodium pentachlorophenate	kg	500.00
9999	Sundries	L.S.	2.12

24.0 CONSERVATION OF HERITAGE BUILDINGS

Code No.	Description	Unit	Rate ₹
24.1	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	59.75
24.2	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.		
	Note:- (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.	sqm	285.00
24.3	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	174.85
24.4	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	64.10
24.5	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	310.05

Code No.	Description	Unit	Rate ₹
24.6	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	310.05
24.7	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	281.40
24.8	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	91.35



BASIC RATES (SH: 25.0 STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL

Code No.	Description	Unit	Rate ₹
2415	21mm thick clear toughened Laminated glass for fins with holes	sqm	6120.00
2605	Structural sealant - 6 mm x 12 mm	metre	31.00
2606	Spacer tape 6.4 mm thick x 6 mm wide	metre	21.00
2607	Weather Sealant - Non Staining (600 ml)	each	332.00
2608	Weather Sealant - Normal (300 ml)	each	102.00
2609	MS Brackets/Aluminium Alloy Brackets	kg	104.00
2610	Silicon Gasket in Kg (Above 50 g / m)	kg	484.00
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	156.00
2612	Anchor Fastner - M10	each	11.00
2613	SS Bolt with washer of different sizes for structural glazing / ACP Cladding	each	37.00
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	4.00
2615	Protective Tape	metre	22.00
2616	GI flashing - 1.2 mm Thick	kg	61.00
2617	6 mm thick High performance glass	sqm	1030.00
2618	6 mm thick clear heat strengthened glass	sqm	670.00
2619	6 mm thick clear heat strengthened glass	each	132.00
2620	ARMS GS HD - Top Hung -20"- Type P- Couple	pair	1390.00
2621	Connection Block for vision glass panel	each	36.00
2622	Curtain wall striker for vision glass panel	each	87.00
2623	Adjustable Fastening Pawl for vision glass panel	each	36.00
2624	Corner drive for vision glass panel	each	260.00
2625	Top wedge Block for vision glass panel	each	122.00
2626	Glass wool of denisity @ 48 Kg / cum with black glass tissue (BGT)	sqm	255.00
2627	SS Screws - # 8 x 19	each	7.00
2628	Weather Sealant - DC 789	cartridge	125.00
2629	Cement Board	sqm	245.00
2630	Baker rod	metre	6.00
2631	4 mm thick ACP	sqm	1100.00
2632	Fire Stop	metre	480.00

Code No.	Description	Unit	Rate ₹
2634	GI/Aluminium Sheet (0.8 mm thick)	kg	55.00
7306	Aluminium T or L sections	kg	190.00
7392	Powder coating 50 microns on aluminium sections	kg	61.00
8559	Stainless steel U Channel of size (50x25x2mm)	metre	160.00
8560	Non staining water resistant clear silicon	metre	70.00
8654	Masking tape	metre	2.18
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	47.04
8945	4 Point facade glass bracket without flat head bolts	Nos	3318.00
8946	2 Point facade glass bracket (wall mounted with out flat head bolt)	Nos	1659.00
8947	1 Point facade glass bracket (wall mounted with out flat head bolt)	Nos	1300.00
8948	Flate head bolt for brackets of spider glazing	Nos	651.00
8949	400 mm long fin plate without fastners	pair	5931.00
9999	Sundries	L.S.	2.12

25.0 STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL

Code No.		Description	Unit	Rate ₹
25.1	alun shop per l conf by th as c alun The	viding and supplying aluminium extruded tubular and other ninium sections as per the architectural drawings and approved of drawings, the aluminium quality as per grade 6063 T5 or T6 as BS 1474, including super durable powder coating of 60-80 microns forming to AAMA 2604 of required colour and shade as approved the Engineer-in-Charge. (The item includes cost of material such leats, sleeves, screws etc. necessary for fabrication of extruded ninium frame work. Nothing extra shall be paid on this account). weight of aluminium extruded section shall be taken for purpose asyment.	kg	370.45
25.2	posi joint	igning, fabricating, testing, protection, installing and fixing in ition semi (grid) unitized system of structural glazing (with open is) for linear as well as curvilinear portions of the building for all phts 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.
- Making provision for drainage of moisture/ water that enters (e) the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge.

Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this 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.

Code No.	Description	Unit	Rate ₹
	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		

- of the work. Performance Testing of Structural glazing system Tests to be conducted in the NABL accredited lab or any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025
- 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.
- Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml
- Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTME-330-10 testing method for a range upto 50 mm
- Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test, Tests to be conducted on site.
- 6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml

sqm 3111.35

25.3 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.25.2)

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.

Code	Description	Unit	Rate ₹
No.	(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	3377.50
25.4	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- in-Charge.	sqm	3309.05
25.5	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-rigid, inorganic, non-combustible fibre glass wool insulation 50 mm thick, conforming to IS: 8183 and BS: 3958 Part 5. The insulation layer shall have facing (factory bonded on surface # 1 of the fibre glass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5 mm and nominal mass not less than 60 gm /sqm, made of randomly oriented glass fibres distributed in a binder by a wet-lay process including fixing 1.5 mm thick solid aluminum sheet backing using, 6 mm thick cement board including SS rivets, nuts, bolts, washers etc complete.	sqm	1954.30
25.6	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.	1	
	For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevent Item*)."(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	sqm	2213.50

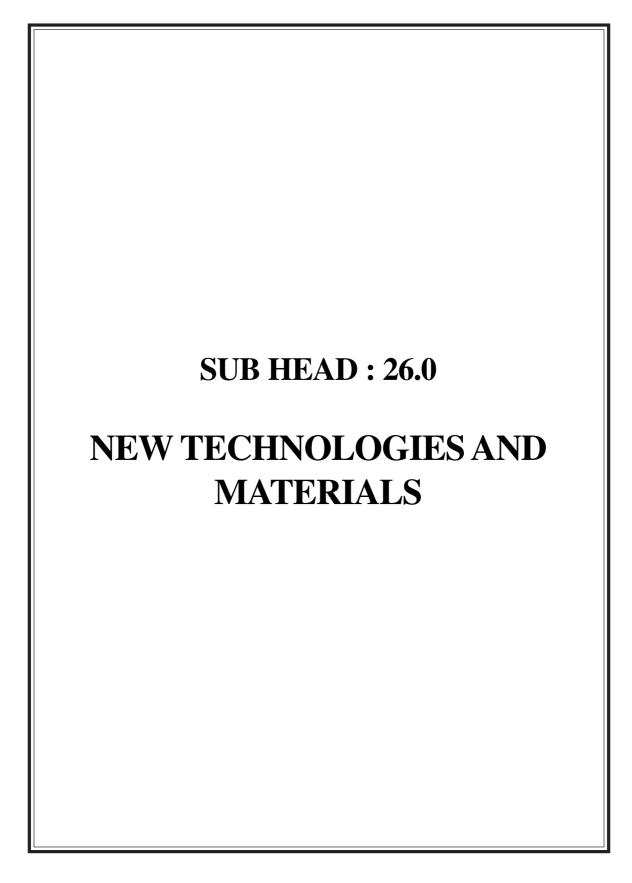
Code	Description	Unit	Rate
No.			₹

Design supply & installation of suspended Spider Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS-316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/ beams by means of SS-316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof.

25.8

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 8230.05



BASIC RATES (SH: 26.0 NEW TECHNOLOGIES AND MATERIALS)

Code No.	Description	Unit	Rate ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	210.00
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	700.00
0012	Vibrator (Needle type 40 mm)	day	350.00
0014	Front end loader capacity 1.00 cum	day	6000.00
0028	Hire and running charges of crane 20 tonne capacity	day	7000.00
0030	Generator 250 KVA	day	3000.00
0031	Steam curing by using boiler /Heater	cum	500.00
0032	Stressing Machine (jack with pump)	day	11500.00
0034	Cutting saw machine	day	1350.00
0035	Strands Roller machinery for laying strands	day	3500.00
0036	Bed master (Pulling strands)	day	3000.00
0037	Mobile crane	day	4500.00
0044	Cost for crane upto 40 tonne capacity	day	8000.00
0067	Cost for crane upto 80 tonne capacity	day	15000.00
0070	Generator 100 KVA/125 KVA	hour	300.00
0072	Cost for crane having capacity 50MT	day	8500.00
0086	Compressor, gun, rubber pipes & other accessories- hire charge of plant & machinery i/c necessary fuel	day	4000.00
0089	Hire charges of sand blasting equipment	day	400.00
0090	Hire charges of compressor	day	500.00
0091	Welding charges of shear key to existing reinforcement	each	5.00
0092	Hire charges of plant and Machinery that can inject 350 kg/day	day	200.00
0100	Bandhani	day	714.00
0101	Bhisti	day	714.00
0102	Blacksmith 1st class	day	784.00
0103	Blacksmith 2nd class	day	714.00
0111	Carpenter 1st class	day	784.00
0112	Carpenter 2nd class	day	714.00
0113	Chowkidar	day	645.00
0114	Beldar	day	645.00
0115	Coolie	day	645.00
0116	Fitter (grade 1)	day	784.00

Code No.	Description	Unit	Rate ₹
0117	Assistant Fitter or 2nd class Fitter	day	714.00
0119	Glazier	day	714.00
0122	Mason (for plaster of paris work) 1st class	day	784.00
0123	Mason (brick layer) 1st class	day	784.00
0124	Mason (brick layer) 2nd class	day	714.00
0125	Mason (for plain stone work) 2nd class	day	714.00
0126	Mason (for ornamental stone work) 1st class	day	784.00
0127	Driver for (Road roller, concrete mixer, Trucks etc.)	day	784.00
0128	Mate	day	714.00
0129	Sewer man	day	645.00
0130	Mistry	day	784.00
0131	Painter	day	714.00
0132	Rock Excavator	day	645.00
0133	Rock Breaker	day	645.00
0134	Rock Hole Driller	day	645.00
0135	Stone Chiseller	day	714.00
0138	Sprayer (for bitumen, tar etc.)	day	714.00
0139	Skilled Beldar (for floor rubbing etc.)	day	714.00
0141	White Washer	day	714.00
0154	Nozzel man/ gun man	day	784.00
0155*	Mason (average)	day	749.00
0156*	Carpenter (average)	day	749.00
0157	Operator (Pile/ Special machine)	day	784.00
0159	Skilled torch operator for laying tack	day	784.00
0160	Technician	day	853.00
0161	Helper (Technician)	day	645.00
0164	Security guard without gun (8 hours shift duty per day)	day	784.00
0165	Security guard with gun (8 hours shift duty per day)	day	853.00
0166	Installation charges for fixing of façade at all heights with extruded hollow clay/terracotta ventillated rain screen tiles	sqm	645.00
0167	Polisher 1st class	day	784.00
0168	Polisher 2nd class	day	714.00
0238	6 mm thick heavy duty fiber cement board	sqm	470.00
0239	8mm thick heavy duty fiber cement board	sqm	300.00
0240	9 mm thick heavy duty fiber cement board	sqm	625.00

Code No.	Description	Unit	Rate ₹
0241	12.5 mm thick Gypsum plaster board	sqm	170.00
0242	6 mm thick mulitipurpose cement bonded wood particle board conforming to IS: 14276	sqm	195.00
0244	Factory made light weight composite non asbestos fibre reinforced aerated cement sandwitched wall/roof panel (50mm thick). The outer face on both sides of the panels will be non asbestos fibre cement board (minimum 4mm thick) confirming to IS		
	14862:2000	sqm	634.00
0245	Factory made light weight non asbestos fibre reinforced aerated cement sandwitched wall/roof panel (75mm thick). The outer face on both sides of the panels will be non asbestos fibre cement board (minimum 5mm thick) confirming to IS 14862:2000	sqm	789.00
0246	2mm thick sim pad	each	10.00
0247	5mm thick sim pad	each	15.00
0248	10mm thick sim pad	each	25.00
0249	10 mm thick Cement Bonded particle board confirming to IS 14276	sqm	475.00
0367	Portland Cement (OPC-43 Grade)	tonne	5000.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	60.00
0764	Calcium silicate base compound for jointing calcium silicate tiles	kg	26.00
0982	Coarse sand (zone III)	cum	1500.00
0983	Fine sand (zone IV)	cum	900.00
0993	FY-1860 grade wire strands	quintal	5700.00
1012	Pregalvanized high tensile steel confirming to IS:277-199	kg	90.00
1021	Hard drawn steel wire fabric 75 x 25 mm mesh of weight not less than 7.75 kg/sqm	sqm	430.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	120.00
1027	Erection Bolts (Minimum 04 nos for each element)	each	25.00
1159	Stone dust	cum	1100.00
1190	Second class teak wood in planks	10 cudm	791.00
1208	Bitumen washer	100 Nos	30.00
1209	G.I. plain washer thick	100 Nos	35.00
1217	GI Wire mesh 100x100 mm	kg	75.00
1218	M.S. Shear stud	each	50.00
1223	Steel weld mesh	sqm	150.00
1235	Diesel	litre	80.87
1246	Silicon based Joint Sealant for Tiles	kg	160.00
1247	Rubber base Adhesive	kg	223.00

Code No.	Description	Unit	Rate ₹
1248	Epoxy based sealing Compound	kg	535.00
1249	Acrylic based sealing compound	kg	500.00
1250	Non woven reinforcement Tape	metre	0.14
1251	M-60 grade cemetitious grout (Non Shrink)	kg	28.00
1252	Cementitious polymer base adhesive confirming to EOTA ETAG 004 (European Technical Approval)	kg	34.00
1253	Polypropylene mechanical fastener with plastic pin confirming to EOTA ETAG 014 (European Technical Approval) having dia 10mm & L=200mm	each	30.00
1254	Moisture cure Polyurethane Foam	750 ml	600.00
1255	PVC Corner Bead of size 25mmx25mm fixed with glass fibre mesh (100mm x 100mm)	metre	90.00
1256	Cementitious polymer base coat confirming to EOTA ETAG 004 (European Technical Approval)	kg	40.00
1257	Fiberglass mesh with alkali-resistant coating having mass per unit area ?145 g/m2, mesh size: $3.9x4.0 \text{ mm} \pm 10\%$	sqm	75.00
1316	50mmx50mm hardwood plug	each	50.00
2201	Carriage of Bricks	1000 Nos	437.15
2203	Carriage of Coarse sand	cum	163.93
2204	Carriage of Timber	cum	187.35
2205	Carriage of Steel	tonne	145.72
2209	Carriage of Cement	tonne	145.72
2261	Carriage of Fine sand (1 part of badarpur sand: 2 parts jamuna sand)	cum	163.93
2358	Carriage of Bamboo Mat corrugated sheets and accessories	tonne	17700.00
2491	Pre laminated both side solid foam uPVC profile (45x20mm)	metre	134.00
2492	Solid foam uPVC sheet 20mm thick pre laminated on both side	sqm	2153.00
2493	PVC edge beading	metre	32.00
2494	Expandable fastner with plastic sleeve	each	6.00
2635	GI Screws of gauge 10, length 25 mm for fixing cement fibre board to C section	each	3.15
2636	GI Screws of gauge 10, length 45 mm for fixing cement fibre board to C section	each	3.10
2637	Vapour barrier	sqm	180.00
5744	EPS blocks	kg	150.00
5745	GI woven mesh of aperture 5.45 mm (with wire of dia 0.90 mm	kg	60.00
5746	SR adhesive for joining EPS blocks	kg	180.00

Code No.	Description	Unit	Rate ₹
5747	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/Chowkhat of frame size 45 x 70 mm	metre	375.00
5748	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/ Chowkhat of frame size 45 x 85 mm	metre	525.00
5749	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/ Chowkhat of frame size 50 x 100 mm	metre	540.00
5750	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/ Chowkhat of frame size 50 x 125 mm	metre	630.00
5751	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/ Chowkhat of frame size 65 x 100 mm	metre	650.00
5752	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/ Chowkhat of frame size 65 x 125 mm	metre	835.00
5753	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/ Chowkhat of frame size 65 x 150 mm	metre	1010.00
5754	Factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter 30mm thick	sqm	2800.00
5755	Factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter 35 mm thick	sqm	3250.00
5756	Factory made single extruded WPC (Wood Polymer Composite) solid plain white colored board of 18 mm thick	sqm	1750.00
5757	Factory made single extruded WPC (Wood Polymer Composite) solid plain white colored board of 25 mm thick	sqm	2360.00
5758	Factory made single extruded WPC (Wood Polymer Composite) solid plain white colored board of 6 mm thick	sqm	600.00
5759	Factory made single extruded WPC (Wood Polymer Composite) solid plain white colored board of 12 mm thick	sqm	1020.00
5760	Factory made 18 mm thick single extruded WPC (Wood Polymer Composite) solid plain white colour board Jali	sqm	2260.00
5761	PVC laminated foil of minimum thickness of 14 microns of approved design	sqm	125.00
5762	16mm thick extruded terracotta tiles of grey colour of size $300 \times 595 \text{mm}$	sqm	2152.80
5763	16mm thick extruded terracotta tiles of other than grey colour of size 300 x 595mm	sqm	1991.30

Code No.	Description	Unit	Rate ₹
5764	24mm thick extruded terracotta tiles of grey color of size 309x 1190 mm and length 1190mm	sqm	2475.00
5765	24mm thick extruded terracotta tiles of grey color of size 309x 1190 mm and length 1190mm	sqm	2260.00
5766	Melamine wood sealer	litre	190.00
5767	Melamine solvent/thinner	litre	120.00
5768	Sanding cloth 150 mm wide	metre	60.00
5769	Sandpapers of assorted gratings	Nos	22.00
5770	Melamine wood filler putty	kg	120.00
5771	Dhoti (worm out soft cotton cloth)	Nos	25.00
5772	Grease	kg	180.00
5773	Shutttering oil	litre	90.00
5774	GP-2 cementeous compound	kg	20.00
5775	Galavinised MS L-shape level adjuster of size 76x25x25x1.6 mm	each	15.00
5776	12x50 mm long dash fastener	each	35.00
5777	Galvanized MS Z Cleat of size 25 x 37 x 25 x 1.6 mm with precut hole on both 25 mm flange	each	12.00
5778	15mm tegular/butt edged without perforation plain/designer light weight calcium silicate Anti-Microbial Bio-Safe coated false ceiling tiles of size 595x595 mm	sqm	830.00
5779	Grinding buffers	day	250.00
7009	12.5 mm thick tapered edge plain gypsum plaster borad confirming to IS 2095 (Part 1):2011	sqm	140.00
7025	Self tapping pan head nickel coated mild steel screws of size 13 x 3.2 mm	1000 Nos	480.00
7026	Fibre joint tape 50 mm wide (90 metre) roll	each roll	150.00
7216	Self-Drilling/Self-Tapping Screws M-6 25mm long	each	3.00
7217	SS anchor Fasteners (RCC / Brick) – M-8x75mm/M-10x100mm	each	70.00
7218	MS Polymer Sealant Adhesive	litre	1200.00
7219	SS Double Clip at intermediate	each	7.00
7220	SS Single clip at top and bottom	each	4.00
7221	Self-Drilling/Self-Tapping Screws 5.5x25 mm long	each	3.00
7222	SS Anchor Fasteners (RCC / Brick) – M-8x100 mm	each	70.00
7224	Concrete hardener	kg	20.00
7225	Release agent	litre	200.00
7226	Sealer	kg	260.00
7227	PU resin top coat	kg	225.00

Code No.	Description	Unit	Rate ₹
7274	Glass wool 50 mm thick	sqm	200.00
7318	Plasticizer / super plasticizer	kg	29.00
7336	Lock Bar (E 250) - 10 thick MS Plate	kg	76.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	60.00
7368	GFRG Panel of 124 mm thick	sqm	845.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud: 48x34x 36 mm	metre	70.00
7383	12 mm dia 50 mm long wedge type expanded zinc alloy dash fastener	each	7.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	10.00
7776	Concrete paver block of grade M-30 made of C&D waste (60mm thickness)	sqm	295.00
7911	Chemical Rust Remover	litre	245.00
7912	Hire charges of Drill machine upto 30 mm dia	day	160.00
7913	Ероху	kg	585.00
7914	SBR Polymer	kg	175.00
7915	Woven PVC cloth	sqm	25.00
7916	Hire charges of sand blasting equipment	day	450.00
7917	Hire charges of compressure	day	650.00
7918	25mm thick cement concrete shotcrete(guniting) with compressor	sqm	110.00
7921	Adhesive chemical	ml	2.00
7922	Bit of drilling machine for Hole upto 30mm dia	each	500.00
7923	GI injection nipple 12mm dia, 75mm long	each	45.00
7924	Blowing compressed air for cleaning holes upto 30mm dia	each	10.00
7925	L shaped 100mm long, 10mm dia mild steel shear key	kg	80.00
7927	Acrylic Polymer chemical for cracks	kg	31.00
7929	Shear loops (6mm dia GI wire rope) (For vertical joints) 6 nos on each side	each	210.00
7930	dowel tubes (Corrugated GI pipes 50 to 80mm dia) (For horizontal joints)	metre	144.00
7931	Hooks for lifting (Alloy steel) having 2.5 tonne capacity	each	270.00
7996	Factory made EPS light weight composite sandwitched wall/ roof panel (50mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN		705.05
	14306:2009 of 5mm thick each.	sqm	735.25

Code No.	Description	Unit	Rate ₹
7997	Factory made EPS light weight composite sandwitched wall/ roof panel (60mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	845.00
7998	Factory made EPS light weight composite sandwitched wall/ roof panel (75mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	1074.46
7999	Factory made EPS light weight composite sandwitched wall/ roof panel (90mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	1268.00
8000	Factory made EPS light weight composite sandwitched wall/ roof panel (100mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	1512.37
8013	Factory made EPS Core wallpanel /roof panel sandwiched between two Engineered welded wire fabric mesh of 3 mm dia G.I. wire mesh, with 50 mm pitch in both the directions, kept at 120-135 mm gap and interconnected by the zig zag G.I. wire of 3 mm dia at alternate row by welding.	sqm	1650.00
8015	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3	sqm	20.00
8016	High Density expanded poly ethylene (EPE) Foam 1mm thick	sqm	10.00
8019	GI sheet 0.8 mm thick confirming to IS 277:1992	kg	90.00
8020	Factory made EPS Core wall panel /roof panel sandwiched between two Engineered welded wire fabric mesh of 3 mm dia G.I. wire mesh, with 50 mm pitch in both the directions, connected by G.I. wire of 3mm dia at alternate row by welding	sqm	600.00
8021	Bamboo wood Tile Flooring 14mm thick, minimum 1800 mm length and minimum 100 mm wide	sqm	3470.00
8022	Bamboo wood Quarter Round 18mm thick of size 1900mm x 18mm	metre	115.00
8023	Bamboo wood door reducer 14mm thick of size 1900mm x 44mm	metre	255.00

Code No.	Description	Unit	Rate ₹
8024	Bamboo wood Skirting 14mm thick of Size 1900mm x 85mm	metre	300.00
8025	Bamboo wood Tile Wall Cladding 10mm thick, minimum 1800 mm length and minimum 100 mm wide	sqm	3400.00
8026	Bamboo wood T-mold 14mm thick of size 1900mm x 44mm	metre	250.00
8027	Bamboo wood Threshold 14mm thick of size 1900mm x 44mm	metre	255.00
8028	Bamboo wood shutter of doors	10 cudm	1700.00
8029	Bamboo wood panelling (10mm thick)	10 cudm	1680.00
8030	Superior class Bamboo wood door frame 65 mm thick,	10 cudm	1675.00
8031	Aluminium sheets Grade 5052, 4 mm thick for wall panel/deck panel/WRB panel/Kicker Panels/door closing panels (for form work)	sqm	8500.00
8032	Aluminium sheets Grade 5052, 4 mm thick for Internal Corner/ Column Corners/ (for form work)	sqm	11500.00
8033	Aluminium sheets Grade 5052, 4 mm thick for Mid Soldier/ End soldier (for form work)	sqm	32000.00
8034	External corner 2050 mm	each	1400.00
8035	External corner 825 mm	each	590.00
8036	soldier tie 370mm	each	290.00
8037	Adjustable prop-2.0 x2.0 m	each	1200.00
8038	Pin-50	each	15.00
8039	Pin-127	each	55.00
8040	wedge	each	14.00
8041	wall tie-150 (355 mm)	each	45.00
8042	Polythene Sleeve 90 x 150mm	each	3.00
8043	Polythene Roll - 150mm Long.	each	6.00
8044	Vertical Soldier -1100mm	each	370.00
8045	Wall Attached Bracket 600x1000mm	each	990.00
8046	Allignment Pipe - 3.00 Mtr.	each	1000.00
8047	Allignment Bracket	each	480.00
8048	Tie Rod for Bracket - 500mm	each	120.00
8049	Anchor Wing Nut Ø100 mm	each	65.00
8050	Debit Pin - 250mm	each	60.00
8051	PVC Pipe Ø20mm - 150mm long	each	5.00
8052	PVC Cone	each	5.00
8053	Bolt+Nut - 16 x 80 mm	each	30.00
8054	Flat Washer Ø16, 3mm thik	each	5.00
8055	Bolt+Nut - 16 x 30 mm	each	18.00

Code No.	Description	Unit	Rate ₹
8056	Door spacer 45x45x5-1135mm Long	each	365.00
8057	Door spacer 45x45x5-1135mm Long	each	320.00
8144	Bamboo Mat corrugated sheets 3.5 to 4mm thick conforming to IS 15476:2004	sqm	2648.00
8145	Bamboo Mat Ridge cap 3.5 to 4mm thick conforming to IS 15476:2004	metre	2570.00
8146	3mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	1508.00
8147	4mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	1738.00
8148	6mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	2098.00
8149	9mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	2688.00
8150	12mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	3115.00
8210	Stainless steel screws 50 mm	100 Nos	300.00
8211	Stainless steel screws 40 mm	100 Nos	250.00
8212	Stainless steel screws 30 mm	100 Nos	230.00
8214	Stainless steel screws 20 mm	100 Nos	150.00
8215	Stainless steel butt hinges 125x64x1.9 mm IS: 12817 marked	10 Nos	310.00
8216	Stainless steel butt hinges 100x58x1.9 mm IS: 12817 marked	10 Nos	280.00
8217	Stainless steel butt hinges 75x47x1.8 mm IS: 12817 marked	10 Nos	180.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS: 12817 marked	10 Nos	150.00
8226	Concealed zinc coated hinges 19-20 mm thick with mounting plate	10 Nos	460.00
8514	40 mm long S.S screws with plastic rawl plugs	100	42.00
8515	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	42.00
8516	ZMB 60/equivalent	kg	110.00
8517	ZMB thinner	litre	220.00
8518	Zycoprime / equivalent	litre	230.00
8519	Zycosil / equivalent	litre	1800.00
8520	Elastobar / equivalent	kg	300.00
8552	Mineral fibre beveled tegular edged ceiling tiles 595 x595mm, 16 mm thick	sqm	835.00
8553	Mineral fibre beveled tegular edged ceiling tiles 595 x595mm, 16 mm thick with bio-block conforming to ISO 5 (class 100) specifications.	sqm	925.00
8554	Mineral fiber beveled tegular edged ceiling tiles 595 x595mm, 20 mm thick.	sqm	1045.00
8555	G.I main runner 15 x32 mm of 3000 mm length, 0.33 mm thick	each	190.00
8556	G.I cross-T 15 x32 mm of 1200 mm length, 0.33 mm thick	each	78.00
8557	G.I cross-T 15 x32 mm of 600 mm length, 0.33 mm thick	each	35.00

Code No.	Description	Unit	Rate ₹
8558	G.I hanger rod 6mm dia fully threaded upto 1000 mm length	each	26.00
8559	Stainless steel U Channel of size (50x25x2mm)	metre	160.00
8560	Non staining water resistant clear silicon	metre	70.00
8561	Extruded polystyrene rigid insulation board 50 mm thick	sqm	550.00
8562	Expanded Polystyrene insulation board 120 mm thick confirming to IS 4671-1984, Fire retardant property self-extinguishing type as per EN 13501-1	sqm	825.00
8563	15 mm thick, light weight, integral densified micro look edged,false ceiling tiles of size 595x595 mm.	sqm	725.00
8564	15 mm thick, light weight, fully perforated square/butt edge integral densified, false ceiling tiles of size 595x595 mm.	sqm	900.00
8565	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000mm length	each	27.00
8566	Powder coated steel section main-T ceiling sections 15x42x 0.40 mm (3000 mm long)	each	260.00
8567	Galvanized mild steel perimeter wall angle 22x19x0.40 mm (3000mm long)	each	125.00
8568	Powder coated Galvanised Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long)	each	105.00
8569	Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40mm (600 mm long)	each	50.00
8570	GI Main T ceiling section 30x25x0.3 mm (3 metre long)	each	210.00
8571	GI Perimeter wall angle 25x25x0.4 mm (3 metre long)	each	170.00
8572	GI Intermediate cross T section 25x25x0.3 mm (1.2 metre long)	each	80.00
8573	GI Intermediate cross T section 25x25x0.3 mm (0.6 metre long)	each	35.00
8579	Cold form light gauge Steel C-section of thickness 0.75mm i/c zink coating/sliting etc.	kg	140.00
8580	Wastage of cold form light gauge steel	kg	18.00
8581	12 mm thick micro tegular edged semi perforated GRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	550.00
8582	12 mm thick micro tegular edged fully perforated GRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	600.00
8583	10 mm thick square edge fully perforated GRG(Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	750.00
8587	Galvanized iron intermediate cross-T section 15x32x0.33 mm (600mm long)	each	37.00
8588	Galavanised MS hanger rod 6mm dia MS fully threaded up to 1000mm length	each	28.00

Code No.	Description	Unit	Rate ₹
8589	Calcium Silicate tegular edged celling tiles 595x595 mm and 15 mm thick on edges	sqm	685.00
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long)	each	140.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm $(3.00 \text{ metre long})$	each	90.00
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33mm (1.2 metre long)	each	45.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33mm (0.6 metre long)	each	22.00
8594	Galvanised Steel soffit cleat size 25x35x1.60 mm	each	4.50
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	1.00
8596	Galvanised MS 8mm outer diameter M-6 dash fastener 25mm long	each	35.00
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	710.00
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	800.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	220.00
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	110.00
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	130.00
8607	Spring T-connector	each	5.00
8608	C Carrier Connector	each	12.00
8609	C Suspension Clip	each	10.00
8610	Wire Coupling Clip	each	10.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	130.00
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	80.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long)	each	40.00
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long)	each	20.00
8615	Hanger rod 4 mm thick	each	10.00
8616	Adjustment clip 85x30x0.8 mm	each	6.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	5.00
8618	Dash fastener 6 mm dia 50 mm long	each	10.00
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	15.00
8658	Precast C&D waste concrete block	1000 Nos	25150.00
8659	Water proof ply 12 mm thick	sqm	525.00
8684	White sand stone gang saw cut 30 mm thick	sqm	560.00

Code No.	Description	Unit	Rate ₹
8761	Scaffolding net made of high density polyethylene UV stabilized having density 100 gm/sqm	sqm	22.00
8956	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 15 kN/m in the longitudinal and transverse direction	sqm	120.00
8957	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 20kN/m in the longitudinal and transverse direction	sqm	135.00
8958	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 30kN/m in the longitudinal and transverse direction	sqm	205.00
8959	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 40kN/m in the longitudinal and transverse direction	sqm	290.00
8960	Geosynthetic Drainage with two filtering nonwoven geotextiles having a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven geotextile of minimum thickness of 0.75mm having pores of 150 micron and tensile strength of 8.0 kN/m and having plane flow capacity of 2.1 L/(m.s) at hydraulic gradient of 1.0 & 20 kPa pressure, tensile strength of 18 kN/m, with mass per unit area of 740 gsm.	sqm	530.00
8961	Geosynthetic Drainage Composite having thermobonding a draining core - HDPE geonet comprises of two sets of parallel overlayed ribs integrally connected to have a rhomboidal shape with a polyethylene film and a nonwoven geotextile having mass per unit area 130 g/m2 and tensile strength of 8.0 kN/m having in plane flow capacity of 0.7 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 13.5 kN/m, with mass		000.00
8962	per unit area of 830 gsm, Synthetic Geogrid having Ultimate tensile strength- 100 kN/m	sqm	630.00 200.00
8963	Synthetic Geogrid Ultimate tensile strength- 150 kN/m	sqm sqm	210.00
8964	Synthetic Geogrid Ultimate tensile strength- 200 kN/m	sqm	340.00
8965	Synthetic Geogrid Ultimate tensile strength- 250 kN/m	sqm	350.00
8966	Synthetic Geogrid Ultimate tensile strength- 300kN/m	sqm	360.00
8967	Synthetic Geogrid Ultimate tensile strength- 350kN/m	sqm	370.00
8968	Synthetic Geogrid Ultimate tensile strength- 400kN/m	sqm	450.00
8969	Synthetic Geogrid Ultimate tensile strength- 500kN/m	sqm	500.00
8970	Synthetic Geogrid Ultimate tensile strength- 600kN/m	sqm	550.00
8971	Synthetic Geogrid Ultimate tensile strength- 700kN/m	sqm	650.00
8972	Synthetic Geogrid Ultimate tensile strength- 800kN/m	sqm	725.00
8973	Synthetic Geogrid Ultimate tensile strength- 900kN/m	sqm	850.00
8974	Synthetic Geogrid Ultimate tensile strength- 1000kN/m	sqm	950.00
8975	Synthetic Geogrid Ultimate tensile strength- 1100kN/m	sqm	1000.00

Code No.	Description	Unit	Rate ₹
8976	Synthetic Geogrid Ultimate tensile strength- 1200kN/m	sqm	1050.00
8977	Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676, 0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	sqm	600.00
8978	Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676, 0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	sqm	785.00
8979	Uni Axial Woven polyster geogrid of minimum tensile strength 40KN/m in the Longitudinal direction and 20 KN/m in the Trans verse direction.	sqm	139.00
8980	Uni Axial Woven polyster geogrid of minimum tensile strength 60KN/m in the Longitudinal direction and 20 KN/m in the Trans verse direction	sqm	161.00
8981	Uni Axial Woven polyster geogrid of minimum tensile strength 80 KN/m in the Longitudinal direction and 30 KN/m in the Trans verse direction.	sqm	205.00
8982	Uni Axial Woven polyster geogrid of minimum tensile strength 100KN/m in the Longitudinal direction and 30KN/m in the Trans verse direction.	sqm	237.00
8983	Uni Axial Woven polyster geogrid of minimum tensile strength 120KN/m in the Longitudinal direction and 30KN/m in the Trans verse direction.	sqm	254.00
8984	Uni Axial Woven polyster geogrid of minimum tensile strength 150KN/m in the Longitudinal direction and 30 KN/m in the Trans verse direction.	sqm	319.00
8985	Uni Axial Woven polyster geogrid of minimum tensile strength 200KN/m in the Longitudinal direction and 30 KN/m in the Trans verse direction.	sqm	375.00
8986	Uni Axial Woven polyster geogrid of minimum tensile strength 250KN/m in the Longitudinal direction and 30KN/m in the Trans verse direction.	sqm	458.00
8987	Uni Axial Woven polyster geogrid of minimum tensile strength 300KN/m in the Longitudinal direction and 30KN/m in the Trans verse direction.	sqm	529.00
8988	Bi Axial Woven polyster geogrid of minimum tensile strength 20KN/m in both Longitudinal and Transverse direction.	sqm	114.00
8989	Bi Axial Woven polyster geogrid of minimume tensile strength 40KN/m in both Longitudinal and Transverse direction.	sqm	173.00
8990	Bi Axial Woven polyster geogrid of minimum tensile strength 60KN/m in both Longitudinal and Transverse direction.	sqm	223.00
9977	Carriage	L.S.	2.12
9988	Carriage and sundries	L.S.	2.12
9999	Sundries	L.S.	2.12

26.0 NEW TECHNOLOGIES AND MATERIALS

Code No.	Description	Unit	Rate ₹
26.1	Providing & fixing in position Phenol bonded Bamboowood flooring with planks of sizes 14mm thick, minimum 1800mm length and minimum 100 mm wide, in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The flooring shall be fixed with tongue and groove interlocking system, with underlayment of 4mm thick expanded polyethylene foam sheets having density 40kg/cum, over prepared surface with necessary quarter round planks of size 1900mm x 18mm and door reducer of size 1900mm x 44mm, wherever required. The bamboowood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.	sqm	5289.05
26.2	Providing & fixing in position Phenol bonded Bamboo wood in wall skirting with planks of sizes 14mm thick, 1900mm length (minimum) and 85mm wide(minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The skirting shall be fixed with SS screws & rawl plugs, over underlayment of 4mm thick, expanded polyethylene foam sheets having 40kg/cum density over prepared surface. The bamboowood planks shall have minimum density of 1000Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.	sqm	5191.10
26.3	Providing & fixing in position Phenol bonded Bamboowood wall cladding at all height with planks of sizes 10mm thick, minimum 1800mm length and minimum 100 mm wide, in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC), with necessasary profiled edges fixed with 40mm SS screws 5 nos in each tile to frame work made of second class teak wood of size 20x15 mm in centre of each tile and bottom and top of work height, 40x15mm placed at ends of each tile. The cladding shall be laid over backlayment of 1.00 mm thick expanded polyethylene foam of density 40kg/cum in two layers, first layer on wall surface before fixing wooden frame and second layer on frame under cladding. The bamboowood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.	sqm	5609.20
26.4	Providing & fixing in position Phenol bonded Bamboowood panelled or panelled and glazed shutters for doors windows, clerestorey windows with pre-molded minimum 30mm thick planks, in approved colours, texture & finish. It shall have 10mm wide, 25mm deep grove to fit in panels. The bamboo wood shall have minimum density of 1000 Kg/cum, minimum Hardness 1000 Kgf. All styles and rails shall have profiled interlocking system locked in place by bamboo pins, all complete as per direction of Engineer in charge. (The panelling will be paid for separately).	sqm	5504.70

Code No.	Description	Unit	Rate ₹
26.5	Providing & fixing in position Phenol bonded Bamboo wood panelling of 10mm thick, in 25 to 40 mm thick panelled or panelled & glazed shutters for doors, windows, clerestorey windows, in approved colour, texture & finish. The bamboowood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. The panels shall have profiled interlocking system locked in place with bamboo pins all complete as per direction of the Engineer in-charge. (area of opening for panel inserts excluding portion inside grooves or rebates to be measured)	sqm	3609.00
26.6	Providing & fixing in position 65 mm thick factory made door frame of Phenol bonded Bamboo wood (superior class, interior use), in approved colour, texture and finish. The bamboo wood shall have minimum density of 1000 Kg/cum, minimum hardness 1000 Kgf. The door frame shall have tenon & mortise interlocking system, to be fixed to the wall with 100 mm size G.I screws all a complete as per direction of Engineer-in charge.	cudm	255.60
26.6A	Providing, erecting, laying and fixing in position in 3.5 to 4 mm thick bamboo mat corrugated sheet (BMCS) as per IS: 15476-2004 in roofing with self drilling screws along with EPDM washers complete or with galvanized iron J or L hooks 8mm dia G.I. plain and bitumen washers etc, all complete as per direction of Engineer-in-Charge.	sqm	5188.65
26.6B	Providing and fixing in position ridges of 3.5 to 4 mm thick bamboo mat ridge cap (BMRC) as per IS: 15476-2004 in roofing with self drilling screws along with EPDM washers complete or with galvanized iron J or L hooks 8mm dia G.I. plain and bitumen washers etc, all complete as per direction of Engineer-in-Charge.	metre	4152.45
26.6C	Providing and fixing at all height false ceiling of 4mm thick phenol bonded Bamboo Mat board (595x595mm) conforming to IS:13958-1994 including providing and fixing of frame work made of GI angle 25x25x0.4 mm thick all around suitably fixed to wall with the help of dash fastener and hanger frame (600x600 c/c) made GI slotted Tee having powder coating on bottom side (30x25x0.3 mm thick for main member & 25x25x0.3 mm for cross member) connected to ceiling with 2.64mm GI wire and anchor fastener at every junction and also including cost of making openings for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed all complete as per direction of Engineer-in-charge.	sqm	3375.50
26.6D	Providing and fixing at Bamboo Mat board conforming to IS:13958- 1994 for partition to frame by bucking or studding with screws etc. complete (Frames, backing or studding to be paid separately)		
	26.6D.1 3mm thickness	sqm	2443.15
	26.6D.2 4mm thickness	sqm	2800.10
	26.6D.3 6mm thickness	sqm	3339.65
	26.6D.4 9mm thickness	sqm	4236.20
	26.6D.5 12mm thickness	sqm	4869.90

Code No.	Description	Unit	Rate ₹
26.6E	Providing and fixing at all height wall panelling with phenol bonded Bamboo Mat board conforming to IS:13958-1994 including providing and fixing to frame work made of 50mm x 50mm hardwood plugs including cutting brick work and fixing in cement mortar and making good the wall etc. and also providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws all complete as per direction of Engineer-in-Charge.		
	26.6E.1 9mm thickness	sqm	4459.70
	26.6E.2 12mm thickness	sqm	5095.05
26.7	Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size between cavity wall, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM C 578 (measured as per IS 3346), compressive strength of > 350 kPa listed as per ASTM D 1621, density of 34-36 kg/m³ as per ASTM D 1622, water absorptions ? 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardent property as per DIN 4102, Part 1 of class B2 and as per ASTM E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the direction of Engineer-in-Charge.	sqm	850.65
26.8	Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size underdeck on ceiling surface, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM C 578 (measured as per IS 3346), compressive strength of > 350 kPa listed as per ASTM D 1621, density of 34-36 kg/cum as per ASTM D 1622, water absorptions? 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardent property as per DIN 4102, Part 1 of class B2 and as per ASTM E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the direction of Engineer-in-Charge.	sqm	922.30
26.9	Providing and fixing factory made solid Foam uPVC profile for kitchen cabinet frame (45 x 20 mm) of approved shade, quality and make. The profile shall be laminated on both sides, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and the exposed edges sealed with PVC edge beading of same shade and colour. The frame shall be fire retardent with necessary screw holding capacity. Frame shall be fixed to wall using Expendable Fastner with necesary stainless steel screws, all complete as per direction of Engineer-in-charge.	metre	399.90
26.10	Providing and fixing factory made Kitchen Cabinet Shutter/Partition 20 mm nominal thickness of approved shade, quality and make, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and laminated on both side by laminate Sheet/PVC foil lamination. The exposed edges shall be sealed with PVC edge beading of same shade and colour. The shutter shall be fire retardent		

Description	Unit	Rate ₹
having necessary screw holding capacity. Shutter shall be fixed to frame using approved hinges with necessary stainless steel screws, all complete as per direction of Engineer-in-charge.	sqm	4767.80
Providing and fixing concealed hinge of approved quality for 19-20mm thick door with stainless steel screws complete :	each	115.55
Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 15kN/m in the longitudinal and transverse direction, with 5kN/m and 7kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.	sqm	204.55
Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 20kN/m in the longitudinal and transverse direction, with 7kN/m and 14kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.		226.65
Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 30kN/m in the longitudinal and transverse direction, with 10.5kN/m and 21kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.	sqm	329.65
Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 40kN/m in the longitudinal and transverse direction, with 14kN/m and 28kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.	sqm	454.75
Supplying & laying of drainage composite for use behind walls, between two different fills, alongside drains of road, below concrete lining of canals etc. Geocomposite for planar drainage, realized by thermobonding a draining core in extruded monofilaments with two filtering nonwoven geotextiles that may also be working as separation or protecting layers. The draining three dimensional core will have a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven geotextile of minimum thickness of 0.75mm charecteristic opening size (O90) of 110 micron and tensile strength of 8.0 kN/m that will be working as separation or protecting layer, geocomposite having in plane flow capacity of 2.1 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 18 kN/m, with mass per unit area of 740 gsm, supplied in the form of roll for easy transportation to site of work as per detailed specification all complete as per directions of Engineer in charge.	sam	808.00
	having necessary screw holding capacity. Shutter shall be fixed to frame using approved hinges with necessary stainless steel screws, all complete as per direction of Engineer-in-charge. Providing and fixing concealed hinge of approved quality for 19-20mm thick door with stainless steel screws complete: Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 15kN/m in the longitudinal and transverse direction, with 5kN/m and 7kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening. Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 20kN/m in the longitudinal and transverse direction, with 7kN/m and 14kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening. Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 30kN/m in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening. Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 30kN/m in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening. Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 40kN/m in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening. Supplying	having necessary screw holding capacity. Shutter shall be fixed to frame using approved hinges with necessary stainless steel screws, all complete as per direction of Engineer-in-charge. Providing and fixing concealed hinge of approved quality for 19-20mm thick door with stainless steel screws complete: Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 15kN/m in the longitudinal and transverse direction, with 5kN/m and 7kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, inction efficiency not less than 95% and with 38mm X 38mm mesh opening. Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 42% and 5% strain respectively in the longitudinal and transverse direction, iunction efficiency not less than 95% and with 38mm X 38mm mesh opening. Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 30kN/m in the longitudinal and transverse direction, with 10.5kN/m and 21kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, with 14kN/m and 28kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, with 14kN/m and 28kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, with 14kN/m and 28kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, with 14kN/m and 28kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, with 14kN/m and 28kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, with 14kN/m and 28kN/m tensile strength at 2% and 5% strain

Code No.		Description	Unit	Rate ₹
26.17	between to lining of car geonet co connected a nonwov tensile str protecting / (m.s) at strength co easily acc and lifts, m	& laying of drainage composite for use behind walls, wo different fills, alongside drains of road, below concrete anals etc. having thermobonding a draining core - HDPE imprises of two sets of parallel overlayed ribs integrally do have a rhomboidal shape with a polyethylene film and en geotextile having mass per unit area 130 gsm and ength of 8.0 kN/m that will be working as separation or layer, geocomposite having in plane flow capacity of 0.7 L hydraulic gradient of 1.0 & 20 kPa pressure and tensile of 13.5 kN/m, with mass per unit area of 830 gsm, at cessible location including top and bottom, with all leads nanpower and machinery, materials, labour etc. complete irected by Engineer - In - Charge.	sqm	955.15
26.18	reinforcen 113, made with Minim	and laying high strength flexible geogrids (HSFG) as soil nent / basal reinforcement as per MORTH 3100 and IRC of high tenacity polyester core with polyethylene coating num Long Term Design Strength (LTDS) of more than 50% tensile strength at 30 degree Celcius corresponding to 12		
	26.18.1	Ultimate tensile strength- 100 kN/m	sqm	322.30
	26.18.2	Ultimate tensile strength- 150 kN/m	sqm	337.00
	26.18.3	Ultimate tensile strength- 200 kN/m	sqm	528.35
	26.18.4	Ultimate tensile strength- 250 kN/m	sqm	543.05
	26.18.5	Ultimate tensile strength- 300 kN/m	sqm	557.80
	26.18.6	Ultimate tensile strength- 350 kN/m	sqm	572.50
	26.18.7	Ultimate tensile strength- 400 kN/m	sqm	690.25
	26.18.8	Ultimate tensile strength- 500 kN/m	sqm	763.80
	26.18.9	Ultimate tensile strength- 600 kN/m	sqm	837.40
	26.18.10	Ultimate tensile strength- 700 kN/m	sqm	984.60
	26.18.11	Ultimate tensile strength- 800 kN/m	sqm	1094.95
	26.18.12	Ultimate tensile strength- 900 kN/m	sqm	1278.95
	26.18.13	Ultimate tensile strength- 1000 kN/m	sqm	1426.10
	26.18.14	Ultimate tensile strength- 1100 kN/m	sqm	1499.70
	26.18.15	Ultimate tensile strength- 1200 kN/m	sqm	1573.30
26.19	industrial t IS 1254, IS self tappin upto requir to size and and directi screws, s	at all heights, levels and locations Aluminium profile roughed sheet of Alloy 31500/31000/40800, conforming to 5 737, IS 2676. The sheet shall be fixed using self drilling/ g SS screws of size 5.5x65 mm with EPDM seal complete red pitch in horizontal, vertical or curved surfaces i/c cutting I shape where required as per specifications, detail drawings ion of Engineer-in-Charge. The rate shall be inclusive of all eal, ridge, labour, scaffolding, machinery for fixing and sealent where required etc. but excluding the cost of purlins, d trusses.		

Code No.		Description	Unit	Rate ₹
	26.19.1	0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	sqm	983.90
	26.19.2	0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	sqm	1247.40
26.22	calcium s tiles of Siz as per CF suspende iron section including mm of ler 1200 mm of length suspende @ 80 graffully threa adjuster of 25x37x25 pierce int fixed with mm of ler the help of long dry specificat Charge.	and fixing false ceiling at all heights with integral densified dilicate reinforced with fibre and natural filler false ceiling are 595x595mm of approved texture, design and patterns PWD Specification 2019, to be laid in true horizontal level ed on inter-locking metal T-Grid of hot dipped galvanised on of 0.33mmthick (galvanized @ 120 grams per sqm both sides)comprising of main-T runners of size 24x38 light 3000 mm,cross - T of size 24x32 mm of length and secondaryintermediate cross-T of size 24x32 mm 600mm to formgrid module of size 600 x 600 mm, and from ceiling usinggalvanised mild steel items (galvanizing ms per sqm) i.e. 12x50 mm long dash fasteners, 6 mm dia aded hanger rod upto 1000 mm length and L-shape level of size 76x25x25x1.6 mm fixed with grid and Z cleat of size 6x1.6mm thick with precut hole on both 25mm flange to 12x50mm or even bigger size dash fastener if require, Glavanised iron perimeter wall angle or size 24x24x0.40 light 3000 mm to be fixed on periphey wall / partition with of plastic rawl plugs at 450mm center to center and 40 mm wall S.S screws. The workshall be carried out as per cions, drawing and as per directionsof the Engineer-in-		
	26.22.1	With 15 mm thick Tegular edged light weight calcium sliciate false ceiling tiles	sqm	1693.65
	26.22.2	With 15 mm thick tegular/butt edged without perforation plain/designer light weight calcium silicate Anti-Microbial Bio-Safe coated false ceiling tiles Confirming to JIS-Z2801 and ASTM G-21	sqm	1820.05
26.23	calcium s tiles of Siz having NF IS 8225:1 as per BS humidity as per AS locking m section of webbed v main-T r size 15x42 T of size 600 x 600	and fixing false ceiling at all heights with integral densified dilicate reinforced with fibre and natural filler false ceiling at 595x595 mm of approved texture, design and patterns are fixed for the first false ceiling at 595x595 mm of approved texture, design and patterns are fixed for false for false fixed fi	71	

Code No.	Description	Unit	Rate ₹
	outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.		
	26.23.1 With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles	sqm	2055.65
26.24	Providing and fixing in position wall panelling at all heights with integral densified calcium silicate panels/tiles of size 595 x 595mm, having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity <0.043 W/m K as per ASTM 518:1991, comprising of a frame made from especially fabricated galvanised mild steel sheet 0.50 mm thick pressed section (galvanizing @120 grams per sqm including both sides) i.e.vertical studs of size 48 x 34 x 36 mm are placed at 600mm center to center in a floor and ceiling channel section of size 50 x 32m fixed to the floor and soffit at 600mm centers using 12mm dia,50mm long wedge type expanded zinc alloy dash fastner with 10mm bolt. This same channel is then to be fixed in horiziontal direction at 600mm center to center so as to form a grid of 600mm x 600mm. Glasswool of 50mm thickness is then to be inserted in the slots and finally calcium silicate non combustible panels/tiles are to be screw fixed with self tapping pan head nickel coated mild steel screws of size 13 x 3.2mm on to this grid leaving an even groove of 1 mm between the panels. The joints between the panels are to be duly jointed and finished using recommended jointing calcium silicate based compound and fiber joint tape roll 50mm wide (90 metre) roll and two coats of primer suitable for panelling as per manufacturer's specification as per direction of Engineer-in-Charge all complete.		
	26.24.1 With 15 mm thick fully perforated square/butt edge light weight calcium silicate panels/ tiles	sqm	2748.85
26.25	Providing and fixing 15 mm thick false ceiling tiles at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level on the existing frame work consisting of T-sections and Lsections suitably fixed according to tile size as per direction of Engineer-in-charge.	sqm	1419.00
26.26	Providing & fixing false ceiling at all heights with GRG (Glass Fibre Reinforced Gypsum) false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC0.50 to 0.75 as per IS 8225:1987,		

Code No.		Description	Unit	Rate ₹
	85% (mini- locking mathick (gal- comprising cross - Tointermedia module of mild steel 8 mm out hanger ro 85x25x2 romm of len help of pla dry wall	coustible as per BS 476 (part 4)-1970 and light reflectance of fimum) to be laid in true horizontal level suspended on interetal T-Grid of hot dipped galvanised iron section of 0.33mm (vanized @ 120 grams per sqm including both sides) g of main-T runners of size 15x32 mm of length 3000 mm, of size 15x32 mm of length 1200 mm and secondary atte cross-T of size 15x32 mm of length 600mm to form grid size 600 x 600 mm, suspended from ceiling using galvanised items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, are diameter M-6 dash fasteners, 6 mm dia fully threaded d upto 1000 mm length and L-shape level adjuster of size mm. Galvanised iron perimeter wall angle of size 24x24x0.40 gth 3000 mm to be fixed on periphery wall / partition with the astic rawl plugs at 450 mm center to center and 40 mm long wood screws. The work shall be carried out as per ons, drawing and as per directions of the Engineer-in-Charge.		
	26.26.1	With semi perforated 12 mm thick micro tegular edged GRG false ceiling tiles.	sqm	1690.45
	26.26.2	With fully perforated 12 mm thick micro tegular edged or 10 mm thick square edged GRG false ceiling tiles.	sqm	1760.70
26.27	595X595r have Hun Thermal (per (BS 47 T-Grid of h (galvanize length 30 secondar) to form gri galvanize outer diar hanger ro 85x25x2 The syste GI perime thick shee mm centre bottom po shall be p work shal directions	and fixing mineral fibre false ceiling tiles at all heights of size mm of approved texture, design and pattern. The tiles should hidity Resistance (RH) of 99%, Light Reflectance? 85%, Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as 76 pt - 6 &7) in true horizontal level suspended on interlocking not dipped all round galvanized iron section of 0.33 mm thicked @120 gsm) comprising of main T runners of 15x32 mm of 00 mm, cross T of size 15x32mm of length 1200 mm and y intermediate cross T of size 15x32 mm of length 600 mm d module of size 600x600 mm suspended from ceiling using d mild steel item (galvanised@80gsm) 50 mm long 8mm meter M-6 dash fasteners, 6 mm diameter fully threaded d up to 1000 mm length and L-shape level adjuster of size mm, spaced at 1200 mm centre to centre along main 'T'. If should rest on periphery walls /partitions with the help of eter wall angle of size24x24X3000 mm made of 0.40 mm et, to be fixed to the wall with help of plastic rawl plug at 450 et to centre & 40 mm long dry wall S.S. screws. The exposed ortion of all T-sections used in false ceiling support system are-painted with polyester baked paint, for all heights. The I be carried out as per specifications, drawings and as per of the engineer-in-charge.		
	26.27.1	With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6	sqm	2069.90
	26.27.2	With 20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7)	sqm	2362.10
	26.27.3	With 16 mm thick beveled tegular mineral fibre Anti- microbial false ceiling tile confirming to ISO 5 (class 100) specifications	sqm	2189.55

Code No.		Description	Unit	Rate ₹
	REPAIR A	ND REHABILITATION ITEMS		
26.28	columns e percussion making so concrete	of unsound/weak concrete material from slabs, beams, etc. with manual Chisel and/ or by standard power driven in type or of approved make including tapering of all edges, quare shoulders of cavities including cleaning the exposed surface and reinforcement with wire brushes etc. and if debris for all lead and lifts all complete as per direction of in-Charge		
	26.28.1	75mm average thickness	sqm	311.95
	26.28.2	50mm average thickness	sqm	211.55
	26.28.3	25 mm average thickness	sqm	104.60
26.29	it a total remover of particles at washing w	of reinforcement from rust from the reinforcing bars to give rust free steel surface by using alkaline chemical rust of approved make with paint brush and removing loose fter 24 hours of its application with wire brush and thoroughly with water and allowing it to dry, all complete as per direction er-In-Charge.		
	26.29.1	Bars upto 12 mm diameter	metre	6.65
	26.29.2	Bars above 12 mm diameter	metre	13.35
26.30	power driv in RCC be sunshade epoxy resi	entiable holes in reinforced or plain cement concrete with en drill machine to a minimum depth of 100mm upto 200mm eams, lintels, columns and slabs to introduce steel bars for s/balconies including fixing the steel bars in position using in anchor grout of approved make but excluding the cost of ment, all complete as per direction of Engineer-In-Charge.		
	26.30.1	Upto and including 12mm dia.	each	121.95
26.31	on chippe	mixing and applying bonding coat of approved adhesive of portion of RCC as per specifications and direction of In-charge complete in all respect.		
	26.31.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved		
		polymer	sqm	117.75
	26.31.2	Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	sqm	390.45
26.32	modified (coarse sa	mixing and applying SBR polymer (of approved make) Cement mortar in proportion of 1:4 (1 cement: 4 graded nd with polymer minimum 2% by wt. of cement used) as ications and directions of Engineer-in-charge.		
	shall be d Payment thas been sounding	asurement and payment: The pre-measurement of thickness lone just after the surface preparation is completed and under this item shall be made only after proper wet curing done and surface has been satisfactorily evaluated by / tapping with a blunt metal instrument and/or the 75mm crushing strength at the end of 28 days to be not less than m2).		

No.		Description	Unit	Rate ₹
	26.32.1	12 mm average thickness.	sqm	333.00
	26.32.2	25 mm average thickness in 2 layers.	sqm	510.50
	26.32.3	50 mm average thickness in 3 layers.	sqm	1020.95
26.33	minimum of concrete compress and grade	, mixing and applying SBR polymer (of approved make @ 2% by wt. of cement used) modified plain/reinforced cement for structural members having minimum characteristic sive strength [with ordinary portland cement, coarse sand ed stone aggregate of 10mm maximum size in proportion sign criteria] with specified average thickness.		
	include the Plasticise shall exclu and shutte be made o	tes shall be for finished surface area of concrete and shall e cost of labour, concrete and appropriate approved Superr for rendering concrete as flowable and SBR polymer but ude cost of reinforcement, bond coat, Shear Keys, centering ering, strutting, propping etc (Payment under this item shall only after proper wet curing has been done and surface has sfactorily evaluated by sounding/tapping with a blunt metal att)		
	26.33.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	567.25
	26.33.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	850.85
26.34	minimum for the str with con compress and grade as per de	and laying SBR Polymer modified (of approved make @ 2% by wt. of cement used) plain/reinforced concrete jacket ructural members e.g. columns, pillars, piers, beams etc crete having the specified minimum characteristic sive strength [with ordinary portland cement, coarse sand ed stone aggregate of 10mm maximum size in proportion esign criteria] with specified average thickness all-round ore of RCC member.		
	include the pouring of approved compact reinforcer strutting, p after prop	tes shall be for finished surface area of concrete and shall e cost of making holes in existing RCC slab, if required, for concrete in shuttering mould of jacket and appropriate Super-Plasticiser for rendering concrete as flowable self ing and SBR polymer but shall exclude cost of ment, bond coat, Shear Keys, centering and shuttering, propping etc (Payment under this item shall be made only per wet curing has been done and surface has been wrily evaluated by sounding/tapping with a blunt metal att)		
	26.34.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	567.25
	26.34.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	850.85
	26.34.3	100mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	1134.45

Code No.		Description	Unit	Rate ₹
26.35	by the m masonry b	and injecting approved grout in proportion recommended anufacturer into cracks/honey-comb area of concrete/by suitable gun/pump at required pressure including cutting after curing etc. complete as per directions of Engineer-in-		
	(The payn grout injed	nent shall be made on the basis of actual weight of approved cted.)		
	26.35.1	Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/RCC work	kg	102.85
	26.35.2	Stirrer mixed SBR Polymer (of approved make) modified Cement slurry made with Shrinkage Compensating Cement in concrete/RCC work.	kg	106.70
	26.35.3	Epoxy injection grout in concrete/RCC work of approved make	kg	793.25
26.36	screens i	, erecting, maintaining and removing temporary protective made out of specified fabric with all necessary fixing ent to ensure that it remains in position for the work duration ed by the Engineer-in-charge.		
	26.36.1	Wooven PVC cloth	sqm	45.70
26.37	loose and by and inc	of exposed concrete surface of sticking material including foreign material by sand blasting with coarse sand followed cluding cleaning with oil free air blast as per direction of in charge.	sqm	370.15
26.38	approved character coarse sa in proport	ng R.C.C. columns, beams and slabs etc. in layers with design mix concrete having the specified minimum istic compressive strength [with ordinary portland cement, and and graded stone aggregate of 10 mm maximum size tion as per design criteria] including the cost of centering ering at edges and corners etc. as directed by Engineer-		
	The levell under this done and	es shall include the providing necessary ground wires etc. ing gauges, if used, shall be paid for separately. Payment item shall be made only after proper wet curing has been a surface has been satisfactorily evaluated by sounding/ with a blunt metal instrument.		
	26.38.1	25mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	678.15
	26.38.2	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	1073.45
	26.38.3	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	1530.30

Code No.	Description	Unit	Rate ₹
26.39	Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diametre (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-In-Charge.	each	202.70
26.40	Providing and fixing hard drawn steel wire fabric of size 75 x25 mm mesh or other suitable size wire mesh to be fixed & firmly anchored to the concrete surface by means of "L" shaped mild steel shear key welded with existing reinforcement including the cost of materials, labour, tool & plants as approved by Engineer-in-charge.	sqm	820.80
	NEW TECHNOLOGY ITEMS		
26.41	Designing, providing, installing and fixing factory finished custom designed cold form Light Gauge Steel Framed super structure comprising of steel wall panel, trusses, purlins etc manufactured out of minimum 0.75 mm thick steel sheet as per design requirements. The steel sheet shall be galvanized (AZ-150gms Aluminium Zinc Alloy coated steel having minimum yield strength 300-550 Mpa) conforming to AISI specifications and IBC 2009 for cold formed steel framing and construction and also as per IS: 875-1987, ISO 800-1984 and IS:801-1975. The wind load shall be as per provisions of IS 875 (part -III). LGSFS frame shall be designed as per IS: 801 using commercially available software such as Frame CAD Pro-11.7/ STAAD PRO-V8i/ArchitekV2.5.16/ Revit architecture-2011 or equivalent. Proper usage of Connection Accessories like Heavy Duty Tension Ties, Light Duty Hold-ons, Twist Straps (to connect truss with wall frames), Strong Tie, Tie Rod, H-Brackets, Boxing Sections, L-Shaped Angles for better structural stability. The framing section shall be cold form C-type having minimum web depth 89 mm x 39mm flange x 11mm lip in required length as per structural design requirement duly punched with dimple/slot at required locations as per approved drawings. The slots will be along centre line of webs and shall be spaced minimum 250mm away from both ends of the member. The frame can be supplied in panelized or knock down condition in specific dimensions and fastened with screws extending through the steel beyond by minimum of three exposed threads. All self drilling tapping screws for joining the members shall have a Type II coating in accordance with ASTM B633(13) or equivalent corrosion protection of gauge 10 & 12, TPI 16 & 8 of length 20mm. The frames shall be fixed to RCC slab or Tie beam over Neoprene rubber using self expanding carbon steel anchor bolt of dia as per approved drawings. design subject to minimum 12mm diameter and 121mm length conforming to AISI 304 and 316 at 500mm c/c with minimum embedment of 100mm in RCC		
	transportation, installation and all required fixing arrangement at site as described above.	kg	235.70

Code No.		Description	Unit	Rate ₹
26.42	frame wo fixed with approved grooves see fixed in head of 1 from 25 to board fixed drilling / to proper ta epoxy and	and fixing of external wall system on Light gauge steel rk with outer face cement boards as per standard sizes a self- drilling / taping screws / fasteners @ 60cm c/c of make. A groove of 2 mm to 3mm shall be maintained and shall be sealed with silicon based sealant. The board shall in a staggered pattern. Screws shall be of counter sunk rib .60mm to 4 mm thick or 8 to 10 gauge of length varying of 45 mm and. Internal face 12.5 mm thick gypsum plaster and on cement board as per standard sizes fixed with self-aping screws / fasteners @ 60cm c/c of approved make, ping and jointing to be done using fiber mesh tape and diacrylic based jointing compound for seamless finish.(cost work to be paid for separately)		
	26.42.1	Outer face: Outer face having 6mm thick fiber cement board fixed on 9mm thick fiber cement board, Type A, as per IS:14862:2000 (high pressure steam cured) Inner Face: 12.5 mm thick gypsum plaster board conforming to IS 2095:2011 fixed on 8 mm thick fibre cement board confirming to IS:14862:2000 of type B (High pressure steam cured)	sqm	3485.20
	26.42.2	Outer face: Outer face having 8 mm thick cement bonded particle Board fixed on 10 mm thick cement bonded particle board. (Termite, Fire and Moisture Resistance) as per IS 14276:1995. Inner face:-12.5 mm thick gypsum plaster board conforming to IS 2095:2011 fixed on 8 mm thick cement bonded particle board (Termite, fire and moisture resistance) confirming to IS:14276:1995)	sqm	2764.05
26.43	work with 2095:201 self-drilling Screws s or 8 to 10 and jointing based join	and fixing internal wall panels on Light gauge steel frame in 12.5mm thick gypsum plaster board conforming IS 1 fixed on cement board as per standard sizes fixed with g/taping screws/fasteners @ 60cm c/c of approved make, hall be of counter sunk rib head of 1.60mm to 4 mm thick gauge of length varying from 25 to 45 mm. Proper taping ing to be done using fiber mesh tape and epoxy and acrylic inting compound for seamless finish. (cost of frame work to or separately		
	26.43.1	Cement Fiber Board 8 mm thick as per IS 14862:2000 of type B (High pressure Steam Cured)	sqm	2170.40
	26.43.2	Cement Bonded particle board 8 mm (Termite, Fire & Moisture Resistance), as per IS:14276: 1995	sqm	1920.20
26.44	undernea	and fixing in all exterior face panels breathable vapour barrier ath the cement fiber board as per National Building Code uplete as per direction of Engineer-in-charge.	sqm	304.90
26.45	board as Screws s	g and installation of moisture resistant/fire resistant cement per standard sizes fixed with self-drilling / taping screws. hall be of counter sunk rib head of 1.60mm to 4 mm thick gauge of length varying from 25 to 45 mm.		

Code No.		Description	Unit	Rate ₹
	26.45.1	Cement Fiber Board 6 mm thick as per IS 14862:2000 of type B (High pressure Steam Cured)	sqm	1226.20
	26.45.2	Cement Bonded particle board 8 mm thick (Termite, Fire & Moisture Resistance), as per IS:14276 : 1995	sqm	850.90
26.46	Polystyre sandwich mesh dul fabric me pitch in b 120-135 r at alterna The EPS than 20 k finished b cement: 3 size upto etc at a prinished win all responses	and fixing in position, 200 mm thick factory made Expanded ne Core (EPS Core) wall panels consisting of EPS core led between two Engineered sheets of welded wire fabric by finished with shortcrete materials on outer faces. The sh shall be made of 3 mm dia G.I. wire mesh with 50 mm oth the directions and on both faces of the wall, kept at mm gap and connected by the zig zag G.I. wire of 3 mm dia the row by welding (at an angle ranging from 50-70 degree). It core shall consist of 100 mm thick EPS of density not less reg/per cum. Both the outer faces of the panel shall be row applying the layer of 50 mm thick cement mortar 1:3 {1 a coarse sand (not having more than 40% stone chips of 6 mm)} À with the help of shotcreting/guniting equipment ressure not less than 1 bar (100Kn/m2) and both surfaces with trowel. Fixing operations of wall panels shall be completed ect as per drawings and specifications and under the overall of the Engineer-in-charge.	sqm	3957.45
26.47	Polystyre G.I. wire r faces of r zag G.I. v ranging fr thick EPS of the par cement m 40% ston equipmer surface fir and finish 1:1.5:3 (7 mm nomicomplete	and fixing in position, 230mm thick factory made Expanded ne Core (EPS Core) roof/floor panels made of 3 mm dia mesh with 50 mm pitch in both the directions and on both panel, kept at 120-135 mm gap and connected by the zig wire of 3 mm dia at alternate row by welding (at an angle rom 50-70 degree). The EPS core shall consist of 100 mm of of density not less than 20kg/ per cum. The bottom side nel shall be finished by applying a layer of 60-65 mm thick nortar 1: 3 {1 cement: 3 coarse sand (not having more than e chips of size upto 6 mm)} À with the help of shotcreting not etc at a pressure of not less than 1 bar (100Kn/m2) and hished with trowel. The top face of the panel shall be provided ned by applying 70-75 mm thick layer of cement concrete a cement: 1.5 coarse sand: 3 graded stone aggregate 20 final size). Fixing operations of roof/floor panels shall be din all respect as per drawings and specifications and overall direction of the Engineer-in-charge.	sqm	4286.85
26.48	Providing construct aluninium (Type-6). internal s corner et for soffit I deck com soffit leng	and fixing of customized Aluminium form work for monolithic ion on RCC members with repetitive usage made up of sheets/plates of minimum 4mm thickness and grade 6061. The formwork comprises of (a) wall panel, roccker, kickerand offit corner, external soffit corner, external corner, internal co., (b) beam components i.e, beam side panel prop head beam, beams soffit panel, beam soffit bulk head and (c) ponents i.e. deck panel, deck prop, prop length, deck mid, gth, deck beam bar. The panels are held in position by a n and wedge system that passes thorugh holes in the out		

Code No.	Description	Unit	Rate ₹
	side rib of each panel. The tolerance of finished panel shall not be less than (-1 mm) and shall conform to IS 14987-1999. Pins and wedges to be made of high grade hot dipped galvansied mild steel. This form work also comprises of M.S. angle iron, "Z" shaped brackets braced diagonally at 0.90 to 1.00 mtr. centre to centre on extrenal wall face just the level below on which to lay M.S. square tube panels (Challis) and guard railing supports to form working platform and 40 mm dia G.I. telescopic adjustable props to support deck formwork and beam soffit panels including de-shuttering the formwork from odd/even level to be shifted/lifted to next alterante odd/even level before which the points and shuttering surface to be thoroughly cleaned, pins greasing and shuttering surface oiling propoerly before fixing all complete including sealing of gap between kicker plates of wall panel and floors (if any) as per design of formwork as provided by shuttering supplier and as per direction of the Engineer-in-charge including filling and finishing the holes of varied sizes and shapes (left by keys/pins of aluminium form work shuttering while deshuttering) with GP-2 cementeous polymer compound mixed with water in ratio prescribed by manufacturer to form consistent workable dough for pushing it in the holes upto full depth of wall using appropriate tools and finishing smooth all complete as per directions of the Engineer-in-charge.	sqm	924.60
26.49	Providing and fixing in position factory made EPS cement sandwich wall/roof/floor light weight solid core panels made of core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum) adhesive, cement, sand, flyash and other bonding material in mortar state processed to form in a preset mould. The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each. Panel shall be laid on 6mm thick cement mortar (1 cement: 2 fine sand) mixed with chemical adhesive of 0.5kg per 50kg of cement or shall be preferably fixed into 'C' channel made of 1.2mm thick MS plate screwed/fastenened to the slab/column/beam etc. The panel shall fixed vertically with tongue and groove joint and horizontally locked with steel bar between each other and floors and filled with cement mortar and adhesive. Panels should be used as floor & roofing with additional structural support, steel or RCC depending upon the design. All the operation shall be completed in all respect as per drawings, Manufacturers specifications and under the overall direction of Engineer-in-Charge (Cost of all the material is included except "C channel" which will be paid seperately).		
	26.49.1 Non load bearing panels 50mm thick of required size	sqm	1182.15
	26.49.2 Non load bearing panels 60mm thick of required size	sqm	1336.30
	26.49.3 Non load bearing panels 75mm thick of required size	sqm	1658.70
	26.49.4 Non load bearing panels 90mm thick of required size	sqm	1930.55
	26.49.5 Non load bearing panels 100mm thick of required size	sqm	2273.85

Code No.		Description	Unit	Rate ₹
26.50	reinforced core pane OPC cem in mortar outer face cement be are install thick of reit to floor at fasteners joint with exposed sexposed sexposed at RCC dependent of the overal	and fixing in position factory made non asbestos fibre a derated cement sandwich wall/roof/floor light weight solid als made of light weight cement concrete core composed of tent, pulverized flyash, quick lime, cotton pulp & Gypsum state mixed with aeration agent in a preset mould. The end on both sides of the panels will be non asbestos fibre and confirming to IS 14862:2000. These solid wall panels ed using Galvanized iron steel tracks/C channel of 1mm quired sizes as recommended by manufacturer's and fixed and RCC soffit in plumb to each other with steel screw/s. The panel shall be fixed vertically with tongue & groove cement based polymer modified jointing compound. The surface finished with fibre mesh/glass fibre tape with polymer anting compound having superior flexibility. Panels should as floor & roofing with additional structural support, steel or ending upon the design. All the operation shall be completed act as per drawings, Manufacturers specifications and under I direction of Engineer-in-Charge (Cost of all the material is except "tracks/C channel" which will be paid separately).		
	26.50.1	Non load bearing panels 50mm thick of required size (minimum 4mm thick fibre cement board)	sqm	1357.75
	26.50.2	Non load bearing panels 75mm thick of required size (minimum 5mm thick fibre cement board)	sqm	1575.50
26.51	with modu plant in the sizes in co- and ventile architects and loaded Cost of pa jaws, cost upto 300k plant to co- lift/ crane.	of standard quality GFRG panel of 124 mm thickness ular cavities purchased from GFRG panel manufacturing ne country, cut to required wall sizes and floor/ roof slab correct length and height, including cutting of door, window lator opening as per the cutting drawing prepared by a /design engineers for the construction of GFRG building ed in stillages for transportation to the construction site. anel includes security deposits, hire charges of stillages & tof transportation in trucks/ lorries without any damages arms including all leads and lifts from GFRG manufacturing construction site and unloading at site using suitable fork (Payment shall be made on the basis of area of one side without reduction of opening of door/ window / ventilator).	sqm	1309.05
26.52	as per ins and struct beam/GF support to Reinforce water rep Zycosil/ed plinth bea panel & pli in charge.	of GFRG Panels in walls in all floors using suitable crane structions of Engineer-in-Charge, as per cutting drawings ural drawings, in perfect line and plumb, above RCC plinth RG panel below and provide necessary lateral/ slanting between the wall panel in safe position, providing & tieing of ement as per structural drawings and applying a coat of ellant coating Zycosil/equivalent or equivalent product (1 puivalent compound: 10 water) to saturation level over RCC in the provide water proofing treatment to joint between wall inth beam as per the guide lines / instruction by the engineer (Cost of reinforcement, water proofing of walls and plinth RG panel below joints and installation of door/ window frames		

Code	Description	Unit	Rate ₹
No.	before filling of concrete shall be paid separately). The rate quoted shall include making provision for laying of lintels, beams, sunshades, staircase beams, lofts, plumbing work, electrical conduits and any structural insertion etc., as per the drawing and direction of the engineer in charge. The payment shall be made based on the actual exposed area (one side only) of the panel. The work shall be carried out as per the Special Conditions For Glass Fibre Reinforced Gypsum (GFRG) Structures mentioned in NIT.Note: i) When cutting panel, "A" side is to be for outside or external surface of respective external wall and B side is to be for internal surface of wall ii) Erection of panel is to be with reference to both building plan & cutting drawing by following notational mark indicated in the cutting drawing as well as notional mark written on each panel cut as per cutting drawing	sqm	234.80
26.53	Filling of empty cavities (as shown in the structural design drawing) with quarry dust mixed with 5% cement (by volume). After initial infill of 50 mm thick with M25 concrete at base/bottom of cavities to seal off, infill wall panel cavities in 3 stages as detailed below, (i) 1st pour / infill to be limited to 0.3 to 0.50 m height from bottom of the panel.(ii) 2nd Pour/ infill: infilling shall be done only after 90 minutes interval between successive pours. The maximum height of infill shall be restricted to 1.5m height or up to the top level of door / window.(iii) 3rd pour/infill: After an interval of 90 minutes of second pour, infill or pour the balance height up to the bottom of embedded RCC tie beam. Pour enough water just required to dampen the dry mix enough to form cake form after each stage.(cost of laying M25 concrete shall be paid separately)(If any rain falls in between any stages of concrete pour, make sure to cover the panel top to prevent ingress of water or water falling into the cavities. In case of water collection over the concrete inside the panel, drill 10mm hole in GFRG panel immediately above concrete filled level to drain out water before pour/in-fill of balance concreting)	cum	2375.90
26.54	Laying of GFRG panel as roof / floor slab panel and staircase panel using suitable crane as per instructions of Engineer-in-Charge, including providing support system with 25mm x 300mm-400 mm wide plywood, as runner with proper prop below proposed micro beams including(a) Cutting of top flange of panel to 180 mm wide (leaving 25mm projection on either side) to provide RCC embedded micro beam as per cutting drawings and structural drawings. (b) Reinforcement for micro beams and tie beams to be provided in position with proper anchorage as per structural drawings. (c) Provision for Electrical cabling, fan hooks and laying of pipes for plumbing work. (d) Concreting of Tie beam, micro beam and top of GFRG panels (50 mm thick) with M-25 cement concrete mix using coarse aggregate of size less than 20 mm including laying of 10 gauge 100x100 size weld mesh with 25 mm effective cover from the panel top.	sqm	238.45
26.55	Supplying and fixing 10 Gauge weld mesh of size 100mm x 100 mm for floor/roof slab concrete screed over the micro beams as reinforcement. The weld mesh shall be fixed as per drawing.	sqm	236.00

Description	Unit	Rate ₹
Application of ZMB 60/equivalent solution (100 Kg ZMB 60/equivalent, 1 litre ZMB Nano Thinner, 20 litre water & 1 Litre Zycoprime/equivalent = 122 litre/kg) over already applied coat of Zycosil/equivalent & Zycoprime/equivalent solution on the top of all the RCC plinth beams by brush/spray coat before erection of GFRG over RCC plinth beams in GF. In the case of upper floors 150 mm wide on floor slab for all the external walls, bath/toilet/wet areas (3 hrs drying time) before erection of wall panel on upper floors including erection of parapet wall.	sqm	302.20
After erection of GFRG wall panels, seal all GFRG wall joints with paper tape temporarily. Water proofing treatment of vertical joints with Zycosil/equivalent water proofing Solution (1 litre of Zycosil/equivalent & 20 litres of water stirred first & 2 litres of Zycoprime/equivalent added and stirred (total 23 litres)) with 50 ml syringe till the gap and in filled concrete is completely saturated. After removing the paper seal, seal off the vertical joints with water proofing material "Grout RW/equivalent" (Sealing cost excluded.)	metre	85.15
Filling of joints between RCC plinth beam / floor slab and wall panel of external walls, toilet / bath room / wet areas walls on all floor and parapet wall over roof slab, stair case head room at the time of erection of GFRG panels with Grout RW/equivalent sealant compound after the erection of panel before the infill of concrete in panel cavities and fine finish. This applies for all horizontal and vertical joints between GFRG wall and slab panels.	metre	41.55
Water proofing treatment of Vertical joints (of external side and internal side) between door frame, window & ventilator frames (on all four sides) of outer wall over the Zycosil/equivalent & Zycoprime/equivalent solution already applied (before the installation of door / window / ventilator frames in position) and fine finish with Grout RW/equivalent.	metre	42.35
Water proofing treatment of RCC sunshade with Zycosil/equivalent water proofing Solution (1 litre of Zycosil/equivalent & 20 litres of water stirred first & 2 litres of Zycoprime/equivalent added and stirred (total 23 litres)) till it meets the saturation level and testing as per RILEM or by water drops test in which water drops do not absorb but drops remain or rolls.	sam	135.80
In-filling / sealing of joint between RCC lintel cum sunshade and wall (on external side) in all floors by pushing in Grout RW/equivalent in paste form and coving 20 mm x 20 mm after applying a coat of Zycosil/equivalent & zycoprime/equivalent solution before cement plastering of top, bottom and sides of RCC sunshade.	metre	42.35
In-filling / sealing of joint between RCC lintel cum sunshade and wall (on external side) in all floors by pushing in Grout RW/equivalent in paste form and coving 20 mm x 20 mm after applying a coat of Zycosil/equivalent & zycoprime/equivalent solution before cement plastering of top, bottom and sides of RCC sunshade.	metre	42.35
	1 litre ZMB Nano Thinner, 20 litre water & 1 Litre Zycoprime/equivalent = 122 litre/kg) over already applied coat of Zycosil/equivalent & Zycoprime/equivalent solution on the top of all the RCC plinth beams by brush/spray coat before erection of GFRG over RCC plinth beams in GF. In the case of upper floors 150 mm wide on floor slab for all the external walls, bath/toilet/wet areas (3 hrs drying time) before erection of wall panel on upper floors including erection of parapet wall. After erection of GFRG wall panels, seal all GFRG wall joints with paper tape temporarily. Water proofing treatment of vertical joints with Zycosil/equivalent water proofing Solution (1 litre of Zycosil/equivalent & 20 litres of water stirred first & 2 litres of Zycoprime/equivalent added and stirred (total 23 litres)) with 50 ml syringe till the gap and in filled concrete is completely saturated. After removing the paper seal, seal off the vertical joints with water proofing material "Grout RW/equivalent" (Sealing cost excluded.) Filling of joints between RCC plinth beam / floor slab and wall panel of external walls, toilet / bath room / wet areas walls on all floor and parapet wall over roof slab, stair case head room at the time of erection of GFRG panels with Grout RW/equivalent sealant compound after the erection of panel before the infill of concrete in panel cavities and fine finish. This applies for all horizontal and vertical joints between GFRG wall and slab panels. Water proofing treatment of Vertical joints (of external side and internal side) between door frame, window & ventilator frames (on all four sides) of outer wall over the Zycosil/equivalent & Zycoprime/equivalent water proofing Solution (1 litre of Zycosil/equivalent & 20 litres of water stirred first & 2 litres of Zycoprime/equivalent & 20 litres of water stirred first & 2 litres of Zycoprime/equivalent added and stirred (total 23 litres) itill it meets the saturation level and testing as per RILEM or by water drops test in which water drops do not absorb but	1 litre ZMB Nano Thinner, 20 litre water & 1 Litre Zycoprime/equivalent = 122 litre/kg) over already applied coat of Zycosil/equivalent & Zycoprime/equivalent solution on the top of all the RCC plinth beams by brush/spray coat before erection of GFRG over RCC plinth beams in GF. In the case of upper floors 150 mm wide on floor slab for all the external walls, bath/toilet/wet areas (3 hrs drying time) before erection of wall panel on upper floors including erection of parapet wall. After erection of GFRG wall panels, seal all GFRG wall joints with paper tape temporarily. Water proofing treatment of vertical joints with zycosil/equivalent water proofing Solution (1 litre of Zycosil/equivalent & 20 litres of water stirred first & 2 litres of Zycoprime/equivalent added and stirred (total 23 litres)) with 50 ml syringe till the gap and in filled concrete is completely saturated. After removing the paper seal, seal off the vertical joints with water proofing material "Grout RW/equivalent" (Sealing cost excluded.) Filling of joints between RCC plinth beam / floor slab and wall panel of external walls, toilet / bath room / wet areas walls on all floor and parapet wall over roof slab, stair case head room at the time of erection of GFRG panels with Grout RW/equivalent sealant compound after the erection of panel before the infill of concrete in panel cavities and fine finish. This applies for all horizontal and vertical joints between GFRG wall and slab panels. Water proofing treatment of Vertical joints (of external side and internal side) between door frame, window & ventilator frames (on all four sides) of outer wall over the Zycosil/equivalent & 20 litres of water stirred first & 2 litres of Zycoprime/equivalent added and stirred (total 23 litres)) till it meets the saturation level and testing as per RILEM or by water drops test in which water drops do not absorb but drops remain or rolls. In-filling / sealing of joint between RCC lintel cum sunshade and wall (on external side) in all floors by pushing in Grout

Code No.	Description	Unit	Rate ₹
26.62	Designing, Providing, installing and fixing factory finished custom design pregalvanized high tensile steel joists manufactured from G3 Z275 confirming to IS:277-1992, minimum coating of galvanizing 2 gm/sqm, minimum yield stress 35 MPa & minimum tensile streng of 380 MPa placed 1.23 metre apart to support the load of slab 6 as per the design & directions of Engineer-in-Charge.	850 875 gth	141.45
26.63	Providing and fixing special adjustable lockbars of mild steel E-250 to support the temporary plywood for work between joists during construction as per design & directions of the Engineer-in-charge.		22.35
26.64	Centering and shuttering with 12mm thick shuttering plywo confirming to IS 4990:2011 and removal of form at all heights. Plywo will be supported on lock bars.		
	26.64.1 Suspended floors, roofs, landings, balconies and ac platform.	cess sqm	90.60
26.65	Providing and fixing roofing consist of 0.8 mm thick galvanized stedeck sheet confirming to IS 277:1992 used as permanent shutteriover which MS wire mesh 3mm laid at 100x100 mm grid includic edge trim covered with concrete. This metal deck will be support on structural steel beam with shear studs. (Structural steel like Beacolumn, joists etc. & concrete of different grade as per design will paid separately).	ing ing eed im,	1630.40
26.66	Providing and fixing in position, 130 mm thick factory made Expand Polystyrene Core (EPS Core) wall panels consisting of EPS consumers and substitute the EPS core shall be made of 3 mm dial at alternate row by welding the EPS core shall consist of 60 mm thick EPS of density not be than 16 kg/ per cum. Both the outer faces of the panel shall finished by applying the layer of 35 mm thick cement mortar 1:30 cement: 3 coarse sand (not having more than 40% stone chips size upto 6 mm)} with the help of shotcreting/guniting equipment at a pressure not less than 1 bar (100KN/m2) and both surfact finished with trowel. Fixing operations of wall panels shall be completed in all respect as per drawings and specifications and under the over direction of the Engineer-in-charge.	ore oric The esh vall ng. ess be {1 of etc etc etc etc etc etc	2415.85
26.67	Providing and fixing of external thermal insulation and composing system with First layer of self-extinguishing type Expand Polystyrene (EPS) insulation boards of 120 mm thick (max 1mX0.9 section), confirming to IS 4671:1984, having thermal conductivity 0.034 W/mK, (measured as per IS 3346-1980), density of 20-24 Im ³ measured as per IS 5688-1982, Fire retardant property set extinguishing type as per EN 13501-1, bonded with special polymodified cementitious adhesive confirming to EOTA ETAG 0 (European Technical Approval) formulated to bond polystyre insulation boards to typical mineral substrate (according to ETA 004) and Polypropylene mechanical fasteners with plastic property and polypropylen	site ed 5m y of kg/ elf- ner 04 ene	

Code No.	Description	Unit	Rate ₹
	confirming to EOTA ETAG 014 (European Technical Approval) having dia 10mm & L=200mm on finished level wall and the junction between two adjacent EPS boards to be sealed with low expansion moisture cure Polyurethane Foam. Second layer consists of Fiberglass mesh covered with alkali-resistant coating, mass per unit area ?145 gm/m², mesh size: 3.9x4.0 mm ±10% embedded in special polymer modified cementitious Base Coat with hydrophobes and the corners will be protected with Corner-beads with alkali-resistant mesh wings at least 10 cm wide, mesh mass per unit area min 145 gm/m². The surface will be levelled, finished, made smooth complete in all respect as per manufactures specification and as per directions of Engineer-in-Charge.	sqm	3493.05
26.68	Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 made of C&D waste from approved manufacturer in foundation and plinth in:	54	
	26.68.1 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	6057.95
26.69	Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 made of C&D waste from approved manufacturer in superstructure above plinth level up to floor V level		
	26.69.1 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	8086.60
26.70	Providing and laying half block masonry with factory made Precast concrete solid blocks of 100 mm thickness of grade M10 made of C&D waste from approved manufacturer in foundation and plinth in:		
	26.70.1 Cement mortar 1:4(1 cement : 4 coarse sand)	sqm	733.35
26.71	Providing and laying half block masonry with factory made Precast concrete solid blocks of 100 mm thickness of grade M10 made of C&D waste from approved manufacturer in superstructure above plinth level up to floor V level:		
	26.71.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	913.60
26.72	Providing and laying 60mm thick factory made cement concrete paver block of approved shape and colour of M -30 grade made of C&D waste by block making machine with vibratory compaction laid in required pattern and including over 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	757.00
	PREFAB/PRECAST TECHNOLOGY		
26.73	Fabrication & Manufacturing of Prestressed Hollow Core slab (Hollow area 25 to 30%) of different thickness & modular width 1200 mm in Controlled Factory Environment with approved methodology confirming to IS 10297:1982 by using long line casting method having arrangement of proper steel bed. Concreting should be done by batch mixing plant capable of producing zero slump concrete, transported through automatic shuttels of standard make & layed on bed with the help of extruder/Slipformer, finishing, curing and also provision of steam curing. Cutting, making necessary cutout/holes of required		

Code No.			Description	Unit	Rate ₹
	yard hand & design	services in sla dling & stacking mix as per the hould be paid			
	Note: Excess/less cement over the specified cement content used as per design mix is payable/recoverable separately)				
	26.73.1	Concrete G	Grade-M-40 (cement content 400 kg)		
		26.73.1.1	100 mm thick hollow core slab	metre	1252.95
		26.73.1.2	120 mm thick hollow core slab	metre	1449.35
		26.73.1.3	150 mm thick hollow core slab	metre	1767.40
		26.73.1.4	200 mm thick hollow core slab	metre	2157.65
		26.73.1.5	250 mm thick hollow core slab	metre	2652.75
		26.73.1.6	300 mm thick hollow core slab	metre	3147.85
		26.73.1.7	350 mm thick hollow core slab	metre	3642.95
		26.73.1.8	400 mm thick hollow core slab	metre	4138.05
	26.73.2	Extra for us of M-40	sing M-50 (Cement content 425 kg) instead		
		26.73.2.1	100mm thick hollow core slab	metre	17.25
		26.73.2.2	120mm thick hollow core slab	metre	20.70
		26.73.2.3	150mm thick hollow core slab	metre	25.85
		26.73.2.4	200mm thick hollow core slab	metre	32.15
		26.73.2.5	250mm thick hollow core slab	metre	40.20
		26.73.2.6	300mm thick hollow core slab	metre	48.25
		26.73.2.7	350mm thick hollow core slab	metre	56.30
		26.73.2.8	400mm thick hollow core slab	metre	64.35
	26.73.3	Extra for us of M-40	sing M-60 (Cement content 440 kg) instead		
		26.73.3.1	100mm thick hollow core slab	metre	27.60
		26.73.3.2	120mm thick hollow core slab	metre	33.05
		26.73.3.3	150mm thick hollow core slab	metre	41.35
		26.73.3.4	200mm thick hollow core slab	metre	51.45
		26.73.3.5	250mm thick hollow core slab	metre	64.35
		26.73.3.6	300mm thick hollow core slab	metre	77.25

26.73.3.7

26.73.3.8

350mm thick hollow core slab

400mm thick hollow core slab

89.75

102.95

metre

metre

Code No.		Description	Unit	Rate ₹
26.74	Fabrication and manufacturing of solid precast concrete element with provisions of shear keys, connecting loops, dowel tubes and proper lifting accessories for walls, beams, slabs, stairs, column etc, of various thickness, shape and size of different concrete grades manufactured in controlled factory environment with approved methodology including moulds (Pallet system, Tilts form, table moulds, battery moulds, vertical moulds, beam moulds, column moulds, staircase moulds, Facade mould, etc.), mixing, transporting and placing of concrete, vibrating, curing, finishing, making necessary cutout/holes of required sizes for services, yard handling & stacking all complete as per IS 11447:1985 and as per approved shop drawings and design mix as per the direction of Engineer-in-Charge (Cost of reinforcement, Mechanical, Electrical and Plumbing inserts will be paid separately).			
	26.74.1	Concrete grade M-35 (Cement content 370 kgs)	cum	19488.05
	26.74.2	Extra for using M-40 (Cement content 400 kg) instead of M-35	cum	229.80
	26.74.3	Extra for using M-50 (Cement content 425 kg) instead of M-35	cum	421.35
	26.74.4	Extra for using M-60 (Cement content 440 kg) instead of M-35	cum	536.25
26.75	relaxation arrangem Stressing to IS1343	& laying in position Prestressing steel strands (low n) on hollow core bed by using mechanical pulling tent like Rabbit/ Bed master including all accessories for & destressing operations as per approved make conforming & grade FY-1860 etc, complete as per drawings and of Engineer-in-charge.	kg	147.05
26.76	axle 40ft factory, in	ation of Precast Elements by flat bed Trailor (Double / Triple Length with proper accessories like A frame etc) from cluding the cost of loading, unloading & stacking at site elp of required capacity cranes.		
	26.76.1	Lead within 15km	MT	464.80
	26.76.2	Add/Deduct over item 26.76.1 for every additional lead of 5 km	MT	103.00
26.77	correct & f all arrango lifting Plac per IS 159 the direct	R Installation of Precast/Prestressed Concrete elements in final position with proper line level and plumb at site making ements (i.e cranes, push-pull jacks & all another T & P for cing & Alignment of elements, within erection tolerance as \$16 as per approved shop drawings and all complete as per ion of Engineer-in-Charge but excluding the cost of simes shrink grout and steel works i.e hangers. All work up to		
	26.77.1	Prestressed hollow core Slab up to 200 mm thickness	sqm	169.65
	26.77.2	Prestressed hollow core slab above 200 mm up to 400 mm thickness	sqm	288.05
	26.77.3	Solid concrete wall elements	cum	2284.75

Code No.	Description	Unit	Rate ₹
26.78	Providing & Applying weather proof sealant on outer joints of approved make confirming to IS & directed by Engineer-in-charge.		
	26.78.1 Sealant 25mmx10mm at joints	metre	152.50
26.79	Providing & Laying of levelling sim pads required sizes (5x5cm to 10x10cm) of PVC / Rubber to adjust level of bearing surface of supporting members as per the direction of Engineer in charge.		
	26.79.1 2mm thick	each	24.30
	26.79.2 5 mm thick	each	31.00
	26.79.3 10 mm thick	each	44.35
26.80	Providing & Grouting of dowel tubes / Shear keys / Joints of precast members with M-60 grade cementitious grout (Non Shrink) of approved make by suitable means (Free flowing /pump), curing etc. Complete as per directions of Engineer-in-charge. (The payment shall be made on the basis of actual weight of approved grout injected.)		
	26.80.1 Stirrer mixed cementitious grout (non shrink) of approved make in dowel tubes / Shear keys / Joints of precast members.	kg	76.70
26.81	Providing and fixing Scaffolding net of required width made of high density Polyethylene UV stabilized knitted on warp knitting machines having density 100grams/sqm and shading coefficient minimum 75% around the construction site/ for vertical extension as per requirement including fastening/tying with building/scaffolding pipes or with any other fixtures etc. complete as per direction of Engineer-in-Charge. (One time payment shall be made for providing Scaffolding net from start of work till completion of work including shifting if any. The Scaffolding net shall be the property of the contractor on completion		
26.82	Providing and laying rigid EPS (cellular plastic material) blocks conforming to ASTM standards/specifications of minimum density 21.60 Kg/cum on floors, steps, stage etc. of required size and shape as per direction of the Engineer-in-Charge. This shall include the following operation. "The EPS blocks shall be cut to required shape and sizes including cuttings for passing of services, joined together with synthetic resin adhesives as per relevant specifications and packed/placed in position for stepped floor or platform formation. The top and sides surfaces to be provided with GI woven wire mesh of aperture 5.45 mm (with wire dia 0.90 mm) secured to EPS blocks with wire pins/clips. Horizontal top surface to be provided with 20 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate upto 6mm chippings) and vertical surface to be provided with 12mm cement plaster 1:4 (1 cement : 4 coarse sand). The concrete/plastered surfaces so prepared shall be scratched with wire brushes to form burrs, so as to act as base for flooring or veneering/panelling to be done later as per approved design (which shall be paid for separately complete as per direction of the Engineer-in-Charge.	sqm	25.10
	ın-Unarge.	sqm	2027.65

Code No.		Description	Unit	Rate ₹
26.83	reinforced cemer driveways, pool d	ng finish to the top surface of freshly laid plain/ nt concrete of specified grade in porticos, sidewalks, ecks and open yards as per direction of the Engineer- process shall include the following:-		
	and floated techniques. be applied e shake meth after each s approved re to the trowe agent can b of approved pattern. The concrete in with ramme marks and surface till the	e shall be placed and screeded to the finished grade, to a uniform surface by using standard finishing. The approved color hardener @ 2.7 kg/sqm shall evenly to the surface of the fresh concrete by the dry nod by sprinkling in two or more shakes, floated thake and trowelled only after the final floating. The elease agent @ 0.113 kg/sqm shall be applied evenly elled surface before stamping or the said release applied to the flexible polyurethane stamp moulds design and in required sizes to achieve final stamped ese stampings shall be placed on the surface of three to four pieces at a time and tapped gently ers of sufficient size & weight to leave proper stamp the process repeated for the remaining concrete ne whole surface to be stamped is completed within title concrete is in plastic stage of setting.		
	specificatio grouted usi the requiren	ning, the curing shall be done as per manufactures ns. After initial curing the imprinted joints shall be ng cement slurry mixed with color hardener as per nent. The surface shall be sealed by applying acrylic er not less than 0.167 litre/sqm.on finished surface.		
	size 4mm x site condition providing a approved m by applying of minimum and dry clea	action joints shall be provided by groove cutting of 20mm in panel size 3m x 3 m or lesser as per the ons and filling the same with 10 mm baker rod and and laying (PU) Polyurethane based joint sealer of ake as per manufacturer's specifications and finished Polyurethane resin based top protective clear coat a 80 micron applied with rollers on properly cured an surface. (Cost of concrete for flooring is not this item which shall be paid separately.)	sqm	640.20
26.84	to MORTH 3100 a including access joining reinforcing protective eleme required for reinfo	ring of Uni-Axial Woven Polyster Geogrid conforming and IRC113, as soil reinforcement/basal reinforcement cories like tie-strips, nuts & bolts and loops/lugs for gelements with the facia pannels, overlaps and other ents for synthetic geo-grids and all other activities orced soil walls, slopes etc complete as per design anufacturer specifications and as per direction of ge.		
	stren	Axial Woven polyster geogrid of minimum tensile ngth 40KN/m in the Longitudinal direction and 20 n in the Transverse direction.	sqm	223.25
	stren	Axial Woven polyster geogrid of minimum tensile agth 60KN/m in the Longitudinal direction and 20 in the Transverse direction.	sqm	254.15

Code No.		Description	Unit	Rate ₹
	26.84.3	Uni Axial Woven polyster geogrid of minimum tensile strength 80 KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	sqm	315.95
	26.84.4	Uni Axial Woven polyster geogrid of minimum tensile strength 100KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	sqm	360.90
	26.84.5	Uni Axial Woven polyster geogrid of minimum tensile strength 120KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	sqm	384.80
	26.84.6	Uni Axial Woven polyster geogrid of minimum tensile strength 150KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	sqm	476.10
	26.84.7	Uni Axial Woven polyster geogrid of minimum tensile strength 200KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	sqm	554.75
	26.84.8	Uni Axial Woven polyster geogrid of minimum tensile strength 250KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	sqm	671.35
	26.84.9	Uni Axial Woven polyster geogrid of minimum tensile strength 300KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	sqm	771.10
26.85	to MORTH of granula stabilizati strips, nu with the f synthetic per desig	g and laying of Bi-Axial Woven Polyster Geogrid conforming H 3100 and IRC113, as soil reinforcement/basal reinforcement ar road base and sub base, area stalilization, track bed on, load transfer platforms Including accessories like tiets & bolts and loops/lugs for joining reinforcing elements acia pannels, overlaps and other protective elements for geo-grids and all other activities required etc. complete as in requirements, manufacturer specifications and as per of engineer-in-charge.		
	26.85.1	Bi Axial Woven polyster geogrid of minimum tensile strength 20KN/m in both Longitudinal and Transverse direction.	sqm	188.10
	26.85.2	Bi Axial Woven polyster geogrid of minimum tensile strength 40KN/m in both Longitudinal and Transverse direction.	sqm	271.00
	26.85.3	Bi Axial Woven polyster geogrid of minimum tensile strength 60KN/m in both Longitudinal and Transverse direction.	sqm	341.25
26.86	Polymer (Frames/C 60 (Suspe powder/ r toxicity in	and fixing factory made single extruded WPC (Wood Composite) solid door/window/Ceosetory windows & other Chowkhat comprising of virgin PVC polymer of K value 58-ension Grade), calcium carbonate and natural fibers (wood rice husk/wheat husk) and non toxic additives (maximum dex of 12 for 100 gms) fabricated with miter joints after PVC solvent cement and screwed with full body threaded	- 7	5 _0

Code No.	Description	Unit	Rate ₹
	star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately).		
	Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.		
	26.86.1 Frame size 45 x 70 mm	metre	644.70
	26.86.2 Frame size 45 x 85 mm	metre	832.95
	26.86.3 Frame size 50 x 100 mm	metre	853.00
	26.86.4 Frame size 50 x 125 mm	metre	973.40
	26.86.5 Frame size 65 x 100 mm	metre	1000.15
	26.86.6 Frame size 65 x 125 mm	metre	1247.70
	26.86.7 Frame size 65 x 150 mm	metre	1481.85
26.87	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)		
	26.87.1 30 mm thick	sqm	3954.00
	26.87.2 35 mm thick	sqm	4556.05
26.88	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and		

Code No.		Description	Unit	Rate ₹
	microns the both faces required s sunk S.S	ant. WPC to be laminated with PVC foil of minimum 14 nick of approved design pasted with hot melt adhesive on s of shutter and fixing with stainless steel butt hinges of ize with necessary full body threaded star headed counter screws, all as per direction of Engineer-In- Charge. (Note: steel butt hinges and necessary S.S screws shall be paid //)		
	26.88.1	30 mm thick	sqm	4327.70
	26.88.2	35 mm thick	sqm	4929.80
26.89	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid board one side white color and other side of board laminted with PVC foil of minimum 14 micron thickness of approved design pasted with hot melt adhesive for cup boards, work stations and bathroom/kitchen cabinet etc. of required sizes comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel piano hinges/soft close clip on concealed hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel piano hinges/soft close clip on concealed hinges and			
	26.89.1	18 mm thick	sqm	2714.15
	26.89.2	25 mm thick	sqm	3530.30
26.90	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain white color board for backing of cup boards and bathroom/kitchen cabinets etc. of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel screws etc. all as per direction of Engineer-In- Charge. (Note: stainless steel screws shall be paid separately)			
	26.90.1	6 mm thick	sqm	982.00
	26.90.2	12 mm thick	sqm	1543.95
26.91	(Wood Po	and fixing factory made 18 mm thick single extruded WPC lymer Composite) solid plain white colour board Jali, CNC r numeric control) routed of approved design by Engineer-		

in -charge which are machine cut for duct/shaft covering, partitions and facades comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium corbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives(maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/ cum and screw withdrawal strength of 1800 N (Face) minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with properties of being termite/borer proof, water/moisture proof and fire retardant and fixing on M.S (mild steel) frame made of 25 x 25 x 1.5 mm square hollow box section including applying a priming coat of approved steel primer, placed at grid made at 1.0 x 1.0 m or as per requirement at site with necessary stainless steel fasteners and SS screws etc., all complete as per direction of Engineer-In- Charge. (Note: M.S (mild steel) framework with priming coat and necessary SS fasteners and SS screws shall be paid separately.

sqm 3136.65

26.92

Providing and fixing of façade at all heights with extruded hollow Clay / Terracotta ventilated rainscreen tiles of height 250/300/400mm and length of 595 mm of approved texture, design and pattern having Flexural Strength/ Modulus of Rupture of ? 14 N/m² and maximum water absorption of 10% tested as per ISO 10545-4:2004(E) and ISO 10545-3:1995 respectively in true level fixed to a supporting aluminium framework(Alloy 6063 T5/T6) consisting of vertical 'T' (for intermediates)/ 'L'(for ends/ termination)/ Tubular sections (at corners) of size 80x60x2mm/40x60x2mm/40x40x2mm respectively. spaced at maximum spacing of 600mm c/c matching to the tile vertical grid, and horizontal aluminium 'C'-clamps of size 56x25x2mm thickness of length 150mm at junction of tiles and of length 75mm at wall ends/ corners fixed on top of the vertical sections at spacing of 250/300/400mm c/c matching to the tile horizontal grid with two numbers of self-drilling / self-tapping SS screws of size 5.5x25 mm with EPDM washers. The vertical 'T'/'L/ Tubular' sections shall be fixed to the wall using HDG (hot-dip-galvanized) steel L-brackets (galvanizing thickness of minimum 80 microns) of size 110x80x6 mm at intermediate vertical aluminium profiles and of size 220x110x12 mm at outer corners and stainless steel grade 304,M10 full threaded anchor fasteners with nylon sleeve 100mm long (for brick work) and M8 expansion anchor fasteners 75mm long for concrete surface, spacing of brackets to be based on a structural/static calculation. The brackets shall be of length 175mm at junction of two vertical aluminium profiles and of length 100mm at intermediate points of vertical profiles and shall be fixed to the vertical aluminium T / L / Tubular profiles using two numbers self-drilling/ self-tapping SS screws of size 5.5x25mm with EPDM washers. EPDM gaskets to be fixed in between brackets and vertical profiles. The tiles shall be mounted on the 'C' clamps such that the tiles are supported at top and bottom at both ends. The tiles shall be additionally secured to the horizontal 'C' clamps using special SS clips of required size which shall be inserted and pressed into position on the 'C' clamps holding the tiles and the cut-tiles shall be glued at points to the

Code No.		Description	Unit	Rate ₹
NO.	vertical jo The tiles a 875 (Part using the ventilation wall. The as per dire	I 'C' clamps by using MS Polymer sealant adhesive. The int open groove between two adjacent tiles shall be 5mm. and system shall be designed to resist wind load as per IS 3) according to different zones. The tiles shall be installed ventilated rain screen principle with provision for natural of the space between the façade tiles and the structural work shall be carried out as per specification, drawing and ection of the Engineer-in-Charge. Note: Scaffolding wherever to be paid separately.		
	26.92.1	With 16mm thickness (+/- 10%) terracotta tiles of grey colour	sqm	5475.30
	26 92 2	With 16mm thickness (+/- 10%) terracotta tiles of other		

5248.40

sam

Providing and fixing of façade at all heights with extruded hollow Clay / Terracotta ventilated rainscreen tiles of height 259/309/409mm and length of 1190 mm of approved texture, design and pattern having Flexural Strength/ Modulus of Rupture of ? 14 N/m² and maximum water absorption of 10% tested as per ISO 10545-4:2004(E) and ISO 10545-3:1995 respectively in true level fixed to a supporting aluminium framework (Alloy 6063 T5/T6) consisting of vertical 'T' (for intermediates)/ 'L' (for ends/ termination)/ Tubular sections (at corners) of size 80x60x2mm/40x60x2mm/40x40x2mm respectively, spaced at maximum spacing of 1200mm c/c matching to the tile vertical grid, and horizontal aluminium 'C'-clamps of size 56x34x2 mm thickness of length 150mm at junction of tiles and of length 75mm at wall ends/ corners fixed on top of the vertical sections at spacing of 250/300/400mm c/c matching to the tile horizontal grid with two numbers of self-drilling / self-tapping SS screws of size 5.5x25 mm with EPDM washers. The vertical 'T'/'L/ Tubular' sections shall be fixed to the wall using HDG (hot-dip-galvanized) steel Lbrackets (galvanizing thickness of minimum 80 microns) of size 110x80x6 mm at intermediate vertical aluminium profiles and of size 220x110x12 mmat outer corners and stainless steel grade 304,M10 full threaded anchor fasteners with nylon sleeve 100mm long (for brick work) and M8 expansion anchor fasteners 75mm long for concrete surface, spacing of brackets to be based on a structural/ static calculation. The brackets shall be of length 175mm at junction of two vertical aluminium profiles and of length 100mm at intermediate points of vertical profiles and shall be fixed to the vertical aluminium T / L / Tubular profiles using two numbers self-drilling/ self-tapping SS screws of size 5.5x25 mm with EPDM washers. "EPDM gaskets to be fixed in between brackets and vertical profiles. The tiles shall be mounted on the 'C' clamps such that the tiles are supported at top and bottom at both ends. The tiles shall be mounted on the Cclamps with EPDM profiles in between such that the tiles are supported at top and bottom at both ends. The vertical joint open groove between two adjacent tiles shall be 10mm. The tiles and system shall be designed to resist wind load as per IS 875 (Part 3) according to different zones. The tiles shall be installed using the

than grey colors

26.93

Code No.		Description	Unit	Rate ₹
	the space shall be c	I rain screen principle with provision for natural ventilation of be between the façade tiles and the structural wall. The work arried out as per specification, drawing and as per direction gineer-in-Charge.		
	Note:So	affolding wherever required to be paid separately.		
	26.93.1	With 24mm thickness (+/- 10%) terracotta tiles of grey colour	sqm	5585.15
	26.93.2	With 24mm thickness (+/- 10%) terracotta tiles of other than grey colors	sqm	5283.15



1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 3.0 MORTAR

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	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*

^{*} white cement

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 4.0 CONCRETE WORK

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	CEMEN	IT CONCRETE (CAST - IN- SITU)		
4.1	P/L cem	nent concrete - all works upto plinth level :		
	4.1.2	$1:1\frac{1}{2}:3$ (1 Cement : $1\frac{1}{2}$ coarse sand derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.00
	4.1.2A	1:1½:3 (1 Cement : 1½ coarse sand including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size Recycled Concrete Aggregate (RCA) upto 25%	cum	4.00
	4.1.3	1:2:4 (1 cement: 2 coarse sand derived from natural sources: 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3.20
	4.1.3A	1:2:4 (1 Cement : 2 coarse sand including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 4 graded stone aggregate 20 mm nominal size Recycled Concrete Aggregate (RCA) upto 25%	cum	3.20
	4.1.4	1:2:4 (1 Cement : 2 coarse sand derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	3.20
	4.1.5	1:3:6 (1 Cement: 3 coarse sand derived from natural sources: 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2.20
	4.1.5A	1:3:6 (1 Cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA)) : 6 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA))	cum	2.20
	4.1.5B	1:3:6 (1 Cement: 3 manufactured sand derived from Recycled Concrete Aggregate (RCA)): 6 graded stone aggregate 20 mm nominal size derived from Recycled Aggregate (RA))	cum	2.20
	4.1.6	1:3:6 (1 Cement : 3 coarse sand derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	2.20
	4.1.6B	1:3:6 (1 Cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA)) : 6 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	2.20

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	4.1.8	1:4:8 (1 Cement : 4 coarse sand derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.70
	4.1.8A	1:4:8 (1 Cement: 4 manufactured sand derived from Recycled Concrete Aggregate (RCA)): 8 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	1.70
	4.1.10	1:5:10 (1 cement : 5 coarse sand derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.30
	4.1.10A	1:5:10 (1 Cement : 5 manufactured sand derived from Recycled Concrete Aggregate (RCA)) : 10 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	1.30
	4.1.11	1:5:10 (1 cement : 5 fine sand derived from natural sources: 10 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.30
	4.1.12	1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand derived from natural sources : 9 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.70
	4.1.12A	1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ manufactured sand Recycled Concrete Aggregate (RCA) : 9 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	1.70
	4.1.13	1:2½:4:11 (1 ordinary portland cement: 2½ fly ash: 4 coarse sand derived from natural sources: 11 graded stone aggregate 40 mm nominal size derived from derived from natural sources	cum	1.30
	4.1.13A	1:2½:4:11 (1 ordinary portland cement: 2½ fly ash: 4 manufactured sand Recycled Concrete Aggregate (RCA): 11 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	1.30
4.2	P/L cem	ent concrete - all works upto plinth level :		
	4.2.2	1:1½:3 (1 cement:1½ coarse sand derived from natural sources :3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.00

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	4.2.2A	1:1½:3 (1 cement:1½ coarse sand inlcuding manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25%: 3 graded stone aggregate 20 mm nominal size Recycled Concrete Aggregate (RCA) upto 25%)	cum	4.00
	4.2.3	1:2:4 (1 Cement : 2 coarse sand derived from natural sources: 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3.20
	4.2.3A	1:2:4 (1 Cement : 2 inlcuding manuvactured sand derived from Recycled Concrete Aggregate (RCA) upto 25%: 4 graded stone aggregate 20 mm nominal size Recycled Concrete Aggregate (RCA) upto 25%)	cum	3.20
	4.2.5	1:3:6 (1 cement: 3 coarse sand derived from natural sources: 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2.20
	4.2.5A	1:3:6 (1 cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA))	cum	2.20
	4.2.5B	1:3:6 (1 cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size derived from Recycled Aggregate (RA))	cum	2.20
	4.2.8	1:5:10 (1 cement : 5 coarse sand derived from natural sources: 10 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.30
	4.2.8A	1:5:10 (1 cement : 5 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 10 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	1.30
4.4	P/L cem	nent concrete in kerbs, steps etc.:		
	4.4.1	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.00
	4.4.1A	1:1.5:3 (1 cement : 1.5 inlcuding manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%	cum	4.00

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	CEMENT CONCRETE (PRE-CAST)			
4.5	P/L predetc.:	east cement concrete string or lacing courses, copings		
	4.5.1	1:1½:3 (1 cement:1½ coarse sand derived from natural sources:3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.05
	4.5.1A	1:1½:3 (1 cement:1½ inlcuding manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%)	cum	4.05
4.6	P/L pred	cast cement concrete in kerbs, edgings etc.:		
	4.6.1	1:1.5:3 (1 cement: 1.5 coarse sand derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.05
	4.6.1A	1:1.5:3 (1 cement : 1.5 inlcuding manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%)	cum	4.05
4.7	P/L pred	cast cement concrete solid blocks:		
	4.7.1	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.56
	4.7.1A	1:1.5:3 (1 cement : 1.5 inlcuding manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%)	cum	4.56
4.8	P/L pred	cast cement concrete hollow blocks:		
	4.8.1	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2.899
	4.8.1A	1:1.5:3 (1 cement : 1.5 inlcuding manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete	01:77	0.000
		Aggregate (RCA) upto 25%)	cum	2.899

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
4.9	Precasting and placing in position 125 mm dia Bollards 600 mm high cement concrete 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	each	0.097
4.9A	Precasting and placing in position 125 mm dia Bollards 600 mm high cement concrete 1:3:6 (1 Cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA):6 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA))	each	0.097
4.9B	Precasting and placing in position 125 mm dia Bollards 600 mm high cement concrete 1:3:6 (1 Cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA):6 graded stone aggregate 20 mm nominal size derived from Recycled Aggregate (RA))	each	0.097
	DAMP- PROOF COURSE		
4.10	P/L D.P.C. 40 mm thick with C.C. (1 cement :2 coarse sand derived from natural sources :4 graded stone aggregate 12.5mm nominal size derived from natural sources).	sqm	0.13
4.10A	P/L D.P.C. 40 mm thick with C.C. (1 cement :2 inlcuding manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% :4 graded stone aggregate 12.5mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%).	sqm	0.13
4.11	P/L D.P.C. 50 mm thick with C.C. (1 cement :2 coarse sand derived from natural sources :4 graded stone aggregate 12.5mm nominal size derived from natural sources).	sqm	0.16
4.11A	P/L D.P.C. 50 mm thick with C.C. (1 cement :2 inlcuding manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% :4 graded stone aggregate 12.5mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%).	sqm	0.16
	MISCELLANEOUS		
4.17	Making plinth protection 50 mm thick of cement concrete 1:3 coarse sand (zone-III) derived from natural sources: 6 graded stone aggregate 20 mm nominal size derived from natural sources)	sqm	0.11
4.17A	Making plinth protection 50 mm thick of cement concrete 1:3 manufactured sand derived from Recycled Concrete Aggregate (RCA): 6 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA))	sqm	0.11

Code No.		D	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
4.17B	1:3 man Aggrega	ufactured te (RCA) : 6	ection 50 mm thick of cement concrete sand derived from Recycled Concrete 6 graded stone aggregate 20 mm nominal decycled Aggregate (RA))	sqm	0.11
4.19	DELETE	ED .			
	4.19.1	DELET	ED		
	4.19.1.1	DELET	ED		
	4.19.1.2	DELET	ED		
	4.19.2	DELET	ED		
	4.19.2.1	DELET	ED		
	4.19.2.2	DELET	ED		
4.20	P/L read sources	dy mix plai	n cement concrete derived from natural		
	4.20.1	All works	s upto plinth level		
		4.20.1.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	cum	2.20
		4.20.1.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	2.40
		4.20.1.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	2.70
		4.20.1.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	3.00
	4.20.2	All works	above plinth and upto floor V level		
		4.20.2.1	Concrete of M10 grade with minimum cement content of 220 kg/cum	cum	2.20
		4.20.2.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	2.40
		4.20.2.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	2.70
		4.20.2.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	3.00
4.20A			n cement concrete derived from natural d Concrete Aggregate (RCA)		
	4.20A.1	All works	supto plinth level		
		4.20A.1.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	cum	2.20
		4.20A.1.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	2.40

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)	
	4.20A.1.3 Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	2.70		
		4.20A.1.4	Concrete of M25 grade with minimum cement content of 300 kg/cum	cum	3.00
	4.20A.2	All works a	bove plinth and upto floor V level		
		4.20A.2.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	cum	2.20
		4.20A.2.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	2.40
		4.20A.2.3	Concrete of M20 grade with minimum cement content of 270 kg/cum	cum	2.70
		4.20A.2.4	Concrete of M25 grade with minimum cement content of 300 kg/cum	cum	3.00

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 5.0 REINFORCED CEMENT CONCRETE

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	CAST-II	N-SITU		
5.1	P/L R.C	C.C. upto plinth level :		
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.00
	5.1.2A	1:1.5:3 (1 cement : 1.5 coarse sand including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%)	cum	4.00
	5.1.3	1:2:4 (1 cement : 2 coarse sand derived from natural sources: 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3.2
	5.1.3A	1:2:4 (1 cement : 2 coarse sand including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 4 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%)	cum	3.2
5.2	R.C.C w	vork in walls etc.:		
	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.00
	5.2.2A	1:1.5:3 (1 cement : 1.5 coarse sand including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%)	cum	4.00
5.3	sources	(1:1.5 coarse sand(zone-III) derived from natural : 3 graded stone aggregate 20 mm nominal size from natural sources) work in beams etc.	cum	4.00
5.3A	Recycle stone ag	(1:1.5 including manufactured sand derived from d Concrete Aggregate (RCA) upto 20%: 3 graded ggregate 20 mm nominal size derived from Recycled the Aggregate (RCA) upto 20%) work in beams etc.	cum	4.00
5.4	sources	(1:1.5 coarse sand(zone-III) derived from natural : 3 graded stone aggregate 20 mm nominal size from natural sources) work in kerbs, steps etc.	cum	4.00

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
5.4A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in kerbs, steps etc.	cum	4.00
5.5	R.C.C. (1:1.5 coarse sand(zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in arches, domes etc.	cum	4.00
5.A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in arches,domes		4.00
5.6	etc. R.C.C. (1:1.5 coarse sand(zone-III) derived from natural	cum	4.00
5.0	sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in chimneys & shafts.	cum	4.00
5.6A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in chimneys & shafts.	cum	4.00
5.7	R.C.C. (1:1.5coarse sand(zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in well-steining.	cum	4.00
5.7A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in well-steining.	cum	4.00
5.8	R.C.C. (1:1.5coarse sand(zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in vertical and horizontal fins individually or forming box louvers, facias and eaves		4.00
5.8A	boards.	cum	4.00
J.0A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards.	cum	4.00
	PRE - CAST R.C.C.		
5.12	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in string courses, bands, copings, bed plates, anchor blocks, plain window sills		400
	etc.	cum	4.00

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
5.12A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in string courses, bands, copings, bed plates, anchor blocks, plain window sills etc.	cum	4.00
5.13	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) in small lintels not exceeding 1.5m clear span.	cum	4.00
5.13A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) in small lintels not exceeding 1.5m clear span.	cum	4.00
5.14	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) in mouldings as in cornices, windows sills etc.	cum	4.00
5.14A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) in mouldings as in cornices, windows sills etc.	cum	4.00
5.15	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) in lintels, beams and bressumers etc.	cum	4.00
5.15A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) in lintels,		4.00
5.16	beams and bressumers etc. P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) in shelves.	cum	4.00
5.16A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) in shelves.	cum	4.05
5.17	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) in vertical & horizontal fins individually or forming box louvers.	cum	4.00
	marriadally of forming box loavois.	Juin	4.00

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
5.17A 5.18	P/F precast R.C.C. (1:1.5 including manufacture derived from Recycled Concrete Aggregate (RCA) up: 3 graded stone aggregate 20 mm nominal size deriv Recycled Concrete Aggregate (RCA) upto 20%) in vehorizontal fins individually or forming box louvers. Fixing precast cement concrete Jali (1:2:4).	oto 20% ed from	4.00
	5.18.1 50 mm thick	100 sqm	1.64*
	5.18.2 40 mm thick	100 sqm	1.64*
	5.18.3 25 mm thick	100 sgm	1.64*

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 6.0 MASONRY WORK

Code No.		ı	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
6.1	Brick w	ork in foun	dation & plinth with non modular bricks.		
	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 w	ork in foun	dation & 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 w	ork with ma	achine moulded perforated bricks.		
	6.3.1	With nor	n modular bricks.	cum	0.625
	6.3.2	With mo	dular bricks.	cum	0.55
6.4	Brick w	ork in supe	erstructure		
	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 cavity 5 to 7.5 cm wide in cavity wall.			100 metre	3.86
6.8	Brick w	ork 7 cm ir	cement mortar (1:3).	100 sqm	9.23
6.9 & 6.10	Brick w	ork in plain	& gauged arches in cement mortar (1:3).	cum	1.28
	HALF E	BRICK MAS	SONRY		
6.12 & 6.13	Half brid	ck masonry	y in foundations & plinth and superstructure.		
	6.12.1 8	& 6.13.1	Cement mortar 1:3 (1 cement : 3 coarse sand)	100 sqm	14.28
	6.12.2 8	& 6.13.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	100 sqm	10.64
	BRICK	TILE WOF	RK		
6.16	Tile brid	k masonry	in foundation and plinth. :		
	6.16.1	Cement	mortar 1:4 (1 cement : 4 coarse sand)	cum	1.52
6.16.2	6.16.2	Cement	mortar 1:6 (1 cement : 6 coarse sand)	cum	1.00
6.17 & 6.18			with m/c moulded tiles in cement ent : 6 coarse sand).	cum	1.00
6.20 &	Tile brid	k masonry	with tile bricks in plain/gauged arches		
6.21	work in	in cement	mortar (1:4).	cum	1.33
6.22	Tile brid	ck 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-o	comb brick work 10/11.4 cm thick in cement I:4.	100 sqm	6.56
	EXPOS	ED BRICK WORK		
6.26	Brick wo	ork with selected bricks in cement mortar (1:6).	cum	0.625
6.27	Brick wo	ork with modular bricks in cement mortar (1:6).	cum	0.55
6.28	Brick wo mortar (ork with machine moulded modular bricks in cement 1:6).	cum	0.55
6.29	Brick we mortar (ork with m/c moulded F.P.S. bricks in cement 1:6).	cum	0.625
6.30		ork with machine moulded perforated F.P.S. bricks nt mortar (1:6).	cum	0.625
6.31		ork with machine moulded perforated modular bricks nt mortar (1:6).	cum	0.55
6.32	Brick we	ork 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 wo	ork with non modular fly ash 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 wo moulded	ork with modular calcium silicate bricks machine d in		
	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 wo	ork with modular extruded burnt fly ash clay sewer า :		
	6.36.1	Cement Mortar 1:4 (1 cement : 4 coarse sand)	cum	0.836
6.37		ork with modular extruded burnt fly ash clay sewer or cement mortar (1:3).	cum	1.275
6.38		ved aerated cement blocks masonry with 100mm AC blocks in cement mortar (1:4).	cum	0.57
6.44	Brick ed	lging 7 cm wide in cement mortar (1:4).	100 metre	0.137
6.45	Half brid	ck masonry with non modular fly ash 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

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 7.0 STONE WORK

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	RANDOM RUBBLE MASONRY		
7.1 & 7.2	Random rubble masonry with cement mortar (1:6).	cum	0.825
	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		
7.26	P/F stone dowels 10x5x2.50 cm 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
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
7.38	Stone tile work for wall lining with 12 mm thick bed in cement mortar (1:3).	sqm	10.44 + 1.70*
	* White cement		

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 8.0 CLADDING 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.	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.	100 sqm	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.	100 sqm	10.44 + 1.90*
8.11	P/F machine cut mirror/edge polished	100 sqm.	8.16 + 3.30*
8.14	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*
8.15	P/F stainless steel cramps in stone wall lining in cement mortar (1:2).	kg	0.07
8.16	P/F copper pins 7.5 cm long 6 mm diameter in stone wall lining in cement mortar (1:2).	each	0.007
8.17	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*
8.18	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
8.21	P/F structural steel frame (for dry stone cladding) embedded in brick wall with cement concrete block (1:2:4)	100kg	1.05
8.23	P/F 50x50x50 mm 2nd class teak wood plugs in cement mortar 1:3.	100 nos.	0.01
8.25	P/F 2nd class teak wood plain lining with wooden plugs.	100 sqm	0.055
8.31	P/F 1st quality ceramic glazed wall tiles over 12 mm thick bed of cement Mortar (1:3) with grey cement slurry @ 3.3kg/sqm	sqm	0.1044
	* White cement		

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		
9.46	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	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

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 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 t	hick cement concrete flooring.	sqm	0.231
11.5	62 mm t	hick cement concrete flooring.	sqm	0.263
11.6	Cement	plaster skirting with cement mortar (1:3).	sqm	0.14
11.7	Cemen	t concrete pavement with C.C. (1:2:4).	cum	3.20
	TERRAZ	ZO FLOORING		
11.9		hick marble chips flooring with under layer 34 mm ment 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		thick marble chips flooring with under layer 31mm ment 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 and 50%	Medium shade pigment with 50% white cement 6 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		hick marble chips flooring with under layer 28 mm ment 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*

Quantity of cement per unit quantity of work (Quintals)	Unit	Description		Code No.
0.1097+0.081*	sqm	hite cement without any pigment	11.11.4	
0.1097	sqm	ght shade pigment with ordinary cement	11.11.5	
0.1097	sqm	rdinary cement without any pigment	11.11.6	
		s skirting :	12 Marble	11.12
		B mm thick with under layer 12 mm thick in ement plaster 1:3 (1 cement : 3 coarse sand)	11.12.1	
0.1292	sqm	.12.1.1 Dark shade pigment with ordinary cement		
0.0887+0.0405*	sqm	.12.1.2 Light shade pigment with white cement		
0.100.0.0000		.12.1.3 Medium shade pigment with 50% white cement and 50% ordinary		
0.109+0.0203*	sqm	cement		
0.109+0.0405*	sqm	.12.1.4 White cement without any pigment		
0.1292	sqm	.12.1.5 Light shade pigment with ordinary cement		
0.1292	sqm	.12.1.6 Ordinary cement without any pigment		
		ole stone flooring	15 Crazy	11.15
0.1200+0.0405*	sqm	B mm thick crazy marble stone white, black or as pecified	11.15.1	
		White Cement		
		RING	TILEF	
		razo tiles 22mm thick in floors, and landings on bed of cement mortar (1:4).		11.16
0.0895+0.044*	sqm	ght shade using white cement	11.16.1	
0.0917+0.0220*	sqm	edium shade using 50%white cement and 50% dinary cement	11.16.2	
0.0939	sqm	ark shade using ordinary cement	11.16.3	
0.0939	sqm	rdinary cement without any pigment	11.16.4	
		razo tiles 22 mm thick in skirting and risers of steps.	18 Precas	11.18
0.0734+0.066*	sqm	ght shade using white cement.	11.18.1	
0.1064+0.033*	sqm	edium shades using 50% white cement and 50% dinary cement.	11.18.2	
0.1394	sqm	ark shade using ordinary cement	11.18.3	
0.1394	sqm	rdinary cement without any pigment	11.18.4	
		terrazo tiles 22 mm thick in floors on 20 mm cement mortar (1:4).		11.19
0.0895+0.044*	sqm	ight shade using white cement	11.19.1	

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	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
11.20	•	rred precast cement concrete tiles 22 mm thick in n 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	Providin	g and fixing 10mm thick acid and or alkali resistant		
	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 wor marble t	k in skirting, risers of steps etc. with 8 mm thick ile.	sqm	0.1044
	STONE	FLOORING		
11.23		stone flooring with 18 mm thick marble stone over hick cement mortar (1:4).	sqm	0.13512
	KOTAS	TONE FLOORING		
11.26	Kota sto mortar (one slab flooring over 20 mm thick bed of cement 1:4).	sqm	0.1491
11.27		one slabs 20 mm thick in risers of steps, skirting etc. 2 mm (average) thick cement mortar 1:3.	sqm	0.1374
	SANDS	TONE FLOORING		
11.28		nick fine dressed stone flooring over 20 mm (average) se of cement mortar 1:5 with joints finished flush.	sqm	0.0775
11.29		hick fine dressed stone flooring over 20 mm (average) se of cement mortar 1:5 including pointing with cement :2.	sqm	0.0931
11.30	thick bas	thick rubbed stone flooring over 20 mm (average) se of cement mortar 1:5 with joints 3mm thick, side I with cement mortar 1:2.	sqm	0.0931

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	CERAMIC GLAZED TILES		
11.37	P/L ceramic glazed floor tiles laid on 20 mm thick Cement Mortar (1:4) with grey cement @ 3.3kg/sqm	sqm	0.1242
11.38	P/L ceramic glazed floor tiles laid on 20mm thick bed of Cement Mortar (1:4) with grey cement @ 3.3kg/sqm	sqm	0.1242
11.39 & 11.40	P/L rectified Glazed Ceramic floor tiles laid on 20mm thick cement mortar (1:4).	sqm	0.1242
	VITRIFIED FLOOR TILES		
11.41 & 11.41A	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.	$0.085 + 0.05^*$
11.55	P/L flamed finish granite stone flooring	100 sqm.	13.50
11.56	P/L polished granite stone	100 sqm.	13.50

^{*} White cement

^{**} Acid alkali resistant cement.

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 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

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 13.0 FINISHING

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	CEMEN	NT 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
	CEMEN	NT 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
		NT PLASTER WITH A FLOATING COAT OF EMENT		
13.7	12 mm neat ce	cement plaster finished with a floating coat of ment :		
	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 neat ce	cement plaster finished with a floating coat of ment :		
	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 cement	t plaster (1:3) finished with a floating coat of neat		
	13.9.1	12 mm Cement Plaster	100 sqm	9.54
	13.9.2	20 mm Cement Plaster	100 sqm	13.62

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	
13.29	18 mm thick plain cement mortar band in cement mortar (1:4)	100 metre 1cm wide	
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	
	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

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
	Note: - cement consumption for pointing is same for modular & non modular bricks.		

^{*} White cement

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 14.0 REPAIRS 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

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 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	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 gang saw cut 18 mm thick, morror polished	sqm	0.09
16.87	P/L gang 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
16.93	Providing and Placing in position 100mm thick precast RCC covers on drain of footpath	sqm	0.352

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 17.0 SANITARY INSTALLATIONS

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
17.1/1 7.2/17.3	Fixing I	ndian European type W.C. pan.	each	0.05
17.4	Fixing w	vhite 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 v	vhite 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 o	ne piece construction white vitreous china squatting		
	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 v	vash basin with C.I. brackets.	each	0.025
17.8	Fixing w	white vitreous china pedestal for wash basin.	each	0.016*
17.9	Fixing kitchen sink with C.I. brackets.		each	0.025
17.10	Fixing kitchen sink with C.I. brackets.		each	0.025
17.11	Fixing k	citchen sink with C.I. brackets.	each	0.025
17.12	Fixing d	Iraining board with C.I. brackets.	each	0.014

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
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
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	Fixing kitchen sink.	each	0.015
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/ 18.7/18.10	Providing	g and fixing G.I./ PE-AL-PE/ PP-R pipes.		
	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/ 18.8/18.11	P/F conc	ealed pipes.	100 metre	0.88
18.32	Construction stop coc	cting masonry Chamber 0x30x50 cm, for k.	each	0.26
18.33	Construction sluice val	eting masonry Chamber 60x60x75 cm, for lve.	each	1.44
18.34	Construction sluice val	eting masonry Chamber 90x90x100 cm, for lve.	each	2.48
18.35	Construction sluice value	eting masonry Chamber 120x120x100 cm, for lve.	each	3.50
18.36	Construct hydrants	eting masonry Chamber 60x60x75 cm, for fire	each	1.30
18.37	Construct water me	eting masonry Chamber 60x45x50 cm, for eter.	each	1.34
18.76	Cutting h	oles up to 30x30 cm in walls including making same.	100 Nos.	2.92
18.77	and repa	ioles up to 15x15 cm in R.C.C. floors and roofs iring the hole after insertion of drain pipes etc. ent concrete (1:2:4).	100 Nos.	0.70
18.78		chases up to 7.5x7.5 cm in walls i/c finishing.	100 metre	0.88
18.79	Making h	nole up to 20x20 cm and embedding pipes up to diameter in masonry and filling with cement	100 metre	

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 19.0 DRAINAGE

Code No.		Description	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	cement concrete (1:5:10) upto haunches of pes:		
	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
	19.3.4	250 mm diameter S.W. pipe	100 metre	20.28
	19.3.5	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

Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	19.6.9 800 mm dia. R.C.C. pipe	100 metre	4.20
	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	Constructing brick masonry manhole in cement n	nortar (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 depth for manholes		
	19.8.1 Size 90x80 cm	metre	1.26
	19.8.2 Size 120x90 cm	metre	1.52
19.9	Constructing brick masonry circular type manhol internal dia at bottom and 0.56m dia at top in cermortar (1:4).		
	19.9.1 0.91 m deep	each	2.75
19.10	Extra depth for circular type manhole 0.91m inter (at bottom) with beyond 0.91m to 1.67m	nal dia metre	1.40
19.11	Constructing brick masonry circular manhole 1.2 internal dia at bottom and 0.56m dia at top in cermortar (1:4).		
	19.11.1 1.68 m deep	each	5.39
19.12	Extra depth for circular type manhole 1.22m inter (at bottom) beyond 1.68 m to 2.29 m.	nal dia metre	1.43
19.13	Constructing brick masonry circular manhole 1.5 internal dia at bottom and 0.56 m dia at top in ce mortar (1:4).		
	19.13.1 2.30 m deep	each	10.86
19.14	Extra depth for circular type manhole 1.52 m inte (at bottom) beyond 2.30 m.	rnal dia metre	3.11
19.15	Providing M.S. foot rests including fixing in manh 20x20x10 cm cement concrete blocks (1:3:6).	oles with 100 nos.	0.88
19.16	Providing orange colour safety foot rest.	100 nos.	1.98
19.17	Replacement of M.S. foot rests in manholes with 10x10 cm C.C. blocks (1:3:6) mix.	20x 100 nos.	0.88

Code No.		De	scription	Unit	Quantity of cement per unit quantity of work (Quintals)
19.19	Providing cover and		in position precast R.C.C. manhole		
	19.19.1	LD- 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
		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	_		of drain or sewer line with existing manhole walls, floors with C.C.(1:2:4) mix.		
	19.21.1	For pipes 1	00 to 250 mm diameter	each	0.056
	19.21.2	For pipes 1	00 to 300 mm diameter	each	0.095
	19.21.3	For pipes 1	00 to 450 mm diameter	each	0.153
19.22		-	iron drop connection externally for 60 cm wer line to main sewer manhole. :		
	19.22.1	100 mm dia	a sand cast iron drop connection	each	0.34
	19.22.2	150 mm dia	a sand cast iron drop connection	each	0.46
19.23	Extra for connection		ond 60 cm of sand cast iron drop		
	19.23.1	For 100 mr	m dia. sand cast iron drop connection	metre	0.21
	19.23.2	For 150 mr	m dia. sand cast iron drop connection	metre	0.26
19.27		cting brick m cement mor	asonry road gully chamber 50x45x tar (1:4).	each	0.93
19.28		cting brick m in cement m	asonry road gully chamber 45x45x nortar (1:4).	each	0.82
19.29		cting brick m in cement m	asonry road gully chamber 110x50x nortar (1:4).	each	1.66
19.30			asonry chamber for underground C.I. and bends in cement mortar (1:4).		
	19.30.1	Inside dime for single p	ensions 455x610 mm and 45 cm deep ipe line	each	0.90

Code No.	Description		Unit	Quantity of cement per unit quantity of work (Quintals)
	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 fo	r 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
19.32	Making	soak pit 2.5 m diameter 3.0 metre deep.	each	0.072
19.34		ng and fixing S.W. intercepting trap in manholes with ture 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	450 mm dia RCC pipe	100 metre	1.20
	19.35.2	600 mm dia RCC pipe	100 metre	1.60
	19.35.3	900 mm dia RCC pipe	100 metre	2.50
	19.35.4	1000 mm dia RCC pipe	100 metre	2.80
	19.35.5	1200 mm dia RCC pipe	100 metre	3.40
	19.35.6	1800 mm dia RCC pipe	100 metre	4.90
19.36	P/L Non	pressure Np-4 class	100 metre	
	19.36.1	450 mm dia RCC pipe	100 metre	1.20
	19.36.2	600 mm dia RCC pipe	100 metre	1.60
	19.36.3	900 mm dia RCC pipe	100 metre	2.50
	19.36.4	1000 mm dia RCC pipe	100 metre	2.80
	19.36.5	1200 mm dia RCC pipe	100 metre	3.40
	19.36.6	1800 mm dia RCC pipe	100 metre	4.90

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 20.0 PILE WORK

Code No.		Description	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	cement	providing and installing bored cast-in-situ reinforced concrete piles of grade M -25 by tripod and cal winch machine.		
	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
20.2A	cement	providing and installing bored cast-in-situ reinforced concrete piles of grade M -25 by crawler mounted, ic boom hydraulic pilling Rig.		
	20.2A.1	600 mm dia piles	metre	0.932
	20.2A.2	750 mm dia piles	metre	1.456
	20.2A.3	1000 mm dia piles	metre	2.590
	20.2A.4	1200 mm dia piles	metre	3.729
	20.2A.5	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	providing additional bulb in under reamed piles.		
	20.4.1	300 mm dia piles	metre	0.109

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	20.4.2	400 mm dia piles	metre	0.208
	20.4.3	450 mm dia piles	metre	0.267
	20.4.4	550 mm dia piles	metre	0.396
20.5		ng, driving and installing driven Pre-cast reinforced concrete piles of grade M -25.		
	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

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 22.0 WATER PROOFING

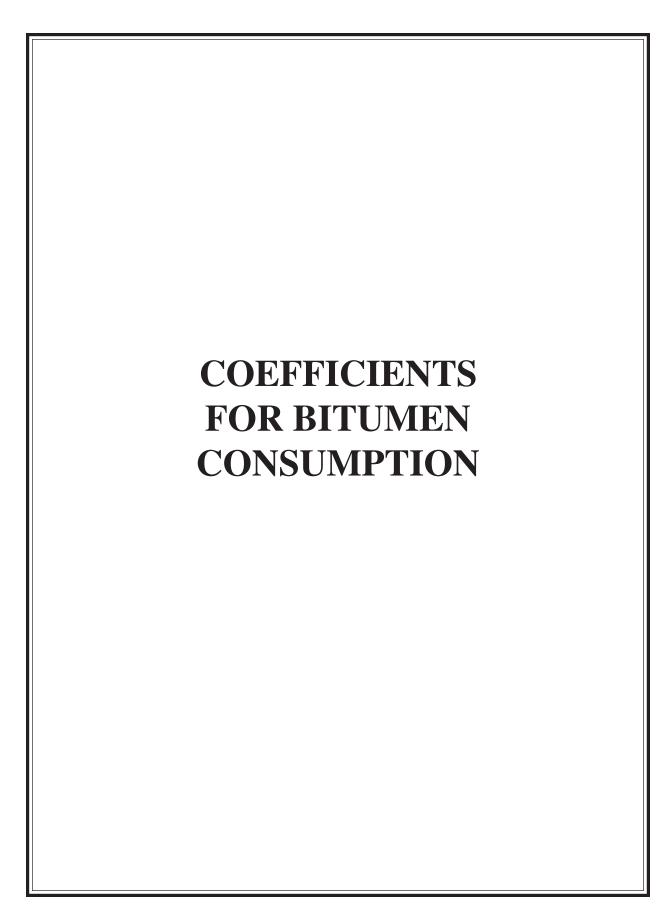
Code No.	Description	Unit	Quantity of cement per unit quantity of work (Quintals)
22.1	P/L integral cement based treatment for water proofing on horizontal surface. :		
	22.1.1 Using rough kota stone	sqm	0.342
22.2	P/L integral cement based treatment for water proofing on the vertical surface. :		
	22.2.1 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)		
	(iii) IIIrd 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	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 26.0 NEW TECHNOLOGIES AND MATERIALS

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
26.31.1		lymer (@10% of cement weight) modified cementitious at @2.2 kg cement per sqm.	100 sqm	2.2
26.32	make) m	g, mixing and applying SBR polymer (of approved odified Cement mortar in proportion of 1:4 (1 cement: d coarse sand with polymer minimum 2% by wt. of used).		
	26.32.1	12 mm average thickness.	100 sqm	5.47
	26.32.2	25 mm average thickness in 2 layers.	100 sqm	11.40
	26.32.3	50 mm average thickness in 3 layers.	100 sqm	22.80
26.33	make @	g, mixing and applying SBR polymer (of approved minimum 2% by wt. of cement used) modified plain/ed cement concrete for structural members.		
	26.33.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	16.50
		75mm thick in Grade M 25 with cement content than 330 kg per cum	100 sqm	24.75
26.34	@ minin	g and laying SBR Polymer modified (of approved make num 2% by wt. of cement used) plain/reinforced g jacket for the structural members e.g. columns, iers, beams etc with concrete.		
	26.34.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	16.5
	26.34.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	24.75
	26.34.3	100mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	33.00
26.35	recomm	ng and injecting approved grout in proportion ended by the manufacturer into cracks/honey-comb concrete/masonry by suitable gun/pump.		
	26.35.1	Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/RCC work	100 kg	1.00
	26.35.2	Stirrer mixed SBR Polymer (of approved make) modified Cement slurry made with Shrinkage Compensating Cement in concrete/RCC work.	100 kg	1.00

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
26.38		ting R.C.C. columns, beams and slabs etc. in layers roved design mix concrete having.		
	26.38.1	25mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	10.31
	26.38.2	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	20.63
	26.38.3	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	30.94
26.46	Expande of EPS o welded v	g and fixing in position, 200 mm thick factory made ed olystyrene Core (EPS Core) wall panels consisting ore sandwiched between two Engineered sheets of wire fabric meshapplying the layer of hick cement mortar 1:3 (1 cement: 3 coarse sand)	100 sqm	51.00
26.47	Expand panels mortar 1 75 mm t	g and fixing in position, 230mm thick factory made ed Polystyrene Core (EPS Core) roof/floor applying a layer of 60-65 mm thick cement: 3 {1 cement: 3 coarse sand applying 70-thick layer of cement concrete 1:1.5: 3 (1 cement rise sand: 3 graded stone aggregate 20 mm nominal	100 sqm	58.60
26.53	•	empty cavities with quarry dust mixed with cement	cum	0.72
26.58	Filling of	joints between RCC plinth beam/floor slab and wall external walls	100 metre	
26.59		oofing treatment of vertical joints between door frame, & ventilator frames	100 metre	0.03125
26.61	In filling/ and wall	sealing of joint between RCC lintel cum sunsdhade	100 metre	0.03125
26.66		ory made EPS wall panels consisting EPS core ched between two Enginered sheets	sqm	0.357
26.68	P/F Fact and plint	tory made Precast Concrete solid blocks in foundation th	sqm	0.2825
26.69		tory made Precast Concrete solid blocks in ucture above plinth level up to floor V level	cum	0.2825
26.70		g and laying half block masonry with factory made concrete solid blocks in foundation and plinth	100 sqm	2.6904
26.71	Precast	g and laying half block masonry with factory made concrete solid blocks insuperstructure above plinth to floor V level	100 sqm	2.6904
26.73.1		ion & Manufacturing of prestressed Hollow Core slab ete grade M-40 (cement conetent 400kg)		
	26.73.1.	1 100 mm thick hollow core slab	metre	0.36

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
	26.73.1.2	120 mm thick hollow core slab	metre	0.432
	26.73.1.3	150 mm thick hollow core slab	metre	0.54
	26.73.1.4	200 mm thick hollow core slab	metre	0.672
	26.73.1.5	250 mm thick hollow core slab	metre	0.84
	26.73.1.6	300 mm thick hollow core slab	metre	1.008
	26.73.1.7	350 mm thick hollow core slab	metre	1.176
	26.73.1.8	400mm thick hollow core slab	metre	1.344
26.73.2	Extra for of M-40	using M-50 (Cement content 425kg) instead		
	26.73.2.1	100 mm thick hollow core slab	metre	0.0225
	26.73.2.2	120 mm thick hollow core slab	metre	0.027
	26.73.2.3	150 mm thick hollow core slab	metre	0.03375
	26.73.2.4	200 mm thick hollow core slab	metre	0.042
	26.73.2.5	250 mm thick hollow core slab	metre	0.0525
	26.73.2.6	300 mm thick hollow core slab	metre	0.063
	26.73.2.7	350 mm thick hollow core slab	metre	0.0735
	26.73.2.8	400mm thick hollow core slab	metre	0.084
26.73.3	Extra for M-40	using M-60 (Cement content 440kg) instead of		
	26.73.3.1	100 mm thick hollow core slab	metre	0.036
	26.73.3.2	120 mm thick hollow core slab	metre	0.0432
	26.73.3.3	150 mm thick hollow core slab	metre	0.054
	26.73.3.4	200 mm thick hollow core slab	metre	0.0672
	26.73.3.5	250 mm thick hollow core slab	metre	0.084
	26.73.3.6	300 mm thick hollow core slab	metre	0.1008
	26.73.3.7	350 mm thick hollow core slab	metre	0.1176
	26.73.3.8	400mm thick hollow core slab	metre	0.1344
26.74		on and maufacturing of solid precast concrete for walls,stairs,column etc.,		
	26.74.1	Concrete grade M-35 (Cement content 370 kgs)	cum	3.70
	26.74.2	Extra for using M-40 (Cement content 400 kg) instaed of M-35	cum	0.30
	26.74.3	Extra for using M-50 (Cement content 425 kg) instaed of M-35	cum	0.55
	26.74.4	Extra for using M-60 (Cement content 440 kg) instaed of M-35	cum	0.70
26.82	Providing	and laying rigid EPS (cellular plastic material) blocks	100 sqm	8.38



2.0 COEFFICIENTS FOR BITUMEN CONSUMPTION 16.0 ROAD WORK

Code No.		Description	Unit	Quantity of bitumen per unit quantity of work (Quintals)
	SURFAC	CE DRESSING		
16.25	Surface grade V	dressing on new surface with paving bitumen of G -10.	sqm	0.0225
16.26	Surface dressing on new surface in two coats with bitumen of grade VG -10.			0.029
16.27	Surface grade V(dressing on old surface with hot bitumen of G -10.	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	Providing	g and applying tack coat with bitumen of grade VG-10:		
	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 etting):		
	16.31.1.	1 On W.B.M @ 0.4kg/sqm	sqm	0.0040
	16.31.1.	2On bituminous surface @ 0.25kg/sqm	sqm	0.0025
16.32		emix carpet surfacing with paving asphalt VG-10/ nodified bitumen CRMB 55.	sqm	0.0144
16.33		remix carpet surfacing with paving asphalt VG-10/ nodified bitumen CRMB 55.	sqm	0.018
16.34	2 cm pre	mix carpet surfacing with bitumen emulsion.	sqm	0.0255*
16.35	2.5 cm p	remix carpet surfacing with bitumen emulsion.	sqm	0.0313*
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	0.050
	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	5 mm thick	sqm	0.0588
	16.37.2	40 mm thick	sqm	0.0941

VG-10/V 4 cm thic VG-10/V SEAL CO P/L seal P/L seal	coat using 128 kg of bitumen of grade VG-10. coat using 98 kg of bitumen of grade VG-10. se Bituminous macadam: 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by	sqm sqm sqm	0.0303 0.0479 0.0077 0.0098
VG-10/V SEAL CO P/L seal P/L seal P/L Dens	G-30/modified bitumen CRMB 55. DAT coat using 128 kg of bitumen of grade VG-10. coat using 98 kg of bitumen of grade VG-10. see Bituminous macadam: 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by	sqm	0.0077
P/L seal P/L seal P/L Dens	coat using 128 kg of bitumen of grade VG-10. coat using 98 kg of bitumen of grade VG-10. se Bituminous macadam: 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by	-	
P/L seal	coat using 98 kg of bitumen of grade VG-10. se Bituminous macadam: 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by	-	
P/L Den	se Bituminous macadam : 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by	sqm	0.0098
	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by		
16.54.1	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	1.1538
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	1.1538
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
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 capacity.	100 sqm	2.8846
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.	100 sqm	2.8846
	Providing 16.55.1 16.55.2 Providing 16.56.1	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. Providing 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. 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. Providing 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 capacity. 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 Aggregate) prepared in Drum Type Hot Mix Plant of Aggregate) prepared in Drum Type Hot Mix Plant	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. Providing 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. 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. Providing 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 capacity. 100 sqm 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 Aggregate) prepared in Drum Type Hot Mix Plant

Code No.		Description	Unit	Quantity of cement per unit quantity of work (Quintals)
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	1.2958
	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	1.2958
	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.	cum	1.2958
	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	1.2958
	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	1.2958
	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	1.2958
	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	1.2958
	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	1.2958
	* Includi	ng tack coat		

2.0 COEFFICIENTS FOR BITUMEN CONSUMPTION 22.0 WATER PROOFING

Code No.	Description	Unit	Quantity of bitumen per unit quantity of work (Quintals)
	SURFACE DRESSING		
22.3	P/L water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like	sqm	0.0170
22.6	P/L water proofing treatment on roofs with cement slurry & fibre glass cloth. sqm	0.0097	
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	0.0290
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	0.0360
22.18	P/F APP.		
	22.18.1 2 mm (for corrugated roof sheets)	sqm	0.0035
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	0.0035
22.20	P/L APP 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	0.0035



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