बिहार सरकार

BUILDING CONSTRUCTION DEPARTMENT

Schedule of Rates

Volume – I

(Edition – Nineth)

Effective from : 27.09.2018

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Second Edition	:	16.01.2009
Third Edition	:	24.11.2009
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Fifth Edition	:	16.07.2012
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BUILDING CONSTRUCTION DEPARTMENT
BIHAR

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ENGINEERING IN CHIEF
BUILDING CONSTRUVCTION DEPARTMENT
BIHAR, PATNA

Code No	Description	Unit	Rate Rs. As per 9th ed
047	Concrete joint cutting machine	Per day	**900.00**
048	Texturing machine	Per day	**925.00**
	Note:- Above hire-charges include cost of service of operating staff and supply of lubricating oil.		
	NEW CODES		
049	Dozer D-80-A 12	hour	**2000.00**
050	Motor Grader 3.35 metre blade	hour	**2100.00**
051	Hydraulic Excavator of 1 cum bucket	hour	**800.00**
052	Front end loader 1 cum bucket capacity (incl POL)	hour	**800.00**
053	Tipper -5 Cum	tonne km	**3.00**
054	Vibratory roller 8 to 10 tonne	hour	**650.00**
055	Smooth Wheeled Roller 8 to 10 tonne	hour	**200.00**
056	Tandem Road Roller	hour	**1150.00**
057	Water Tanker 5 to 6 KL capacity	hour	**200.00**
058	Air compressor	hour	**200.00**
059	Wet Mix Plant 60 TPH	hour	**750.00**
060	Mechanical Broom Hydraulic	hour	**200.00**
061	Emulsion Pressure Distributor @ 1750 sqm per hour	hour	**800.00**
062	Hot mix Plant -120 TPH capacity	hour	**15000.00**
063	Hot mix Plant 100 TPH Capacity	hour	**13000.00**
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	**1500.00**
065	Paver finisher Mechanical 100 TPH	hour	**700.00**
066	Batching and Mixing Plant @ 75 cum per hour	hour	**2500.00**
068	Concrete Paver finisher with 40 HP Motor and sensor	hour	**2500.00**
069	Generator 250 KVA	hour	**400.00**
070	Generator 100 KVA/125 KVA	hour	**300.00**
071	Truck 5.5 cum/ 10 tonnes	tonne km	**3.00**
075	Road sweeper (Mechamical Broom) @ 1250 sqm per hour	hour	**300.00**
076	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	**11000.00**
080	Hire and running charges of drill machine up to 400 mm dia cost of mobile oil, diesel consumption in ordinary soil and operator)(including	day	**7500.00**
0081	Pile integrity testing equipment	day	**3000.00**
0082	Excavation of diaphragm wall by mechanical grab	sqm	**1500.00**
0083	Hire charges of TATA 407 or eqivalent fr local shifting	day	**1400.00**
	Note :- Above hire - charges (from item code 0049 to 0082) include cost of services of operating staff, supply of lubricating oil and diesel also.		

BASIC RATES - Contd.

0.2 LABOUR

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

Code No	Description	Unit	Rate As per Lab deptt noti no124/1-04-16 Rs.	Rate As per Lab deptt noti no 1443/28-03-18 Rs.
0100	Bandhani	per day	222.00	270.00
0101	Bhishti	per day	229.00	277.00
0102	Blacksmith 1st class	per day	279.00	342.00
0103	Blacksmith 2nd class	per day	249.00	305.00
0107	Bullockman with single builock	per day	284.00	348.00
0111	Carpenter 1st class	per day	279.00	342.00
0112	Carpenter 2nd class	per day	249.00	305.00
0113	Chowkidar	per day	220.00	267.00
0114	Beldar	per day	206.00	254.00
0115	Coolie	per day	218.00	265.00
0116	Fitter (Grade 1)	per day	283.00	348.00
0117	Assistant Fitter or 2nd class Fitter	per day	249.00	305.00
0119	Glazier	per day	233.00	286.00
0122	Mason {For plaster of paris work} 1st class	per day	279.00	342.00
0123	Mason (for orick work) 1st class	per day	279.00	342.00
0124	Mason (for brick work) 2nd class	per day	249.00	305.00
0125	Mason (for plain stone work) 2nd class	per day	249.00	305.00
0126	Mason (for ornamental stone work) 1st class	per day	279.00	342.00
0127	Concrete mixer operator Gr 1	per day	265.00	323.00
0128	Mate	per day	222.00	270.00
0129	Mali	per day	262.00	322.00
0130	Mistry	per day	206.00	254.00
0131	Painter	per day	275.00	323.00
0132	Rock Excavator	per day	220.00	267.00
0133	Rock Breaker	per day	220.00	267.00
0134	Rock Hole Driller	per day	220.00	267.00
0135	Stone Chiseller	per day	222.00	270.00
0136	Sewerman	per day	222.00	270.00
0138	Sprayman (for bitumen, tar etc.)	per day	220.00	267.00
0139	Skilled Beldar (for floor rubbing etc.) / Grinder	per day	249.00	305.00
0141	White Washer	per day	262.00	322.00
0154	Nozzel man/ Gun man	per day	354.00	430.00
0155	Mason (average)	per day	249.00	305.00
0156	Carpenter (average)	per day	249.00	305.00
0157	Operator (Pile/Special machines)	per day	354.00	430.00
0158	Mechanic (Pile/ Assistant operator)	per day	323.00	392.00
0159	Skilled Torch Operator	per day	262.00	322.00

Code No	Description	Unit	Rate As per Lab deptt noti no124/1-04-16 Rs.	Rate As per Lab deptt noti no 1443/28-03-18 Rs.
0160	Technician	per day	361.00	439.00
0161	Helper (Technician)	per day	206.00	254.00
0162	Labour for fabrication of uPVC extruded casement/ sliding windows and doors including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	per day	354.00	430.00
0163	Labour for installation of uPVC extruded casement/ sliding windows and doors including scaffolding	per day	249.00	305.00
0L01	Un Skilled labour	per day	206.00	254.00
0L02	Un Skilled labour	per day	206.00	254.00
0L03	Mistri	per day	206.00	254.00
0L04	Cleaner	per day	206.00	254.00
0L05	Helper	per day	206.00	254.00
0L06	Khalasi	per day	206.00	254.00
0L11	Electrician Gr-I	per day	265.00	323.00
0L11A	Electrician Gr-II	per day	247.00	301.00
0L12	Lineman/wireman	per day	243.00	294.00
0L13	Chargeman	per day	299.00	364.00
0L14	Fore man	per day	354.00	430.00
0L15	Welder Gr I	per day	315.00	383.00
0L19	Cheker	per day	252.00	308.00
0L20	Hammerman	per day	220.00	267.00
0L21	Tin smith	per day	284.00	348.00
0L22	Tin plate maker	per day	299.00	364.00
0L25	Tile layer	per day	222.00	270.00
OL26	Thatcher	per day	222.00	270.00
0L27	Plumber	per day	265.00	323.00
0L28	Grader	per day	252.00	308.00
0L29	Road binder	per day	233.00	286.00
0L32	Stone layer	per day	247.00	301.00
0L34	Fire man	per day	222.00	270.00
0L36	Gas cutter	per day	264.00	320.00
0L37	Rigger	per day	252.00	308.00
0L38	Sarang	per day	270.00	364.00
0L39	Chipper cum riveitew	per day	264.00	320.00
0L40	Tractor operator	per day	299.00	364.00
0L43	Vibrator operator	per day	232.00	284.00
0L44	Pump driver Gr I	per day	265.00	323.00
0L46	Concrete mixture operator *Gr* I	per day	265.00	323.00
0L49	Truck Driver	per day	299.00	364.00
0L50	Car/Jeep Driver	per day	264.00	320.00

Code No	Description	Unit	Rate As per Lab deptt noti no124/1-04-16 Rs.	Rate As per Lab deptt noti no 1443/28-03-18 Rs.
0L51	Crane Operator Gr 1	per day	354.00	430.00
0L52	Winch Operator	per day	265.00	323.00
0L53	Road Roller Driver	per day	361.00	439.00
0L56	Polisher	per day	222.00	270.00
0L70	Any Other category of semi skilled worker not mentioned above	per day	215.00	265.00
0L71	Any other category of skilled worker not mentioned above	per day	262.00	322.00
0L72	Highly skilled workers	per day	319.00	392.00

0.3 MATERIALS FOR BUILDING WORK AND ROAD WORK (INPUT RATE)

Note.- These rates are exclusive of contractor's profit, over heads ,carriage and all octroi (vat,GST and other taxes)

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0200	Plain ended valley gutters Sheets 6 mm thick (corrugated)	sqm	**195.21**	****
0204	Curved barge board	each	**143.28**	****
0205	Barge Board 2.44 metre long	each	**334.90**	****
0206	Barge Board 1.83 metre long	each	**250.74**	****
0207	Drop end for plain ended valley gutter One piece plain angular ridge 1 .22 metres long	each	**145.06**	****
0208	Plain ended valley gutters Serrated or plain wing Adjustable Ridge 1.22 m long	pair	**198.80**	****
0209	Close fittings adjustable ridge 1.10 m long	pair	**225.65**	****
0210	Drop end for plain ended valley gutter North light adjustable ridge 1.22 mm long	pair	**198.80**	****
0211	Plain ended valley gutters Ridge finials	pair	**102.08**	****
0212	Plain ended valley gutters Unserrated adjustable ridge for hips	pair	**198.80**	****
0213	Plain ended valley gutters Roof light (1.82 metre long)	each	**1074.56**	****
0214	Apron flashing pieces	each	**139.69**	****
0215	Drop end for plain ended valley gutter Eaves filler pieces	each	**102.08**	****
0216	Drop end for plain ended valiey gutter North iight ventilator curves	each	**245.37**	****
0219	Drop end for plain ended valley gutter Expansion joint for North light curves	each	**150.44**	****
0220	Drop end for plain ended valley gutter Expansion joint for ridqes	pair	**281.18**	****
0221	Drop end for plain ended valley gutter Louvers 'S' type (1.75 m)	each	**118.21**	****
0222	Seam bolts nuts 6mm dia and 25mm long	10 Nos	**34.44**	*
0223	Non asbestos Fibre (high impact poly propelene reinforced) cement corrugated sheet 6 mm thick	sqm	**209.41**	*
0224	Non asbestos Fibre (high impact poly propelene reinforced) cement close fitting adjustable ridge	metre	**195.45**	*
0225	Non asbestos Fibre (high impact poly propelene reinforced) cement corrugate serrated adjustable ridge	metre	**195.45**	*
0226	Non asbestos Fibre (high impact poly propelene reinforced) cement plain wing adjustable ridge	metre	**195.45**	*
0227	Non asbestos Fibre (high impact poly propelene reinforced) cement unserrated adjustable ridge for hips	metre	**195.45**	*
0228	Non asbestos Fibre (high impact poly propelene reinforced) cement corrugated apron piece	metre	**186.14**	*
0229	Non asbestos Fibre (high impact poly propelene reinforced) cement eaves filler piece	each	**162.88**	*
0230	Non asbestos Fibre (high impact poly propelene reinforced) cement north light curves	metre	**260.60**	*
0231	Non asbestos Fibre (high impact poly propelene reinforced) cement ventilator curves	each	**288.52**	*
0232	Non asbestos Fibre (high impact poly propelene reinforced) cement barge boards boards 6mm thick	metre	**372.29**	*
0233	Non asbestos Fibre (high impact poly propelene reinforced) cement ridge finial	pair	**153.57**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0234	Non asbestos Fibre (high impact poly propelene reinforced) cement special north light curves	each	**516.55**	*
0235	Non asbestos Fibre (high impact poly propelene reinforced) cement S type louvers	each	**241.99**	*
0236	Multi purpose fibre (high impact poly propelene reinforced) cement boards 6mm thick	sqm	**195.45**	*
0237	Multi purpose fibre (high impact poly propelene reinforced) cement boards8mm thick	sqm	**200.11**	*
0238	6 mm thick heavy duty fiber cement board	sqm	**409.52**	*
0239	8mm thick heavy duty fiber cement board	sqm	**299.69**	*
0240	9 mm thick heavy duty fiber cement board	sqm	**613.35**	*
0241	12.5 mm thick Gypsum plaster board	sqm	**148.92**	*
0242	6 mm thick mulitipurpose cement bonded wood particle board conforming to IS : 14276	sqm	**190.80**	*
0243	8 mm thick mulitipurpose cement bonded wood particle board conforming to IS : 14276	sqm	**195.45**	*
0285	Brick Aggregate (Single size) 63 mm nominal size	cum	1222.00	**
A	For Uraban Patna	cum	1303.00	**
B	For Purnea,Saharsa,Bhagalpur,Munger & Darabhaga	cum	1247.00	**
C	For other places	cum	1222.00	**
D	For Patna Rural	cum	1273.00	**
0286	Brick Aggregate (Single size) 50 mm nominal size	cum	1351.00	**
A	For Uraban Patna	cum	1452.00	**
B	For Purnea,Saharsa,Bhagalpur,Munger & Darabhaga	cum	1392.00	**
C	For other places	cum	1351.00	**
D	For Patna Rural	cum	1408.00	**
0287	Brick Aggregate (Single size) 40 mm nominal size	cum	1351.00	**
A	For Uraban Patna	cum	1452.00	**
B	For Purnea,Saharsa,Bhagalpur,Munger & Darabhaga	cum	1392.00	**
C	For other places	cum	1351.00	**
D	For Patna Rural	cum	1408.00	**
0291	Stone Aggregate (Singie size) 63 mm nominal size	cum	431.67	**
0292	Stone Aggregate (Single size) 50 mm nominal size.	cum	431.67	**
0293	Stone Aggregate (Single size) 40 turn nominal size	cum	445.22	**
0294	Stone Aggregate (Single size) 25 mm nominal size	cum	530.48	**
0295	Stone Aggregate (Single size) 20 mm nominal size	cum	556.33	**
0296	Stone Aggregate (Single size) 12.5 mm nominal size	cum	649.26	**
0297	Stone Aggregate (Single size) 10 mm nominal size	cum	620.42	**
0298	Stone Aggregate (Single size) 6 mm nominal size	cum	412.49	**
0302	Safeda bailies 125 mm diameter	metre	**32.57**	*
0303	Cowdung	cum	**46.54**	*
0304	Bajri	cum	**1116.87**	*
0305	Bamboo 25mm dia 2.5 meter long	score	**372.29**	*
0308	Bhusa	quintal	**558.43**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0309	Paving bitumen S-90 of approved quality	tonne	**27549.41**	*
0310	Bitumen emulsion	tonne	39495.00	**
0312	Bitumen grade PMB- 40	tonne	**35879.39**	*
0313	Blown type petrolium bitumin of Penetration 85/25 of opproved quality	tonne	**32166.73**	*
0314	Bitumen hot sealing compound Grade A	kilogram	**26.06**	*
0316	Bitumen hot sealing compound Bitumen solution primer of approved quality	litre	**46.54**	*
0317	Premoulded joint filler 12 mm thick	sqm	**282.01**	*
0318	Bitumen felt fibre base (vegetable or animal) :As per IS 7193 Grade I	sqm	**65.15**	*
0319	Bitumen felt as per IS 7193 Grade II	sqm	**74.46**	*
0322	Bitumen felt Type 3 grade I confirming to IS : 1322	sqm	**65.15**	*
0323	Separation Membrane of impermeable plastic sheeting 125 micron thick	sqm	**11.17**	*
0324	Coal tar	litre	**27.92**	*
0325	Blasting Material Blasting powder	kilogram	**32.58**	*
0326	Blasting Material Blasting fuse (fuse wire)	each	**13.96**	*
0328	White face insulating board: 12 mm thick	sqm	**232.68**	*
0332	Natural colour insulating board: 12 mm thick	sqm	**204.76**	*
0336	Flame retardant face insulating board: 12 mm thick	sqm	**307.14**	*
0339	Flame retardant face insulating board: Impregnated fibre board 12 mm thick	sqm	**325.75**	*
0341	Flat pressed 3 layer particle board (medium density) Grade I 12 mm thick	sqm	**307.14**	*
0346	Extra for veneered particle board with Teak veneering on one side and commercial veneering on other side	sqm	**251.30**	*
0347	Extra for veneered particle board with Commercial veneering pn both sides	sqm	**167.53**	*
0348	Extra for veneered particle board with Teak veneering on both sides	sqm	**465.36**	*
0349	Curing compound	litre	**27.92**	*
0351	Integral crystalline slurry	kg	**251.30**	*
0352	Integral crystalline admixture	kg	**287.59**	*
0353	Crystalline mortar	kg	**230.82**	*
0354	Integral crystalline dry shake	kg	**383.46**	*
0355	Swellable type water stop tape	metre	**387.18**	*
0356	Primer for swellable type water stop tape	litre	**1628.77**	*
0357	Polymer modified adhesive mortar	kg	**13.50**	*
0362	Brick bats	cum	**1004.00**	**
A	For Uraban Patna	cum	**1095.00**	**
B	For Purnea,Saharsa,Bhagalpur,Munger & Darabhaga	cum	**1050.00**	**
C	For other places	cum	**1004.00**	**
D	For Patna Rural	cum	1049.00	**
0364	Wire brush	each	**18.61**	*
0365	Soft brush	each	**16.75**	*
0367	Portland Slag cement (P.S.C.)	tonne	**5474.00**	***
0367A	Patna	tonne	5718.00	***

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0367B	Muzaffarpur	tonne	5688.00	***
0367C	Darbhanga	tonne	5572.00	***
0367D	Bhagalpur	tonne	5704.00	***
0367E	Munger	tonne	5492.00	***
0367F	Saharsa	tonne	5670.00	***
0367G	Purnea	tonne	5572.00	***
0367H	Gaya	tonne	5474.00	***
367 I	Saran	tonne	5630.00	***
0367	Portland pozaiona cement (P.P.C.)	tonne	**3984.00**	***
0367A	Patna	tonne	4532.00	***
0367B	Muzaffarpur	tonne	4376.00	***
0367C	Darbhanga	tonne	4376.00	***
0367D	Bhagalpur	tonne	4532.00	***
0367E	Munger	tonne	4490.00	***
0367F	Saharsa	tonne	4454.00	***
0367G	Purnea	tonne	4606.00	***
0367H	Gaya	tonne	3984.00	***
367 I	Saran	tonne	4428.00	***
0367	Ordinary Portland cement (O.P.C.) Grade -43	tonne	4882.00	***
0367A	Patna	tonne	5156.00	***
0367B	Muzaffarpur	tonne	5156.00	***
0367C	Darbhanga	tonne	5156.00	***
0367D	Bhagalpur	tonne	5076.00	***
0367E	Munger	tonne	5076.00	***
0367F	Saharsa	tonne	5156.00	***
0367G	Purnea	tonne	5156.00	***
0367H	Gaya	tonne	4882.00	***
367 I	Saran	tonne	5068.00	***
0368	White cement	tonne	**10424.10**	*
0369	Plastic sheath,1.25 mm thick for dowel bars	sqm	**27.92**	*
0370	Coal (Steam)	quintal	**372.29**	*
0371	Sealant primer	kg	**116.34**	*
0373	Cramp Gun metal 25x6x300 mm	each	**74.46**	*
0374	Pre moulded Joint filler, 25 mm thick for expansion joint.	sqm	**418.83**	*
0378	Brass butt hinges (Light/Ordinary type) 125x70x4 mm	ten	**791.11**	*
0379	Brass butt hinges (Light/Ordinary type) 100x70x4 mm	ten	**651.51**	*
0380	Brass butt hinges (Light/Ordinary type) 75x40x2.5 mm	ten	**400.21**	*
0381	Brass butt hinges (Light/Ordinary type) 50x40x2.5 mm	ten	**167.53**	*
0382	Brass butt hinges (heavy type) 125x85x5.5 mm(0.70kg)	ten	**1342.10**	*
0383	Brass butt hinges (heavy type; 100x85x5.5 mm(0.56kg)	ten	**1073.12**	*
0384	Brass butt hinges (heavy type) 75x65x4.0 mm(0.20kg)	ten	**884.19**	*
0385	Brass parliamentary hinges 150x125x27x5 mm	ten	**2792.17**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0386	Brass parliamentary hinges 125x125x27x5 mm	ten	**2419.88**	*
0387	Brass parliamentary hinges 100x125x27x5 mm	ten	**2233.74**	*
0388	Brass parliamentary hinges 75x100x20x3.2 mm	ten	**1954.52**	*
0389	Brass single acting spring hinges 150 mm	each	**428.13**	*
0390	Brass single acting spring hinges 125 mm	each	**277.36**	*
0391	Brass single acting spring hinges 100 mm	each	**241.99**	*
0392	Brass double acting Spring Hinges 150mm	each	**463.50**	*
0393	Brass double acting Spring Hinges 125mm	each	**381.60**	*
0394	Brass double acting Spring Hinges 1 OOmm	each	**344.37**	*
0400	Brass tower boits (barrel type) 250x10 mm	each	**232.68**	*
0401	Brass tower bolts (barrel type) 200x10 mm	each	**186.14**	*
0402	Brass tower bolts (barrel type) 150x10 mm	each	**139.61**	*
0403	Brass tower bolts (barrel type) 100x10 mm	each	**93.07**	*
0404	Brass flush bolts 250 mm	each	**139.61**	*
0405	Brass flush bolts 150 mm	each	**120.99**	*
0406	Brass flush bolts 100 mm	each	**83.77**	*
0408	Brass handles 125mm with plate 175x32 mm	each	**130.30**	*
0409	Brass handles 100mm with plate 150x32 mm	each	**120.99**	*
0410	Brass handles 75mm with plate 125x32 mm	each	**93.07**	*
0411	Brass door latch 300x16x5 mm (0.380 Kg)	each	**167.53**	*
0412	Brass door latch 250x16x5 mm (0.350 Kg)	each	**158.22**	*
0413	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	**362.98**	*
0414	Brass mortice latch 100x65 mm with a pair of brass level handles	each	**279.22**	*
0417	Brass 150mm floor door stopper (0.357 Kg)	each	**158.22**	*
0418	Brass hard drwn hooks and eyes 300mm	10 nos	**604.97**	*
0419	Brass hard drawn hooks and eyes 250 mm	ten	**591.01**	*
0420	Brass hard drawn hooks and eyes 200 mm	ten	**549.13**	*
0421	Brass hard drawn hooks and eyes 150 mm	ten	**418.83**	*
0422	Brass hard drawn hooks and eyes 100 mm	ten	**372.29**	*
0423	Brass casement window fastener	each	**46.54**	*
0424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	**125.65**	*
0425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	**102.38**	*
0426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	**93.07**	*
0427	Brass quadrant stays 300 mm	each	**116.34**	*
0428	Brass fanlight catch	each	**186.14**	*
0429	Brass fanlight pivot	ten	**181.49**	*
0430	Brass chain with hook for fan light catch	each	**37.23**	*
0431	Brass hasps and Staples (Safety type) 150 mm	ten	**725.96**	*
0432	Brass hasps and staples (safety type) 115 mm	ten	**604.97**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0433	Brass hasps and Staples (Safety type) 90 mm	ten	**521.21**	*
0438	Brass Night latch	each	**553.78**	*
0442	Brass helical Spring 150 mm	each	**288.52**	*
0443	Brass curtain rod 12 mm dia 1.25 mm thick	metre	**81.32**	****
0444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	**111.69**	*
0445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	**130.30**	*
0446	Brass brackets (curtain rods) 20 mm	each	**41.88**	*
0447	Brass cupboard knob or ward robe knob 50 mm	each	**32.58**	*
0449	Brass screws 50 mm	cent	**204.76**	*
0450	Brass screws 40 mm	cent	**158.22**	*
0451	Brass screws 30 mm	cent	**130.30**	*
0452	Bras screws 25 mm	cent	**93.07**	*
0453	Brass screws 20 mm	cent	**88.42**	*
0524	Chromium plated Brass butt hinges (heavy) type 75x65x4.0 mm weighing not less than 200gms	10Nos.	**930.72**	*
0525	Chromium plated Brass butt hinges (light / ordinary) type 125x70x4.0 mm	10 Nos.	**837.65**	*
0526	Chromium plated Brass butt hinges (light / ordinary) type 100x70x4.0 mm	10Nos.	**698.04**	*
0527	Chromium plated Brass butt hinges (light / ordinary) type 75x40x2.5 mm	10 Nos.	**428.13**	*
0528	Chromium plated Brass butt hinges (light / ordinary) type 50x40x2.5 mm	10 Nos.	**186.14**	*
0552	75mm SS fancy handles for kitchen cabinet	10 Nos.	**279.22**	*
0553	100mm SS fancy handles for kitchen cabinet	10 Nos	**465.36**	*
0554	125mm SS fancy handles for kitchen cabinet	10 Nos	**651.51**	*
0555	Chromium plated Brass handles 125mm with plate 175x32mm	each	**162.88**	*
0556	Chromium plated Brass handles 100mm with plate 150x32mm	each	**139.61**	*
0557	Chromium plated Brass handles 75mm with plate 125x32mm	each	**120.99**	*
0558	Chromium plated Brass mortice latch and lock 100mm x 65mm with 6 levers and apair of brass lever and a pair or brass handles	each	**460.71**	*
0568	Chromium plated Brass casement window fastner	each	**88.42**	*
0569	Chromium plated Brass casement stays (straight peg type) 300mm weighing not less than 0.33 Kg.	each	**139.61**	*
0570	Chromium plated Brass casement stays (straight peg type) 250mm weighing not less than 0.28 Kg.	each	**120.99**	*
0571	Chromium plated Brass casement stays (straight peg type) 200mm weighing not less than 0.24 Kg	each	**107.03**	*
0583	Chromium plated Brass Night latch	each	**502.59**	*
0584	Chromium plated Brass .Wardrobe Knob 50 mm	each	**79.11**	*
0585	Chromium plated Brass screws 50mm	100 Nos	**316.45**	*
0586	Chromuim plated Brass screws 40mm	100 Nos	**288.52**	*
0587	Chromium plated Brass screws 30mm	100 Nos	**232.68**	*
0588	Chromium plated Brass screws 25mm	100 Nos	**176.84**	*
0589	Chromium plated Brass screws 20mm	100 Nos	**158.22**	*
0590	Chromium plated *brass* curtain rod 12 mm dia 1.25 mm thick	meter	**186.14**	*
0591	Chromium plated brass curtain rod 20 nm dia 1.25 mm thick	meter	**255.95**	*
0592	Chromiurr: plated brass curtain rod 25 mm dia 1.25 mm thick	meter	**339.71**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0593	C.P. Brass Extension Nipple (1/2"x2" size)	each	**41.88**	
0594	Brigh finish or black enameted mild steel butt hinges 125x65x2.12mm	10 Nos	**130.30**	*
0595	Brigh finish or black enameted mild steel butt hinges 100x58x1.90mm	10 Nos	**79.11**	*
0596	Brigh finish or black enameted mild steel butt hinges 75x47x1.70 mm	10 Nos	**55.84**	*
0597	Brigh finish or black enameted mild steel butt hinges 50x37x1.50 mm	10 Nos	**46.54**	*
0598	150x125x27x2.80 mm porliamentary hinges	10 Nos	**358.19**	****
0599	125x125x27x2.80 mm porliamentary hinges	10 Nos	**322.37**	****
0600	100x125x27x2.80 mm popliamentary hinges	10 Nos	**214.91**	****
0601	75x100x20x2.24 mm parliomentory hinges	10 Nos	**170.82**	****
0602	150 mm single acting spring hinges	each	**103.32**	****
0603	125 mm single acting spring hinges	each	**89.55**	****
0604	100 mm single acting spring hinges	each	**71.65**	****
0605	150 mm double acting spring hinges	each	**125.37**	****
0606	125 mm double acting spring hinges	each	**101.95**	****
0607	100 mm double acting spring hinges	each	**64.73**	****
0608	Nickel plated miid steel piano hinges 1 mm thick 25 mm wide	metre	**37.23**	*
0614	300x20x6 mm door latch	each	**35.82**	****
0615	250x20x6 mm door latch	each	**28.94**	****
0620	125 mm handles	each	**6.89**	****
0621	100 mm handles	each	**5.51**	****
0622	75 mm handles	each	**4.13**	****
0632	115 mm hasper & stopler (safety type)	10 Nos	**81.29**	****
0633	90 mm hasper & stopler (safety type)	10 Nos	**63.37**	****
0635	Brigh finish or black enameled mild steel screws 50 mm	100 Nos	**71.67**	*
0636	Oxidiged mild steel 45 mm screw	100 Nos	**45.46**	****
0637	Bright finish or black enameled mild steel screws 40 mm	100 Nos	**58.64**	*
0638	Bright finish or black enameled mild steel screws 30 mm	100 Nos	**46.54**	*
0639	Bright finish or black enameled mild steel screws 25 mm	100 Nos	**34.44**	*
0640	Bright finish or black enameled mild steel screws 20 mm	100 Nos	**29.78**	*
0641	Bright finished or black enameled mild steel bolts and nuts 50 X 6mm	each	**4.65**	*
0642	Oxidised mild steel butt hinges 125x65x2.12mm	10 Nos	**130.30**	*
0643	Oxidised mild steel butt hinges 100x58x1.90mm	10 Nos	**83.77**	*
0644	Oxidised mild steel butt hinges 75x47x1.70mm	10 Nos	**60.50**	*
0645	Oxidised steel mild butt hinges 50x37x1.50rnrn	10 Nos	**51.19**	*
0646	Oxidised steel mild parliamentary hinges 150x125x27x2.80 mm	10 Nos	**316.45**	*
0647	Oxidised steel mild parliamentary hinges 125x125x27x2.80 mm	10 Nos	**293.18**	*
0648	Oxidised steel mile' parliamentary hinges 100x125x27x2.80 mm	10 Nos	**218.72**	*
0649	Oxidised steel mild parliamentary hinpes 75x100x20x2.24 mm	10 Nos	**186.14**	*
0650	Oxidised mild steel Single acting spring hinges 150mm	each	**130.30**	*
0651	Oxidised mild steel Single acting spring hinges 125 mm	each	**111.69**	*
0652	Oxidised mild steel Single acting spring hinges 100 mm	each	**93.07**	*
0653	Oxidised mild steel double acting spring hinges 150 mm	each	**148.92**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0654	Oxidised mild steel double acting spring hinges 125 mm	each	**130.30**	*
0655	Oxidised mild steel double acting spring hinges 100 mm	each	**111.69**	*
0656	Nickel plated mild steel piano, hinges 1 mm thick 35mm wide	metre	**41.88**	*
0660	Oxidised mild steel sliding door bolts 300x16mm	each	**88.42**	*
0661	Oxidised mild steel sliding door bolts 250x16mm	each	**79.11**	*
0662	Oxidised mild steel door latch 300x20x6 mm	each	**46.54**	*
0663	Oxidised mild steel door latch 250x20x6 mm	each	**37.23**	*
0664	Oxidised mild steel tower bolts (barrel type) 250x10 mm	each	**41.88**	*
0665	Oxidised mild steel lower bolts (barrel type) 200x10 mm	each	**32.58**	*
0666	Oxidised mild steel tower bolts (barrel type) 150x10 mm	each	**27.92**	*
0667	Oxidised mild steel tower bolts (barrel type) 100x10 mm	each	**18.61**	*
0668	Oxidised mild steel handles 125 mm	each	**18.61**	*
0669	Oxidised mild steel handles 100 mm	each	**13.96**	*
0670	Oxidised mild steel handles 75 mm	each	**11.17**	*
0679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 Nos	**120.99**	*
0680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 Nos	**102.38**	*
0681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 Nos	**74.46**	*
0682	Oxidised mild steel screws 50 mm	100 Nos	**71.67**	*
0683	Oxidised mild steel screws 40 mm	100 Nos	**58.64**	*
0684	Oxidised mild steel screws 30 mm	100 Nos	**46.54**	*
0685	Oxidised mild steel screws 25 mm	100 Nos	**34.44**	*
0686	Oxidised mild steel screws 20 mm	100 Nos	**29.78**	*
0687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	**530.51**	*
0688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	**372.29**	*
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	**372.29**	*
0690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	**255.95**	*
0691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	**307.14**	*
0692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	**260.60**	*
0693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	**214.07**	*
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	**186.14**	*
0695	Anodised Aluminium butt hinges 50x35x3.2 mm	10 Nos	**99.20**	****
0696	Anodised Aluminium silding door bolt 300x16 mm	each	**139.61**	*
0697	Anodised Aluminium silding door bolt 250x16 mm	each	**120.99**	*
0698	Anodised Aluminium tower bolt (barrel type)300x10 mm	10 Nos	**549.13**	*
0699	Anodised Aluminium tower bolt (barrel type)250x10 mm	10 Nos	**456.05**	*
0700	Anodised Aluminium tower bolt (barrel type)200x10 mm	10 Nos	**362.98**	*
0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos	**288.52**	*
0702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	ten	**214.07**	*
0703	Anodised Aluminium handles 125 mm with plate 175x32 mm	ten	**307.14**	*
0704	Anodised Aluminium nandies 100 mm with plate 150x32 mm	ten	**260.60**	*
0705	Anodised Aluminium handles 75 mm with plate 125x32 mm	ten	**218.72**	*
0706	Anodised Aluminium kicking plate 50cm long 100x3.15 mm	each	**134.95**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0713	Block Board Construction flush door with teak wood ply on both faces 35 mm thick	sqm	**1675.30**	*
0714	Block Board Construction flush door with teak wood ply on both faces 30 mm thick	sqm	**1582.23**	*
0715	Block Board Construction flush door with teak wood ply on both faces 25 mm thick	sqm	**1396.09**	*
0717	Block board construction flush door with Commercial ply on both faces 35 mm thick	sqm	**930.72**	*
0718	Block board construction flush door with Commercial ply on both faces 30 mm thick	sqm	**930.72**	*
0719	Block board construction flush door with Commercial ply on both faces 25 mm thick	sqm	**893.49**	*
0752	Block board construction flush door lipping 25 mm thick	sqm of door area	**293.18**	*
0753	Square vision Panel in Block board construction flush door	sqm of door area	**130.30**	*
0754	Circular Vision Panel in block board construction flush door	sqm of door area	**139.61**	*
0755	Decorative type Louvers in Block board construction flush door	sqm of door area	**302.49**	*
0757	Rebate cutting in Block board construction flush door	sqm of door area	**102.38**	*
0759	Decorative Plywood 4 mm	sqm	**279.22**	*
0761	Fuel Wood	quintal	**465.36**	*
0763	Glue	kilogram	**65.15**	*
0764	Calcium silicate base compound for jointing calcium silicate tiles	kilogram	**23.27**	*
0765	Hessian cloth	sqm	**23.27**	*
0768	Jali (cement concrete) 50mm thick	sqm	**218.72**	*
0769	Jali (cement concrete) 40mm thick	sqm	**186.14**	*
0770	Jali (cement concrete) 25mm thick	sqm	**153.57**	*
0771	Kerosene oil	litre	**41.88**	*
0772	White cement based polymer modified self curing compound in powder form	kg	**13.96**	*
0773	Lime Unslaked lime	quintal	**251.30**	*
0775	Lime Dehradun white lime	quintal	511.90	*
0776	Lime Satna lime	quintal	**344.37**	*
0777	Dry hydrated lime (factory made)	quintal	**260.60**	*
0784	Marble dust / powder	cum	**930.72**	*
0785	Marble chips upto 4mm and down size White & black	quintal	**232.68**	*
0786	Marble chips upto 4mm and down size Chocolate, grey or yellow	quintal	**158.44**	****
0787	Marble chips upto 4mm and down size Baroda green	quintal	**158.44**	****
0788	Marble chips Large size above 4mm. white & black	quintal	**232.68**	*
0801	Silicon and acrylic emulsion	litre	**120.99**	*
0802	Acrylic distemper 1st quality , having VOC content less than 50gm/litre	Kg	**35.37**	*
0803	Acrylic emulsion , having VOC content less than 50 gm/litre	litre	**167.53**	*
0804	Premium acrylic emulsion of interior grade, having VOC content less than 50 gm/litre	litre	**195.45**	*
0805	Synthetic enamel paint , having VOC (Volatile Organic Compound) content less than 150 gm/litre	litre	**172.22**	*
0806	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 gms/litre	litre	**107.64**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0807	Ready mixed red oxide zinc chromatic on steel/ iron work, having VOC content less than 250 gms/litre	litre	**111.69**	*
0808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 gms/litre	litre	**52.12**	*
0809	Exterior Primer	kg	**48.40**	*
0810	Moorum	cum	**132.21**	**
0811	Mud (dry)	cum	**139.61**	*
0815	Dry Distemper	kilogram	**25.83**	*
0816	Oil bound washable distemper / Acrylic distemper	kilogram	**38.75**	*
0818	Linseed oil (double boiled)	litre	**186.14**	*
0820	Cement primer	litre	**55.84**	*
0821	Distemper primer	litre	**54.91**	*
0823	Pink primer (for wood)	litre	**79.11**	*
0824	White cement based putty	kg	**18.61**	*
0826	Aluminium paint	litre	**111.94**	*
0827	Acid proof paint (chocolate or black)	litre	**193.75**	*
0828	Anti-corrosive bituminous paint (black)	litre	**86.11**	*
0829	Black Japan	litre	**77.50**	*
0830	Enamel paint	litre	**133.47**	*
0831	Floor enamel paint in all shades except green	litre	**105.05**	*
0833	Synthetic enamel paint black or chocolate shade	litre	**146.39**	*
0834	Synthetic enamel paint in ail shades except black or chocolate	litre	**129.17**	*
0835	Plastic emulsion paint	litre	**172.22**	*
0845	Roofing paint for iron sheets in red colour	litre	**103.33**	*
0850	White lead	kilogram	**129.17**	*
0851	Water proofing cement paint Snowcem Plus	kilogram	**32.72**	*
0855	Wax polish (ready made)	kilogram	**260.38**	*
0856	Ordinary varnish	litre	**77.50**	*
0857	Superior copal varnish	litre	**111.94**	*
0858	Superior spar varnish	litre	**111.94**	*
0859	Oil type wood preservative	litre	**130.30**	*
0863	Polish Putty for wood work	kilogram	**27.92**	*
0865	Pigments Pig lead	kilogram	**128.44**	*
0868	Premixed super white gypsum plaster.	kg	**4.65**	*
0869	Plaster of Paris	kilogram	**3.72**	*
0870	Pigments Plug	each	**9.31**	*
0873	Copper pins 6 mm dia 7.5cm long	each	**9.31**	*
0874	Pigments black colour dark shade	kilogram	**74.46**	*
0875	Pigments Red chocolate orange buff or yellow (red oxide of iron) light shade	kilogram	**74.46**	*
0876	Pigments green or blue medium shade	kilogram	**74.46**	*
0886	standard holdar bat clamps for sand cast iron or cast iron pipes 150mm dia	each	**41.88**	*
0966	sand cast iron plain shoe 150mm dia	each	**288.52**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
0967	pigments plate -copper	kilogram	**260.60**	*
0969	Pulleys 25mm dia	each	**51.19**	*
0973	Rolling shutters and its parts Rolling shutter made of 80X1.25mm machine rolled laths	sqm	**1228.55**	*
0974	Rolling shutters and its parts Top cover for rolling shutters	metre	**824.62**	*
0975	Rolling shutters and its parts 27.5cm long wire spring grade No 2 for rolling Shutters	each	**325.75**	*
0976	Rolling shutters and its parts ball bearing for rolling shutters	each	**260.60**	*
0977	Extra for mechnical devices chain and cranked operation for operating rolling shutters Exceeding 10.00 sqm and upto 16.80 sqm area of door	sqm	**558.43**	*
0978	Extra for mechnical devices chain and cranked operation for operating rolling shutters Exceeding 16.80 sqm area of door	sqm	**558.43**	*
0979	Royalty for good earth	cum	**27.92**	*
0980	Royalty for sludge	cum	**83.77**	*
0982	Sand Coarse sand Doriganj equvalent to Koilwar/Sone sand	cum	160.69	**
982A	Sand Coarse sand querry at Koilwar/Sone		160.69	**
0983	Fine sand (zone IV)	cum	117.66	**
0992	Galvanised steel plain sheets	quintal	**5212.05**	*
0994	Standard quality hard board sheet 3mm thick	sqm	**134.02**	*
0996	Sheets standard quality had board sheet 4.5mm thick	sqm	**0.93**	*
0999	Polish shellac	kilogram	**279.22**	*
1000	Oil/Fuel spirit	litre	**46.54**	*
1003	**Mild steel round bar above 12mm dia**	quintal	4545.00	**
1001	Spun yarn	kilogram	**46.54**	*
1002	**Mild steel round bar 12mm dia and below**	quintal	4545.00	**
1004	**Mild steel wire rod**	quintal	4545.00	**
1004A	5.5mm	quintal	4545.00	**
1004B	6.0mm	quintal	4532.00	**
1004C	6.5mm	quintal	4518.00	**
1004D	7.0mm	quintal	4505.00	**
1004E	8.00mm	quintal	4492.00	**
1004F	10.0mm	quintal	4545.00	**
1004G	12.0/12.7mm	quintal	4545.00	**
1005	**Steel T.M.T. Bars Fe 500**	quintal		**
1005A	TMTC-500-8mm	quintal	4593.20	**
1005B	TMTC-500-10mm	quintal	4542.40	**
1005C	TMTC-500-12mm	quintal	4491.50	**
1005D	TMT FE-500-16mm	quintal	4491.50	**
1005E	TMT FE-500-20mm	quintal	4491.50	**
1005F	TMT FE-500-25mm	quintal	4491.50	**
1005G	TMT FE-500-28mm	quintal	4491.50	**
1005H	TMT FE-500-32mm	quintal	4491.50	**
1005 I	TMT FE-500-36mm	quintal	4491.50	**
~~**1005 '**~~	~~**Steel T.M.T. Bars Fe 415**~~	~~quintal~~		~~*~~

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
~~1005A '~~	~~TMTC-415-8mm~~	~~quintal~~		*
~~1005B '~~	~~TMTC-415-10mm~~	~~quintal~~		*
~~1005C '~~	~~TMTC-415-12mm~~	~~quintal~~		*
~~1005D '~~	~~TMT FE-415-16mm~~	~~quintal~~		*
~~1005E '~~	~~TMT FE-415-20mm~~	~~quintal~~		*
~~1005F '~~	~~TMT FE-415-25mm~~	~~quintal~~		*
~~1005G '~~	~~TMT FE-415-28mm~~	~~quintal~~		*
1005H '	~~TMT FE-415-32mm~~	~~quintal~~		*
1006	Mild steel square bars	quintal	**3420.41**	*
1007 A	**STEEL JOIST**	quintal	**3903.24**	*
a	200X100	quintal	**3903.24**	*
b	225X110	quintal	**3903.24**	*
c	250X125	quintal	**3963.02**	*
d	300X140	quintal	**3963.02**	*
e	350X140	quintal	**4084.84**	*
f	400X140	quintal	**4204.27**	*
g	450X150	quintal	**4314.28**	*
h	500X180	quintal	**4424.31**	*
i	600X210	quintal	**4754.57**	*
1007B	**STEEL CHANNEL**	quintal	4326.00	**
a	75X40	quintal	4326.00	**
b	100X50	quintal	4326.00	**
c	125X65	quintal	4326.00	**
d	150X75	quintal	4326.00	**
e	175X75	quintal	4326.00	**
f	200X75	quintal	4353.00	**
g	250X82	quintal	4353.00	**
h	300X90	quintal	4353.00	**
i	400X100	quintal	4353.00	**
1007C	**STEEL ANGLES**	quintal		**
a	50x50x6	quintal	4155.00	**
b	60X60X6	quintal	4155.00	**
c	65X65X6	quintal	4155.00	**
d	75X75X6	quintal	4155.00	**
e	80X80X8/10/12	quintal	4155.00	**
f	90X90X6	quintal	4155.00	**
g	100X100X8/10/12	quintal	4155.00	**
h	110X110X8/10/12	quintal	4155.00	**
i	130X130X10/12	quintal	4155.00	**
j	150X150X12/16/20	quintal	4155.00	**
k	200X200X16/18/26	quintal	4155.00	**
1008	Flats upto 10mm in thickness	quintal	**3420.41**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
1009	Flats exceeding 10mm in thickness	quintal	**3513.48**	*
1010	Mild steel plates	quintal	**3629.82**	*
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B,K11 and K12B etc.	kg	**44.67**	*
1013	Mild steel sheets for tanks	quintal	**3513.48**	*
1015	Mild steel expanded metal 20x60 mm strands	sqm	**260.60**	*
1019	Mild steel hooks	each	**27.92**	*
1020	Mild steel rivets	quintal	**4188.26**	*
1021	Hard drawn steel wire fabric	sqm	**372.29**	*
1022	Galvanised steel bolts and nuts 6mm dia. And 25mm long round head with slots	ten	**35.37**	*
1023	Galvanised steel J or L hooks 8mm dia.	Ten	**107.03**	*
1024	Galvanised steel bolts and nuts 10mm dia. and 125mm long	each	**10.24**	*
1025	Mild steel bolts 6mm dia and 25mm long with hexagonal head	ten	**25.13**	*
1028	Straining bolts	each	**60.50**	*
1029	Galvanised steeL barbed wire	quintal	**4467.47**	*
1030	Galvanised steel turn buckles	each	**13.96**	*
1031	Galvanised steel bolts & nut 10mm dia 27cm long both sides threaded with 4 galvanised steel nuts	each	**20.48**	*
1032	Galvanised steel bolts 10mm dia 7cm long with nuts	each	**16.75**	*
1034	Bolts and nuts upto 300mm in length	quintal	**4746.69**	*
1035	Bolts and nuts above 300mm in length	quintal	**4886.30**	*
1036	Iron Pintels including welded pin	each	**34.44**	*
1143	Steel Beading	metre	**25.13**	*
1145	Aluminium Plain Strip edging 38x12x3 mm	metre	**83.76**	*
1149	Glass strips 4mm thick 40mm deep	metre	**18.61**	*
1151	Boundry stone top chisel dressed 15x15x90cm	each	**65.15**	*
1154	Through and bond stone	100 nos	**1172.71**	*
1157	Stone for masonry work	cum	**805.08**	*
1158	Stone for pitching 15cm x 22.5cm	cum	**591.94**	*
1159	Stone dust	cum	99.38	**
1160	Red sand stone block	10 cudm	**60.50**	*
1161	White sand stone block	10 cudm	**65.15**	*
1163	White sand stone slab 75mm thick (un-dressed)	sqm	**293.18**	*
1164	Red sand stone slab 40mm thick (undressed)	sqm	**186.14**	*
1165	'White sand stone slab 40mm thick (undressed)	sqm	**186.14**	*
1166	Red sand stone slab 30mm thick (undressed)	sqm	**167.53**	*
1168	Kota stone slab 20mm to 25mm thick (semi-polished)	sqm	**260.60**	*
1169	Kota stone slab 25mm thick (rough chiselled)	sqm	**260.60**	*
1174	Red sand stone slab 45/50mm thick (un-polished)	sqm	**209.41**	*
1175	White sand stone slab 45/50mm thick (undressed)	sqm	**209.41**	*
1177	Stone grit 6 mm and down size or pia sized grand	cum	**739.93**	*
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	**837.65**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
1179			0.00	
1182	Surkhi	cum	1595.00	**
A	Uraban Patna	cum	1724.00	**
B	For Purnia,Bhagalpur,Saharasa,Munger,Darabhanga	cum	1653.00	**
C	For other places	cum	1595.00	**
D	For Patna Rural	cum	1665.00	**
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	**1023.80**	*
1187	First class teak wood in scantling	10 cudm	**819.04**	*
1188	First class teak wood in planks	10 cudm	**791.11**	*
1189	Second class teak wood in scantling	10 cudm	**614.28**	*
1190	Second class teak wood in planks	10 cudm	**628.24**	*
1194	Second class deodar wood in pianks	10 cudm	**465.36**	*
1196	First class kail wood in planks	10 cudm	**288.52**	*
1197	Second class kail wood in scantling	10 cudm	**241.99**	*
1198	Second clas's kail wood in planks	10 cudm	**241.99**	*
1199	Sal wood in scantling	10 cudm	**558.43**	*
1195	Local wood in scantling	10 cudm	**309.39**	****
1200	Kiln seasoned selected sheesham wood planks	10 cudm	**604.97**	*
1201	Precast terrazo tiles 22 mm thick (light shade)	sqm	**265.26**	*
1202	Precast terrazo tiles 22 mm thick (medium shade)	sqm	**246.64**	*
1203	Precast terrazo tiles 22 mm thick (dark shade)	sqm	**228.03**	*
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	**442.09**	*
1207	Washers Cadmium coated G.I. limpet washer	cent	**32.58**	*
1208	Washers Bitumen washer	cent	**27.92**	*
1209	Washers G.I. plain washer thick	cent	**32.58**	*
1210	Washers G.I. plain washer thin	cent	**29.78**	*
1211	Washers G.I. plain washer for seam bolts	cent	**27.92**	*
1213	Water proofing compound 'Impermo' of Snowcem India Ltd.	kilogram	**32.58**	*
1214	Welding By gas plant	cm	**1.86**	*
1215	Welding By electric plant	cm	**1.86**	*
1216	Whiting	quintal	**558.43**	*
1219	Wire nails	kilogram	**55.84**	*
1220	Wire mesh (Rabbit)	sqm	**39.09**	*
1221	20 mm dia holding down bolts	quintal	**5118.98**	*
1222	Mild steel sheets with bolts and nuts to rest on lintels	each	**111.69**	*
1224	Hard drawn steel wire	quintal	**4281.33**	*
1225	Mild steel flat strap fitting	quintal	**3722.89**	*
1227	Chequered terrazo tiles 22mm thick (light shade)	sqm	**255.95**	*
1228	Chequered terrazo tiles 22mm thick (medium shade)	sqm	**279.22**	*
1229	Chequered terrazo tiles 22mm thick (dark shade)	sqm	**241.99**	*
1231	Extra for selected planks of second class teak wood	10 cudm	**139.61**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
1234	Aluminium plain strip edging 57x12x3 mm	metre	**125.65**	*
1235	Oil / Fuel Diesel oil	litre	**42.81**	*
1237	Cutting marble or sand stone slab upto 50mm thick by mechanical device	metre	**9.31**	*
1238	Extra for selected planks of first class teak wood	10 cudm	**139.61**	*
1239	18 mm thick Flamed finish granite stone slab	sqm	**1582.23**	*
1240	18 mm thick Italian Marble stone slab,(slab area up to 0.5 sqm).	sqm	**2978.31**	*
1241	Oil / Fuel LPG (Commercial Cylinder)	kg	**60.50**	*
1242	Glass mossaic tiles (20 mm x 20 mm x 4 mm).	sqm	**1001.46**	*
1243	Tile fixing chemical adhesive	kg	**18.61**	*
1244	Cement Polymer Grout Compound	kg	**23.27**	*
1245	Acid for cleaning tiles	litre	**16.75**	*
1246	Silicon based Joint Sealant for Tiles	kg	**139.61**	*
1247	Rubber base Adhesive	kg	**148.92**	*
1248	Epoxy based sealing Compound	kg	**467.22**	*
1249	Acrylic based sealing compound	kg	**447.68**	*
1250	Non woven reinforcement Tape	metre	**0.13**	*
1301	Bleaching powder	quintal	**1628.77**	*
1304	Surface box for stop cock	each	**116.34**	*
1305	Surface box for sluice valve	each	**195.45**	*
1307	Surface box for water meter	each	**232.68**	*
1309	C.I. bracket for wash basin and sinks	pair	**60.50**	*
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	**186.14**	*
1314	C.P. brass chain with 32 mm dia rubber plug	each	**37.23**	*
1315	C.P. brass chain with 40 mm dia rubber plug	each	**37.23**	*
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	**27.92**	*
1331	M.S. Holder bat clamp of approved design for 10 mm S.C.I.pipe	each	**18.61**	*
1332	M.S. Holder bat clamp of approved design for 75mm S.C.I.pipe	each	**16.75**	*
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	**26.06**	*
1335	Clamps and M.S. stays including bolts and nuts for75 mm pipe	each	**27.92**	*
1336	Clearing eye with chain and lid 100 mm dia	each	**40.95**	*
1337	Clearing eye with chain and lid150 mm dia	each	**46.54**	*
1339	Brass bib-cock 15 mm dia	each	**195.45**	*
1340	Brass bib-cock 20mm dia	each	**209.41**	*
1342	Brass stop-cock 15 mm dia	each	**195.45**	*
1343	Brass stop-cock 20 mm dia	each	**209.41**	*
1350	Mosquito proof coupling of approved design	each	**27.92**	*
1352	C.I. cover and frame 300x300 mm inside	each	**279.22**	*
1353	C.I. cover without frame 300x300 mm inside i/c cover of 4.50kg	each	**209.41**	*
1354	Rectangular cover 455x610 mm with frame (low duty)	each	**1396.09**	*
1355	Rectangular cover 455x610 mm without frame (low duty)	each	**930.72**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
1356	500mm dia cover with frame (medium duty)	each	**4420.94**	*
1357	500mm dia cover withought frame (medium duty)	each	**2140.66**	*
1360	C.I.mouth ,brass ferrule 15 mm dia	each	**130.30**	*
1361	C.I.mouth ,brass ferrule 20 mm dia	each	**148.92**	*
1362	C.I.mouth ,brass ferrule 20 mm dia	each	**204.76**	*
1363	Vitreous china foot rests 250x130x30 mm	pair	**93.07**	*
1364	C.I. grating 100x100 mm	each	**13.96**	*
1366	C.I. grating 150x150 mm	each	**23.27**	*
1367	C.I. grating 180x180 mm	each	**27.92**	*
1369	S.C.I. gully or nahani grating 100 mm dia	each	**16.75**	*
1373	Rubber insertions for 80 mm dia pipe joints	each	**13.96**	*
1374	Rubber insertions for 100 mm dia pipe joints	each	**16.75**	*
1375	Rubber insertions for 125 mm dia pipe joints	each	**18.61**	*
1376	Rubber insertions for 150 mm dia pipe joints	each	**18.61**	*
1377	Rubber insertions for 200 mm dia pipe joints	each	**23.27**	*
1378	Rubber insertions for 250 mm dia pipe joints	each	**37.23**	*
1379	Rubber insertions for 300 mm dia pipe joints	each	**41.88**	*
1380	Rubber insertions for 350 mm dia pipe joints	each	**46.54**	*
1381	Rubber insertions for 400 mm dia pipe joints	each	**67.94**	*
1382	Rubber insertions for 450 mm dia pipe joints	each	**85.63**	*
1383	Rubber insertions for 500 mm dia pipe joints	each	**102.38**	*
1384	Rubber insertions for 600 mm dia pipe joints	each	**116.34**	*
1392	Mirror of superior make glass 60x45 cm	each	**288.52**	*
1396	Vitreous china pedestal for wash basin	each	**651.51**	*
1397	Pig lead	kilogram	**128.44**	*
1464	S & S.C.I.standard specials up to 300 mm dia (heavy class)	quintal	**3350.60**	*
1466	S & S.C.I.standard specials over 300 mm dia (heavy class)	quintal	**3443.68**	*
1468	Flanged C.I. standard specials up to 300 mm dia(heavy class)	quintal	**5118.98**	*
1470	Flanged C.I. standard specials over 300 mm dia(heavy class)	quintal	**5118.98**	*
1472	Casing pipe 100 mm dia	metre	**311.79**	*
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	**251.30**	*
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	**372.29**	*
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	**483.98**	*
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	**558.43**	*
1540	Flush pipe and spreaders G.I.for single set of one squatting plate urinal	each	**162.88**	*
1541	Flush pipe and spreaders G.I.for range of two squatting plates urinal	each	**232.68**	*
1542	Flush pipe and spreaders G.I.for range of three squatting plates urinal each	each	**279.22**	*
1543	Flush pipe and spreaders G.I.for range of four squatting plates urinal	each	**362.98**	*
1545	G.I. pipes 15 mm dia	metre	**71.67**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
1546	G.I. pipes 20 mm dia	metre	**92.14**	*
1547	G.I. pipes 25 mm dia	metre	**102.38**	*
1548	G.I. pipes 32 mm dia	metre	**134.95**	*
1549	G.I. pipes 40 mm dia	metre	**172.18**	*
1550	G.I. pipes 50 mm dia	metre	**204.76**	*
1551	G.I. pipes 65 mm dia	metre	**274.56**	*
1552	G.I. pipes 80 mm dia	metre	**372.29**	*
1555	G.I. back (jam) nuts 25 mm dia	each	**7.45**	*
1559	G.I. back (jam) nuts 65 mm dia	each	**18.61**	*
1608	G.I. tees (equal) 25 mm	each	**37.23**	*
1612	G.I. tees (equal) 65 mm	each	**232.68**	*
1614	G.I. inlet connection	each	**55.84**	*
1616	S.C.I. soil, waste and vent single socketed pipe1.80 metres long: 75mm dia	each	**884.19**	*
1617	S.C.I. soil, waste and vent single socketed pipe1.80 metres long:100mm dia	each	**1070.33**	*
1618	S.C.I. soil, waste and vent single socketed pipe1.80 metres long: 150mm dia	each	**1628.77**	*
1620	S.C.I. plain bend 75 mm dia	each	**158.22**	*
1621	S.C.I. plain bend 100 mm dia	each	**325.75**	*
1622	S.C.I. plain bend 150 mm dia	each	**372.29**	*
1624	S.C.I. bend with access door 75 mm dia	each	**186.14**	*
1625	S.C.I. bend with access door 100 mm dia	each	**234.54**	*
1627	S.C.I. plain single equal junctions 75x75x75 mm dia	each	**246.64**	*
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	**418.83**	*
1630	S.C.I. single equal junctions75x75x75 mm dia with access door	each	**258.74**	*
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door	each	**349.95**	*
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	**322.03**	*
1634	S.C.I. plain double equal junctions100x100x100x100 mm dia	each	**483.98**	*
1636	S.C.I. double equal junctions75x75x75x75 mm dia with access door	each	**395.56**	*
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door	each	**511.90**	*
1639	Slotted cowl (terminal guard) 75 mm dia	each	**140.54**	*
1640	Slotted cowl (terminal guard) 100 mm dia	each	**176.84**	*
1641	G.I. Union 15 mm nominal bore	each	**27.92**	*
1642	G.I. Union 20 mm nominal bore	each	**46.54**	*
1643	G.I. Union 25 mm nominal bore	each	**74.46**	*
1644	G.I. Union 32 mm nominal bore	each	**102.38**	*
1645	G.I. Union 40 mm nominal bore	each	**148.92**	*
1646	G.I. Union 50 mm nominal bore	each	**186.14**	*
1647	G.I. Union 65 mm nominal bore	each	**372.29**	*
1648	G.I. Union 80 mm nominal bore	each	**437.44**	*
1649	Polyethylene water storage tank with cover and suitable locking arrangement	pair litre	**4.93**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
1653	Sand cast iron S&S plain single unequal junctions : 100x100x75 mm dia	each	**344.37**	*
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door	each	**372.29**	*
1659	Sand cast iron S&S plain double unequal junctions : 100x100x75x75 mm dia	each	**511.90**	*
1662	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door	each	**511.90**	*
1666	Sand cast iron heel rest bend 75 mm dia	each	**204.76**	*
1667	Sand cast iron heel rest bend 100 mm dia	each	**232.68**	*
1669	S.C.I. single equal invert branch of required degree75x75x75 mm dia	each	**297.83**	*
1670	S.C.I. single equal invert branch of required degree 100x100x100 mm dia	each	**381.60**	*
1672	S.C.I. double equal invert branch of required degree 75x75x75x75 mm dia	each	**381.60**	*
1673	S.C.I. double equal invert branch of required degree 100x100x100x100 mm dia	each	**511.90**	*
1674	S.C.I. single unequal invert branch of required degree100x100x75 mm dia	each	**460.71**	*
1677	S.C.I. double unequal invert branchof required degree 100x100x75x75 mm dia	each	**530.51**	*
1682	S.C.I. door pieces 75 mm dia	each	**255.95**	*
1683	S.C.I. door pieces 100 mm dia	each	**372.29**	*
1685	S.C.I. collar 75 mm dia	each	**85.63**	*
1686	S.C.I. collar 100 mm dia	each	**128.44**	*
1687	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	**27.92**	*
1688	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	**32.58**	*
1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	**32.58**	*
1690	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	**44.67**	*
1693	S.C.I. hand pump	each	**623.58**	*
1700	R.C.C. pipes NP2 class 100 mm dia	metre	**186.14**	*
1701	R.C.C. pipes NP2 class 150 mm dia	metre	**195.45**	*
1702	R.C.C. pipes NP2 class 250 mm dia	metre	**241.99**	*
1703	R.C.C. pipes NP2 class 300 mm dia	metre	**279.22**	*
1704	R.C.C. pipes NP2 class 450 mm dia	metre	**372.29**	*
1705	R.C.C. pipes NP2 class 500 mm dia	metre	**539.82**	*
1706	R.C.C. pipes NP2 class 600 mm dia	metre	**856.27**	*
1707	R.C.C. pipes NP2 class 700 mm dia	metre	**977.26**	*
1709	R.C.C. pipes NP2 class 800 mm dia	metre	**1088.95**	*
1710	R.C.C. pipes NP2 class 900 mm dia	metre	**1191.33**	*
1711	R.C.C. pipes NP2 class 1000 mm dia	metre	**1479.85**	*
1712	R.C.C. pipes NP2 class 1100 mm dia	metre	**1745.11**	*
1713	R.C.C. pipes NP2 class 1200 mm dia	metre	**1560.82**	*
1714	R.C.C. pipes NP2 class 100 mm dia	each	**27.92**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
1715	R.C.C. pipes NP2 class 150 mm dia	each	**32.58**	*
1716	R.C.C.collars NP2 class 250 mm dia	each	**46.54**	*
1717	R.C.C.collars NP2 class 300 mm dia	each	**51.19**	*
1718	R.C.C.collars NP2 class 450 mm dia	each	**93.07**	*
1719	R.C.C. collars NP2 class 500 mm dia	each	**107.03**	*
1720	R.C.C.collars NP2 class 600 mm dia	each	**130.30**	*
1721	R.C.C. collars NP2 class 700 mm dia	each	**139.61**	*
1723	R.C.C.collars NP2 class 800 mm dia	each	**186.14**	*
1724	R.C.C. collars NP2 class 900 mm dia	each	**218.72**	*
1725	R.C.C. collars NP2 class 1000 mm dia	each	**260.60**	*
1726	R.C.C. collars NP2 class 1100 mm dia	each	**279.22**	*
1727	R.C.C. collars NP2 class 1200 mm dia	each	**325.75**	*
1728	RCC pipe 450 mm dia NP-3 spigot	metre	**1392.36**	*
1729	RCC pipe 600 mm dia NP-3 spigot	metre	**1856.79**	*
1730	RCC pipe 900 mm dia NP-3 spigot	metre	**2931.78**	*
1731	RCC pipe 1000 mm dia NP-3 spigot	metre	**3615.86**	*
1732	RCC pipe 1200 mm dia NP-3 spigot	metre	**4690.85**	*
1733	RCC pipe 1800 mm dia NP-3 spigot	metre	**8795.34**	*
1734	RCC pipe 450 mm dia NP-4 spigot	metre	**1612.94**	*
1735	RCC pipe 600 mm dia NP-4 spigot	metre	**2149.97**	*
1736	RCC pipe 900 mm dia NP-4 spigot	metre	**4182.67**	*
1737	RCC pipe 1000 mm dia NP-4 spigot	metre	**5179.48**	*
1738	RCC pipe 1200 mm dia NP-4 spigot	metre	**6059.01**	*
1739	RCC pipe 1800 mm dia NP-4 spigot	metre	**12704.37**	*
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	**46.54**	*
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	**74.46**	*
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	**102.38**	*
1857	Stoneware pipes grade A (60 cm long) 230 mm dia	each	**158.22**	
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	**195.45**	*
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	**223.37**	*
1863	Fire clay kitchen sink: 600x450x250 mm	each	**1209.94**	*
1871	White vitreous china laboratory sink450x300x150 mm	each	**763.19**	*
1872	White vitreous china laboratory sink600x450x200 mm	each	**1419.35**	*
1875	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	**307.14**	*
1876	Black plastic seat (solid) with lid C.P.brass hinges and rubber buffers	each	**288.52**	*
1878	Shower rose C.P.brass for 15 to 20 mm inlet 100 mm dia	each	**46.54**	*
1879	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	**55.84**	*
1880	Dismantled P or S trap scrap (approx wt 2kg)	kilogram	**20.48**	*
1881	Spun yarn	kilogram	**46.54**	*
1882	Strainer brass 40 mm dia 1.5 metre long	each	**558.43**	*
1885	15 mm C.P.brass tap	each	**195.45**	*
1889	C.P.brass toilet paper holder of standard size	each	**172.18**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
1890	Centrifugally SCI(spun) S & S P or S trap	each	**279.22**	*
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 50 mm dia	each	**158.22**	*
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 80 mm dia	each	**209.41**	*
1895	C.P.brass trap40 mm dia	each	**232.68**	*
1896	100 mm S.C.I. trap with vent heel	each	**293.18**	*
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	**255.95**	*
1898	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	**202.90**	*
1900	S.W. gully trap P type 100x100 mm	each	**83.77**	*
1902	S.W. gully trap P type 150x100 mm	each	**120.99**	*
1904	S.W. gully trap P type 180x150 mm	each	**209.41**	*
1913	Vitreous china lipped front urinal	each	**428.13**	*
1915	Vitreous china squatting plate urinal	each	**980.05**	*
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	**195.45**	*
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	**218.72**	*
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	**214.07**	*
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	**325.75**	*
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	**381.60**	*
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	**446.75**	*
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	**577.05**	*
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	**1005.18**	*
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	**1507.77**	*
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	**307.14**	*
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	**418.83**	*
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	**521.21**	*
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	**763.19**	*
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	**1386.78**	*
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	**1973.13**	*
1940	C.I.sluice valve (with caps) class I : 100 mm dia	each	**2243.04**	*
1941	C.I.sluice valve (with caps) class I : 125 mm dia	each	**2419.88**	*
1942	C.I.sluice valve (with caps) class I : 150 mm dia	each	**3350.60**	*
1943	C.I.sluice valve (with caps) class I : 200 mm dia	each	**6980.43**	*
1944	C.I.sluice valve (with caps) class I : 250 mm dia	each	**10219.34**	*
1945	C.I.sluice valve (with caps) class I : 300 mm dia	each	**14426.21**	*
1947	Vitreous china flat back wash basin 630x450 mm	each	**674.77**	*
1949	Vitreous china angle back wash basin 600x480 mm	each	**674.77**	*
1950	Vitreous china angle back wash basin 400x400 mm	each	**395.56**	*
1951	C.P. brass waste 32 mm	each	**74.46**	*
1952	C.P. brass waste 40 mm	each	**88.42**	*
1953	Vitreous china Indian type w.c. pan size 580 mm	each	**418.83**	*
1954	Vitreous china orrisa type w.c. pan size 580 mm	each	**725.96**	*
1955	Vitreous china pedestal type water closet	each	**651.51**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
1956	Bolts and nuts 16 mm dia 60 mm long	each	**10.24**	*
1957	Bolts and nuts 16 mm dia 65 mm long	each	**11.17**	*
1958	Bolts and nuts 20 mm dia 65 mm long	each	**13.96**	*
1959	Bolts and nuts 20 mm dia 70 mm long	each	**15.82**	*
1960	Bolts and nuts 20 mm dia 75 mm long	each	**14.89**	*
1961	Bolts and nuts 20 mm dia 80 mm long	each	**16.75**	*
1962	Bolts and nuts 24 mm dia 85 mm long	each	**26.06**	*
1963	Bolts and nuts 24 mm dia 90 mm long	each	**29.78**	*
1964	Bolts and nuts 27 mm dia 100 mm long	each	**35.37**	*
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	**1209.94**	*
1966	Floor mounted white vitrous china double trap syphonic WC with 10 litre cistern and all fittings & fixtures,seat cover etc	each	**8841.87**	*
1970	Vitreous china foot rests 250x125x25 mm	pair	**93.07**	*
1980	Fly ash	cum	**7.45**	*
1984	Brick Tiles (300mm x 150mm x 50mm)	thousand	5986.00	**
1986	Uraban Patna	thousand	6247.00	**
A	For ,Bhagalpur,Saharasar,Darabhanga ,Muzaffarpur	thousand	6274.00	**
B	For Purnea	thousand	6563.00	**
C	For other places	thousand	5986.00	**
D	Common burnt clay modular bricks class designation 12.5	1000 nos	6247.00	**
2200	Carriage of Steam coal	tonne	123.51	*
2201	Carriage of Bricks	1000 nos	**0.00**	*
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	**0.00**	*
2203	Carriage of Coarse sand	cum	**0.00**	*
2204	Carriage of Timber	cum	**123.51**	*
2205	Carriage of Steel	tonne	**96.07**	*
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	**0.00**	*
2207	Carriage of Brick tiles	1000 nos	**0.00**	*
2208	Carriage of Lime	cum	**108.08**	*
2209	Carriage of Cement	tonne	**96.07**	*
2211	Carriage of Tar / Bitumen	tonne	**108.08**	*
2215	Carriage of Soling stone & masonry stone	cum	**127.15**	*
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	**96.07**	*
2224	Carriage of S.W. pipes 100 mm dia	100 metre	144.11	*
2225	Carriage of S.W. pipes 150 mm dia	100 metre	288.21	*
2226	Carriage of S.W. pipes 200 mm dia	100 metre	480.34	*
2228	Carriage of S.W. pipes 250 mm dia	100 metre	823.45	*
2229	Carriage of S.W. pipes 300 mm dia	100 metre	1029.31	*
2241	Carriage of Good earth	cum	0.00	*
2242	Carriage of Dump manure by mechanical transport upto 5 km lead	cum	117.47	*
2260	Carriage of Brick aggregate	cum	0.00	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
2261	Carriage of Fine sand	cum	0.00	*
2262	Carriage of Flyash	cum	108.08	*
2264	Carriage of Rubbish	cum	108.08	*
2265	Carriage of Moorum	cum	108.08	*
2266	Carriage of Surkhi	cum	108.08	*
2267	Carriage of Stone dust	cum	108.08	*
2268	Carriage of Marble dust and/or marble chips	cum	108.08	*
2271	Carriage of G.I. pipes below 100 mm dia	tonne	**96.07**	*
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	**96.07**	*
2273	Carriage of A.C.sheet and accessories	tonne	**96.07**	*
2275	Carriage of R.C.C. pipes 100 mm dia	100 metre	**236.24**	*
2281	Carriage of R.C.C. pipes 150 mm dia	100 metre	**393.73**	*
2287	Carriage of R.C.C. pipes 250 mm dia	100 metre	**910.13**	*
2290	Carriage of R.C.C. pipes 300 mm dia	100 metre	**1124.93**	*
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	**2624.84**	*
2302	Carriage of G.I. sheet and accessories	tonne	**96.07**	*
2303	Carriage of R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	**3937.25**	*
2308	Carriage of Plaster of paris	tonne	**96.07**	*
2309	Carriage of Cast Iron fittings	tonne	**96.07**	*
2311	Carriage of Red bajri	cum	**108.08**	*
2314	Carriage of Barbed wire	tonne	**96.07**	*
2317	Carriage of Sludge	cum	**117.47**	*
2319	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	**236.24**	*
2320	Carriage of Spun iron S & S pipes 125 mm dia	100 metre	**315.55**	*
2321	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	**393.73**	*
2322	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	**640.46**	*
2323	Carriage of Spun iron S & S pipes 250 mm dia	100 metre	**910.13**	*
2324	Carriage of Spun iron S & S pipes 300 mm dia	100 metre	**1124.93**	*
2325	Carriage of Spun iron S & S pipes 350 mm dia	100 metre	**1574.90**	*
2326	Carriage of Spun iron S & S pipes 400 mm dia	100 metre	**2147.59**	*
2327	Carriage of Spun iron S & S pipes 450 mm dia	100 metre	**2624.84**	*
2328	Carriage of Spun iron S & S pipes 500 mm dia	100 metre	**2624.84**	*
2329	Carriage of Spun iron S & S pipes 600mm dia	100 metre	**3937.25**	*
2330	Carriage of C.I. pipes 500 mm dia	100 metre	**2624.84**	*
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	**5905.88**	*
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	**7874.51**	*
2333	Carriage of R.C.C. pipes 1100 mm dia	100 metre	**7874.51**	*
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	**7874.51**	*
2335	Carriage of sand	cum	**0.00**	*
2336	Carriage of R.C.C. pipe above 1200 mm dia and upto 1800 mm dia	100 metre	**7874.51**	*
2341	Carriage of Pig lead	tonne	**96.07**	*
2342	Carriage of Solvent / Diesel.	quintel	**10.81**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
2343	Carriage of Ductile Iron pipes (k7) 100 mm dia	100 metre	**236.24**	*
2344	Carriage of Cast iron pipes 150 mm dia	100 metre	**393.73**	*
2345	Carriage of Cast iron pipes 200 mm dia	100 metre	**640.46**	*
2346	Carriage of Cast iron pipes 250 mm dia	100 metre	**910.13**	*
2347	Carriage of Cast iron pipes 300 mm dia	100 metre	**1124.93**	*
2348	Carriage of Cast iron pipes 350 mm dia	100 metre	**1574.90**	*
2349	Carriage of Cast iron pipes 400 mm dia	100 metre	**2147.59**	*
2350	Carriage of Cast iron pipes 450 mm dia	100 metre	**2624.84**	*
2351	Carriage of Cast iron pipes 500 mm dia	100 metre	**2624.84**	*
2352	Carriage of Cast iron pipes 600 mm dia	100 metre	**3937.25**	*
2353	Carriage of Cast iron pipes 700 mm dia	100 metre	**3937.25**	*
2355	Carriage of Cast iron pipes 800 mm dia	100 metre	**3937.25**	*
2356	Carriage of Cast iron pipes 900 mm dia	100 metre	**5905.88**	*
2357	Carriage of Cast iron pipes 1000 mm dia	100 metre	**7874.51**	*
2391	Strips-Aluminium fluted 3.15 mm thick and 150 mm wide	metre	**212.20**	*
2392	Strips-Aiuminium fluted 3.15 mm thick and 200 mm wide metre	metre	**300.62**	*
2393	1 mm thick Stainless Steel Cover plate grade 304	Kg	**255.95**	*
2394	Coupler 16 mm dia	each	**62.36**	*
2395	**Coupler 20 mm dia**	**each**	**81.90**	*
2396	Coupler 25 mm dia	each	**120.99**	*
2397	Coupler 28 mm dia	each	**178.70**	*
2398	Coupler 32 mm dia	each	**215.00**	*
2399	Complete Roof Joint of 100 mm	metre	**2606.03**	*
2400	Complete Roof Joint of 150 mm	metre	**2978.31**	*
2401	Complete Roof Joint of 200 mm	metre	**3722.89**	*
2402	Epoxy adhesive	kg	**139.61**	*
2403	Floor Joint of 100 mm	metre	**2885.24**	*
2404	Floor Joint of 150 mm	metre	**3722.89**	*
2405	Floor Joint of 200 mm	metre	**5025.91**	*
2406	Float glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	**266.19**	*
2407	Float Glass sheet of nominal thickness 5.5mm (weighing not less than 13.50 kg/sqm	sqm	**456.05**	*
2408	Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/sqm)	sqm	**563.09**	*
2409	Wall Joint of 100 mm	metre	**2233.74**	*
2410	Wall Joint of 150 mm	metre	**2606.03**	*
2411	Wall Joint of 200 mm	metre	**3164.46**	*
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	**349.95**	*
2413	12 mm commercial ply	sqm	**651.51**	*
2414	18 mm thick block board with commercial ply veneering on both side	sqm	**733.41**	*
2415	21mm thick clear toughened Laminated glass for fins with holes	sqm	**5584.34**	*
2447	Hollock bailies 125 mm diameter	metre	**32.58**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
2449	Oxidised mild steel Pull bolt lock of size 85mmx42mm with screws bolts and washers complete	each	**51.19**	*
2451	Brass Cupboard lock 6 levers (best make of approved quality) 40 mm size	each	**48.40**	*
2452	Brass Cupboard lock 6 levers (best make of approved quality) 50 mm size	each	**74.46**	*
2453	Brass Cupboard lock 6 levers (best make of approved quality) 65 mm size	each	**79.11**	*
2454	Brass Cupboard lock 6 levers (best make of approved quality) 75 mm size	each	**93.07**	*
2455	Brass Hanging type door stopper 150 mm	each	**65.15**	*
2456	Hydraulic door closer tubular type aluminium die cast body with necessary accessories and screws complete	each	**282.01**	*
2459	Anodised Aluminium hanging type door stopper	each	**16.75**	*
2464	Anodised Aluminium pull boit lock (locking bolt) of size 85x42 mm with screws, bolts, nuts and washers complete	each	**41.88**	*
2465	Anodised Aluminium Casement stay 250 mm	each	**27.92**	*
2466	Hollock wood in scantling	10 cud	**316.45**	*
2467	Chromium plated Brass Pull bolt lock (locking bolt) of size 85mm x 42mm with screws, bolts, nuts and washers complete	each	**153.57**	*
2468	Chromium Brass cupboard lock (Nickled) 40mm size	each	**52.12**	*
2469	Chromium Brass cupboard lock (Nickled) 50mm size	each	**61.43**	*
2470	**Chromium Brass cupboard lock (Nickled) 65mm size**	**each**	**83.77**	*
2471	Chromium Brass cupboard lock (Nickled) 75mm size	each	**107.03**	*
2480	PANELS Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	**751.09**	*
2481	Ply wood 5 ply with teak ply n one face and commercial ply on another face 9 mm thick	sqm	**791.11**	*
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	**884.19**	*
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	**428.13**	*
2485	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	**555.64**	*
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	**800.42**	*
2487	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	**400.21**	*
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	**521.21**	*
2489	PVC edge bending tape 2.00 mm thick	metre	**27.92**	*
2491	Pre laminated both side solid foam uPVC profile (45x20mm)	metre	**116.34**	*
2492	Solid foam uPVC sheet 20mm thick pre laminated on both side	sqm	**1931.25**	*
2493	PVC edge beading	metre	**27.92**	*
2494	Expandable fastner with plastic sleeve	each	**4.65**	*
2500	Extra for selected planks of second class deodar wood	10 cud	**102.38**	*
2504	Kiln seasoning of timber	cum	**698.04**	*
2505	Hollock wood in planks	10 cud	**362.98**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
2506	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 60 mm	10 cudm	**241.99**	*
2507	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 80 mm	10 nos	**279.22**	*
2508	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 120mm	10nos	**339.71**	*
2509	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 140 mm	10 nos	**428.13**	*
2510	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 160 mm	10 Nos	**535.17**	*
2602	Designation 100 A Brick	thousand	**5010.00**	**
2602A	Urban Patna	thousand	6276.00	**
2602B	Darbhanga	thousand	5296.00	**
2602C	Bhagalpur	thousand	5296.00	**
2602D	Munger	thousand	5296.00	**
2602E	Muzaffarpur	thousand	5296.00	**
2602F	Gaya	thousand	5010.00	**
2602G	Patna Rural	thousand	5225.00	**
2602H	Saran	thousand	5010.00	**
2602I	Saharsa	thousand	5440.00	**
2602J	Purnea	thousand	5728.00	**
2603	Designation 100 B Brick	thousand	**4578.00**	**
2603A	Urban Patna	thousand	5825.00	**
2603B	Darbhanga	thousand	4864.00	**
2603C	Bhagalpur	thousand	4864.00	**
2603D	Munger	thousand	4864.00	**
2603E	Muzaffarpur	thousand	4864.00	**
2603F	Gaya	thousand	4578.00	**
2603G	Patna Rural	thousand	4775.00	**
2603H	Saran	thousand	4578.00	**
2603I	Saharsa	thousand	5010.00	**
2603J	Purnea	thousand	5296.00	**
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	**495.14**	*
2605	Structural sealant - 6 mm x 12 mm	metre	**27.92**	*
2606	Spacer tape 6.4 mm thick x 6 mm wide	metre	**18.61**	*
2607	Weather Sealant - Non Staining (600 ml)	each	**390.90**	*
2608	Weather Sealant - Normal (300 ml)	each	**116.34**	*
2609	MS Brackets/Aluminium Alloy Brackets	kg	**93.07**	*
2610	Silicon Gasket in Kg (Above 50 g / m)	kg	**530.51**	*
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	**139.61**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
2612	Anchor Fastner - M10	each	**9.31**	*
2613	SS Bolt with washer of sizes for structural glazing / ACP Cladding	each	**32.58**	*
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	**3.72**	*
2615	Protective Tape	metre	**18.61**	*
2616	GI flashing - 1.2 mm Thick	kg	**53.98**	*
2617	6 mm thick High performance glass	sqm	**1721.84**	*
2618	6 mm thick clear heat strengthened glass	sqm	**595.66**	*
2619	6 mm thick clear heat strengthened glass	each	**119.13**	*
2620	ARMS GS HD -TOP HUNG -20"-TYPE P-COUPLE	pair	**1442.62**	*
2621	Connection Block for vision glass panel	each	**36.30**	*
2622	Curtain wall striker for vision glass panel	each	**93.07**	*
2623	Adjustable Fastening Pawl for vision glass panel	each	**35.37**	*
2624	Corner drive	each	**274.56**	*
2625	Top wedge Block	each	**125.65**	*
2626	Glass wool Denisity 48 Kg / m3 with Black Glass Tissue (BGT)	sqm	**214.07**	*
2627	SS Screws - # 8 x 19	each	**9.31**	*
2628	Weather Sealant - DC 789	cartridge	**120.99**	*
2629	Cement Board	sqm	**232.68**	*
2630	Baker rod	metre	**4.65**	*
2631	4 mm thick ACP	sqm	**930.72**	*
2632	Fire Stop	metre	**511.90**	*
2634	GI/Aluminium Sheet (0.8 mm thick)	kg	**41.88**	*
2635	GI Screws of gauge 10, length 25 mm for fixing cement fibre board to C section	each	**2.56**	*
2636	GI Screws of gauge 10, length 45 mm for fixing cement fibre board to C section	each	**2.79**	*
2637	Vapour barrier	sqm	**158.22**	*
2640	Clear.toughned interlayed,non-wired fire resistant glass panes of minimum 11 mm thickness (120 minutes fire rating)	sqm	**23268.09**	*
2641	G.I U beading of 1.6 mm thick G.I sheet with ceramic tape.	metre	**223.37**	*
2642	Ceramic tape 5 x20 mm size	metre	**372.29**	*
2704	Aluminium strip 40 mm wide and 2 mm thick	kilogran	**209.41**	*
2708	Truf Paver (500 x 500 x 40 mm)	sqm	**465.36**	*
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	**125.65**	*
2710	White Marble Makrana second quality plain veined stone pieces for crazy flooring	quintal	**136.82**	*
2711	FS800H Grade Flooring Panel (Size 600 mm x600 mm x32 mm)	each	**698.04**	*
2711'	Sheets Polyvinyl chloride sheet 1.5 mm thick	sqm	**458.48**	****
2712'	Sheets Polyvinyl chloride sheet 2.0 mm thick	sqm	**635.80**	****
2712	Zinc Electroplated Pedestals - 300 mm	each	**130.30**	*
2713	Zinc Electroplated Pedestals - 450 mm	each	**186.14**	*
2714	Zinc Electroplated Tube Stinger	each	**61.43**	*
2715	Machine Screw for Fixing	each	**1.86**	*
2717	Polyvinyl chloride tiles 1 5mm thick	sqm	**522.96**	****

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
2718	Polyvinyl chloride tiles 2.0mm thick	sqm	**626.83**	****
2723	Adhesive (rubber base)	ilogran	**170.14**	****
2736	Sheets Rubber tiles plain conforming to IS 809 1.5 mm thick	sqm	**757.57**	****
2737	Sheets Rubber tiles plain conforming to IS 809 2.0 mm .thick	sqm	**875.77**	****
2738	Sheets Rubber tiles LP stud conforming to IS 809 2.0 mm thick	sqm	**757.57**	****
2739	Sheets Rubber tiles LP stud conforming to IS 809 3.0 mm thick	sqm	**1296.65**	****
2740	Sheets Rubber tiles LP stud conforming to IS 809 4.0 mm thick	sqm	**1719.31**	****
2741	Sheets Anti static rubber tiles p!ain/LP stud conforming to BS : 2050 2.00 mm thick	sqm	**1404.11**	****
2742	Sheets. Rubber tiles piain/LP stud in skirting conforming to IS : 809 2.0mm thick	sqm	**551.61**	****
2750	8mrn thick granite stone tiles (mirror polished of all shades)	sqm	**651.51**	*
2751	8mm thick marble tiles (polished) Raj Nagar	sqm	**351.81**	*
2901	Stone Aggregate (Single size) : 100 mm nominal size	cum	399.84	**
2902	Stone Aggregate (Single size) : 80 mm nominal size	cum	399.84	**
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	190.08	**
2904	Stone chippings/ screenings 150 micron nominal size	cum	190.08	**
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	1233.60	**
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	1233.60	**
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	649.26	**
2911	Stone chips/streining 10/11.2 mm nominal size	cum	620.42	**
2914	Solvent	kilogram	**23.27**	*
2916	Paving Asphalt VG -10 of approved quality	tonne	**27549.41**	*
3002	Sheets Polyvinyl chloride sheet 400 micron thick	sqm	**37.23**	*
3004	Stoneware spouts 100mm dia 60 em long	each	**37.23**	*
3050	**GC Sheet**			
3050A	Galvanised steel corrugated sheets 0.63 mm thick	quintal	5576.27	**
3050B	Galvanised steel corrugated sheets 0.50 mm thick	quintal	5728.81	**
3050C	Gah-anised steel corrugated sheets 0.40 mm thick	quintal	7335.76	**
3050D	Galvanised steel corrugated sheets 0.35 mm thick	quintal	7548.23	**
3050E	Galvanised steel corrugated sheets 0.80 mm thick	quintal	5576.27	**
3080	Gunmetal non-return valve-vertical (screwed end) 25 mm dia	each	**325.75**	*
3084	Gunmetal non-return valve-vertical (screwed end) 32 mm dia	each	**465.36**	*
3088	Gunmetal non-return valve-vertical (screwed end) 40 mm dia	each	**651.51**	*
3092	Gunmetal non-return valve-vertical (screwed end) 50 mm dia	each	**837.65**	*
3096	Gunmetal non-return valve-vertical (screwed end) 65 mm dia	each	**1396.09**	*
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	**930.72**	*
3214	Aluminium sheet 24 gauge	sqm	**313.42**	****
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	each	**232.68**	*
3229	Vitreous china flat back wash basin 550x400 mm	each	**511.90**	*
3300	Gunmetal non-return valve-vertical (screwed end) 80 mm dia	each	**2326.81**	*
3311	C.I.sluice valve (with caps) class II : 100 mm dia	each	**2512.95**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
3314	C.I.sluice valve (with caps) class II : 125 mm dia	each	**2978.31**	*
3317	C.I.sluice valve (with caps) class II : 150 mm dia	each	**3722.89**	*
3320	C.I.sluice valve (with caps) class II : 200 mm dia	each	**8283.44**	*
3321	C.I.sluice valve (with caps) class II : 250 mm dia	each	**13495.49**	*
3326	C.I.sluice valve (with caps) class II : 300 mm dia	each	**16939.17**	*
3327	15 mm Battery Based Sensor Pillar Cock	each	**5398.20**	*
3617	CP Brass Union 40 mm dia	each	**181.49**	*
3620	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long :100 mm dia	each	**1113.15**	*
3621	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long :75 mm dia	each	**963.30**	*
3624	S.C.I. S&S bends with access door 100 mm dia	each	**269.91**	*
3625	S.C.I. S&S bends with access door 75 mm dia	each	**223.37**	*
3628	S.C.I. S&S bend 100 mm dia	each	**246.64**	*
3629	S.C.I. S&S bend 75 mm dia	each	**181.49**	*
3634	S.C.I. S&S heel rest sanitary bend 100 mm dia	each	**275.49**	*
3635	S.C.I. S&S heel rest sanitary bend 75 mm dia	each	**232.68**	*
3640	S.C.I. S&S single equal junctions100x100x100 mm	each	**439.30**	*
3641	S.C.I. S&S single equal junctions 75x75x75 mm	each	**307.14**	*
3644	S.C.I. S&S single equal junctions with access door 100x100x100 mm	each	**460.71**	*
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	**347.16**	*
3650	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	**577.05**	*
3651	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	**429.99**	*
3654	S.C.I. S&S double equal junctions with access door 100x100x100x100 mm	each	**572.39**	*
3655	S.C.I. S&S double equal junctions with access door 75x75x75x75 mm	each	**446.75**	*
3660	S.C.I. S&S single unequal junctions 100x100x75 mm	each	**530.51**	*
3664	S.C.I. S&S single unequal junctions with access door 100x100x75 mm	each	**595.66**	*
3670	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	**744.58**	*
3674	S.C.I. S&S double unequal junctions with access door 100x100x75x75 mm	each	**791.11**	*
3681	S.C.I. S&S single equal invert branch of required degree 100x100x75x75 mm dia	each	**395.56**	*
3682	S.C.I. S&S single equal invert branch of required degree 75x75x75 mm dia	each	**300.62**	*
3685	S.C.I. S&S double equal invert branch of required degree 100x100x100x100 mm dia	each	**493.28**	*
3686	S.C.I. S&S double equal invert branch of required degree 75x75x75x75 mm dia	each	**395.56**	*
3690	S.C.I. S&S single unequal invert branch of required degree 100x100x75 mm dia	each	**507.24**	*
3695	S.C.I. S&S double unequal invert branch of required degree 100x100x75x75 mm dia	each	**674.77**	*
3699	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	**209.41**	*
3707	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	**265.26**	*
3708	S.C.I. S&S, 150 mm offset for100 mm dia pipe	each	**362.98**	*
3712	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	**279.22**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
3713	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	**356.47**	*
3716	S.C.I. S&S,152 mm offset for 75 mm dia pipe	each	**333.20**	*
3717	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	**423.48**	*
3728	S.C.I. S&S, door pieces 100 mm dia	each	**372.29**	*
3729	S.C.I. S&S, door pieces 75 mm dia	each	**274.56**	*
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	**245.71**	*
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	**195.45**	*
3738	S.C.I. S&S, Slotted collars 100 mm	each	**259.67**	*
3739	S.C.I. S&S, Slotted collars 75mm	each	**158.22**	*
3746	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	**202.90**	*
3747	S.C.I. S&S, 75 mm offset for100 mm dia pipe	each	**337.85**	*
3749	Vitreous china toilet paper holder of standard size	each	**93.07**	*
3860	560 mm dia cover with frame (Heavy duty)	each	**8376.51**	*
3861	561 mm dia cover without frame (Heavy duty)	each	**4653.62**	*
3991	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series casement window/door frame, sash, mullion & small series sliding window frame	metre	**60.50**	*
3992	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement window/door frame, sash, mullion, big & small series sliding window frame	metre	**65.15**	*
3993	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement door sash	metre	**88.42**	*
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window / door sash	metre	**79.11**	*
3995	G.I fasteners 100 x 8 mm	each	**13.96**	*
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	**214.07**	*
4002	Stainless steel bolts/square bar and plates	kg	**111.69**	*
4006	Pressed steel door frames (mild steel sheet 1.25mm) profile 'B'	metre	**186.14**	*
4007	Pressed steel door frames (mild steel sheet 1.25mm) profile 'C	metre	**204.76**	*
4008	Pressed steel door frames (mild steel sheet 1.25mm) profile 'E'	metre	**232.68**	*
4009	Mild steel tubes, hot finished welded type	kilogram	**39.09**	*
4010	Mild steel tubes, hot finished seamless type	kilogram	**41.88**	*
4011	Mild steel tubes, electric resistant or induction butt welded	kilogram	**55.84**	*
4012	Circular C.I. Box for ceiling fan internal dia 140 mm, 73 mm height,toplid of 1.5mm thick MS sheet	each	**51.19**	*
4013	Pulleys 40 mm dia	each	**27.92**	*
4014	Steel doors and windows Ready made steel door with necessary hinges, lugs and glazing clips excluding other fittings and their fixing	sqm	**1936.98**	****
4201	Aluminium primer	litre	**81.90**	*
4202	Primers Red Oxide Zinc Chromate primer	litre	**60.50**	*
4203	Copper Accetate	kilogram	**279.22**	*
4204	Hydrochloric Acid	kilogram	**32.58**	*
4205	Copper Chloride	kilogram	**260.60**	*
4206	Copper Nitrate	kilogram	**204.76**	*
4207	Ammonium Chloride	kilogram	**18.61**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
5001	Oil / Fuel Mobil oil	litre	**228.03**	*
5050	SS pipe 304 grades with press fit technology as per JIS 3448 Standard 48.60 mm outer dia	metre	**632.89**	*
5743	Coloured inter locking C.C. paver Block	sqm	**465.36**	*
6001	White marble slab Makrana second quality plain veined 18mm thick	sqm	**1396.09**	*
6007	Pink marble slab plain 18mm thick	sqm	**630.10**	*
6010	Udaypur green marble slab plain 18 mm thick	sqm	**604.97**	*
6019	Black zebra marble slab piain 18 mm thick	sqm	**465.36**	*
6501	Local Sand (Fine)	cum	117.66	**
7001	Brass 100 mm mortice latch & lock with 6 levers with out pair of handles	each	**204.76**	*
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	**209.41**	*
7004	Vitreous china flat back wash basin 450x300 mm	each	**302.49**	*
7005	Vitreous china 10 litres low level cistern without fittings	each	**698.04**	*
7006	Vitreous china 10 litres low level cistern with fittings	each	**1209.94**	*
7007	Fly Ash Bricks as per IS 12894(2002) & IS 3425(I to IV)	per 1000	5156.00	**
7008	F.P.S.(non modular) clay fly ash bricks class designation 7.5	1,000nos	**3722.89**	*
7009	12.5 mm thick tapered edge gypsum plain borad	sqm	**148.92**	*
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	**44.67**	*
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	**21.41**	*
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	**37.23**	*
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	**12.10**	*
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	**3.72**	*
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	**2.79**	*
7016	Joint filler	kilogram	**25.13**	*
7017	Joint finisher	kilogram	**22.34**	*
7018	Joint tape roll	roll	**97.73**	*
7019	Dash fastner	each	**13.96**	*
7020	All drive screws(for gypsum board)	100 Nos.	**55.84**	*
7021	Primer (for gypsum uoard)	litre	**67.94**	*
7022	Chloropyriphos 20 % E.C. Lindane 20% E.C.	litre	**148.92**	*
7023	Chromium plated orackets (Curtain rod)	each	**6.52**	*
7024	Acid proof cement	tonne	**7585.40**	*
7025	Self tapping pan head nickel coated mild steel screws of size 13 x 3.2 mm	1000 nos.	**511.90**	*
7026	Fibre joint tape 50 mm wide (90 metre) roll	each roll	**158.22**	*
7027	M.S. Butt hinges 125x90x4 mm	ten	**102.38**	*
7028	12.5 mm thick Fully Perforated gypsum board	sqm	**400.21**	*
7029	Galvanised wire mesh of average width of aperture 1.4 mm and romin31 dia. of wire 0.63 mm	sqm	**241.99**	*
7030	12.5 mm thick tapered edge gypsum fire resistant board	sqm	**237.33**	*
7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	**265.26**	*
7032	Frosted glass sheet of nominal thickness 4mm (weighing not less than 10 kg/sqm)	sqm	**325.75**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7033	Nickle plated M.S. pipe 25 mm dia.	metre	**74.46**	*
7034	Nickle plated M.S. pipe 20 mm dia.	metre	**69.80**	*
7035	Nickle plated M.S. Brackets for curtain rod 20 mm	each	**6.52**	*
7036	Nickle plated M.S. Brackets for curtain rod 25 mm	each	**7.45**	*
7040	Oxidised mild steel screws 35 mm	100 Nos.	**46.54**	*
7042	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia.	metre	**40.95**	*
7043	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia.	metre	**52.12**	*
7044	Rolling shutters of 80xO.90mm laths	sqm	**930.72**	*
7045	Rolling shutters of 80x1.2mm laths	sqm	**1023.80**	*
7046	Top cover of Rolling shutters 0.90mm thick	metre	**279.22**	*
7047	Top cover of Rolling shutters 1.20mm thick	metre	**297.83**	*
7048	Rawl plug 50 mm (designation 10 no.)	each	**9.31**	*
7049	Teak wood lipping of size 25x3mm in pelmets	metre	**13.96**	*
7050	PU Primer	sqm	**37.23**	*
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	**391.83**	*
7052	GI wire netting 3/4" x 24 G	sqm	**25.13**	*
7053	400 G polythene sheet	sqm	**13.96**	*
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	**409.52**	*
7056	Aluminium Tee channel (heavy duty) with rollers and stop end	metre	**48.40**	*
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	**25.13**	*
7060	Hydraulic door closer tubular type Aluminium extruded section body - Gazel	each	**261.53**	*
7063	Oxidised M.S. casement stay (straight peg type) 300 mm not less than 0.33 kg.	each	**18.61**	*
7064	Oxidised M.S. casement stay (straight peg type) 250 mm not less than 0.28 kg.	each	**15.82**	*
7065	Oxidised M.S. casement stay (straight peg type) 200 mm not less than 0.24 kg.	each	**13.03**	*
	Extra for providing grilled rolling shutters with 8mm dia. M.S.	sqm	**251.30**	*
7068	Chequerred precast cement concrete tiles 22mm thick using marble chips of size 6mm Light shade using white cement	sqm	**335.06**	*
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	**558.43**	*
7072	Wall mounted water closet	each	**4327.86**	*
7073	Adjustable Vetrious China Cistern with fittings	each	**1861.45**	*
7074	White Vetrious China Waterless Urinal of size 600x330x315	each	**9404.96**	*
7075	Cistern with fittings for Waterless Urinal	each	**2233.74**	*
7076	Battery based infrared sensor operated White vitreous urinalof appox size 610x390x370	each	**3722.89**	*
7077	Acid and alkali resistant tiles size 300x300mm 10mm thick	ten	**418.83**	*
7087	S.C.I. Tee 150 mm	each	**558.43**	*
7090	Expanded polystyrene type N - Normal	sqm	**120.99**	*
7091	Expanded polystyrene type SE	sqm	**144.26**	*
7095	Stainless steel kitchen sink - with drain board bowl depth 250 mm	each	**2419.88**	*
7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm.	each	**2187.20**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7097	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 200 mm.	each	**2140.66**	*
7098	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth178 mm.	each	**2094.13**	*
7101	Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 mm	each	**1396.09**	*
7102	Stainless steel kitchen sink - without drain board 610x460 mm bowl depth 200 mm	each	**1163.40**	*
7103	Stainless steel kitchen sink - without drain board 470x420 mm bowl depth 178 mm	each	**1023.80**	*
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	**912.11**	*
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	**837.65**	*
7106	Coloured Vitreous china 10 lit. low level cistern	each	**1023.80**	*
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	**376.94**	*
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	**418.83**	*
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	**279.22**	*
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plasticmoulded frame	each	**325.75**	*
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	**651.51**	*
7116	Hard board 6 mm thick	each	**111.69**	*
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	**27.92**	*
7118	Semi Rigid PVC waste pipe for sink and wash basin40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	**32.58**	*
7119	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	**26.06**	*
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	**27.92**	*
7121	Bottle Trap	each	**604.97**	*
7122	CP Brass Single lever telephonic wall mixer of approved make	each	**3722.89**	*
7123	Coloured High density polyethylene/ poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	**502.59**	*
7126	White Vitreous china 10 lit. (full flush) capacity controlled low levelflushing cistern with all fittings	each	**744.58**	*
7127	Coloured Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	**1116.87**	*
7128	S.W. intercepting trap 100 mm dia	each	**176.84**	*
7129	S.W. intercepting trap 150 mm dia	each	**232.68**	*
7130	Rectangular shape 600x 450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	**651.51**	*
7131	Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	**558.43**	*
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D. - 25	each	**558.43**	*
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. - 10	each	**651.51**	*
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame - M.D. - 10	each	**558.43**	*
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	**856.27**	*
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 35	each	**1140.14**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS I S : 1995 and panels of 12 mm thick plain Type I, medium density flat pressed three l?ver, graded particle board (FPT-I) as per I S:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS : 848-1974	sqm	1582.23	*
7139	Factory made 35 mm thick shutters with lamineted veneer lumber styles rails as per TADS IS : 1995 and panels of 12 mm thick both sides prelaminated Type -1, medium density flat pressed three layer, graded particle board (FPT-I) IS: 3087 marked bonded with BWP type synthetic resin adhesive as per IS : 848-1974 .	sqm	**1675.30**	*
7143	12 mm thick one side prelaminated Type - I, other side balancing lamination, medium density, flat pressed three layer, graded particle board (FPT-I) as per IS : 3087, bonded with BWP type synthetic resin as per IS : 848-1974 35 mm thick shutters	sqm	**1861.45**	*
7151	Sheet glass using 10 kg I sqm glass panes 30 mm thick shutters	sqm	**1582.23**	*
7154	Using galvanised wire gauge with average width of aperture 1.4 mm on both direction with wire of dia. 0.63 mm 35 mm thick shutters	sqm	**1582.23**	*
7155	Using galvanised wire gauge with average width of aperture 1.4 mm on both direction with wire of dia. 0.63 mm 30 mm thick shutters	sqm	**1396.09**	*
7157	Using galvanised wire gauge with average width of aperture 1.4 [Tim on both direction with wire of dia. 0.63 mm Laminated veneer lumber conforming to TAOS 15 : 1995 manufactured in factory in frames of door, windows	10 cudm	679.43	*
7178	Chemical ASTMC-type I	kg	**102.38**	*
7181	C.I. pile shoe	kilogram	**46.54**	*
7182	M.S. clamps for pile shoe	kilogram	**41.88**	*
7183	Bentonite	tonne	**2885.24**	*
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for each door	each	**55.84**	*
7187	C.I. grating 150 mm dia. (Weighing not less than 440 gm)	each	**26.06**	*
7188	U-PVC pipes (working pressure 4 kg/cm^2) Single socketed ipe 75 mm dia	metre	**67.01**	*
7189	U-PVC pipes (working pressure 4 kg/cm^2) Single socketed ipe 110 mm dia.	metre	**125.65**	*
7190	U-PVC pipes (working pressure 4 kg/cm^2) Rubber (Seal) Ring 75 mm dia .	metre	**7.45**	*
7191	U-PVC pipes (working pressure 4 kg/cm^2) Rubber (Seal) Ring 110 mm dia .	metre	**11.17**	*
7192	UPVC coupler for UPVC drainage pipes 75 mm	each	**17.68**	*
7193	UPVC coupler for UPVC drainage pipes 110 mm	each	**38.16**	*
7194	UPVC pushfit coupler (single) 75 mm thick	each	**17.68**	*
7195	UPVC pushfit coupler (single) 110 mm thick	each	**31.64**	*
7196	UPVC single equal Tee (with door) 75x75x75 mm	each	**44.67**	*
7197	UPVC single equal Tee (with door) 110x110x110 mm	each	**79.11**	*
7198	UPVC single equal Tee (with door) 75x75x75 mm	each	**57.70**	*
7199	UPVC single equal Tee (with door) 110x110x110 mm	ecch	**90.28**	*
7208	UPVC bend 87.50 75 mm bend	each	**34.44**	*
7209	UPVC bend 87.50 110 mm bend	each	**57.70**	*
7212	UPVC plain shoe 75 mm	each	**26.06**	*
7213	UPVC plain shoe 110 mm	each	**45.61**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7214	UPVC pipe clip 75 mm bend	each	**14.89**	*
7215	UPVC pipe clip 110 mm bend	each	**13.96**	*
7231	Resin Bonded Glass wool 16 kg/m3, 50mm thick	sqm	**97.73**	*
7232	Resin Bonded Glass wool 24 kg/m3, 50mm thick	sqm	**139.61**	*
7233	Bitumen felt fibre base (vegetable or animal) Fibre glass tissue reinforced bitumen Felt Type 2 grade I conforming to IS : 7193	sqm	**80.04**	*
7236	Precast chequered cement tiles 22mm thick dark shade using ordinary cement	sqm	**218.72**	*
7237	Precast chequered cement tiles 22mm thick medium shade using 50% white cement, 50% ordinary cement	sqm	**325.75**	*
7238	High Albedo paint	kg	**206.66**	*
7239	Epoxy paint	litre	**206.66**	*
7240	Fire retardant paint	litre	**231.64**	*
7241	Melamine polish	litre	**269.91**	*
7244	Table rubbed polished stone 18mm thick (75x50 cm) Agaria marble stone - 18 mm thick	sqm	**1582.23**	*
7245	Table rubbed polished stone 18mm thick (75x50 cm) Granite stone 18 mm thick	sqm	**1582.23**	*
7246	Verticle load testing (INITIAL) of piles in accordance with IS : 2911 (part-IV) including installation of loading platform and prepration of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & Upto 50 tonne capacity pile	per test	**30900.02**	*
7247	Verticle load testing (INITIAL) of piles in accordance with IS : 2911 (part-IV) including installation of loading platform and prepration of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & Above 50 tonne & upto 100 tonne capacity pile:	per test	**37508.15**	*
7248	Verticle load testing (INITIAL) of piles in accordance with IS : 2911 (part-IV) including installation of loading platform and prepration of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & Group of two more piles Upto 50 tonne capacity piles.	per test	**45140.09**	*
7249	Cyclic vertical load testing of piles in accordance with IS: 2911 IV part including preparation of pile head etc. for Single piles Upto 50 tonne capacity tonne	per test	**13960.85**	*
7250	Cyclic vertical load testing of piles in accordance with IS: 2911 IV part including preparation of pile head etc. for Single piles Above 50 tonne capacity pile and upto 100 tonne capacity piles	per test	**21406.64**	*
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	**27456.34**	*
7252	Lateral load testing of singie pile in accordance with iS: 2911 Part - IV for determining safe allowable lateral load on pile. Upto 50 tonne capacity pile	per test	**13960.85**	*
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 piie and upto 100 tonne capacity piles	per test	**21965.07**	*
7254	Hard crete compound	litre	**37.23**	*
7255	Road marking paint (spirit based)	litre	**103.33**	*
7256	Superior quality road marking paint	litre	**120.55**	*
7257	C.P. Brass bibcock 15 mm	each	**279.22**	*
7258	C.P. Brass long nose bibcock 15 mm	each	**418.83**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7259	C.P. Brass long body bibcock 15 mm	each	**372.29**	*
7260	C.P. Brass stop cock (concealed) 15 mm	each	**418.83**	*
7261	C.P. Brass angle valve 15 mm	each	**362.98**	*
7266	Pressed clay tiles	1000 nos.	**8376.51**	*
7267	Plain ceiling tiles (BWP type phenol formal dehyde synthetic resin bonded) (600x600x12mm)	each	**111.69**	*
7268	Semi perforated ceiling tiles (600x600x12mm)	each	**104.24**	*
7269	25 mm thick particle board	sqm	**446.75**	*
7270	30mm thick pre laminated flush door shutter	sqm	**791.11**	*
7271	IInd class teak wood lipping 25mm wide x 12mm thick	metre	**27.92**	*
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	**874.88**	*
7273	Resin Bonded Rockwool 48 kg/m3	sqm	**116.34**	*
7274	Glass wool 50 mm thick	sqm	**232.68**	
7280	Waste plastic additive	tonne	**37228.94**	*
7281	Chemical ASTMC-type II	kg	**158.22**	*
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	**1628.77**	*
7296	Granite of any colour, 30 mm thick (slab area upto 0.50 sqm)	sqm	**1861.45**	*
7297	Granite of any colour,18 mm thick (slab area above 0.50sqm)	sqm	**1675.30**	*
7306	Aluminium T or L sections	kilogram	**186.14**	*
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	**316.45**	*
7309	Paving Asphalt of grade VG-30 of approved quality	tonne	**28401.96**	*
7312	Expandable fastner with plastic sleeve and M.S. screws. 25 mm long	each	**9.31**	*
7313	Expandable fastner with plastic sleeve and M.S. screws. 32 long	mm each	**10.24**	*
7314	Expandable fastner with plastic sleeve and M.S. screws. 40 long	mm each	**13.03**	*
7315	Expandable fastner with plastic sleeve and M.S. screws. 50 long	mm each	**13.96**	*
7318	Plasticizer/super plasticizer	kilogram	**35.37**	*
7319	Wall form panel 1250X500mm	each	**837.65**	*
7320	Tie bolt 12mm dia 100 mm length	each	**37.23**	*
7321	Tie bolt 12mm dia 150 mm length	each	**46.54**	*
7322	Tie bolt 20mm dia 150 mm length	each	**55.84**	*
7323	Tie bolt 20mm dia 225 mm length	each	**65.15**	*
7324	Spring coil 12mm	each	**14.89**	*
7325	Plastic cone 12mm dia	each	**16.75**	*
7326	Corner angle 45x45x5mm 1.50 m long	each	**232.68**	*
7327	100mm channel shoulder 2.5 m long	each	**884.19**	*
7328	Double clip (bridge clip)	each	**74.46**	*
7329	Single clip	each	**57.70**	*
7330	M.S. tube 40mm dia	metre	**209.41**	*
7331	Wall form panel 1250x450mm	each	**837.65**	*
7332	Corner angle 45x45x5 mm 2.50 m long	each	**246.64**	*
7333	Column clamp 450x1070 mm	each	**940.03**	*
7334	Prop 2 m (2-3.5m)	each	**618.93**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7335	Binding wire	kilogram	**44.67**	*
7338	Gun metal cramp	kilogram	**307.14**	*
7339	Stainless steel cramp	kilogram	**279.22**	*
7340	Stainless steel pin.	kg	**176.84**	*
7342	Adjustable span ESQ+SI (2.35-3.40)	each	**1442.62**	*
7343	Adjustable telescopic prop 3 m (2.00-3.75 m)	each	**930.72**	*
7344	Beam clamp 300-380mm (450-1070mm)	each set	**344.37**	*
7345	Prop 4m	each	**884.19**	*
7346	Double coupler	each	**44.67**	*
7347	Cadmium plated full threaded steei screws (30x4 mm dia.)	100 Nos.	**26.06**	*
7348	Aluminium Washer 2 mm thick 15 mm dia	100 Nos.	**9.31**	*
7349	12mm M.S. 'U' beading	metre	**13.96**	*
7350	M S tower bolt bright finished / black stone enamelled 250x10 mm .	each	**31.69**	****
7353	M S tower bolt bright finished / black stone enamelled 100x10 mm	each	**22.04**	****
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	**107.03**	*
7358	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and flush pipe)	each	**558.43**	*
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	**456.05**	*
7361	P.V.C. automatic flushing cistern 10 lts capacity	each	**493.28**	*
7363	15 mm C.P. brass tap with elbow operation lever	each	**418.83**	*
7364	White glazed fire clay draining board 600x450x25 mm	each	**511.90**	*
7366	Glass reinforced Gypsum (GRG) board 12.5 mm thick	sqm	**232.68**	*
7367	Galvanised M.S. sheet 0.50mm thick pressed channel section of size 50x32mm	metre	**55.84**	*
7369	Galvanised M.S. sheet 0.50mm thick pressed stud 48x34x36mm	metre	**69.80**	*
7375	G.I. flush pipe and C.P. brass spreader including C.P. conne cting pipe Single lipped urinal	each	**432.79**	*
7376	G.I. flush pipe and C.P. brass spreader including C.P. conne cting pipe Range of two lipped urinals	each	**744.58**	*
7377	G.I. flush pipe and C.P. brass spreader including C.P. conne cting pipe Range of three lipped urinals	each	**1023.80**	*
7378	G.I. flush pipe and C.P. brass spreader including C.P. conne cting pipe Range of four lipped urinals	each	**1396.09**	*
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	**844.17**	*
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	**604.97**	*
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	**228.03**	*
7382	Bitumen emulsion rapid setting (R.S.) confirming to IS : 8887	each	**23663.64**	*
7383	12 mm dia 50 mm long wedge type expanded zinc alloy dash fastener	each	**6.52**	
7385	3 mm thick translucent white acrylic plastic sheet	sqm	**530.51**	*
7386	12 thick particle board ceiling tile	sqm	**104.24**	*
7387	Spigot for standard jointing	kilogram	**41.88**	*
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	**11.17**	*
7389	Anodising 15 microns on aluminium sections	kilogram	**37.23**	*
7390	Neoprene / EPDM rubber gasket	meter	**18.61**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7391	Anodising 25 microns onaluminiu sections	kg	**46.54**	*
7392	Power coating 50 microns on aluminium sections	kg	**59.57**	*
7393	Polyster powder coating 50 microns on aluminium sections	kg	**65.15**	*
7394	Double action hydraulic floor spring with stainless steel cover plate	each	**1442.62**	*
7395	6 mm dia. M.S. adjustable hangers including clips (upto 1.2 m length)	each	**18.61**	*
7396	Double action hydraulic floor spring with brass cover plate	each	**1582.23**	*
7397	Base Jack	each	**139.61**	*
7398	Challies	each	**744.58**	*
7399	cup locks	each	**46.54**	*
7400	15 mm PTMT bib cock	each	**69.80**	*
7401	15 mm PTMT bib cock with flange (fancy)	each	**102.38**	*
7402	15 mm PTMT bib cock long body with flange	each	**113.55**	*
7403	15 mm dia PTMT stop cock(male thread)	each	**69.80**	*
7405	20 mm dia. PTMT stop cock	each	**94.93**	*
7406	PTMT pillar cock	each	**120.06**	*
7407	PTMT push cock 15 mm dia	each	**60.50**	*
7408	PTMT push cock 12 mm dia 20 mm BSP	each	**55.84**	*
7409	PTMT grating 100 mm dia	each	**19.55**	*
7410	PTMT Pillar cock (fancy) 15mm foam flow	each	**134.02**	*
7411	125 mm grating with waste hole	each	**29.78**	*
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)	each	**113.55**	*
7415	Double acting air valve 50 mm	each	**3629.82**	*
7416	Double acting air valve 80 mm	each	**4420.94**	*
7417	Double acting air valve 100 mm	each	**5770.49**	*
7418	Water meter (including testing charges) 80 mm	each	**1982.44**	*
7419	Water meter (including testing charges) 100 mm	each	**3071.39**	*
7420	Water meter (including testing charges) 150 mm	each	**4653.62**	*
7421	Water meter (including testing charges) 200 mm	each	**5025.91**	*
7422	Dirt box strainer 80 mm	each	**2615.33**	*
7423	Dirt box strainer 100 mm	each	**4262.71**	*
7424	Dirt box strainer 150 mm	each	**5407.50**	*
7425	Dirt box strainer 200 mm	each	**7678.47**	*
7426	Cat's eye	each	**97.73**	*
7427	Water stop Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	**196.38**	*
7428	Water stop Dumb bell with central bulb	metre	**153.57**	*
7429	Water stop Kicers	metre	**181.49**	*
7430	Wedge expansion hold fastner 1/4" or 6 mm	each	**11.17**	*
7431	Wedge expansion hold fastner 3/8" or 10 mm	each	**11.17**	*
7432	Wedge expansion hold fastner 1/2" or 12 mm	each	**26.06**	*
7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	**465.36**	*
7442	Wheel 75mm dia. 40mm wide	each	**60.50**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7443	Aluminium single cleat of size 30x32x3 mm	each	**13.96**	*
7444	Aluminium grip strip of size 50x12x2 mm	each	**11.17**	*
7445	25 mm prelaminated flush door both side decorative	sqm	**752.02**	*
7449	Aluminium U beading	kilogram	**204.76**	*
7451	Glass sheet (Pin headed) 4mm thick	sqm	**297.83**	*
7452	Raj Nagar plain- White Marble (table rubbed and polished 18mm thick slab area upto 0.50 sqm	sqm	**558.43**	*
7453	Raj Nagar plain- White Marble (table rubbed and polished 18mm thick slab area more than 0.50 sqm	sqm	**651.51**	*
7466	Second class deodar teak wood lipping 30mm width x 12mm	metre	**23.27**	*
7468	Veneered particle board with commercial veneerinq on both sides 12 mm thick	sqm	**483.98**	*
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat presed 3 layer & graded (medium density) Grade I. Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	**524.00**	*
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat presed 3 layer & graded (medium density) Grade I. Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	**628.24**	*
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat presed 3 layer & graded (medium density) Grade I. Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	**865.57**	*
7480	Prelaminated particle board with both sides decorative lamination.flat pressed 3 layer & graded (medium density) Graefe I. Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	**554.71**	*
7485	Oxidised M.S. hinges finished with nickle plating 50mm (Over all width)	metre	**39.09**	*
7486	Oxidised M.S. hinges finished with nickle plating 65mm (Over all width)	metre	**51.19**	*
7491	PTMT - Waste Coupling 31/32 mm	each	**33.51**	*
7492	PTMT - Waste Coupling 38/40 mm	each	**46.54**	*
7493	PTMT - Bottle Trap 31/32 mm	each	**202.90**	*
7494	PTMT - Bottle Trap 38/40 mm	each	**212.20**	*
7495	PTMT - Ball Cock 15 mm Complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	**97.73**	*
7496	PTMT - Ball Cock 20mm Complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	**130.30**	*
7497	PTMT - Ball Cock25 mm Complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	**279.22**	*
7498	PTMT - Ball Cock 40 mm Complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	**466.29**	*
7499	PTMT - Ball Cock 50 mm Complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	**849.75**	*
7500	PTMT - Angle Stop cock with Flange 15 mm	each	**94.93**	*
7501	PTMT - Swiveling shower 15 mm	each	**69.80**	*
7503	PTMT - Liquid Soap Container of 400 ml capacity	each	**99.59**	*
7504	PTMT - Towel Ring 215x200x37 mm	each	**125.65**	*
7505	PTMT - Towel Rail (450 mm)	each	**131.23**	*
7506	PTMT - Towel Rail (600 mm)	each	**157.29**	*
7507	PTMT - Shelf 450x124x36 mm	each	**195.45**	*
7508	PTMT - Urinal Spreader 15 mm	each	**74.46**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7509	PTMT - Soap Dish/Holder 138x102x75 mm	each	**79.11**	*
7512	PTMT - handle 125x34x24 mm	each	**23.27**	*
7513	PTMT - handle 150x34x24 mm	each	**23.27**	*
7514	PTMT - butt hinges 75x60x10 mm	each	**32.58**	*
7515	PTMT - butt hinges 100x75x10 mm	each	**41.88**	*
7516	PTMT - Tower bolt 152x42x18 mm	each	**46.54**	*
7517	PTMT - Tower bolt 202x42x18 mm	each	**65.15**	*
7518	PTMT - door catcher 72x42 mm	each	**23.27**	*
7552	Coir Veneered board 4 mm thick	sqm	**279.22**	*
7553	Coir Veneered board 6 mm thick	sqm	**372.29**	*
7555	Coir Veneered board 12 mm thick	sqm	**651.51**	*
7556	Coir Veneered board 18 mm thick	sqm	**977.26**	*
7621	Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 100 mm dia (3000 mm length pipe)	metre	**678.50**	*
7622	Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 75 mm dia (3000 mm length pipe)	metre	**555.64**	*
7623	Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 100 mm dia	each	**224.30**	*
7624	Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 75 mm dia	each	**152.64**	*
7625	Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 100x100x100x100 mm dia	each	**495.14**	*
7626	Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 75x75x75x75 mm dia	each	**266.19**	*
7627	Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 - 100x100x100 mm dia	each	**381.60**	*
7628	Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 - 75x75x75 mm dia	each	**209.41**	*
7629	Hubless centrifugally cast (spun) iron double unequal plain junction as per IS 15905 - 100x100x75x75 mm dia	each	**391.83**	*
7630	Hubless centrifugally cast (spun) iron single unequal plain junction as per IS 15905 - 100x100x75 mm dia	each	**364.84**	*
7631	Hubless centrifugally cast (spun) iron double equal plain invert branch as per IS 15905 - 100x100x100x100 mm dia	each	**607.76**	*
7632	Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 - 100x100x100 mm dia	each	**381.60**	*
7633	Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 - 75x75x75 mm dia	each	**251.30**	*
7634	Hubless centrifugally cast (spun) iron single unequal plain invert branch 45 degree as per IS 15905 - 100x100x75 mm dia	each	**418.83**	*
7635	Hubless centrifugally cast (spun) iron 65 mm offset with 100 mm dia pipe as per IS 15905	each	**351.81**	*
7636	Hubless centrifugally cast (spun) iron 65 mm offset with 75 mm dia pipe as per IS 15905	each	**286.66**	*
7637	Hubless centrifugally cast (spun) iron 130 mm offset with 100 mm dia pipe as per IS 15905	each	**425.34**	*
7638	Hubless centrifugally cast (spun) iron 130 mm offset with 75 mm dia pipe as per IS 15905	each	**302.49**	*
7639	Hubless centrifugally cast (spun) iron bend with access door - 100 mm dia as per IS 15905	each	**353.67**	*
7640	Hubless centrifugally cast (spun) iron bend with access door - 75 mm dia as per IS 15905	each	**282.01**	*
7641	Hubless centrifugally cast (spun) iron terminal guard (slotted cowl) - 100 mm dia as per IS 15905	each	**263.39**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7642	Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 100 mm outlet as per IS 15905	each	**521.21**	*
7643	Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 75 mm outlet as per IS 15905	each	**376.01**	*
7644	SS 304 grade shielded coupling with EPDM rubber gasket for 100 mm dia Hubless centrifugally cast (spun) iron	each	**267.12**	*
7645	SS 304 grade shielded coupling with EPDM rubber gasket for 75 mm dia Hubless centrifugally cast (spun) iron	each	**243.85**	*
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100 mm dia	metre	**744.58**	*
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150 mm dia	metre	**1116.87**	*
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200 mm dia	metre	**1535.69**	*
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 250 mm dia	metre	**2140.66**	*
7655	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 300 mm dia	metre	**2661.87**	*
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 350 mm dia	metre	**3266.84**	*
7657	Ductile Iron class K - 9 pipe Conforming to I.S. 8329400 mm dia	metre	**4188.26**	*
7658	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 450 mm dia	metre	**4839.76**	*
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 500 mm dia	metre	**6124.16**	*
7660	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 600 mm dia	metre	**7380.64**	*
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 700 mm dia	metre	**10237.96**	*
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 750 mm dia	metre	**11075.61**	*
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 800 mm dia	metre	**11168.68**	*
7664	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 900 mm dia	metre	**13495.49**	*
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 1000 mm dia	metre	**15170.79**	*
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	ench	**27.92**	*
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150mm dia	ench	**35.37**	*
7669	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200mm dia	ench	**61.43**	*
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250mm dia	ench	**72.60**	*
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	ench	**107.03**	*
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	ench	**122.86**	*
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	ench	**223.37**	*
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	ench	**260.60**	*
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	ench	**283.87**	*
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	ench	**353.67**	*
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	ench	**535.17**	*
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia	ench	**642.20**	*
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	ench	**707.35**	*
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	ench	**930.72**	*
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	ench	**1116.87**	*
7682	Ductile Iron K - 12 specials suitable for push on jointing upto 600 mm dia	quintal	**12099.40**	*
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600 mm dia	quintal	**16753.02**	*
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - upto 600 mm dia	quintal	**12750.91**	*
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm dia	quintal	**18288.71**	*
7686	Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia	metre	**1074.99**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 mm dia	metre	**1612.94**	*
7688	Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia	metre	**2028.05**	*
7689	Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia	metre	**2883.38**	*
7690	Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia	metre	**3704.28**	*
7691	Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia	metre	**4671.30**	*
7692	Ductile Iron Pipe Class K-9 flanges and welding400mm dia	metre	**6010.61**	*
7693	Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia	metre	**6306.58**	*
7694	Ductile Iron Pipe Class K-9 flanges and welding 500mm dia	metre	**8971.24**	*
7695	Ductile Iron Pipe Class K-9 flanges and welding600mm dia	metre	**11874.17**	*
7696	Ductile Iron Pipe Class K-9 flanges and welding700 mm dia	metre	**14043.69**	*
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia	metre	**837.65**	*
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125mm dia	metre	**1042.41**	*
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia	metre	**1256.48**	*
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia	metre	**2140.66**	*
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia	metre	**2792.17**	*
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia	metre	**3769.43**	*
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350mm dia	metre	**4514.01**	*
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400mm dia	metre	**5956.63**	*
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450 mm dia	metre	**7213.11**	*
7706	S&S Centrifugally (Spun) C.I. Pipe class LA500 mm dia	metre	**8376.51**	*
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia	metre	**11722.46**	*
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	quintal	**5072.44**	*
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	quintal	**6059.01**	*
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	quintal	**8376.51**	*
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per IS 13382 over 300 mm dia	quintal	**8841.87**	*
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	metre	**1279.74**	*
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	metre	**2001.06**	*
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	metre	**3164.46**	*
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	metre	**3815.97**	*
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	metre	**4876.99**	*
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	metre	**6142.77**	*
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	metre	**7957.69**	*
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	metre	**10144.89**	*
7720	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500 mm dia	metre	**12620.61**	*
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	metre	**17497.60**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia	metre	**721.31**	*
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia	metre	**1042.41**	*
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200 mm dia	metre	**1442.62**	*
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia	metre	**1954.52**	*
7726	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300 mm dia	metre	**2579.03**	*
7727	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350 mm dia	metre	**3121.65**	*
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia	metre	**3736.85**	*
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia	metre	**4515.87**	*
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia	metre	**5337.70**	*
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia	metre	**6889.21**	*
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia	metre	**8947.04**	*
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia	metre	**11261.75**	*
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia	metre	**14522.08**	*
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000 mm dia	metre	**15852.08**	*
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000nos	**5025.91**	*
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894 -1989	1000nos	**5398.20**	*
7738	Calcium Silicate Bricks machine moulded confirming to I.S. 4139	1000nos	**5305.12**	*
7739	Modified Bitumen Refinery produced CRMB - 55	toone	**36387.00**	**
7741	Modified Bitumen Refinery produced CRMB - 60	toone	**36387.00**	**
7742	Bitumen emulsion medium setting (M.S.) conforming to IS : 8887	toone	**39393.00**	**
7743	M.S. pipe 150 mm dia casing pipe	metre	**884.19**	*
7744	M.S. pipe 200 mm dia casing pipe	metre	**1116.87**	*
7745	PVC blind pipe 150 mm dia as per IS: 12818	metre	**453.26**	*
7746	PVC blind pipe 200 mm dia as per IS: 12818	metre	**483.05**	*
7747	M.S. cap 150 mm dia	each	**139.61**	*
7748	M.S. cap 200 mm dia	each	**176.84**	*
7749	M.S bail plug 150 mm dia	each	**176.84**	*
7750	M.S bail plug 200 mm dia	each	**195.45**	*
7751	PVC slotted pipe 150 mm dia as per IS: 12818	metre	**418.83**	*
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	**651.51**	*
7753	Boulder 50 mm to 200 mm	cum	**651.51**	*
7754	Gravel 5 mm to 10 mm	cum	**744.58**	*
7755	Gravel 1.5 mm to 2 mm	cum	**744.58**	*
7756	Gravel 3 mm to 6 mm	cum	**744.58**	*
7757	M.S. pipe 100 mm dia casing pipe	metre	**651.51**	*
7758	UPVC blind pipe 100 mm dia as per IS: 12818	metre	**227.10**	*
7759	UPVC slotted pipe 100 mm dia as per IS: 12818	metre	**353.67**	*
7760	M.S. cap 100 mm dia	each	**111.69**	*
7761	M.S. bail plug 100 mm dia	each	**139.61**	*
7762	Precast R.C.C. perforated slab	each	**744.58**	*
7763	Water supply tanker of 5000 litre capacity	each	**698.04**	*
7764	M.S. socket 100 mm dia	each	**111.69**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7765	M.S. socket 150 mm dia	each	**195.45**	*
7766	M.S. socket 200 mm dia	each	**251.30**	*
7767	Stone cleaning chemical approved by ASI	litre	**153.57**	*
7768	Water repallent chemical approved by ASI	litre	**604.97**	*
7769	Stone surface strengthening chemical approved by ASI	litre	**949.34**	*
7770	Turpentine oil	litre	**51.19**	*
7771	Liquid Amonia 5%	litre	**149.85**	*
7772	Pea Gravel	cum	**837.65**	*
7773	Coloured inter locking C.C. paver Block	sqm	**465.36**	*
7774	Stone size 10x10x7.50cm	each	**8.38**	*
7775	Sodium pentachlorophenate	kilogram	**586.36**	*
7800	Ceramic Glazed Tiles 1st Quality minimum thickness 5mm in all colours shades except Burgandy, Bottle Green, Black	sqm	**195.45**	*
7801	Ceramic Glazed Tiles 1st quality 300x300 mm in all shades & designs of White, Ivory, Fume Red Brown etc.	sqm	**195.45**	*
7802	Ceramic Glazed Tiles 1st quality 300x300 mm in all shades & designs except White, Ivory, Grey and Fume Red Brown etc.	sqm	**241.99**	*
7803	Ceramic Glazed Tiles 1st quality 300x300 or more in all shades designs White, Ivory, Grey and Fume Red Brown etc.	sqm	**310.86**	*
7804	Ceramic Glazed Tiles 1st quality 300x300 or more mm hi all shades designs except White, Ivory, Grey and Fume Red brown etc.	sqm	**372.29**	*
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724 mm X 578 mm	each	**3350.60**	*
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405 mm X355 mm	each	**1396.09**	*
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530 mm X 345 mm each	each	**1396.09**	*
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	**404.86**	*
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	**435.58**	*
7850	Agaria White marble slab plain 18 mm thick	each	**1023.80**	*
7857	P.T.M.T. Grating square slit 150 mm	each	**46.54**	*
7858	P.T.M.T. Urinal cock 15mm dia	each	**102.38**	*
7859	P.T.M.T. Bib cock with nozzle 15 mm	each	**78.18**	*
7861	P.T.M.T. Stop cock (concealed) 15 mm	each	**116.34**	*
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	**29.78**	*
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	**31.64**	*
7864	P.T.M.T. extension nipple 15 mm	each	**17.68**	*
7865	P.T.M.T. extension nipple 20 mm	each	**26.06**	*
7866	P.T.M.T. extension nipple 25 mm	each	**37.23**	*
7893	Tactile tile	sqm	**837.65**	*
7895	Matt finished vitrified tile 100x100 x16 mm	sqm	**350.88**	*
7896	Vitrified tile	sqm	**287.59**	*
7900	Modular common burnt clay bricks of class designation 7.5	1,000nos	**4188.26**	*
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1,000nos	**4281.33**	*
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1,000nos	**4979.37**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1,000nos	**4653.62**	*
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1,000nos	**4653.62**	*
7911	Chemical Rust Remover	litre	**186.14**	*
7912	Hire charges of Drill machine upto 30 mm dia	day	**139.61**	*
7913	Epoxy	kg	**511.90**	*
7914	SBR Polymer	kg	**167.53**	*
7915	Woven PVC cloth	sqm	**23.27**	*
7916	Hire charges of sand blasting equipment	day	**372.29**	*
7917	Hire charges of compressure	day	**558.43**	*
7918	25mm thick cement concrete shotcrete(guniting) with compressor	sqm	**93.07**	*
7919	50mm thick cement concrete shotcrete(guniting) with compressor	sqm	**148.92**	*
7920	75mm thick cement concrete shotcrete(guniting) with compressor	sqm	**247.57**	*
7921	Adhesive chemical	ml	**2.20**	*
7922	Bit of drilling machine for Hole upto 30mm dia	each	**442.09**	*
7923	GI injection nipple 12mm dia, 75mm long	each	**37.23**	*
7924	Blowing compressed air for cleaning holes upto 30mm dia	each	**9.31**	*
7925	L shaped 100mm long, 10mm dia mild steel shear key	kg	**62.45**	*
7926	Welding charges of shear key to existing reinforcement	each	**1.86**	*
7927	Acrylic Polymer chemical for cracks	kg	**27.92**	*
7928	Hire charges of Plant and machinery, it can inject - 350kg/day	day	**93.07**	*
8001	24 mm thick Factory made shutters with styles, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	**1298.36**	*
8002	30 mm thick Factory made shutters with styles, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	**1416.56**	*
8003	Factory made PVC rigid foam panelled door shutter 30 mm thick	sqm	**2047.59**	*
8004	Factory made PVC rigid foam panelled shutters as per I S: 4020 i/c carriage	sqm	**2419.88**	*
8006	Factory made PVC rigid foam sheet 1 mm thick	sqm	**186.14**	*
8007	Factory made PVC rigid foam sheet 5 mm thick	sqm	**588.22**	*
8008	Factory made Prelaminated PVC rigid foam sheet 5 mm thick	sqm	**699.90**	*
8010	Factory made PVC Door frame 48x40x1.5 mm in white , grey or wooden finish	metre	**148.92**	*
8011	Factory made door frame *PVC* extruded sheet i/c carriage	metre	**325.75**	*
8012	Adhesive Solvent cement	litre	**130.30**	*
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.		**1535.69**	*
8014	Factory made door frame of size 50x47 mm with wall thickness 5mm made of single piece extruded profile	metre	**465.36**	*
8015	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3	sqm	**16.75**	*
8016	High Density expanded poly ethylene (EPE) Foam 1mm thick	sqm	**7.91**	*
8017	Fire rated door frame made with 1.6 mm thick G.I sheet (120 minutes fire rating)	metre	**884.19**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8018	Fire rated door shutter made with 1.6 mm thick G.I sheet (120 minutes fire rating) including hinges (without glass panels)	sqm	**4653.62**	*
8021	Bamboo wood Tile Flooring 14mm thick of minimum size 1800mm x 130mm	sqm	**3513.48**	*
8022	Bamboo wood Quarter Round 18mm thick of size 1900mm x 18mm	metre	**116.34**	*
8023	Bamboo wood door reducer 14mm thick of size 1900mm x 44mm	metre	**255.95**	*
8024	Bamboo wood Skirting 14mm thick of Size 1900mm x 85mm	sqm	**302.49**	*
8025	Bamboo wood Tile Wall Cladding 10mm thick of size 1900mm x 135mm	sqm	**3141.19**	*
8026	Bamboo wood T-mold 14mm thick of size 1900mm x 44mm	metre	**255.95**	*
8027	Bamboo wood Threshold 14mm thick of size 1900mm x 44mm	metre	**255.95**	*
8028	Bamboo wood shutter of doors	10cudm	**1675.30**	*
8029	Bamboo wood panelling (10mm thick)	10cudm	**1675.30**	*
8030	Superior class Bamboo wood door frame 65 mm thick,	10cudm	**1675.30**	*
8031	Aluminium sheets Grade 5052, 4 mm thick for wall panel/deck panel/ WRB panel/Kicker Panels/door closing panels (for form work)	sqm	**7911.15**	*
8032	Aluminium sheets Grade 5052, 4 mm thick for Column Corners/ (for form work) Internal Corner/	sqm	**10703.32**	*
8033	Aluminium sheets Grade 5052, 4 mm thick for (for form work)	sqm	**29783.15**	*
	Accessories for aluminium form work		**0.00**	*
8034	External corner 2050 mm	each	**1303.01**	*
8035	External corner 825 mm	each	**525.86**	*
8036	soldier tie 370mm	each	**255.02**	*
8037	Adjustable prop-2.0 x2.0 m	each	**1005.18**	*
8038	Pin-50	each	**13.96**	*
8039	Pin-127	each	**48.40**	*
8040	wedge	each	**13.03**	*
8041	wall tie-150 (355 mm)	each	**41.88**	*
8042	Polythene Sleeve 90 x 150mm	each	**2.79**	*
8043	Polythene Roll - 150mm Long.	each	**5.58**	*
8044	Vertical Soldier -1100mm	each	**326.68**	*
8045	Wall Attached Bracket 600x1000mm	each	**871.16**	*
8046	Allignment Pipe - 3.00 Mtr.	each	**893.49**	*
8047	Allignment Bracket	each	**418.83**	*
8048	Tie Rod for Bracket - 500mm	each	**100.52**	*
8049	Anchor Wing Nut Ø100 mm	each	**55.84**	*
8050	Debit Pin - 250mm	each	**52.12**	*
8051	PVC Pipe Ø20mm - 150mm long	each	**4.65**	*
8052	PVC Cone	each	**4.65**	*
8053	Bolt+Nut - 16 x 80 mm	each	**27.92**	*
8054	Flat Washer Ø16, 3mm thik	each	**4.65**	*
8055	Bolt+Nut - 16 x 30 mm	each	**16.75**	*
8056	Door spacer 45x45x5-1135mm Long	each	**316.45**	*
8057	Door spacer 45x45x5 - 985mm long	each	**274.56**	*
8100	Powder coated M.S. Butt Hinges 100x58x1.9mm	10 Nos	**79.11**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8101	SS ball bearing of size 100 x89x3mm	each	**279.22**	*
8116	Zinc alloy (white powder coated) 3D Hinges for uPVC door	each	**423.48**	*
8117	Zinc alloy (white powder coated) handles with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key for uPVC casement door	each set	**1861.45**	*
8118	Zinc alloy (white powder coated) handles along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding window	each set	**884.19**	*
8119	Zinc alloy (white powder coated) handles with key along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding door	each set	**1070.33**	*
8121	uPVC extruded (small series) casement window frame size 47x50mm	metre	**229.89**	*
8122	uPVC extruded (small series) casement window sash/window mullion size 47x68 mm	metre	**248.50**	*
8125	uPVC extruded glazing bead of appropriate dimension for small series casement window Sash	metre	**83.77**	*
8126	uPVC extruded (big series) casement window frame size 67x60 mm	metre	**333.20**	*
8127	uPVC extruded (big series) casement door frame size 67x64 mm	metre	**344.37**	*
8128	uPVC extruded (big series) casement window sash/window mullion/ door mullion size 67x80 mm	metre	**393.70**	*
8129	uPVC extruded (big series) casement door sash size 67x110 mm	metre	**511.90**	*
8130	uPVC extruded glazing bead of appropriate dimension for big series casement window/door sash	metre	**106.10**	*
8131	**uPVC extruded glazing bead of appropriate dimension for small series** sliding window sash	metre	**51.19**	*
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding window/ door sash	metre	**76.32**	*
8133	uPVC extruded (small series) 2 track sliding window frame size 52x 44 mm	metre	**248.50**	*
8134	uPVC extruded (big series) 2 track sliding window/door frame size 67x 50mm	metre	**341.58**	*
8135	uPVC extruded (small series) 3 track sliding window frame size 92x 44 mm	metre	**335.06**	*
8136	uPVC extruded (big series) 3 track sliding window/door frame size 116x45mm	metre	**470.02**	*
8137	uPVC extruded (small series) 2 track sliding window sash/3 track sliding window sash size 32x60mm	metre	**233.61**	*
8138	uPVC extruded (big series) 2 track sliding window sash size 46x62mm	metre	**289.45**	*
8139	uPVC extruded (big series) 3 track sliding window sash size 46x62mm	metre	**289.45**	*
8140	uPVC extruded interlock of appropriate dimension for small series sliding window sash	metre	**69.80**	*
8141	uPVC extruded interlock of appropriate dimension for big series sliding window/ door sash	metre	**79.11**	*
8142	uPVC extruded inline adaptor of appropriate dimension for big series sliding window/door sash	metre	**79.11**	*
8143	uPVC extruded 2 track sliding door sash/ 3 track sliding door sash (big series) size 46x82mm	metre	**304.35**	*
8200	APP modified Polymeric felt 1.5 mm thick	sqm	**69.80**	*
8201	APP modified Polymeric felt 2.0 mm thick	sqm	**91.21**	*
8203	A P.P. modified 2 mm thick membrane reinforced with glass fibre matt.	sqm	**93.07**	*
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt.	sqm	**186.14**	*
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt.	sqm	**190.80**	*
8206	Bitumen primer for bitumat membrane.	litre	**83.77**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8207	Geotextile 120 gsm membrane	sqm	**41.88**	*
8210	Stainless Steel 50mm long Screws	100 Nos.	**241.99**	*
8211	Stainless Steel 40mm long Screws	100 Nos.	**193.59**	*
8212	Stainless Steel 30mm long Screws	100. Nos.	**167.53**	*
8214	Stainless Steel 20mm long Screws	100 Nos.	**111.69**	*
8215	Stainless Steel 125x64x1.90mm Butt Hinge IS: 12817 marked	10 Nos.	**232.68**	*
8216	Staialess Steel 100x58x1.90mm Butt Hinge IS : 12817 marked	10 Nos.	**214.07**	*
8217	Stainless Steel 75x47x1.80mm Butt Hinge IS : 12817 marked	10 Nos.	**139.61**	*
8218	Stainless Steel 50x37x1.50mm Butt Hinge IS: 12817 marked	10 Nos.	**120.99**	*
8219	Stainless Steel 125x64x2.50mm Butt Hinge IS: 12817 marked	10 Nos.	**307.14**	*
8220	Stainless Steel 100x60x2.50mm Butt Hinge IS:12817 marked	10 Nos.	**223.37**	*
8221	Stainless Steel 75x60x2.50mm Butt Hinge IS: 12817 marked	10 Nos.	**181.49**	*
8222	M. S. heavy weight butt hinges 125x90x4.00mm (heavy weight) IS: 1341 marked	10 Nos.	**186.14**	*
8223	M. S. heavy weight butt hinges 100x75x3.50mm (heavy weight) IS: 1341 marked	10 Nos.	**139.61**	*
8224	M.S. heavy weigh butt hinges 75x60x3.10mm (heavy weight) IS: 1341 marked	10 Nos.	**83.77**	*
8225	M.S. heavy weight butt hinges 50x40x2.50mm (heavy weight) IS: 1341 marked	10 Nos.	**69.80**	*
8226	Concealed zinc coated hinges 19-20 mm thick with mounting plate	10 Nos.	**372.29**	*
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	**57.70**	*
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	**72.60**	*
8302	2025 mm PE-AL-PE Composite pressure pipe	metre	**102.38**	*
8303	2532 mm PE-AL-PE Composite pressure pipe	metre	**146.12**	*
8304	3240 mm PE-AL-PE Composite pressure pipe	metre	**218.72**	*
8305	4050 mm PE-AL-PE Composite pressure pipe	metre	**307.14**	*
8500	Water for jetting / blowback	1000 litre	**1396.09**	*
8501	Polymer modified cementation coating	kilogram	**130.30**	*
8502	Fibre glass cloth	sqm	**40.95**	*
8503	Fibre glass cloth	sqm	**45.46**	****
8504	Multi surface paint	litre	**219.58**	*
8505	Acralyc exterior paint	litre	**146.39**	*
8506	Premium Acralyc exterior paint	litre	**174.80**	*
8507	Textured exterior paint	litre	**198.05**	*
8508	Primer for cement paint	litre	**65.15**	*
8509	Special Primer (C.W.)	litre	**130.30**	*
8510	Metal Primer (U.G.)	litre	**83.77**	*
8511	Fibre reinforced elastomeric liquid water proofing membrane	litre	**184.93**	*
8512	Cementitious water proofing coating with elastic polymers	kg	**176.03**	*
8513	Acrylic modified resin based texture	kg	**45.50**	*
8514	40 mm long S.S screws with plastic rawl plugs	each	**35.37**	*
8515	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	**0.93**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8552	Mineral fibre beveled tegular edged ceiling tiles 595 x595mm,16 mm thick	sqm	**731.55**	*
8553	Mineral fibre beveled tegular edged ceiling tiles 595 x595mm,16 mm thick with bio-block conforming to ISO 5 (class 100) specifications.	sqm	**797.63**	*
8554	Mineral fiber beveled tegular edged ceiling tiles 595 x595mm,20 mm thick.	sqm	**921.42**	*
8555	G.I main runner 15 x32 mm of 3000 mm length, 0.33 mm thick	each	**164.74**	*
8556	G.I cross-T 15 x32 mm of 1200 mm length, 0.33 mm thick	each	**67.94**	*
8558	G.I hanger rod 6mm dia fully threaded upto 1000 mm length	each	**23.27**	*
8559	Stainless steel U Channel of size (50x25x2mm)	metre	**139.61**	*
8560	Non staining water resistant clear silicon	metre	**56.77**	*
8561	Extruded polystyrene rigid insulation board 50 mm thick	sqm	**465.36**	*
8563	15 mm thick, light weight, integral densified micro look edged,false ceiling tiles of size 595x595 mm.	sqm	**837.65**	*
8564	15 mm thick, light weight,fully perforated square/butt edge integral densified,false ceiling tiles of size 595x595 mm.	sqm	**805.08**	*
8565	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	**23.27**	*
8566	Powder coated steel section main-T ceiling sections 15x42x0.40 mm (3000 mm long)	each	**209.41**	*
8567	Galvanized mild steel perimeter wall angle 22x19x0.40 mm (3000 mm long)	each	**102.38**	*
8568	Powder coated Galvanised Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long)	each	**83.77**	*
8569	Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40mm (600 mm long)	each	**41.88**	*
8576	Crates made of Mesh type 10x12 (D=100 mm) Zinc coated. (Mesh wire diameter 3.00 mm).	sqm	**176.84**	*
8577	Crates made of Mesh type 10x12 (D=100 mm) Zn+PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD).	sqm	**204.76**	*
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	**269.91**	*
8579	Cold form light gauge Steel C-section of thickness 0.75mm i/c zink coating/sliting etc.	kg	**117.27**	*
8580	Wastage of cold form light gauge steel	kg	**15.82**	*
8581	12 mm thick micro tegular edged semi perforated GRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	**580.77**	*
8582	12 mm thick micro tegular edged fully perforated GRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	**657.09**	*
8583	10 mm thick square edge fully perforated GRG(Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	**657.09**	*
8587	Galvanized iron intermediate cross-T section 15x32x0.33 mm (600 mm long)	each	**31.64**	*
8588	Galavanised MS hanger rod 6mm dia MS fully threaded up to 1000 mm length	each	**23.27**	*
8589	Calcium Silicate tegular edged celling tiles 595x595 mm and 15mm thick	sqm	**800.42**	*
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm(3 metre long)	each	**105.17**	*
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	**58.64**	*
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x0.33 mm (1.2 metre long)	each	**35.37**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x0.33 mm (0.6 metre long)	each	**17.68**	*
8594	Galvanised Steel soffit cleat size 25x35x1.60 mm	each	**3.72**	*
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	**0.93**	*
8596	Galvanised MS 8mm outer diameter M-6 dash fastener 25mm long	each	**28.85**	
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	**604.97**	*
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	**755.75**	*
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	**474.67**	*
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	**567.74**	*
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	**437.44**	*
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	**446.75**	*
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	**167.53**	*
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	**83.77**	*
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	**102.38**	*
8607	Spring T-connector	each	**4.65**	*
8608	C Carrier Connector	each	**10.24**	*
8609	C Suspension Clip	each	**7.45**	*
8610	Wire Coupling Clip	each	**8.38**	*
8611	Main T ceiling sections 24x38x0.3 mm (3 meter long)	each	**94.00**	*
8612	Perimeter Wall angle 21 x21 mm (3 meter long)	each	**69.80**	*
8613	Intermediate Cross Channel (1.2 mtrs)	each	**31.64**	*
8614	Intermediate Cross Channel (1.6 mtrs)	each	**15.82**	*
8615	Hanger rod 0.5 mm thick	each	**7.45**	*
8616	Adjustment clip	each	**4.65**	*
8617	Soffit Cleat	each	**3.72**	*
8618	Dash fastener 6 mm dia 50 mm long	each	**7.45**	*
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	**13.03**	*
8620	Vitrified floor tiles 50x50 cm	sqm	**456.05**	*
8621	Vitrified floor tiles 60x60 cm	sqm	**558.43**	*
8622	Vitrified floor tiles 80x80 cm	sqm	**791.11**	*
8623	Vitrified floor tiles 1 00x1 00 cm	sqm	**1293.71**	*
8624	"Border tiles 200x75mm size	each	**14.89**	
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 mm Outer dia	metre	**35.82**	****
8626	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 20mm Outer dia	metre	**55.18**	****
8627	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 25mm Outer dia	metre	**85.20**	****
8628	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 32mm Outer dia	metre	**137.48**	****
8629	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 40mm Outer dia	metre	**206.21**	****

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8630	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 50mm Outer dia	metre	**322.39**	****
8631	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 63mm Outer dia	metre	**496.66**	****
8632	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 75mm Outer dia	metre	**677.71**	****
8633	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 -90mm Outer dia	metre	**1032.05**	****
8634	Poly propylene- Random - Co - Polymer (PPR) pipes SDR -11-110 mm Outer dia	metre	**1161.78**	****
8635	Poly propylene- Random - Co - Polymer (PPR) pipes SDR-11 -160mm Outer dia	metre	**2420.36**	****
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia	metre	**32.58**	*
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia	metre	**50.26**	*
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia	metre	**72.60**	*
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia	metre	**108.89**	*
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia	metre	**148.92**	*
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia	metre	**249.43**	*
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner dia	metre	**605.90**	*
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia	metre	**679.43**	*
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia	metre	**916.76**	*
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia	metre	**1360.72**	*
8646	Silicon sealant	cartridge	**93.07**	*
8647	Stainless steel screws 30mmx4mm	cent	**29.78**	*
8648	Hermetically sealed double glazed unit made with 6mm thick clear float glass both side having 12 mm air gap	sqm	**1961.96**	*
8649	Stainless steel (ss 304 grade) adjustable friction windows stay 205x19mm	each	**157.29**	*
8650	Stainless steel (ss 304 grade) adjustable friction window stay 255x19mm	each	**203.83**	*
8651	Stainless steel (ss 304 grade) adjustable friction window stay 355x19mm	each	**177.77**	*
8652	Stainless steel (ss 304 grade) adjustable friction window stay 510x19mm	each	**479.32**	*
8653	Stainless steel (ss 304 grade) adjustable friction window stay 710x19mm	each	**827.41**	*
8654	Masking tape	metre	**2.14**	*
8655	Autoclaved aerated cement (AAC) blocks.	cum	**2101.20**	**
8656	Gypsum panel 666x500x100 mm size	sqm	**446.75**	*
8657	Bonding laster for gypsum panel.	kg	**19.55**	*
8658	Mechanised autoclaved fly ash lime bricks.	1000 nos	**4434.53**	****
8659	Water proof ply 12 mm thick.	sqm	**481.18**	*
8660	Aluminium casement window fastener(anodised ac 15)	each	**37.23**	*
8661	A'uminium casement window fastener(powder coated).	each	**40.02**	*
8662	Aluminium casement window fastener (polyester powder coated).	each	**39.09**	*
8663	Aluminium round shpe handle (anodised ac" 15)	each	**45.61**	*
8664	Aluminium round shpe handle (powder coated)	each	**50.26**	*
8665	Aluminium round shape handle (polyester powder coated).	each	**54.91**	*
8666	Stainless steei ocrews 25mmx4mm	cent	**32.58**	*
8667	UV-stabilised 2 mm thick plain frp sheet.	sqm	**437.44**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8668	UV stabilised 2 mm thick corrugated frp sheet.	sqm	**502.59**	*
8669	Mangalore ridgetiles 20 mm thick	each	**7.45**	*
8670	Mangalore tiles 20 mm thick.	each	**7.45**	*
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	**349.02**	*
8672	Precoated galvanised steel plain ridges 0.50 mm TCT and 500 -600 mm wide Precoated galvanised steel plain ridges 0.50 mm TCT and 500 -600 mm wide	metre	**214.07**	*
8673	Precoated galvanised steel flashings/aprons.	metre	**214.07**	*
8674	Precoated galvanised steel gutter	metre	**423.48**	*
8675	Precoated galvanised steel north light curves.	metre	**232.68**	*
8676	Precoated galvanised steel barge board	metre	**218.72**	*
8677	Precoated galvanised steel crimp curve	sqm	**232.68**	*
8678	1 mm thick 35 mm wide bright finished stainless steel paino hinges.	metre	**37.23**	*
8682	Epoxy Grout	kg	**345.30**	*
8683	Red sand stone gang saw cut 30 mm thick.	sqm	**325.75**	*
8684	White sand stone gang saw cut 30 mm thick.	sqm	**372.29**	*
8685	Delineator	each	**255.95**	*
8686	Precast c.c. kerb stone M-25	cum	**3536.75**	*
8687	Thermoplastic paint	**kg**	**40.47**	*
8688	glass beads	kg	**55.84**	*
8689	Interlocing c.c. paverblock (60 mm thick, m-30)	sqm	**325.75**	*
8690	High intensity retro-reflective sheet.	sqm	**1419.35**	*
8691	Punched tape concertina coil 600 m dia. 10m openable length (total length 90 m)	bundle	**628.24**	*
8692	RBT reinforced barbed wire.	metre	**6.52**	*
8693	Turn buckle and strengthening bolte	each set	**37.23**	*
8694	Precast pavement slab 450x450x50 mm (m-30).	each	**65.15**	*
8695	Chain link fabric fencing mesh of size 50x50xmm made of G.I wire of dia. 4mm, pvc coated to outer dia. 5mm.	sqm	**240.13**	*
8696	Chain lind fabric fencing mesh of size 25x25xmm made of G.I wireof dia. 3 mm.	sqm	**265.26**	*
8697	Chain link fencing mesh of size 25x25 mm made of g.i. wire of dia. 3 mm.	sqm	**316.45**	*
8698	Stainless steei cramps with nuts, bolts and washer for dry stone cladding.	each	**83.77**	*
8699	8 mm thick tapered edge calcium silicated board.	sqm	**232.68**	*
8700	10 mm thick calcium silicate board.	sqm	**372.29**	*
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	**543.54**	*
8702	Coupling/Socket fittings for 15.88 mm outer dia SS pipe	each	**39.09**	*
8703	Telescopic drawer channels 300 mm long.	set	**139.61**	*
8704	Stainless steel roller for sliding arrangement in racks/cupboards/cabinets shutter.	each	**8.38**	*
8705	50 mm x42mm x2 mm thick factory made door frame of pvc extruded sections in whiter, grey or wooden finish	metre	**139.61**	*
8706	25mm thick factory made pvc flush door shutter i/c carriage.	sqm	**1582.23**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage.	metre	**307.14**	*
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage.	sqm	**1582.23**	*
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	sqm	**1954.52**	*
8710	Factory made solid PVC door frame 60x30xmm i/c cariage.	metre	**279.22**	*
8711	28 mm factory made solid pvc panel door shutter i/c carriage.	sqm	**1907.98**	*
8712	30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish	sqm	**1861.45**	*
8713	Fiber glass reinforced plastic chajja.	sqm	**2792.17**	*
8714	Magnetic catcher triple strip horizontal type.	each	**18.61**	*
8715	Magnetic catcher double strip horizontal type. ,	each	**13.03**	*
8716	100 mm mortice lock with 6 levers for aluminium door.	each	**316.45**	*
8717	12.5 mm thick glass fibre reinforced gypsum board.	sqm	**181.49**	*
8719	2nd class teak wood lipping/moulded beading or taj beading of size,18x5mm	metre	**32.58**	*
8720	Ceilling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm.	metre	**32.58**	*
8721	Perimeter channel having one flange of 20 mm and anotherflange of 30 mm with thickness of 0.55 mm and web of length 27 mm.	metre	**20.48**	*
8722	Nylon sleeves & wooden screws (40mm)	each	**1.86**	*
8723	Counter sunk ribbed head screw 25 mm.	cent	**60.50**	*
8724	12 mm thick marine plywood conforming to is: 710	sqm	**620.79**	*
8725	12 mm thick fire retardant plywood conforming to is:5509.	sqm	**744.58**	*
8726	1.5 mm thick decorative laminated sheet	sqm	**465.36**	*
8727	1.0 mm thick decorative laminated sheet	sqm	**232.68**	*
8730	30 mm thick factory made glass fibre reinforced plasitc flush door shutter i/c carriage.	sqm	**1861.45**	*
8731	High polymer modified quickset tile adhesive.	per kg	**8.38**	*
8732	Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1:34 to 1:40	kg	**339.71**	*
8733	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	**372.29**	*
8734	P.V.C. Single piece extruded door frame of profile size 50 mm x 47 mm with wall thickness of 5 mm	metre	**229.89**	*
8735	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile non decorative finished (Matt finished)	sqm	**2001.06**	*
8736	35 mm thick factory made solid panel PVC door shutter of singlepiece extruded profile decorative finished (Wood grain finished)	sqm	**2419.88**	*
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	**604.97**	*
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermuculite based concrete mix	metre	**977.26**	*
8739	Fire rated door shuttere made with 16 SWG G.I. sheet (60 minutes) without panel	sqm	**4188.26**	*
8740	Fire seal Putty	kg	**260.60**	*
8741	Clear fire resistant glass panes 6mm thick (60 minutes)	sqm	**20010.55**	*
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/m2) with ceramic tape of suitable thickness and fire resistant primer coating	metre	**260.60**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8743	Matrix Mineral Board	metre	**60.50**	*
8744	Panic Bar / latch (Double point)	each	**4839.76**	*
8745	65 mm x 55 mm x 2 mm thick Factory made door frame of PVCextruded section in white,grey or wooden finish	metre	**316.45**	*
8746	37 mm thick Factory made shutter with style,rails and panels of PVCextruded section in white or grey finish i/c carriage	sqm	**2233.74**	*
8747	75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVCextruded section in white,grey or wooden finish	metre	**353.67**	*
8748	37 mm thick Factory made fusion welded shutter with style, rails and panels of PVC extruded section in wooden finish	sqm	**2419.88**	*
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	**113.55**	*
8751	Zinc alloy (white powder coated) Touch Lock for UPVC windows	each	**93.07**	*
8752	Zinc alloy body with single nylon roller (weight bearing capacity to be 40 Kg) for uPVC sliding window	each	**51.19**	*
8753	Stainless Steel (SS - 304) with adjustable double nylon roller (weight bearing capacity to be 120 Kg) for uPVC sliding door/window	each	**83.77**	*
8754	Zinc alloy (white powder coated) casement lock for UPVC windows	each	**102.38**	*
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for UPVC windows	each	**181.49**	*
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for UPVC windows	each	**204.76**	*
8757	Stainless steel friction hinge of size3000 mm x 19 x 1.9 mm for UPVC windows	each	**218.72**	*
8758	Stainless steel friction hinge of size350mm x 19 x 1.9 mm for UPVC windows	each	**297.83**	*
8759	Stainless steel friction hinge of size 400 mm x 19 x 1.9 mm for UPVC windows	each	**325.75**	*
8760	UPVC extruded profile casement window Frame (50 mm x 50 mm)	metre	**159.75**	****
8761	UPVC extruded profile casement window sash (Style and Rail) (62 mm x34 mm)	metre	**145.22**	****
8762	UPVC extruded profile casement window mullion (intermediate section)(66 mm x 50 mm)	metre	**179.10**	****
8763	UPVC extruded profile casement window 'T' profile (one vertical lengthin between two shutters) (24 mm x 34.5 mm)	metre	**48.41**	****
8764	UPVC extruded profile casement window glazing bead (12 mm x 18mm)	metre	**48.41**	****
8765	UPVC extruded profile casement window Frame (67 mm x 62 mm)	metre	**227.52**	****
8766	UPVC extruded profile casement Window Sash/Mullion (67 mm x 75mm) (Style,rail and intermediate section)	metre	**256.55**	****
8767	UPVC extruded profile casement window glazing bead (35 mm x 18mm)	metre	**82.29**	****
8768	UPVC extruded profile Two Track Sliding frame (67 mm x 52 mm)	metre	**237.19**	****
8769	UPVC extruded profile Sliding window Sash (60 mm x 44 mm)	metre	**222.68**	****
8770	UPVC extruded profile Sliding Interlock for Window (one vertical lengthin each shutter) (45.5 mm x 28 mm)	metre	**48.41**	****
8771	UPVC extruded profile Sliding Door Sash (80 mm x 44 mm)	metre	**280.76**	****
8772	Aluminium Track on bottom rail for uPVC window	metre	**26.06**	*
8773	Wool Pine for uPVC window	metre	**18.61**	*
8774	Aluminium Grill	metre	**232.68**	*
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	**55.84**	*
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	**13.03**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8777	GI Fastener 100x8 mm	each	**13.96**	
8778	Toughened glass 12 mm thickness	sqm	**1625.97**	*
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	**132.16**	*
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	**236.40**	*
8781	SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia	metre	**301.55**	*
8782	SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia	metre	**429.99**	*
8783	SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia	metre	**445.82**	*
8784	8 mm thick Calcium silicate perforated tiles of size 595 x595 mm	sqm	**642.20**	*
8785	Interlocking C.C. paver block (80 mm thick, M-30)	sqm	**344.37**	*
8786	Coupling/Socket fittings for 22.22 mm outer dia SS pipe	each	**58.64**	*
8787	Coupling/Socket fittings for 28.58 mm outer dia SS pipe	each	**82.83**	*
8788	Coupling/Socket fittings for 34.00 mm outer dia SS pipe	each	**121.92**	*
8789	Coupling/Socket fittings for 42.70 mm outer dia SS pipe	each	**147.05**	*
8790	Coupling/Socket fittings for 48.60 mm outer dia SS pipe	each	**167.53**	*
8791	Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe	each	**95.86**	*
8792	Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe	each	**131.23**	*
8793	Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe	each	**134.95**	*
8794	Reducer for 34.00 mm X 15.88 mm outer Dia SS pipe	each	**171.25**	*
8795	Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe	each	**174.05**	*
8796	Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe	each	**176.84**	*
8797	Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe	each	**334.13**	*
8798	Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe	each	**336.92**	*
8799	Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe	each	**336.92**	*
8800	Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe	each	**360.19**	*
8801	Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe	each	**381.60**	*
8802	Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe	each	**381.60**	*
8803	Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe	each	**381.60**	*
8804	Reducer for 48.60 mm X 34.00 mm outer Dia SS pipe	each	**381.60**	*
8805	Reducer for48.60 mm X 42.70 mm outer Dia SS pipe	each	**381.60**	*
8806	Slip Coupling / Socket 15.88 mm outer dia SS pipe	each	**43.74**	*
8807	Slip Coupling / Socket 22.22 mm outer dia SS pipe	each	**58.64**	*
8808	Slip Coupling / Socket 28.58 mm outer dia SS pipe	each	**82.83**	*
8809	Slip Coupling / Socket 34.00 mm outer dia SS pipe	each	**121.92**	*
8810	Slip Coupling / Socket 42.70 mm outer dia SS pipe	each	**147.05**	*
8811	Slip Coupling / Socket 48.60 mm outer dia SS pipe	each	**158.22**	*
8812	Elbow 90o for 15.88 mm outer dia SS pipe	each	**53.98**	*
8813	Elbow 90o for 22.22 mm outer dia SS pipe	each	**58.64**	*
8814	Elbow 90o for 28.58 mm outer dia SS pipe	each	**89.35**	*
8815	Elbow 90o for 34.00 mm outer dia SS pipe	each	**101.45**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8816	Elbow 90o for 42.70 mm outer dia SS pipe	each	**107.96**	*
8817	Elbow 90o for 48.60 mm outer dia SS pipe	each	**139.61**	*
8818	Reducing Elbow 90o for 22.22 mm X 15.88 mm outer dia SS pipe	each	**137.75**	*
8819	Reducing Elbow 90o for 28.58 mm X 15.88 mm outer dia SS pipe	each	**177.77**	*
8820	Reducing Elbow 90o for 28.58 mm X 22.22 mm outer dia SS pipe	each	**205.69**	*
8821	Reducing Elbow 90o for 34.00 mm X 22.22 mm outer dia SS pipe	each	**267.12**	*
8822	Reducing Elbow 90o for 34.00 mm X 28.58 mm outer dia SS pipe	each	**368.57**	*
8823	Reducing Elbow 90o for 42.70 mm X 34.00 mm outer dia SS pipe	each	**166.60**	*
8824	Equal Tee for 15.88 mm outer dia SS pipe	each	**147.99**	*
8825	Equal Tee for 22.22 mm outer dia SS pipe	each	**215.00**	*
8826	Equal Tee for 28.58 mm outer dia SS pipe	each	**254.09**	*
8827	Equal Tee for 34.00 mm outer dia SS pipe	each	**406.73**	*
8828	Equal Tee for 42.70 mm outer dia SS pipe	each	**635.68**	*
8829	Equal Tee for 48.60 mm outer dia SS pipe	each	**825.55**	*
8830	Reducing Tee for 22.22 mm X 15.88 mm outer dia SS pipe	each	**166.60**	*
8831	Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe	each	**254.09**	*
8832	Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe	each	**254.09**	*
8833	Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe	each	**406.73**	*
8834	Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe	each	**406.73**	*
8835	Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe	each	**406.73**	*
8836	Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe	each	**635.68**	*
8837	Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe	each	**635.68**	*
8838	Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe	each	**635.68**	*
8839	Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe	each	**635.68**	*
8840	Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe	each	**825.55**	*
8841	Reducing Tee for 48.60 mm X 22.22 mm outer dia SS pipe	each	**825.55**	*
8842	Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe	each	**825.55**	*
8843	Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe	each	**825.55**	*
8844	Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe	each	**825.55**	*
8845	Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	**166.60**	*
8846	Male thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	**186.14**	*
8847	Male thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	**190.80**	*
8848	Male thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	**254.09**	*
8849	Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	**254.09**	*
8850	Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	**254.09**	*
8851	Male thread Tee for 34.00 mm outer dia X 15 mm nominal dia	each	**406.73**	*
8852	Male thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	**406.73**	*
8853	Male thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	**406.73**	*
8854	Male thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	**406.73**	*
8855	Male thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	**635.68**	*
8856	Male thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	**635.68**	*
8857	Male thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	**635.68**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8858	Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	**635.68**	*
8859	Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	**635.68**	*
8860	Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	**825.55**	*
8861	Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	**825.55**	*
8862	Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	**825.55**	*
8863	Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	**825.55**	*
8864	Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	**825.55**	*
8865	Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	**825.55**	*
8866	Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	**166.60**	*
8867	Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia	each	**186.14**	*
8868	Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	**186.14**	*
8869	Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	**254.09**	*
8870	Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	**254.09**	*
8871	Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	**254.09**	*
8872	Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	**406.73**	*
8873	Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	**406.73**	*
8874	Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	**406.73**	*
8875	Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	**406.73**	*
8876	Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	**635.68**	*
8877	Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	**635.68**	*
8878	Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	**635.68**	*
8879	Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	**635.68**	*
8880	Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	**635.68**	*
8881	Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	**825.55**	*
8882	Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	**825.55**	*
8883	Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	**825.55**	*
8884	Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	**825.55**	*
8885	Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	**825.55**	*
8886	Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	**825.55**	*
8887	Female threaded Connector/Adapter for 15.88 mm outer dia X 15mm nominal threaded	each	**176.84**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8888	Female threaded Connector/Adapter for 22.22 mm outer dia X 15mm nominal threaded	each	**214.07**	*
8889	Female threaded Connector/Adapter for 22.22 mm outer dia X 20mm nominal threaded	each	**220.58**	*
8890	Female threaded Connector/Adapter for 28.58 mm outer dia X 15mm nominal threaded	each	**257.81**	*
8891	Female threaded Connector/Adapter for 28.58 mm outer dia X 20mm nominal threaded	each	**266.19**	*
8892	Female threaded Connector/Adapter for 28.58 mm outer dia X 25mm nominal threaded	each	**313.65**	*
8893	Female threaded Connector/Adapter for 34.00 mm outer dia X 25mm nominal threaded	each	**380.67**	*
8894	Female threaded Connector/Adapter for 34.00 mm outer dia X 32mm nominal threaded	each	**500.73**	*
8895	Female threaded Connector/Adapter for 42.70 mm outer dia X 32mm nominal threaded	each	**536.10**	*
8896	Female threaded Connector/Adapter for 42.70 mm outer dia X 40mm nominal threaded	each	**633.82**	*
8897	Female threaded Connector/Adapter for 48.60 mm outer dia X 40mm nominal threaded	each	**779.95**	*
8898	Female threaded Connector/Adapter for 48.60 mm outer dia X 50mm nominal threaded	each	**898.15**	*
8899	Male threaded Connector/Adapter for 15.88 mm outer dia X 15mm nominal threaded	each	**179.63**	*
8900	Male threaded Connector/Adapter for 22.22 mm outer dia X 15mm nominal threaded	each	**211.27**	*
8901	Male threaded Connector/Adapter for 22.22 mm outer dia X 20mm nominal threaded	each	**230.82**	*
8902	Male threaded Connector/Adapter for 28.58 mm outer dia X 20mm nominal threaded	each	**291.32**	*
8903	Male threaded Connector/Adapter for 28.58 mm outer dia X 25mm nominal threaded	each	**297.83**	*
8904	Male threaded Connector/Adapter for 34.00 mm outer dia X 25nominal dia threaded	each	**429.06**	*
8905	Male threaded Connector/Adapter for 34.00 mm outer dia X 32nominal dia threaded	each	**525.86**	*
8906	Male threaded Connector/Adapter for 42.70 mm outer dia X 32nominal dia threaded	each	**604.04**	*
8907	Male threaded Connector/Adapter for 42.70 mm outer dia X 40 nominal dia threaded	each	**675.71**	*
8908	Male threaded Connector/Adapter for 48.60 mm outer dia X 40	each	**781.81**	*
8909	Male threaded Connector/Adapter for 48.60 mm outer dia X 50 nominal dia threaded	each	**1059.16**	*
8910	Valve Connector for 15.88 mm outer dia X 15 mm nominal dia nominal dia threaded	each	**217.79**	*
8911	Valve Connector for 22.22 mm outer dia X 15 mm nominal dia nominal dia threaded	each	**256.88**	*
8912	Valve Connector for 22.22 mm outer dia X 20 mm nominal dia nominal dia threaded	each	**274.56**	*
8913	Valve Connector for 28.58 mm outer dia X 25 mm nominal dia nominal dia threaded	each	**394.63**	*
8914	Valve Connector for 34.00 mm outer dia X 32 mm nominal dia nominal dia threaded	each	**585.43**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8915	Valve Connector for 42.70 mm outer dia X 40 mm nominal dia nominal dia threaded	each	**814.38**	*
8916	Valve Connector for 48.60 mm outer dia X 50 mm nominal dia nominal dia threaded	each	**1094.53**	*
8917	Female Threaded Elbow 90o for 15.88 mm outer dia X 15 mm nominal dia threaded	each	**139.61**	*
8918	Female Threaded Elbow 90o for 22.22 mm outer dia X 15 mm nominal dia threaded	each	**177.77**	*
8919	Female Threaded Elbow 90o for 22.22 mm outer dia X 20 mm nominal dia threaded	each	**177.77**	*
8920	Female Threaded Elbow 90o for 28.58 mm outer dia X 25 mm nominal dia threaded	each	**190.80**	*
8921	Female Threaded Elbow 90o for 34.00 mm outer dia X 32 mm nominal dia threaded	each	**267.12**	*
8922	Female Threaded Elbow 90o for 42.70 mm outer dia X 32 mm nominal dia threaded	each	**444.89**	*
8923	Female Threaded Elbow 90o for 42.70 mm outer dia X40 mm nominal dia threaded	each	**444.89**	*
8924	Female Threaded Elbow 90o for 48.60 mm outer dia X 40 mm nominal dia threaded	each	**635.68**	*
8925	Female Threaded Elbow 90o for 48.60 mm outer dia X 50 mm nominal dia threaded	each	**635.68**	*
8926	Male Threaded Elbow 90o for 15.88 mm outer dia X 15 mm nominal dia threaded	each	**177.77**	*
8927	Male Threaded Elbow 90o for 22.22 mm outer dia X 15 mm nominal dia threaded	each	**190.80**	*
8928	Male Threaded Elbow 90o for 22.22 mm outer dia X 20 mm nominal dia threaded	each	**190.80**	*
8929	Male Threaded Elbow 90o for 28.58 mm outer dia X 25 mm nominal dia threaded	each	**190.80**	*
8930	MaleThreaded Elbow 90o for 34.00 mm outer dia X 25 mm nominal dia threaded	each	**267.12**	*
8931	Male Threaded Elbow 90o for 34.00 mm outer dia X 32 mm nominal dia threaded	each	**267.12**	*
8932	Male Threaded Elbow 90o for 42.70 mm outer dia X 32 mm nominal dia threaded	each	**444.89**	*
8933	Male Threaded Elbow 90o for 42.70 mm outer dia X40 mm nominal dia threaded	each	**444.89**	*
8934	Male Threaded Elbow 90o for 48.60 mm outer dia X 40 mm nominal dia threaded	each	**635.68**	*
8935	Male Threaded Elbow 90o for 48.60 mm outer dia X 50 mm nominal	each	**635.68**	*
8936	Cap for 15.88 mm outer dia pipe	each	**41.88**	*
8937	Cap for 22.22 mm outer dia pipe	each	**59.57**	*
8938	Cap for 28.58 mm outer dia pipe	each	**78.18**	*
8939	Cap for 34.00 mm outer dia pipe	each	**161.02**	*
8940	Cap for 42.70 mm outer dia pipe	each	**235.47**	*
8941	Cap for 48.60 mm outer dia pipe	each	**307.14**	*
8942	Pipe Bridge for 15.88 mm outer dia pipe	each	**199.17**	*
8943	Pipe Bridge for 15.88 mm outer dia pipe	each	**252.23**	*
8944	Pipe Bridge for 28.58 mm outer dia pipe	each	**378.80**	*
8945	4 Point facade glass bracket	Nos	**3088.14**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
8946	2 Point facade glass bracket	Nos	**1544.07**	*
8947	1 Point facade glass bracket	Nos	**1209.94**	*
8948	Flate head bolt	Nos	**605.90**	*
8949	400 fin plate at top	pair	**5520.12**	*
8953	Micro Silica	kg	**29.78**	*
8954	Stop end tubes for diaphragmwall 600 mm dia.	sqm	**4.19**	*
8955	Driving end tubes for diaphragm wall 600 mm dia.	sqm	**67.01**	*
8956	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 15 kN/m in the longitudinal and transverse direction	sqm	**88.42**	*
8957	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 20kN/m in the longitudinal and transverse direction	sqm	**101.45**	*
8958	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 30kN/m in the longitudinal and transverse direction	sqm	**165.67**	*
8959	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 40kN/m in the longitudinal and transverse direction	sqm	**241.99**	*
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	**469.08**	*
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 per unit area of 830 gsm,	sqm	**558.43**	*
8962	Synthetic Geogrid having Ultimate tensile strength- 100 kN/m	sqm	**186.14**	*
8963	Synthetic Geogrid Ultimate tensile strength- 150 kN/m	sqm	**204.76**	*
8964	Synthetic Geogrid Ultimate tensile strength- 200 kN/m	sqm	**279.22**	*
8965	Synthetic Geogrid Ultimate tensile strength- 250 kN/m	sqm	**307.14**	*
8966	Synthetic Geogrid Ultimate tensile strength- 300kN/m	sqm	**325.75**	*
8967	Synthetic Geogrid Ultimate tensile strength- 350kN/m	sqm	**362.98**	*
8968	Synthetic Geogrid Ultimate tensile strength- 400kN/m	sqm	**390.90**	*
8969	Synthetic Geogrid Ultimate tensile strength- 500kN/m	sqm	**465.36**	*
8970	Synthetic Geogrid Ultimate tensile strength- 600kN/m	sqm	**511.90**	*
8971	Synthetic Geogrid Ultimate tensile strength- 700kN/m	sqm	**604.97**	*
8972	Synthetic Geogrid Ultimate tensile strength- 800kN/m	sqm	**658.95**	*
8973	Synthetic Geogrid Ultimate tensile strength- 900kN/m	sqm	**782.74**	*
8974	Synthetic Geogrid Ultimate tensile strength- 1000kN/m	sqm	**884.19**	*
8975	Synthetic Geogrid Ultimate tensile strength- 1100kN/m	sqm	**930.72**	*
8976	Synthetic Geogrid Ultimate tensile strength- 1200kN/m	sqm	**1012.63**	*
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	**530.51**	*

Code No	Description	Unit	Present Approved rate inclusive	Remark
1	2	3	4	10
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	**685.01**	*
9001	C.P. Brass Centre Hole Basin Mixer With Cast Spout	each	**1116.87**	*
9977	Carriage	L.S.	**1.80**	*
9988	Carriage and sundries	L.S.	**1.80**	*
9999	Sundries	L.S.	**1.80**	*
0842	Ready mix paint for wood work	Per litre	**182.36**	*
0843	Ready mix paint for steel work	Per litre	**182.36**	*
0288	Brick Khoa	Per m3	1106.60	**
1002	**Mild steel round bar 12mm dia and below**	quintal	4545.00	**
1007	Structural steel	quintal	4155.00	**
0993	Plain A.C sheet standard quality(6mm thick)	sqm	**177.26**	****
8779	Paver Block			
A	M35 grade 60mm thick			
	White	sqm	433.26	**
	Red	sqm	440.98	**
	Yellow	sqm	454.82	**
B	M40 grade 80mm thick			
	White	sqm	497.19	**
	Red	sqm	510.20	**
	Yellow	sqm	526.65	**
8780	Kerb Stone Block M30 Grade of Size 375mm x 300mm	each	73.25	**

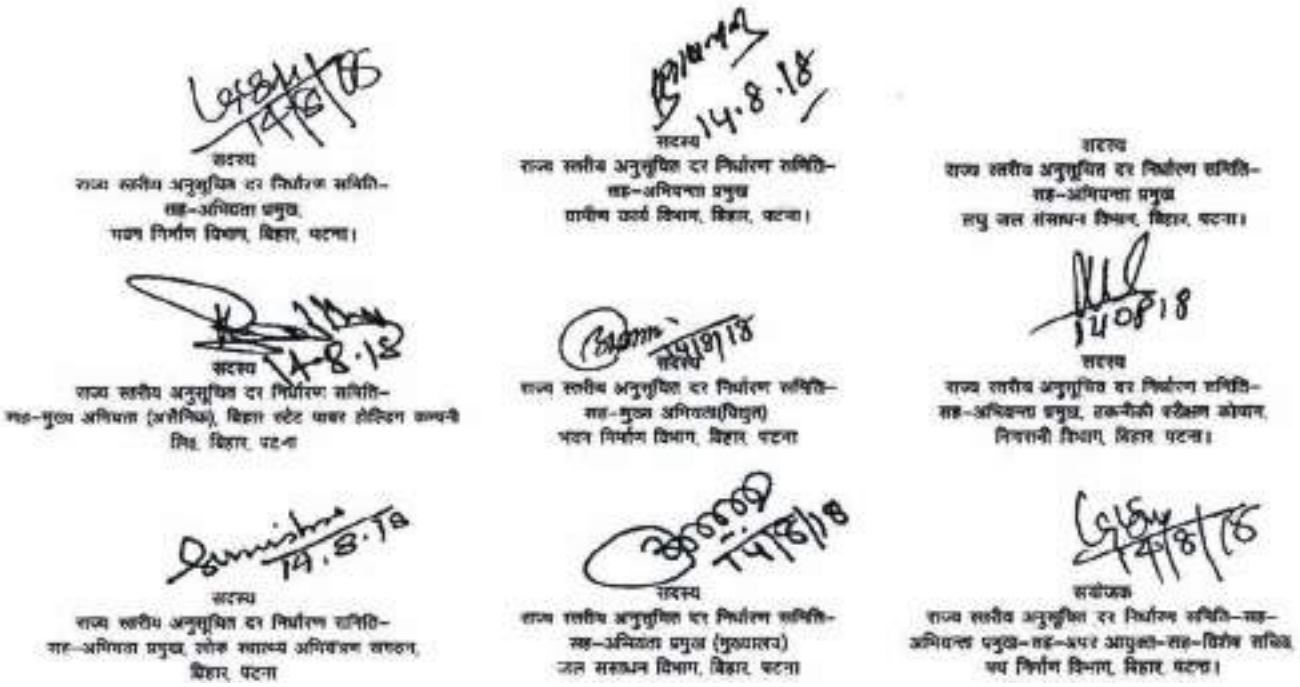
Note:-

* **Rate based on DSR 2016**

** **Approved rate by State level Schedule rate committee**

*** **Approved rate of cement by State level schedule rate committee**

**** **Present BSR**



TRUCK CAPACITY PER TRIP

VIDE T.E.C.LETTER No 1115DATED 12.07.85

S.no	Materials	Truck Capacity		Net payable Volume or weight col 3*col 4
1	2	3	4	5
1	**Lime,Moorum and building rubbish**	6.00cum	1.00	6.00 cum
2	**Earth**	6.00cum	0.80	4.80 cum
3	**Manure or sludge**	6.00cum	0.92	5.52 cum
4	**Excavated rocks(120 Lbs)**	6.00cum	0.67	4.02 cum
5	**Stone Metal**	5.40cum	0.85	4.59 cum
6	**Soling stone**	5.00cum	0.85	4.25 cum
7	**Boulder(90 Lbs to 120 Lbs)**	6.00cum	0.8	4.80 cum
8	**Bricks**	2000Nos	1.00	2000 Nos
9	**Tiles/Mangra/Mosaic**	3200Nos	1.00	3200Nos
10	**Bricks Tiles(300*150*50mm)**	1760Nos	1.00	1760 Nos
11	**Cement,Stone blocks ,G.I,C.I, A.C and C.C Pipe below 100 mm dia and other heavy materials**	8.00Mt	1.00	8.00MT
12	**Steel**	8.00Mt	1.00	8.00MT
13	**Timber**	9.60 cum	1.00	9.60 cum
14	**Tar,Bitumen**	8.00M.T	1.00	8.00MT
15	**Steam coal**	8.00 MT	1.00	8.00MT
16	**S.W.Pipe 60 cm,length**			
(i)	100 mm dia	800No / 480M	1.00	800No / 480M
(ii)	150 mm dia	400 No / 240 M	1.00	400 No / 240 M
(iii)	200 mm dia	224 No / 134.40 M	1.00	224 No / 134.40 M
(iv)	230 mm dia	176 No / 105.60 M	1.00	176 No / 105.60 M
(v)	250 mm dia	140 No / 84 M	1.00	140 No / 84 M
(vi)	300 mm dia	112 No / 67.20 M	1.00	112 No / 67.20 M
(vii)	350 mm dia	80 No / 48 M	1.00	80 No / 48.20 M
(viii)	400 mm dia	56 No / 33.60 M	1.00	56 No / 33.60 M
(ix)	450 mm dia	44 No / 26.40 M	1.00	44 No / 26.40 M
(x)	500 mm dia	40 No / 24.00 M	1.00	40 No / 24.00 M
(xi)	600 mm dia	32 No / 19.20 M	1.00	32 No / 19.20 M
17	**R.C.C pipe and A.C pipe**			
(i)	100 mm dia	145 No*2M=290M	1.00	290.00M
(ii)	125 mm dia	100 No*2M=200M	1.00	200.00M
(iii)	150 mm dia	90 No*2M=180M	1.00	180.00M
(iv)	200 mm dia	40No*2.5M=100M	1.00	40No*2.5M=100M
(v)	250 mm dia	30No*2.50M=75M	1.00	75.00M

S.no	Materials	Truck Capacity		Net payable Volume or weight col 3*col 4
(vi)	300 mm dia	24 No*2.5=60M	1.00	60.00M
(vii)	350 mm dia	19No*2.5M=47.5M	1.00	47.50M
(viii)	400mm dia & 450mm dia	13No*2.5M=32.5M	1.00	32.50M
(ix)	500mm dia & 600mm dia	10No*2.5M=25.0M	1.00	25.00M
(x)	700mm dia & 800mm dia	6No*2.5M=15M	1.00	15.00M
(xi)	900mm dia & 1100mm dia	4No*2.5M=10M	1.00	10.00M
(xii)	1100mm dia & 1200mm dia	3No*2.5M=7.5M	1.00	7.50M
18	**G.I Crates 1*1.5*0.75 M**	80 No	1.00	80 No
19	**Bamboos**			
(i)	75 mm dia & 100 mm dia	280 No	1.00	280 No
(ii)	50 mm dia & 75 mm dia	300 No	1.00	300 No
20	**Empty bags of cement length**	3000 Nos	1.00	280 Nos
21	**Sal bullah Av 6M**			
(i)	100 mm dia	125 Nos	1.00	125 Nos
(ii)	125 mm dia	80 Nos	1.00	80 Nos
(iii)	150 mm dia	60 Nos	1.00	60 Nos
(iv)	175 mm dia	45 Nos	1.00	45 Nos
(v)	200 mm dia	25 Nos	1.00	25 Nos
(vi)	225 mm dia	20 Nos	1.00	20 Nos
22	**Stone chips and sand**	5.4 cum	0.92	5.00 cum
23	**Steel and C.I.Pipe 3.66 M**			
(i)	100 mm dia	80 No*3.66M=292.80M	1.00	292.8M
(ii)	125 mm dia	60 No*3.66M=219.60M	1.00	219.60M
(iii)	150 mm dia	50 No*3.66M=183.00M	1.00	183.00M
(iv)	200 mm dia	30 No*3.66M=109.80M	1.00	109.80M
(v)	250 mm dia	22 No*3.66M=80.52M	1.00	80.52M
(vi)	300 mm dia	17 No*3.66M=62.22M	1.00	62.22M
(vii)	350 mm dia	12 No*3.66M=43.92M	1.00	43.92M
(viii)	400 mm dia	9 No*3.66M=32.94M	1.00	32.94M
(ix)	500 mm dia	7 No*3.66M=25.62M	1.00	25.62M
(x)	600 mm dia	5 No*3.66M=18.30M	1.00	18.30M

CARRIAGE OF MATERIALS(By Tipper)

Sr no.	Ref. to M.O.R.T Spec.	Description	Unit	Quantity	Rate Rs.	Cost Rs	Remarks/ Input ref.
1.1		**Loading and Unloading of Stone Boulder/ Stone aggregates/ Sand/ Kanker/ Moorum.**	cum				
		Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip					
		Unit = cum					
		Taking output = 5.5 cum					
		Time required for					
		i) Positioning of tipper at loading point		1 Min			
		ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour		13 Min			
		iii) Maneuvering, reversing, dumping and turning for return		2 Min			
		iv) Waiting time, unforeseen contingencies etc		4 Min			
		Total		**20 Min**			
		a) Machinery					
		Tipper 5.5 tonnes capacity	hour	0.330	1129.0	372.57	**P &M 048**
		Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.330	1528.0	504.24	**P &M 017**
		b) Overhead charges @ 0.1 on (a)				**87.68**	
		c) Contractor's profit @ 0.1 on (a+b)				**96.45**	
		Cost for 5.5 cum = a+b+c				1060.94	
		Rate per cum = (a+b+c)/ 5.5				192.90	
	Note	**Unloading will be by tipping.**			***say***	***Rs.192.90***	
1.2		**Loading and Unloading of Boulders by Manual Means**					
		Unit = cum					
		Taking output = 5.5 cum					
		a) Labour					
		Mate	day	0.110	270.00	29.70	L-12
		Mazdoor for loading and unloading	day	0.750	254.00	190.50	L-13
		b) Machinery					
		Tipper 5.5 tonne capacity	hour	0.750	1129.0	846.75	
		c) Overhead charges @ 0.1 on (a+b)				**106.70**	
		d) Contractor's profit @ 0.1 on (a+b+c)				**117.36**	
		Cost for5.5 cum = a+b+c+d				1291.01	
		Rate per cum = (a+b+c+d)/5.5				234.73	
					say	***Rs.235.00***	
	Note	**Unloading will be by tipping.**					
1.3		**Loading and Unloading of Cement or Steel by Manual Means and Stacking.**					
		Unit = tonne					
		Taking output = 10 tonnes					
		a) Labour					
		Mate	day	0.080	270.00	21.60	L-12
		Mazdoor for loading and unloading	day	2.000	254.00	508.00	L-13
		b) Machinery					
		Truck 10 tonne capacity	hour	2.000	882.00	1764.00	

		c) Overhead charges @ 0.1 on (a+b)				**229.36**	
		d) Contractor's profit @ 0.1 on (a+b+c)				**252.30**	
		Cost for10 tonnes = a+b+c+d				2775.26	
		Rate per tonnes = (a+b+c+d)/10				277.53	
					say	***Rs.278.00***	
1.4		**Cost of Haulage Excluding Loading and Unloading**					
		Haulage of materials by tipper excluding cost of loading, unloading and stacking.					
		Unit = t.km					
		Taking output 10 tonnes load and lead 10 km = 100 t.km					
	(i)	**Surfaced Road**					
		Speed with load : 25 km / hour.					
		Speed while Returning empty :35 km / hour.					
		a) Machinery.					
		Tipper 10 tonne capacity					
		Time taken for onward haulage with load	hour	0.400	1129.0	451.60	
		Time taken for empty return trip.	hour	0.290	1129.0	327.41	
		b) Overhead charges @ 0.1 on (a)				**77.90**	
		c) Contractor's profit @ 0.1 on (a+b)				**85.69**	
		cost for 100 t km = a+b+c				942.60	
		Rate per t.km = (a+b+c)/100				9.43	
					say	***Rs.9.40***	
1.4	**(ii)**	**Unsurfaced Graveled Road**					
		Speed with load: 20 km / hour					
		Speed for empty return trip :30 km / hour					
		a) Machinery					
		Tipper 10 tonnes capacity					
		Time taken for onward haulage with load	hour	0.500	1129.0	564.50	
		Time taken for empty return trip	hour	0.330	1129.0	372.57	
		b) Overhead charges @ 0.1 on (a)				**93.71**	
		c) Contractor's profit @ 0.1 on (a+b)				**103.08**	
		Cost for 100 t .km = a+b+c				1133.85	
		Rate per t.Km = (a+b+c)/100				11.34	
					say	***Rs.11.30***	
1.4	**(iii)**	**Katcha Track and Track in River Bed/Nallah Bed and Choe Bed.**					
		Speed with load :10 km / hour					
		Speed while returning empty:15 km / hour					
		a) Machinery					
		Tipper 10 tonnes capacity					
		Time taken for onward haulage	hour	1.000	1129.0	1129.00	
		Time taken for empty return trip	hour	0.670	1129.0	756.43	
		b) Overhead charges @ 0.1 on (a)				**188.54**	
		c) Contractor's profit @ 0.1 on (a+b)				**207.40**	
		Cost for 100 t .km = a+b+c				2281.37	
		Rate per t.Km = (a+b+c)/100				22.81	
					say	***Rs.22.80***	

CARRIAGE OF MATERIALS(By Tractor)

Sr no.	Ref. to M.O.R.T Spec.	Description	Unit	Quantity	Rate Rs.	Cost Rs	Remarks/ Input ref.
1.1		**Loading and Unloading of Stone Boulder/ Stone aggregates/Sand/ Kanker/Moorum.**	cum				
		Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip					
		Unit = cum					
		Taking output = 2.25 cum					
		Time required for					
		i) Positioning of tipper at loading point		1 Min			
		ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour		5 Min			
		a) Labour					
		Mate	day	0.030	270.00	8.10	L-12
		Mazdoor for loading and unloading	day	0.720	254.00	182.88	L-13
		Total		**6 Min**			
		a) Machinery					
		Tractor 3.6 tonnes tonnes capacity	hour	0.100	575.00	57.50	**P &M 048**
		Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.083	1528.0	126.82	**P &M 017**
		c) Overhead charges @ 0.1 on (a+b)				**37.53**	
		d)Contractor's profit @ 0.1 on (a+b+c)				**41.28**	
		Cost for2.25 cum = a+b+c+d				454.12	
		Rate per cum = (a+b+c+d)/2.25				201.83	
					say	***Rs.202.00***	
	Note	**Unloading will be by tipping.**					
1.2		**Loading and Unloading of Boulders by Manual Means**					
		Unit = cum					
		Taking output =2.25cum					
		a) Labour					
		Mate	day	0.050	270.00	13.50	L-12
		Mazdoor for loading and unloading	day	0.310	254.00	78.74	L-13
		b) Machinery					
		Tipper 3.6 tonne capacity	hour	0.310	575.00	178.25	
		c) Overhead charges @ 0.1 on (a+b)				**27.05**	
		d)Contractor's profit @ 0.1 on (a+b+c)				**29.75**	
		Cost for2.25 cum = a+b+c+d				327.29	
		Rate per cum = (a+b+c+d)/2.25				145.46	
	Note	**Unloading will be by tipping.**			***say***	***Rs.145.00***	
1.3		**Loading and Unloading of Cement or Steel by Manual Means and Stacking.**					
		Unit = tonne					
		Taking output = 3.6 tonnes					
		a) Labour					
		Mate	day	0.030	270.00	8.10	L-12
		Mazdoor for loading and unloading	day	0.720	254.00	182.88	L-13
		b) Machinery					
		Trractor of 3.6 tonnes capacity	hour	0.720	575.00	414.00	

		c) Overhead charges @ 0.1 on (a+b)				**60.50**	
		d) Contractor's profit @ 0.1 on (a+b+c)				**66.55**	
		Cost for10 tonnes = a+b+c+d				732.03	
		Rate per tonnes = (a+b+c+d)/2.25				203.34	
					say	***Rs.203.00***	
1.4		**Cost of Haulage Excluding Loading and Unloading**					
		Haulage of materials by tipper excluding cost of loading, unloading and stacking.					
		Unit = t.km					
		Taking output 3.6 tonnes load and lead 10 km = 36 t.km					
	(i)	**Surfaced Road**					
		Speed with load :15 km / hour.					
		Speed while Returning empty :25 km / hour.					
		a) Machinery.					
		Tractor 3.6 tonne capacity					
		Time taken for onward haulage with load	hour	0.667	575.00	383.53	
		Time taken for empty return trip.	hour	0.400	575.00	230.00	
		b) Overhead charges @ 0.1 on (a)				**61.35**	
		c) Contractor's profit @ 0.1 on (a+b)				**67.49**	
		cost for 36 t km = a+b+c				742.37	
		Rate per t.km = (a+b+c)/36				20.62	
					say	***Rs.20.60***	
1.4	**(ii)**	**Unsurfaced Graveled Road**					
		Speed with load: 12 km / hour					
		Speed for empty return trip :20 km / hour					
		a) Machinery					
		Tractor 3.6 tonne capacity					
		Time taken for onward haulage with load	hour	0.833	575.00	478.98	
		Time taken for empty return trip	hour	0.500	575.00	287.50	
		b) Overhead charges @ 0.1 on (a)				**76.65**	
		c) Contractor's profit @ 0.1 on (a+b)				**84.31**	
		cost for 36 t km = a+b+c				927.43	
		Rate per t.km = (a+b+c)/36				25.76	
					say	***Rs.25.80***	
1.4	**(iii)**	**Katcha Track and Track in River Bed/Nallah Bed and Choe Bed.**					
		Speed with load :10 km / hour					
		Speed while returning empty:15 km / hour					
		a) Machinery					
		Tractor 3.6 tonne capacity					
		Time taken for onward haulage	hour	1.000	575.00	575.00	
		Time taken for empty return trip	hour	0.667	575.00	383.53	
		b) Overhead charges @ 0.1 on (a)				**95.85**	
		c) Contractor's profit @ 0.1 on (a+b)				**105.44**	
		cost for 36 t km = a+b+c				1159.82	
		Rate per t.km = (a+b+c)/36				32.22	
					say	***Rs.32.20***	

Note वैसे स्थल जहॉ पर Truck एंव Tipper के द्वारा ढुलाई किया जाना संभव नही है तथा Tractor से ढुलाई Economical हो केवल वैसे ही स्थलो के लिए Tractor से ढुलाई का प्रावधान किया जाय ।

2.0 Earth work

Code No.	Description		Unit	Rate Rs.
2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m disposed soil to be leveled and neatly dressed :			
	2.1.1	All Kinds of soil	100sqm	4084.10
2.2	Earth work in rough excavation , banking excavated earth in layer not exceeding 20 cm in depth , breaking clods watering , rolling each layer with 1/2 tonne roller or wooden or steel rammers and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks , marginal banks and guide banks or filling up ground depressions. lead upto 50 m and lift upto 1.5 m.			
	2.2.1	All Kinds of soil	cum	341.50
2.3	Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering .rolling each layer with 1/2 tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up ; in embankments for roads, flood banks, marginal banks, and guide banks etc . lead upto 50 m and lift upto 1.5 m.			
	2.3.1	All Kinds of soil	cum	197.60
2.4	Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.		cum	4.00
2.5	Deduct for not watering the excavated earth for banking.		cum	14.80
2.6	Earth work in excavation over areas (exceeding 30 cm in depth. 1.5 m in width as well es 10 sqm on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m; disposed earth to be levelled and neatly dressed.			
	2.6.1	AH Kinds of soil	cum	279.10
2.7	Earth work in excavation over areas (exceeding 30 cm in depth, 1.5 in width as well as 10 sqm on plan) including disosal of excavated earth, lead upto 50 m and lift upto 1.5 m , disposed earth to be levelled and neatly dressed :			
	2.7.1	Ordinary rock	cum	413.70
	2.7.2	Hard rock (requiring blasting)	cum	621.50
	2.7.3	Hard rock (blasting prohibited)	cum	1001.60
2.8	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.			
	2.8.1	All Kinds of soil	cum	319.60
2.9	Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sq.m on plan including dressing of sides and ramming of bottoms lift upto 1,5m, including getting cut the excavated soil and disposal of surplus excavated soiis as directed, within a lead of 50 m .			

Code No.	Description		Unit	Rate Rs.
	2.9.1	Ordinary rock	cum	502.70
	2.9.2	Hard rock (requiring blasting)	cum	609.30
	2.9.3	Hard rock (Blasting Prohibited)	cum	1033.50
2.10	Excavating trenches of required width for pipes cables, etc, including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil , and then returning the soil as required , in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed , within a lead of 50 m.			
	2.10.1	All kinds of soil.		
	2.10.1.1	Pipes, cables etc, not exceeding 80 mm dia.	m	199.80
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia . But not exceeding 300mm dia.	m	326.40
	2.10.1.3	Pipes , cables etc. exceeding 300m dia.	m	509.50
2.11	"Extra for excavating trenches for pipes, cables etc.in all kinds of soil for depth exceeding 1.5 m , but not exceeding 3 m.(Rate is over corresponding basic item for depth upto 1.5 meter.)		metre	126.10
2.12	*Extra for excavating trenches for pipes, cables etc.in all kinds of soil exceeding 3 m in depth , but not exceeding 4.5 m.(Rate is over corresponding basic item for depth upto 1.5 meater.)		m	316.50
2.13.	Excavating trenches of required width for pipes cables, etc, including excavation for sockets, depth upto 1.5 m including getting out the excavated materials , returning the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. stacking serviceable material for measurements and disposed ' of unserviceable material as directed, within a lead of 50 m:			
	2.13.1	Ordinary rock :		
	2.13.1.1	Pipes, cables etc. not exceeding 80 mm dia	m	290.10
	2.13.1.2	Pipes, cables etc exceeding 80 mm dia but not exceeding 300 mm dia	m length of pipe	718.40
	2.13.1.3	Pipes, cables etc exceeding 300 mm dia	m length of pipe	1064.10
	2.13.2	Hard rock (requiring blasting)		
	2.13.2.1	Pipes, cables etc. not exceeding 80 mm dia.	m length of pipe	344.30
	2.13.2.2	Pipes, cablets etc. exceeding 80 mm dia, but not exceeding 300 mm dia.	m length of pipe	852.50
	2.13.2.3	Pipes, cables tec. Exceeding 300 mm dia.	m length of pipe	996.10
	2.13.3	Hard rock (blasting prohibited)		
	2.13.3.1	Pipe, cables etc. not exceeding 80 mm dia.	m length of pipe	541.80

Code No.	Description		Unit	Rate Rs.
	2.13.3.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia.	m length of pipe	1340.60
	2.13.3.3	Pipes, cables etc. exceeding 300 mm dia.	m length of pipe	1544.00
2.14	Extra for excavating trenches for pipes, cables, etc.in ordinary/hard rock exceeding 1.5 m in depth but not exceeding 3 m.(Rate is over corresponding basic item for depth upto 1.5 metre.)		m length of pipe	108.30
2.15	Extra for excavating trenches for pipes, cables, etc.in ordinary/hard rock exceeding 3m in depth but not exceeding 4.5 m. (Rate is over corresponding basic item. For depth upto 1.5 metre.)		m length of pipe	275.60
2.16	Close timbering in trenches including strutting. Shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered):			
	2.16.1	Depth not exceeding 1.5 m.	sqm	110.40
	2.16.2	Depth exceeding 1.5 m but not exceeding 3 m.	sqm	115.00
	2.16.3	Depth exceeding 3m but not exceeding 4.5 m	sqm	126.40
	2.17	Close timbering in case of shafts, wells, cesspits, mannoies and the like including strutting, shoring and packing cavities (wherever required) complete (Measurements to.be taken of the face area timbered):		
	2.17.1	Depth not exceeding 1.5 m.	sqm	116.30
	2.17.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	127.70
	2.17.3	Depth exceeding 3 m but not exceeding 4.5 m	sqm	139.70
2.18	Close timbering over areas including strutting, shoring and packing, cavities (wherever required) etc. complete (Measurements to be taken of the face area timbered):			
	2.18.1	Depth not exceeding 1.5 m.	sqm	100.20
	2.18.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	106.40
	2.18.3	Depth exceeding 3 m but not exceeding 4.5 m.	sqm	113.10
2.19	Extra for planking, strutting and packing materials for cavities i(in close timbering) if required to be left permanently in position (Face area of timber permanently left to be measured)		sqm	1480.10
2.20	Open timbering in trenches including strutting and shoring complete (Measurements to be taken of the face area timbered).			
	2.20.1	Depth not exceeding 1.5 m.	sqm	56.70
	2.20.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	60.10
	2.20.3	Depth exceeding 3 m but not exceeding 4. m.	sqm	65.50
2.21	Open timbering in case of shafts, wells, cesspits, manholes and the like including strutting and shoring complete (measurements to be taken of the face area timbered):			
	2.21.1	Depth not exceeding 1.5 m	sqm	48.30
	2.21.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	53.60
	2.21.3	Depth exceeding 3 m but not exceeding 4.5 m	sqrn	60.50

Code No.	Description		Unit	Rate Rs.
2.22	Open timbering over areas including strutting, shoring and use and waste of raking shores, complete (Measurements to be taken of the face area timbered)			
	2.22.1	Depth not exceeding 1.5	sqm	33.30
	2.22.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	37.10
	2.22.3	Depth exceeding 3 m but not exceeding 4.5 m	sqm	43.00
2.23	Extra for planking and strutting in open timbering if required to be left permanently in position (face area of the timber permanently left to be measured).		sqm	758.20
2.25	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.		Kl	92.20
2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead		cum	103.30
2.27	Extra for every additional lift of 1.5 m or part thereof in :			
	2.27.1	Ali kinds of soil.	cum	41.00
	2.27.2	Ordinary or hard rock	cum	73.50
2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.		cum	238.60
2.29	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m			
	2.29.1	All kinds of soil.	100sqm	1126.90
2,30	Ploughing the existing ground to a depth ot 15 cm to 25 cm and watering the same:			
	2.30.1	All kinds of **soil.**	100sqm	1119.90
2.31	Excavating holes upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layer not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil; as directed within a lead of 50 m and lift upto 1.5m:			
	2.31.1	All kinds of soil.	hole	100.10
	2.31.3	Ordinary rock	hole	155.60
	2.31.4	Hard rock(requiring blasting)	hole	186.00
	2.31.5	Hard rock (blasting prohibited)	hole	522.20
2.32	Clearing jungle including uprooting of rank vegetation ,grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.		100sqm	579.80
2.33	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.		100sqm	296.90

Code No.	Description		Unit	Rate Rs.
2.34	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material:			
	2.34.1	Beyond 30cm girth upto and including 60 cm girth	tree	179.00
	2.34.2	Beyond 60 cm girth upto and including 120 cm girth	tree	788.80
	2.34.3	Beyond 120 cm girth upto and including 240 cm girth	tree	3639.20
	2.34.4	Above 240 cm girth	tree	7304.40
2.35	Supplying chemical emulsion in sealed containers including delivery as specified.			
	2.35.1	Chlorpyriphos/Lindone emulsifiable concentrate of 20%	litre	199.40
2.37.	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termites' treatrnent(including the cost of chemical emulsion)			
	2.37.1	Along external wall where the apron is not provided using chemical imulsion @ 7.5 liters / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:		
	2.37.1.1	With chlorpyriphos/Lindone E.C. 20% with 1% concentration	m	36.90
	2.37.2	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.55 litres per linear metre including drilling and plugging holes etc.		
	2.37.2.1	With chlorpyriphos E.C. 20% with 1% concentration	m	44.60
	2.37.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling and plugging 12 mm diameter holes with cement mortar 1:2 (1 cement: 2 coarse sand) to match the existing floor.		
	2.37.3.1	With Chlorpyriphos EC 20% with 1% concentration	sqm	218.50
	2.37.4	Treatment of existing masonry using chemical emulsion@ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2(1 cement:2 coarse sand) to the full depth of the hole.		
	2.37.4.1	With chlorpyriphos EC 20% with 1% concentration	m	50.40

Code No.	Description		Unit	Rate Rs.
	2.37.5	Treatment at points of contact ot wood work by chemical emulsion chlordane. (in oil or kerosene based solution)® 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	**m**	231.50
2.38	Deduct for disposed soil not levelled and neatly dressed.		cum	31.30
2.39	Supply and stacking of Fly ash conforming to IRC- 58 at site, excluding carriage,loading , unloading & stacking up to any lead (measured stacks will be reduced by20% for payment).		cum	10.00
2.40	Filling with available fly ash and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer – in-charge, including compacting each layer by rolling/ ramming and watering , all complete as per drawing and direction of Engineer -in - charge.		cum	103.30

3.0 Mortars

Code No.	Description	Unit	Rate Rs.
2103	Lime mortar 1:1:1 (1 time putty:1Surkhi:1 coarse sand)	cum	**1991.40**
2144	Lime mortar 1:1:2(1 lime putty:1 surkhi:2coarse sand)	cum	**1645.20**
2104	Lime mortar 1:2(1 time putty:2 surkhi)	cum	**2679.40**
2145	Lime mortar 1:3(1 lime putty:3 surkhi)	cum	**2676.60**
2146	Lime mortar 1:3(1 lime putty :3 coarse sand)	cum	**1129.50**
2110	**Cement Mortar 1:1 (1 cement : 1 fine sand).**	cum	**6040.40**
2111	Cement mortar 1:2 (1 cement :2 coarse sand)	cum	**4199.20**
2112	Cement mortar 1:3(1 cement:3 coarse sand)	cum	**3278.80**
2113	Cement mortar 1:4(1 cement:4 coarse sand)	cum	**2560.10**
2114	Cement mortar1:5(1 cement:5 coarse sand)	cum	**2173.10**
2115	Cement mortar 1:6(1 cement:6 coarse sand)	cum	**1841.30**
2128	White cement mortar 1:2 (1 White cement :2 marble dust)	cum	**8441.50**
2128A	Cement mortar 1:2 (1 cement : 2 marble dust).	cum	**5041.80**
2125	Cement lime mortar 1:1:3(1 cement :1 lime putty:3 coarse sand)	cum	**3265.10**
2126	Cement lime mortar 1:1:6 (1 cement:1 lime putty:6 coarse sand)	cum	**2262.90**

4.0 Concrete work

Code No.	Description	Unit	Rate Rs.
4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.		
4.1.1	1:1:2 (1 cement: 1 coarse sand:2 graded stone aggregate 20 mm nominal size)	**cum**	**6205.90**
4.1.2	1:1.5:3(1 Cement :1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	**cum**	**4681.30**
4.1.3	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	**cum**	**4151.40**
4.1.4	1:2:4 (1 Cement: 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	**cum**	**4033.00**
4.1.5	1:3:6 (1 Cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	**cum**	**3461.40**
4.1.6	1:3:6 (1 Cement; 3 coarse sand :6 graded stone aggregate 40 mm nominal size)	**cum**	**3307.00**
4.1.8	1.4.8 (1 Cement :4 coarse sand :8 graded stone agregate 40 mm nominal size)	**cum**	**2940.80**
4.1.10	1:5:10(1 Cement :5 coarse sand:10 graded stone aggregate 40 mm nominal size)	**cum**	**2647.90**
4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters,columns,piers, abutments,pillars,post.struts,buttresses, string or lacing courses,parapets, coping,bed blocks, anchor blocks, plin window sills, fillets etc. upt floor five level excluding the cost of centring,shuttering and finishing:		
4.2.1	1:1:2 (1 Cement:1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	**cum**	**7185.80**
4.2.2	1:1.5:3(1 Cement: 1:5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	**cum**	**5655.60**
4.2.3	1:2:4 (1 Cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size)	**cum**	**5098.60**
4.2.4	1:2:4(1 Cement :2 coarse sand :4 graded stone aggregate 40 mm nominal size)	**cum**	**4980.20**
4.2.5	1:3:6 (1 Cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size)	**cum**	**4408.70**
4.2.6	1:3:6 (1 Cement :3 coarse sand:6 graded stone aggregate 40 mm nominal size)	**cum**	**4254.20**
4.3	Centring and shuttering including strutting,propping etc. and removal or form work for		
4.3.1	Foundations,footings, bases Columns	**sqm**	**185.90**
4.3.2	Retaining walls,return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets etc.	**sqm**	**519.80**
4.3.3	Columns, piers.abutments, pillars,posts and struts	**sqm**	**425.80**
4.4	Providing and faying cement concreate in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.		

Code No.	Description	Unit	Rate Rs.
4.4.1	1:2:4 (1 Cement :2 coarse sand :4 grade stone aggregate 20 mm nominal size)	**cum**	**4151.40**
4.4.2	1:3:6 (1 Cement:3 coarse sand:6 graded stone aggregate 20 mm nominal size)	**cum**	**3461.40**
4.5	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.		
4.5.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	**cum**	**5476.60**
4.5.2	**1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).**	**cum**	**4946.80**
4.5.3	**1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).**	**cum**	**4247.20**
4.6	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), including the cost of required centering, shuttering complete.		
4.6.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	**cum**	**3724.00**
4.7	Providing and fixing up to floor five level precast cement concrete solid block,including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.		
4.7.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	**cum**	**6869.00**
4.8	Providing and fixing up to floor five level precast cement concrete hollow block,including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.		
4.8.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mmnominal size).	**cum**	**6242.40**
4.11	Providing and laying damp-proof Course 50 mm thick with cement concrete 1:2:4(1cement:2:2 coarse sand :4 graded stone aggregate 20mm nominal size)	**sqm**	**245.50**
4.12	Extra for providing and mixing water prooding material in cement concrete work in the proportion recommended by the manufacturers.	**per 50 kg cement**	**52.35**
4.13	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg. per square metre on damp oroof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	**sqm**	**89.70**
4.14	Extra for concrete work in superstructure above floor V level for each four floors of part thereof.	**cum**	**531.80**

Code No.	Description	Unit	Rate Rs.
4.15	Extra for laying concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete (The quantity will be calculated by multiplying the depth measured form the sub-soil water level upto centre of graity of concrete under sub-soil water water level with quantity of concrete in cum executed uder sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.)	**cum per m depth**	**401.30**
4.16	Extra for laying conrete in or under foul positions.	**cum**	**155.50**
4.16A	Extra for using 12.5/10 mm nominal size graded/single size stone aggregate instead of 20 mm nominal size graded stone aggregate in cement concrete/reinforced cement concrete 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size)	**cum**	**57.50**
4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	**sqm**	**417.60**
4.18	Extra for addition of synthetic Polyester triangular fibre of length 12mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement concrete/ RCC/ Flooring/ water retaining structures by using 125gms of synthetic Polyester triangular fibre for 50 Kg cement used as per directions of Engineer-in-Charge.	**per 50 kg cement**	**56.80**
4.19	Providing and laying in position ready mixed plain cement concrete, using fly ash and cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. Note : (1) Excess/less cement used than specified in this item is payable/ recoverable separately. (2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement is to be ensured in accordance with clauses 5.2 and 5.2.1 of IS: 456 -2000 in the items of BMC and RMC.		
	4.19.1 All works upto plinth level		
	4.19.1.1 M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)	**cum**	**4719.10**

Code No.	Description		Unit	Rate Rs.
	4.19.1.2	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)	cum	4567.90
	4.19.2	All works above plinth and upto floor V level:		
	4.19.2.1	M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)	cum	5385.70
	4.19.2.2	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)	cum	5234.50
4.2	Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. Note : 1) Excess/less cement used than specified in this item is payable/ recoverable separately.			
	4.20.1	All works upto plinth level :		
	4.20.1.1	M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)	cum	4738.60
	4.20.1.2	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)	cum	4587.30
	4.20.2	All works above plinth and upto floor V level :		
	4.20.2.1	M-15 grade plain cement concrete. (cement content considered @ 240 kg. /cum	cum	5137.50
	4.20.2.2	M-10grade plain cement concrete. (cement content considered @ 220 kg. /cum	cum	4986.30

5-0 Reinforced cement concrete

Code No.	Description		Unit	Rate Rs.
5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement-All work puto plinth level			
	5.1.1	1:1:2 (1 cement:1 coarse sand:2 graded stone aggregate 20mm nominal size)	cum	6434.40
	5.1.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	4902.30
	5.1.3	1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20 rr,m nominal size)	cum	4345.40
5.2	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upt floor five level excluding cost of centring, shuttering, finishin and reinforcement.			
	5.2.1	1:1:2 (1 cement: 1 coarse sand: 2 graded stone aggregate 20 mm nominal size)	cum	7255.40
	5.2.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20mm nominal size)	cum	5723.30
	5.2.3	1:2:4(1 cement :2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	5166.40
5.3	Reinforced cement conrete work in beams,suspended floors, roofs having slope upto 15, landings,balconiec, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excludingthe cost of centring, shuttering, finishing and reinforement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size).		cum	5258.20
5.4	Providing and laying upto floor five level reinforced cement concrete in kerbs, steps and the like excluding the cost of centring,shuttering, finishing and reinforcement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size).		cum	4934.00
5.5	Reinforced cement concrete work in arhes, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15^0 upto floor five level excluding the cost of centring. Shuttering. Finishing and reinforement with 1:2:4(1 cement:2 coarse sand :4 graded stone aggregate 20mm nominal size)		cum	5548.70
5.6	Reinforced cement concrete work in chimnys shafts, upto floor five level excluding the cost of centring, shuttering, finishing and reinforement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size)		cum	5258.50
5.7	Reinforced cement concrete work in well-steining excluding the cost of centrin,shuttering, finishing and reinforcement with 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size)		cum	4179.70

Code No.		Description	Unit	Rate Rs.
5.8		Reinforced cement concrete work in Vertical and Horizontal fins individually or forming box louvers, facias and eaves boards upto floor five level eciuding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement:1.5coarse sand: 3graded stone aggregate 20mm nominal size)	cum	5360.10
5.9		Centring and shuttering including strutting,propping etc. and removal of form for.		
	5.9.1	Foundations, footings, bases of columns etc. for mass concrete.	sqm	186.30
	5.9.2	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	sqm	321.30
	5.9.3	Suspended floors, roots, landings, balcnies and access platform.	sqm	362.60
	5.9.4	Shelves (Cost in situ)	sqm	362.60
	5.9.5	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	335.30
	5.9.6	Columns,Pillars, Piers, Abutments, Posts and Struts	sqm	425.80
	5.9.7	Stairs,(excluding landings) except spiral-staircaces.	sqm	384.70
	5.9.8	Spiral staircases (including landing)	sqm	345.60
	.5.9.9	Arches,domes,vaults upto 6m span	sqm	976.50
	5.9.10	Extra for arches,domes, vaults exceeding 6 m span	sqm	252.60
	5.9.11	Chimneys and shafts	sqm	519.80
	5.9.12	Well steining	sqm	247.80
	5.9.13	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards	sqm	544.30
	5.9.14	Extra for shuttering in circular work (20% of respective centring and shuttering items)	sqm	20.20
	5.9.15	Small lintels not exceeding 1.5 m clear span, mouldings as in cornoces, window sills, string, courses, bands, copings, bed plates, anchor blocks and the like.	sqm	198.50
	5.9.16	Edges of slabs and breaks in floors and walis-		
	5.9.16.1	Under 20 cms wide	m	100.90
	5.9.16.2	Above 20cm wide	sqm	460.20
	5.9.17	Cornices and mouldings	sqm	502.00
	5.9.18	Small surfaces such as cantilever ends,brackets and ends of steps, caps and bases to pilasters and columns and the like	sqm	457.50
	5.9.19	Weather shade,Chajjas, corbels etc. including edges	sqm	468.40
	5.9.20	Suspended floors, roofs, landings, balconies and access platform with water proofply 12 mm thick.	sqm	462.80
	5.9.21	Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proof ply 12 mm thick.	sqm	440.70
5.10		Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of engineer-in charge		
	5.10.1	12 mm dia & 100 mm length	sets	138.40
	5.10.2	12 mm dia & 150 mm length	sets	150.80
	5.10.3	20 mm dia & 150mm length	sets	163.30
	5.10.4	20 mm dia & 225 mm length	sets	175.80

Code No.	Description		Unit	Rate Rs.
5.11	Extra for additional height in centring, shuttering wherever required with adequate bracing, propping etc. including cost of de-shutering and de centring at all levels over a height of 3.5 m ,for every additional height of 1 metre or part thereof (Plan area to be measured)			
	5.11.1	Suspended floors, roots, laning, beams and balconies (Plan area to be measured)	sqm	146.20
5.12	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).		cum	5633.80
5.13	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in small lintels not exceeding 1.5 m clear span up to floor five level,including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).		cum	7880.00
5.14	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in mouldings as in cornices, windows sills etc. including setting in cement mortar 1:3 (1 cement : 3 coarse sand) cost of required centering, shuttering but excluding the cost of reinforcement, with 1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).		cum	8844.20
5.15	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in lintels, beams and bressumers including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but excluding the cost of reinforcement with, 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).		cum	7404.50
5.16	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarsesand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size).		cum	11481.40
5.17	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in vertical & horizontal fins individually or forming box louvers setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).		cum	12586.20
5.18	Providing,precast cement concrete Jali 1:2:4(1 cement:2 coarse sand:4 stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement:3 fine sand) etc.complete excluding plastering of the jambs, sills and soffits.			
	5.18.1	50 mm thick	**sqm**	**730.40**
	5.18.2	40 mm thick	**sqm**	**637.50**
	5.18.3	*25* mm thick	**cum**	**593.90**
5.19	Encasing rolled steel sections, in beams and columns, with cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3raded stone aggregate 12.5 mm nominal size),including centering and shuttering complete but excluding cost of reinforcement.		cum	8195.40

Code No.	Description		Unit	Rate Rs.
5.20	Encasing rolled steel section in grillages with cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size, including centering and shuttering but, excluding cost of expanded metal and hangers.		**cum**	**5221.70**
5.21	Extra for providing and fixing expanded metal mesh of size 20x60mm and strands 3.25 mm wide 1:6 mm thich weighing 3.64 kg. er sqm for encasing of roiled steel sections in beams, columns and grillages excluding cost of hangers		**sqm**	**392.60**
5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
	5.22.1	Mild steel 6.00 mm dia	**kg**	**76.10**
	5.22.1A	Mild steel 5.5 mm dia	**kg**	**76.10**
	5.22.1B	Mild steel 6.0 mm dia	**kg**	**75.90**
	5.22.1C	Mild steel 6.5 mm dia	**kg**	**75.70**
	5.22.1D	Mild steel 7.0 mm dia	**kg**	**75.50**
	5.22.1E	Mild steel 8.0 mm dia	**kg**	**75.30**
	5.22.1F	Mild steel 10.0 mm dia	**kg**	**76.10**
	5.22.1G	Mild steel 12.0/12.7 mm dia	**kg**	**76.10**
	5.22.7	Thermo-Mechanically Treated bars (FE-500) 20mm dia.	**kg**	**76.00**
	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm dia.	**kg**	**77.40**
	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	**kg**	**76.70**
	5.22.7C	Thermo-Mechanically Treated bars TMTC-500-12mm dia.	**kg**	**75.20**
	5.22.7D	Thermo-Mechanically Treated bars TMT Fe-500-I6mrn dia.	**kg**	**76.00**
	5.22.7E	Thermo-Mechanically Treated bars TMT Fe-500-20mm dia.	**ky**	**76.00**
	5.22.7F	Thermo-Mechanically Treated bars TMT Fe-500-25rnm dia.	**kg**	**76.00**
	5.22.7G	Thermo-Mechanically Treated bars TMT Fe-500-28mm dia.	**kg**	**76.00**
	5.22.7H	Thermo-Mechanically Treated bars TMT Fe-500-32mm dia.	**kg**	**76.00**
	5.22.7 I	Hard drawn steel wire fabric	**kg**	**77.10**
5.23	Extra for RCC work in superstructure above floor V level for each four floors or part thereof.		**cum**	**531.80**
5.23A	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).		**sqm**	**112.50**
5.24	Extra for rendering smooth the top of suspended floors, landings and staircases (treads and risers) with cement mortar 1:2(1 cement:2 coarse sand) including a floating coat of neat cement and protecting the surface with a layer of 7.5cm of earth laid over 15 mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landings and steps including subsequent removal and cleaning of the same.		**sqm**	**72.70**
5.25	Providing and fixing in position copper plate as per design for expansion joints.		**kg**	**359.80**
5.26	Providng and filling in position, blown bitumen in expansion joints.		**100m(Length) x1cm(Wide)x1 cm(Depth)**	**534.40**

Code No.	Description		Unit	Rate Rs.
5.27	Providing and filling in position bitumen mix filler of Proportion 80 kg of hot bitumen, 1 kg, of c ement and 0.25 cubicmetre of coarse sand for expansion joints,		100m(Length) x1cm(Wide)x1 cm(Depth)	153.51
5.28	Providing and fixing in position 12 mm thick bitumen impregnated fibre board conforming to IS: 1838 including cost of primer, sealing compound grade A in expansion joints.		100m(Length) x1cm(Depth)	468.40
5.29	Providng and fixing sheet covering over expansion joints with iron screws as per design to match the colour/shade of wall treatment,			
	5.29.1	Non -Asbestos Fibre cement board 6 mm thickas per IS:14862		
	5.29.1.1	150 mm wide	m	123.40
	5.29.1.2	200mm wide	m	165.70
	5.29.2	Aluminium fluted strips 3.15 mm thick		
	5.29.2.1	150 mm wide.	m	343.70
	5.29.2.2	200 mm wide	m	480.30
5.30	Add for plaster drip course/groove in plastered surface or moulding to R.C.C. projections.		m	28.40
5.31	Extra for laying reinforced cement concrete in or under water and/or liquid mud including cost or pumping or bailing out water and removing slush etc. complete.(Rate same as per item No, 4.29) **Note**:- The quantity will be calculated by multiplying the depth measured from the subsoil water level upto the centre of gravity of the R.C.C. under subsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gravity shall be reconed correct to 0.1 m. 0.05 m or more shall be taken as 0.1 and less than 0.05 m ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under subsoil water conditions.		cum	401.30
5.32	Extra for laying reinforced cement concrete in or under foul positions.		cum	155.50
5.33A	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grde reinforcd cement concrete			
	5.33A.1	All work upto plinth level	cum	4924.00
	5.33A.2	All works above plinth level upto floor V level		
	5.33A.2.1	Walls columns, pillars, posts cind struts	cum	5373.10
	5.33A.2.2	Beams, planth beams, girders, bressumers, contilevers, Suspended floors lintels roofs and staircases including spiral staircases, shelves etc.	cum	5689.80
5.33A.3	Extra for R.C.C work above floor V level for each four floors or part thereof.		cum	531.80
5.33B	Add or deduct for providing richer or leaner mixes respectively at all floor levels.			
	5.33B.1	Proiding M-25 grade R.C.C. instead of M-20 grade R.C.C.	cum	197.70
	5.33B.2	Providing M-30 grade R.C.C. instead of M-20 grade R.C.C.	cum	271.00

Code No.	Description		Unit	Rate Rs.
	5.33B.3	Providing M-35 grade R.C.C. instead of M-20 grade R.C.C.	**cum**	**329.57**
	5.33B.4	Providing M-15grade R.C.C instead of M-20 grade R.C.C.	**cum**	**461.40**
5.33 :	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cementcontent as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and including retard setting of concrete, improve workability without impairing strength andadmixtures in recommended proportions as per IS: 9103 to accelerate,reinforcement,durability as per direction of Engineer-in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.			
	5.33.1	All works up to plinth level	**cum**	**5192.50**
	5.33 .2:	All work above Plinth level upto floor V Level.	**cum**	**5859.00**
5.34	Add or deduct for providing richer or leaner mixes respectively at all floor levels.			
	5.34.1 :	Providing M-30 grade concrete by using 340kg /m3 of Cement per cum of concrete instead of M-25 grade B.M.C./RMC	**cum**	**78**
	5.34.2	Providing M-35 grade concrete by using 350kg /m3 of Cement per cum of concrete instead of M-25 grade B.M.C./RMC	**cum**	**156.10**
	5.34.3	Providing M-40 grade concrete by using 360kg /m3 of Cement per cum of concrete instead of M-25 grade B.M.C./RMC	**cum**	**230.80**
5.35	Add for using extra cement in the items of design mix over and above the specified cement content there in.		**quintel**	**732.4**
5.37.1	Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. M-25 grade Reinforced cement concrete by using 330 kg of cement per cum of concrete. All works up to Plinth level		**cum**	**5542**
5.37.2	All works above Plinth level up to floor five level.		**cum**	**6593.00**
5.38	Extra for R.C.C/ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.		**cum**	**267.60**

Code No.	Description		Unit	Rate Rs.
5.40	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. NOTE- (1) Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately. (2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement to be ensured in accordance with clauses 5.2 and 5.2.1 of IS:456 -2000 in the items of BMC and RMC.			
	5.40.1 **All works up to Plinth level**		**cum**	**5441.50**
	5.40.2 **All works above plinth & up to floor V level.**		**cum**	**6108.00**
5.41	Supplying and applying pre tested and approved water based concrete curing compound to concrete/ masonry surface, all as per manufacturer's specification and direction of Engineer-in-charge.			
	5.41.1	Non pigmented wet curing compound.	**sqm**	**104.70**
	5.41.2	Pigmented wet curing compound.		**119.70**
5.42/5.51	Providing and fixing tapered / parallel threaded couplers conforming to IS code on Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement – Specification, to reinforcement bars including threading,enlargement at connection by forging, protecting the prepared reinforcement bars and related operations as required to complete the works as per direction of Engineer-in-Charge . (The length of the bars in which coupler is to be provided should not be less than 4 metre, no deduction for labour and binding wire saved for not providing lap length shall be made).			
	5.42.1/ 5.51.1	Coupler for 16 mm diameter reinforcement bar.	**each**	**135.30**
	5.42.2/5.51.2	Coupler for 20 mm diameter reinforcement bar.	**each**	**184.40**
	5.42.3/ 5.51.3	Coupler for 25 mm diameter reinforcement bar.	**each**	**254.10**
	5.42.4/ 5.51.4	Coupler for 28 mm diameter reinforcement bar.	**each**	**348.40**
	5.42.5/ 5.51.5	Coupler for 32 mm diameter reinforcement bar.	**each**	**403.40**
5.43	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints.			
	5.43.1/ 5.52.1	200 mm wide.	**metre**	**609.20**
	5.43.2/ 5.52.2	300 mm wide.	**metre**	**883.10**

Code No.	Description		Unit	Rate Rs.
5.44	Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical localtion in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self – centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in-Charge .(Material shall confirm to ASTM 6063).			
	5.44.1	Floor Joint of 100 mm gap.	**metre**	**5074.50**
	5.44.2	Floor Joint of 150 mm gap.	**metre**	**6241.90**
	5.44.3	Floor Joint of 200 mm gap.	**metre**	**8032.00**
5.45	Providing and fixing of expansion joint system related with wall joint (internal/external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221-02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063).			
	5.45.1	Wall Joint of 100 mm gap.	**metre**	**4202.90**
	5.45.2	Wall Joint of 150 mm gap.	**metre**	**4747.70**
	5.45.3	Wall Joint of 200 mm gap.	**metre**	**5541.50**

Code No.	Description		Unit	Rate Rs.
5.46	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arragement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's preengineered self-centering arrangement that freely rotates / moves in all directions.The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. Material shall confirm to ASTM 6063.			
	5.46.1	Roof Joint of 100 mm gap.	**metre**	**4700.90**
	5.46.2	Roof Joint of 150 mm gap.	**metre**	**5245.80**
	5.46.3	Roof Joint of 200 mm gap.	**metre**	**6288.60**
5.47	Providing and fixing in position factory made precast RCC M-40 doors and windows frames having excellent smooth finish as per IS: 6523 with reinforcement of 3 Nos, 6 mm dia main bars tied with 3 mm M.S stirrups placed @ 200 mm C/C and 6 numbers high strength polymer blocks of required size for fixing hinges including providing 6 no specially designed M.S. galvanised sleeves for accomodating 6 mm dia fully threaded bolts for fixing hold fast on vertical members, providing suitable arrangement for recieving sliding door bolts and tower bolt etc all complete, as per the direction of Engineer in charge. (The cost of hold fast and cc block of 1:3:6 mix is also included in the item.) The frame shall be measured in running meter correct to two places of decimal.			
	5.47.1	Door frame 125 mm x 60 mm.	**metre**	**478.20**
	5.47.2	Door frame 100 mm x 60 mm.	**metre**	**446.20**
	5.47.3	Door frame 85 mm x 60 mm.	**metre**	**419.20**
5.48	Providing and laying Reinforced cement concrete for construction of piers,abutments, portal frames, pier caps and bearing pedestals and seismic arresters over pier/ abutment caps at all locations with specified grade using Ordinary Portland Cement (conforming to strength requirement of IS:8112) including the cost of steel centering and shuttering etc. complete including testing of materials etc. for casting pier & pier cap in one/two stage, necessary tools, plants, machinery and all related operations as required to complete the work as per drawings and Specifications with all leads, lifts and depths true to level and position but excluding the cost of providing reinforcement. Reinforcement shall be measured and paid separately. Cement content considered in this item is 480 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately.			
	5.48.1	Reinforced Cement Concrete M50.	**cum**	**5832.7**
	5.48.2	Reinforced Cement Concrete M60.	**cum**	**7164.7**

Code No.	Description		Unit	Rate Rs.
	5.48.3	Extra for using M50/M60 grade self-compacting Reinforced Cement Concrete.	**cum**	**626.8**
5.49	Constructing cast-in situ RCC diaphragm wall by providing and laying machine batched, machine mixed, self compacting, ready mix reinforced cement concrete, tramie controlled, of M 30 grade using minimum 400 kg. cement per cum of concrete including providing and mixing required admixtures in recommended proportions as per IS : 9103, as approved by the Engineer-in-charge, for achieving 150- 200mm slump, for diaphragm wall having thickness as per approved structural design not exceeding 600 mm, in pannels of required depth and lengths as per approved drawing, including constructing necessary guide walls as required and as specified including boring in all kinds of soils and rocks, including working in or under water and / or liquid mud, in foul conditions and pumping or bailing out of water and removing slush, including disposal of earth/ rock / slush etc. for all leads and all lifts, including preparing, providing and re-circulating bentonite slurry in the trench as and when required for all depths, including agitating bentonite slurry during trenching etc., providing and fixing stop ends or form tubes, upto the required depth of diaphragm wall including extracting the same after casting, including chipping off the bentonite adulterated concrete or unsound concrete up to the cut off level for obtaining the sound concrete, dressing undulations on the exposed face of diaphragm wall after excavation by chipping / chiseling etc. including filling the depression/ cavities with sound concrete etc. complete and as directed by the Engineer-in-charge, including providing recess for bearing plates and fixing insert boxes for inclined rock anchors etc. complete as per the specifications and approveddesign and as directed by the Engineer-in-charge, .but excluding the cost of reinforcement and inserts. (rates include cost of all inputs of labour, material and T & P, cost of handling, lifting & placing in position the reinforcement cage in the trench, including the additional cost of welding the reinforcement bars etc. involved in the work			
	5.49.1	Excess/less cement used for design mix including the extra cement required for under water concreting is payable / recoverable separately.	**cum**	**13465.7**

6.0 Brick work(A)

Code No.	Description	Unit	Rate Rs.
6.1A	Brick work with bricks of class designation 100A in foundations and plinth in :		
6.1.12/1	Cement mortar 1 .:4 (1 cement: 4 coarse sand)	**cum**	**5037.20**
6.1.14A	Cement mortar 1:6 (1 cement: 6 coarse sand)	**cum**	**4799.20**
6.3A	Extra for Brick work in superstructure above plinth level upto floor V cum	**cum**	**702.20**
6.4A	Extra for brick work in superstructure above floor V level for each four floors or part there of.	**cum**	**531.80**
6.11A	Extra for forming cavity 5cm to 7.5cm wide in cavity wall with necessary weep and vent holes including use of cores and cast of providing and fixing bitumansttc coted m.s. toles 300mmlong of 25mmx3mmsection at not less than 3 tiles per sqm as per approved design.	**sqm**	**92.40**
6.12A	Providing half brick masonry with bricks of class designation 100A in cement mortar 1:3 (1 cement: 3 coarse sand) in supersturcture for closing cavity 5 to 7.5 cm wide in cavity wall complete with 10cmm/11.4cm wide bitumen felt type 3 grade 1 .	**per m**	**202.20**
6.13A	Brick work 7cm thick with brick of class designation 100A cement mortar 1:3 (1 cement: 3 coarse sand) in super structure	**sqm**	**471.10**
6.15A	Brick work in plain arches in superstructure including centring and shuttering complete for span upto 6 metres with bricks of class designation 100A in cement mortar **1:3(1** cement:3 coarse sand)	**cum**	**7969.40**
6.16A	Brick work in gauged arches in superstructure in cement mortar 1:3 (1 cement:3 coarse sand) including centring and shutierning complete. Span upto 6 metres with	**cum**	**9539.00**
6.17A	Extra for additionaLcost of centring for arches exceeding 6 mspan including all shuttering , Bolting , wedging and removaL(Area of the soffit to be measured).	**sqm**	**257.20**
6.18A	Half brick masonry with bricks of class designation 100A in foundations and plinth in :		
6.18.3A	Cement mortar 1:3 (1 cement: 3 coarse sand)	**sqm**	**623.40**
6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse send)	**sqm**	**596.80**
6.19A	Extra for half Brick masonry in superstructure above pinth level upto floor V level.	**sqm**	**74.70**
6.20A	Extra for half brick masonry in superstructure. Above floor V level for every four floors or part there of	**sqm**	**66.80**
6.21A	Extra for providing and placing in position 2 Nos, 6 mm dia , MS bars at every third course of half brick masonry (with F. P. S. bricks)	**sqm**	**87.70**
6.23A	Tile brick masonry with tile bricks of class desgnation 100 in foundation and plinth in :		
6.23.7A	Cement mortar 1:4 (1 cement :4 coarse sand)	**cum**	**8816.50**
6.23.8A	Cement mortar 1.6 (1 cement :6 coarse sand)	**cum**	**8435.60**
6.24A	Extra for tile bricks masonry with tile bricks of class designation 100A in superstructure fromplinth leveLupto floor five level.	**cum**	**697.30**

Code No.	Description	Unit	Rate Rs.
6.25A	Extra for tile brick masonry with tile bricks of class designation 100A in superstructure above floor five level for every four floor or part thereof,	**cum**	**531.80**
6.29A	Tile brick masonry with bricks of class desigation 100 in plain arch work superstructure in cement mortar 1:4 (1 cement: 4 co	**cum**	**11540.00**
6.30A	Tte brick masonary with tile bricks ot class designation 100A in gauded arch work in superstucture in cement mortar 1:4 (1 cement: 4 coarse sand) including centring and shuttering complete.	**cum**	**12990.40**
6.31A	Tile brick masonry work 5 cm thick with tile bricks of class designation 100A in cement mortar 1:3 (1 cement: 3 coarse sand) in superstructure .	**sqm**	**529.30**
6.32 A	Honey- comb brick work 10/11.4 cm thick with bricks of class designation 100A in cement mortar 1:4 (1 cement: 4 coarse sand)	**sqm**	**424.70**
6.39A	Extra for brick work in under water mud or liquid mud including cost of pumping or bailing out water - slush etc	**cum**	**401.30**
6.41A	Brick work with selected bricks of class designation 100A in exposed brick work including making horizontal and vertical irooves 10mm wide 12mm deep complete from ground level up to plinth level in cement mortars 1:6(1 cement: 6 corse sand)	**cum**	**4887.00**
6.45A	Extra for exprosed brick work in superstructure above plinth level and upto floor level. 0.75 x 1.5 = 1.13	**cum**	**889.40**
6.47A	Providing 250mm wide brick drain in cement mortar (1:6) with av. 150mm. Clear depth and 250mm apron including cost of E/W. involved with 75mm cement concrete (1:4:8) over one brick designation 100-A flat soling in proper grade and slope at the base.the drain duly.plastered in CM. (1:3) with punning over exposed surface all complete as per building specification and direction of E/I,	**Per m**	**1061.20**
6.48A	Providing 150mm wide brick drain in cement mortar (1:6) with av. 150mm clear depth and 125mm apron concrete (1: 4:8), over one brick designation 100-A flat soling in proper grade and slope at the base, the drain duly plastered in CM. (1:3) with punning over exposed surface all complete as per building specification and direction of E/I,	**Per m**	**564.50**
6.38	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand).The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	**cum**	**5359.90**
6.40	Providing and laying Gypsum panel partitions 100 mm thick with water proof Gypsum panels of size 666x500x100 mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturers specifications in superstructure above plinth level up to floor V level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm2	**sqm**	**723.20**
6.41	Extra for Gypsum panel partitions in superstructure above floor V level for every four floors or part there of.	**sqm**	**61.30**

6.0 Brick work(B)

Code No.	Description	Unit	Rate Rs.
6.1B	Brick work with bricks of class designation 100B in foundations and plinth in :		
6.1.12B	Cement mortar 1.:4 (1 cement: 4 coarse sand)	**cum**	**4747.70**
6.1.14B	Cement mortar 1:6 (1 cement: 6 coarse sand)	**cum**	**4509.70**
6.3B	Extra tor Brick work in superstructure above plinth level upto floor V cum	**cum**	**669.00**
6.4B	Extra for brick work in superstructure above floor V level for each four floors or part thereof.	**cum**	**531.80**
6.11B	Extra for forming cavity 5cm to 7.5cm wide in cavity wall with necessary weep and vent holes including use of cores and cast of providing and fixing bitumanstic coted m.s. toles 300mm long of 25mm x 3mm section at not less than 3 tiles per sqm as per approved design.	**sqm**	**89.70**
6.12B	Providing half brick masonry with bricks of class designation 100B in cement mortar 1:3 (1 cement: 3 coarse sand) in supersturcture for closing cavity 5 to 7.5 cm wide bitumen felt type 3 grade 1 .	**m**	**202.00**
6.13B	Brick work 7cm thick with brick of class designation 100B cement mortar 1:3 (1 cement: 3 coarse sand) in super structure	**sqm**	**448.30**
6.15B	Brick work in plain arches in superstructure including centring and shuttering complete for span upto 6 metres with bricks of class designation 100B in cement mortar 1:3(1 cement: 3 coarse sand)	**cum**	**7652.00**
6.16B	Brick work in gauged arches in superstructure in cement mortar 1:3 (1 cement:3 coarse sand) including centring and shutterning complete. Span upto 6 metres with	**cum**	**9196.00**
6.17B	Extra for additionaLcost of centring for arches exceeding 6 mspan ' including alLshuttering . Bolting , wedging and removai_(Area of the soffit to be measured).	**sqm**	**257.20**
6.18B	Half brick masonry with bricks of class designation 100B in foundations and plinth in :		
6.18.3B	Cement mortar 1:3 (1 cement: 3 coarse sand)	**sqm**	**588.80**
6.18.4B	Cement mortar **1:4(1** cement: 4 coarse send)	**sqm**	**562.10**
6.19B	Extra for half Brick masonry in superstructure above pinth level upto floor V level.	**sqm**	**74.70**
6.20B	Extra for half brick masonry in supersrructure. Above floor V level for every four floors or part there of	**sqm**	**61.30**
6.21B	Extra for providing and placing in position 2 Nos, 6 mm dia , MS bars at every third course of half brick masonry (with F. P. S. bricks)	**sqm**	**87.40**
6.23B	Tile brick masonry with tile bricks of class desgnation 100 in foundation and plinth in :		
6.23.7B	Cement mortar 1:4 (1 cement :4 coarse sand)	**cum**	**8809.70**
6.23.8B	Cement mortar 1.6 (1 cement :6 coarse sand)	**cum**	**8428.90**
6.24B	Extra for tile bricks masonry with tile bricks of class designation 100B in superstructure fromplinth feve! upto floor five level.	**cum**	**697.30**

6.25B	Extra for tile brick masonry with tile bricks of class designation 100B in superstructure above floor five level for every four floor or part thereof.	**cum**	**531.80**
6.29B	Tile brick masonry with bricks of class desigation 100 in plain arch work superstructure in cement mortar 1 ;4 (1 cement: 4 coarse sand) including centring and shuttering complete.	**cum**	**11525.50**
6.30B	Tie brick masonary with tile bricks of class designation 100B in gaudecf arch work in superstucture in cement mortar 1:4 (1 cement: 4 coarse sand) including centring and shuttering complete.	**cum**	**13003.90**
6.31B	Tile brick masonry work 5 cm thick with tile bricks of class designation 100B in cement mortar 1:3 (1 cement: 3 coarse sand) in superstructure ,	**sqm**	**575.20**
6.32B	Honey- comb brick work 10/11.4 cm thick with bricks of class designation 100B in cement mortar 1:4 (1 cement: 4 coarse sand)	**sqm**	**394.00**
6.39B	Extra for brick work in or under water mud or liquid mud including cost of pumping or bailing out water — slush etc	**cum**	**401.30**
6.41 B	Brick work with selected bricks of class designation 100B in exposed brick work including making horizontal and vertical grooves 10mm wide 12mm deep complete from ground level up to plinth level in cement mortars 1:6(1 cement: 6 corse sand)	**cum**	**4577.20**
6.45B	Extra for exprosed brick work in superstructure above plinth level and upto floor level. 0.75 x 1.5 = **1.13**	**cum**	**865.09**
6.46B	Brick work with clay fiyash bricks of class designation 100B in superstructure above plinth level upto floor five level in .		
6.46B.1	3 Cement mortar 1:4 (1 cement: 4 coarse sand)	**cum**	**5404.30**
6.46.14B	Cement mortar 1:6' (1 cement: 6 coarse sand)	**cum**	**5166.20**
	6.0FLY ASH Brick work(C)		
6.1C	**Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :**		
6.1.12C	Cement mortar 1.:4 (1 cement: 4 coarse sand)	**cum**	**5129.70**
6.1.14C	Cement mortar 1:6 (1 cement: 6 coarse sand)	**cum**	**4895.70**
6.3C	Extra tor Brick work in superstructure above plinth level upto floor V cum	**cum**	**702.20**
6.4C	Extra for brick work in superstructure above floor V level for each four floors or part thereof.	**cum**	**531.80**
	6.0 Brick work with lime mortar(D)		
6.1D	**Brick work with bricks of class designation 100A in foundations and plinth in :**		
6.1.12D	**Lime mortar (1:1:1) (1 limeputty: 1shukhi:1coarse sand)**	**cum**	**4931.40**
6.1.14D	**lime mortar mortar 1:1:2(1 limeputty: 1 surkhi:2 coarse sand) Details of cost for 1 cum**	**cum**	**5467.20**

7.0 Stone work

Code No.	Description	Unit	Rate Rs.
A7.1	Dressing of sand stone for ashlar cyclopean-	10cudm	57.80
A7.2	Dressing of sand stone for moulded work	10cudm	119.70
A7.3	Dressing of sand stone for ashlar puncheol ordinary work	10cudm	48.97
A7.4	Dressing of sand stone m arch dome's or circular moulded work	10cudm	144.80
A7.5	Dressing of sand stone for ashlar moulded and currved colonic	10cudm	196.80
A7.6	Dressing of sand stone------	sqm	569.80
A7.7	Fixing charges for stone work including pointing	10cudm	58.40
A7.8	Fixing charges for stone in veneer work .	sqm	675.70
7.1	Random rubble masonry with hard stone in fourdation and plinth including leveling up with cement concrete 1:6:12 (1 cement: 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at plinth level with .		
	7.1.1 Cement mortar 1:6 (1 cement: 6 coarse sand)	cum	3198.10
7.2	Extra for random rubble masonry with hard stone in spuerstructure above plinth level and upto floor five level, including leveling up with cement concreter 1:6:12 (1 cement: 6 coarse sand : 12 graded . stone aggregate 20 mm nomiinal size) at window sills , ceiling level and the like .	cum	712.30
7.3	Extra for random rubble masonry with hard stone in superstructure above floor V levei for every four floors or part therof .	cum	679.70
7.4	Extra for random rubble masonry with hard stone in .		
	7.4.1 Square or rectangular pillars	cum	332.40
	7.4.2 Circular pillars	cum	1015.90
7.5	Extra for random rubble masonry with hard stone curved on plan for ad mean radius not exceeding 6 m .	cum	405.80
7.6	Coursed rubble masonry (fist sort) with hard stone in foundation and plinth with .		
	7.6.1 Cement mortar 1:6(1 cement: 6 coarse sand)	cum	3749.10
7.7	Coursed rubble masonry (second sort) with hard stone in foundation & plinth with		
	7.7.1 Cement mortar 1:6 (1 cement: 6 coarse sand)	cum	3483.70
7.8	Extra for coursed rubble masonry with hard stone (first or second sort) in superstructue above plinth level and upto floor five level .	cum	815.10
7.9	Extra for coursed rubble masonry with hard stone (first or second sort} in superstructure above floor V level for every four floor's or part thereof.	cum	679.70
7.10	Extra for coursed rubble masonry with hard stone (first or second sort) in :		
	7.10.1 Square or rectangular pillars	cum	369.10
	7.10.2 Circular pillars	cum	1150.30
7.11	Extra for coursed rubble masnory with hard stone (first or second sort) curved on plan for a mean radius not exceeding 6 m .	cum	430.80

Code No.	Description		Unit	Rate Rs.
7.12	Stone work in plain ashlar in super structure upto floor five level in cement mortar 1:6{1 cement: 6 coarse sand) including pointing with cement mortar 1 2 (1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade .			
	7.12.1	Red sand stone	cum	26868.10
	7.12.2	White sand stone	cum	27168.00
7.13	Stone work plain ashlar in arches in cement mortar 1:3 (1 cement: 3 coarse sand) including centring, shuttering and pointing with white cement mortar 1:2(1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade .			
	7.13.1	Red sand stone	cum	31533.40
	7.13.2	White sand stone	cum	29165.10
7.14	Stone work plain ashlar in domes in cement mortar 1:3 {1 cement: 3 coarse sand) including centring, shuttering and pointing with white cement mortar **1:2(1** white cement: 2 stone dust} with an admixture of pigment matching the stone shade .			
	7.14.1	Red sand stone	cum	41797.00
	7.14.2	White sand stone	cum	42623.50
7.15	Stone work ashlar punched (ordinary} in superstructure upto floor five level in cement mortar **1:6(1**white cement: 6 coarse sand) including pointing with cement mortar 1:2(1 cement: 2 stone dust) with an admixture of pigment matching the stone shade . '			
	7.15.1	Red sand stone	cum	25687.10
	7.15.2	White sand stone	cum	31303.50
7.16	Extra for stone work , plain ashlar or ashiar punched above floor V for every four floors or part thereof.		cum	679.70
7.17	Extra for plain ashiar or ashiar punched **in** :			
	7.17.1	Square or rectangular pillars	cum	830.90
7.19	Extra for additional cost of centing for arches exceeding 6m span including all strutting , bolting, wedging etc , and removal (area of soffit to be measured).		sqm	257.20
7.2	Stone work sunk or moulded or sunk and moulded upto floor five level in cement mortar 1:6 (1 cement: 6 coarse sand) inculding pointing with white cement mortar 1:2 (1 cement: 2 stone dust) with an admixture of pigment matching the stone shade:			
	7.20.1	Red sand stone	cum	41513.00
	7.20.2	White sand stone	cum	53922.30
7.21	Extra for stone work sunk or moulded or sunk and moulded or carved in :			
	7.21.1	Triangular or Square or rectangular pillars	cum	2817.70
	7.21.2	Circular or polygonal pillars	cum	7983.50
7.22	Extra for stone work sunk or moulded in cornices .		metre per cm grith	23.30

Code No.	Description		Unit	Rate Rs.
7.23	Stone work (machine cut edge) for wall lining etc. (veneer work) over 12 mm thick bed of cement lime mortar 1:1:6 (1 cement: 1 lime putty : 6 fine sand) including pointing in white cement mortar 1:2(1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade: (To be secured to the backing by means of cramps which shall be paid for seperately)			
	7.23.1	Red sand stone- exposed face fine dressed with rough backing		
	7.23.1.1	70 mm thick	**0.1 sqm**	**2486.60**
	7.23.1.2	60 mm thick	**0.1sqm**	**2378.70**
	7.23.1.3	50 mm thick	**0.1 sqm**	**2271.10**
	7.23.1.4	40 mm thick	**0.1 sqm**	**2162.90**
	7.23.2	White sand stone		
	7.23.2.1	70 mm thick	**0.1sqm**	**2544.70**
	7.23.2.2	60 mm thick	**0.1sqm**	**2428.60**
	7.23.2.3	50 mm thick	**0.1sqm**	**2312.60**
	7.23.2.4	40 mm thick	**0.1sqm**	**2195.80**
7.24	Extra for stone work (veneer work) curved on plan with a mean radius not exceeding 6 m .		**cum**	**2164.50**
7.25	Providing and fixing gun metal cramps of required shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement: 2 fine sand) including making the necessary chases.			
	7.25.1	25x6 mm - 30 long	**each cramp**	**110.10**
7.26	Providing and fixing stone dowels 10x5x2.50 cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement: 2 fine sand) including making the necessary chases .		**dowel**	**40.30**
7.27	Providing and fixing copper pins 7.5 cm long 6 mm diameter for securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement: 2 fine sand) including making the necessary chases .		**copper pin**	**29.70**
7.29	Providing and fixing horizontal chajja of stone 400 mm thick and upto 80 cm projection in cement mortar 1:4(1 cement: 4 coarse sand) including pointing in white cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade.			
	7.29.1	Red sand stone	**sqm**	**801.50**
	7.29.2	White sand stone	**sqm**	**801.50**
7.30	30 mm red sand stone sun-shade (chisel-dressed) supported on red sand stone brackets, fixed in walls with cement mortar 1:4 (1 cement: 4 coarse sand) including finishing complete.		**sqm**	**949.00**
7.31	Providing and fixing red sand stone brackets 55x22.5x45 cm sunk and moulded including providing and fixing with 4 Nos. gun metal cramp 25x6 mm. 30 cm long and dowel bars 7.5 cm long 6 mm dia as per design.		**bracket**	**2755.90**

Code No.	Description		Unit	Rate Rs.
7.32	Stone work , plain in copings , cornices, string courses and plinth courses, in cement mortar 1: 6 (1 cement: 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade .			
	7.32.1	Red sand stone	cum	36525.90
	7.32.2	White sand stone	cum	36825.70
7.38	Providing and fixing stone jaii 40 mm thick throghout(without sunking or moulding in jali slab) in cement mortar 1:3(1 cement: 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment, matching the stone shade, jali slab without any chamfers etc.			
	7.38.1	Red sand stone	sqm	8522.50
	7.38.2	White sand stone	sqm	8522.50
7.36	Wall lining butch work with Dholpur stone 40 mm thick rough taching on the exppsed surface with stone strips of minimum length 230 mm and required with including embedding every lenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75 x 75 mm and by providing layer or 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) i/c ruled pointing in cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Enginneer-in-charge. ,		sqm	1554.40
7.37	Stone work (machine cut edges veneer work) for wall lining upto 10 m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1:2 (1 cement : 2 stone dust), including rubbing and polishing complete. (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately)			
	7.37.1	Kota stone slabs exposed face dressed and rubbed.		
	7.37.1.1	25 mm thick	sqm	1661.40
	7.37.1.A	Dressing of sand stone in veneer work	sqm	2236.80
	7.37.1.B	Dressing of sand stone in ashlar punched (ordinary work)	sqm	1708.00
7.38	Stone tile work for wall lining upto 10.0m height with special adhesive like araldite or equivalent over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) including pointing in-white cement with an admixture of pigment to match the stone shade .			
	7.38.1	8 mm thick (mirror polished and machine cut edge)		
	7.38.1.1	Granite black stone	sqm	1712.20
	7.38.1.2	Raj Nagar plain white marble / Udaipur green marble / Zebra black marbleGranite black stone	sqm	1457.00
7.39	**Extra for stone work for wall lining on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of.**		sqm	88.20

Code No.	Description		Unit	Rate Rs.
7.40	**Providing and fixing dry cladding upto 10 metre heights with 30 mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and / or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-Charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately.)**			
	7.40.1	**Red sand stone**	**sqm**	2322.30
	7.40.2	**White sand stone**	**sqm**	2412.60
7.41	**Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square / rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of MS brackets / lugs of angle iron / flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 300x230x300 mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps / pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-Charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-in-Charge for approval before execution). The frame work shall be fixed in true horizontal & vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel cramps shall be paid for separately and nothing extra shall be paid.)**		**Per Kg**	**129.00**
7.42	**Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size,adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.**		**Each**	**204.40**

8.0 Marble & Granite Works

Code No.	Description		Unit	Rate Rs.
A8.1	Dressing of Marble for steps, jambs, walls, pillars and other plain work		**10cudm**	**187.70**
A8.2	Dressing of marble for moulded jambs and heads, straight mouldings and plain arces or domes.		**10cudm**	**299.40**
A8.3	Dressing of marble in moulded arches or domes and cirular mouldings.		**10cudm**	**643.80**
A8.4	Dressing of marble veneer work		**sqm**	**821.60**
A8.5	Labour for fixing marble in veneer work 2.5 cm to 5 cm thick.		**sqm**	**1187.50**
8.1	Marble work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work) in c ement mortar 1:3 (1 cement :3 coarse sand) including pointing with white coment mortar 1:2(1 shite cement:2 marble dust) with an admixture of pigment to match the marble shade:(To be secured to the backing by means of cramps, which shall be paid for separately)			
	8.1.1	White Marble-Raj Nagar Plain/Udaipur green marble/ Zebra block marble		
	8.1.1.1	Area of slab upto 0.50 sqm	**sqm**	**2570.10**
	8.1.1.2	Area of slab over 0.50 sqm	**sqm**	**2713.90**
8.2	**Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size,approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.**			
	8.2.1	**Rajnagar plain white marble /Udaipur green marble/ Zebra block marble**		
	8.2.1.1	**Area of slab upto 0.50 sqm**	**sqm**	**2224.00**
	8.2.1.2	**Area of slab over 0.50 sqm**	**sqm**	**2354.70**
	8.2.2	**Granite of any colour and shade**		
	8.2.2.1	**Area of slab upto 0.50 sqm**	**sqm**	**3741.20**
	8.2.2.2	**Area of slab over 0.50 sqm**	**sqm**	**3699.10**
8.3	**Providing edge moulding to 18 mm thick marble stone counters, vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.**			

Code No.	Description		Unit	Rate Rs.
	8.3.1	Marble work	m	136.90
	8.3.2	Granite work	m	230.80
8.4	Extra for fixing marble/granite stone over and above coresponding basic item, in facia and drops of width upto 150 mm with expoxy resin based (Araldite or equivalent) adhesive including cleaning etc. complete.		m	236.30
8.5	Extra for providing opening of required size & shape for wash basins/kitchen sink in kitchen platform. Vanity counters and similar location in marble/granite/stone work including necessary holes for pillar taps etc. including rubbing,moulding and polishing of cut edges etc. complete.		Each	355.80
8.6	Mirror polishing on marble work/stone work where ever required to give high gloss finish complete.		sqm	203.00
8.7	Providing and fixing cramps of required size & shape in RCC/ CC / Brick masonry backing with cement mortar 1:2 (1 cement :2 coarse sand), including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).			
	8.7.1	Gunmetal cramps	Per Kg	597.40
	8.7.2	Stainless steel cramps	Per Kg	576.00
8.8	Providing and fixing expansion hold fasteners on CC/R.C.C. surface backing including drilling necessary holes and the cost of bolt etc complete.			
	8.8.1	wedge expansion type		
	8.8.1.1	Fastner with-threaded dia. 1/4" or 6mm	Each	25.20
	8.8.1.2	Fashtner with threaded dia. 3/8" or 10 mm	Each	25.60
	8.8.1.3	Fastner with threaded dia. 1/2" or 12mm	Each	45.80
8.9	Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/ sqm including pointing in white cement complete.			
	8.9.1	8 mm thick		
	8.9.1.1	Raj nagar plain white marble / Udaipur green marble / Zebra black marble	sqm	1476.20
	8.9.1.2	Granite of any colour and shade	sqm	1887.20
8.10	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone finished smooth.aggregate 6 mm nominal size) as per direction of Engineer-in-Charge and			
	8.10.1	White Agaria Marble Stone	sqm	3094.70

Code No.	Description		Unit	Rate Rs.
	8.10.2	Granite Stone of approved shade	sqm	3094.7
8.11	Providing and fixing machine cut, mirror / eggshell polished , Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required,stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement :3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge.			
	8.11.1	18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.	sqm	6596.50
8.12	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20mm(avearage) thick base of cement mortar 1:4(1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :			
	a.)	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	sqm	2979.20
8.13	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.			
	8.13.1	Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	sqm	3067.50

9.0 Wood work & PVC Work

Code No.	Description		Unit	Rate Rs.
9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).			
	9.1.1	Second class teak wood	**cum**	**95749.10**
	9.1.2	Sal wood	**cum**	**87862.50**
	9.1.3	Kiln seasoned and chemically treated hollock wood.	**cum**	**55270.90**
	9.1.4	Local wood	**cum**	**52688.60**
9.2	Providing laminated veneer lumber conforming to IS:14616 and TAD -15: 2001(Part B) in factory made frames of doors, windows, clerestory windows and other frames, wrought framed and fixing in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).		**cum**	**102822.70**
9.3	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position :			
	9.3.1	Sal wood	**cum**	**84223.30**
	9.3.2	Kiln seasoned and chemically treated hollock wood.	**cum**	**51466.10**
9.4	Extra for additional labour for cirular works,such as in frames of fan light.			
	9.4.1	Second Class teakwood-	**cum**	**9575.60**
	9.4.2	Sal wood-	**cum**	**8786.00**
	9.4.3	Klin seasoned and and chemically treated hollock wood.	**cum**	**5527.30**
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S.pressed butt hinges bright finished of required size with necessery screws, excluding panelling which will be paid for separately, all complete as per direction of Engineerin-charge.			
	9.5.1	Second Class teak wood-		
	9.5.1.1	35 mm thick	**sqm**	**2547.80**
	9.5.1.2	30 mm thick	**sqm**	**2274.90**
	9.5.2	Kiln seasoned and chemically treated hollock wood.		
	9.5.2.1	35 mm thick	**sqm**	**1742.10**
	9.5.2.2	30 mm thick	**sqm**	**1581.20**
	9.5.3	Kiln seasoned selected planks of sheesham wood.		
	9.5.3.1	35 mm thick	**sqm**	**2496.40**
	9.5.3.2	30 mm thick	**sqm**	**2214.60**
9.6	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), including ISI marked M.S.pressed butt hinges bright finished of required size with necessery screws, all complete as per directions of Engineer-in-Charge and panelling with panels of:			

Code No.	Description		Unit	Rate Rs.
	9.6.1	12 mm thick plain grade - 1, medium density flat pressed three layer particle board FPT - I or graded wood particle board FPT-I, IS :3087 marked, bonded with BWP type synthetic resin adhesive as per IS : 848 :	sqm	2407.10
	9.6.2	12 mm thick pre-laminated particle board (decorative lamination on both sides) grade - 1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT - I, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and prelaminated conforming to IS : 12823, Grade 1, Type - II marked :	sqm	2531.70
	9.6.3	12 mm thick prelaminated (with decorative lamination on one side and balancing lamination on other side) particle board Grade -1 medium density flat pressed, three layer and graded (FPT-1) conforming to IS :3087 bonded with BWP type synthetic resin adhesive as per IS :848 and prelamination conforming to IS :12823 Grade-1 Type II	sqm	2780.70
9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick:			
	9.7.1	**Second class teak wood**	sqm	2057.40
	9.7.2	**Klin seasoned and chemically treated hollock wood for 40,35,30,25mm thick shutters**	sqm	1414.70
	9.7.3	**Ply wood 5 ply, 9 mm thick.**		
	9.7.3.1	**Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type.**	sqm	1636.00
	9.7.3.2	**Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type**	sqm	1700.90
	9.7.4	**Ply wood 7 ply, 9 mm thick.**		
	9.7.4.1	**Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type**	sqm	1851.90
	9.7.5	**Particle Board 12 mm thick.**		
	9.7.5.1	**Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, IS : 3087 marked**	sqm	916.00
	9.7.5.2	**Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS :3097, grade I**	sqm	1202.80
	9.7.5.3	**Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II, IS : 12823 marked**	sqm	1267.70

Code No.	Description		Unit	Rate Rs.
	9.7.5.4	**Pre-laminated particle board with decorative lamination on both sides, Grade I, Type II, IS :12823 marked**	sqm	1317.50
	9.7.6	**Coir Veneer Board (conforming to IS 14842)**		
	9.7.6.1	**12 mm thick.**	sqm	1474.50
	9.7.7	**Float glass panes.**		
	9.7.7.1	**4 mm thick glass pane.**	sqm	1047.90
	9.7.7.2	**5.5 mm thick glass pane.**	sqm	1355.80
	9.7.8	**Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia wire and 1.4 mm wide aperture with matching wood beading**	sqm	1356.30
9.9	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.			
	9.9.1	**Second class teak wood**		
	9.9.1.1	35 mm thick	sqm	3077.60
	9.9.1.2	30 mm thick	sqm	2765.70
	9.9.2	**Kiln seasoned and chemically treated hollock wood**		
	9.9.2.1	35 mm thick	sqm	2159.90
	9.9.2.2	30 mm thick	sqm	1975.90
	9.9.3	**Kiln seasoned selected planks of sheesham wood**		
	9.9.3.1	35 mm thick	sqm	3019.10
	9.9.3.2	30 mm thick	sqm	2711.40
9.10	Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all as per directions of Engineer-in-charge.			
	9.10.1	30 mm thick shutters	sqm	2407.10
9.11	Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors,windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).			
	9.11.1	5.5 mm thick instead of 4 mm thick	sqm	254.00
9.12	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).		sqm	79.70
9.13	Deduct for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory window shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).		sqm	42.30

Code No.	Description		Unit	Rate Rs.
9.14	Extra for providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt hinges bright finished of required size with necessary screws. (Shutter area to be measured).		**sqm**	**107.00**
9.15	Deduct for not providing hinges in doors,windows and clerestory window shutters with			
	9.15.1	Stainless steel butt hinges with stainless steel screws.		
	9.15.1.1	For 2nd class teak wood and other class of wood shutters.	**sqm**	**161.10**
	9.15.2	ISI marked M.S. pressed butt hinges bright finished of required size with necessery screws.		
	9.15.2.1	For 2nd class teak wood and other class of wood shutters.	**sqm**	**54.10**
9.16	Providing and fixing 25 mm thick shutters for cup board etc. :			
	9.16.1	Panelled or panelled & glazed shutters :		
	9.16.1.1	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws	**sqm**	**2584.30**
	9.16.1.2	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	**sqm**	**2555.50**
	9.16.2	Glazed shutters:		
	9.16.2.1	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws	**sqm**	**2518.10**
	9.16.2.2	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	**sqm**	**2555.20**
9.17	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately) :			
	9.17.1	12 mm thick	**sqm**	**546.40**
	9.17.2	18 mm thick	**sqm**	**692.40**
9.18	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).			
	9.18.2	18 mm thick	**sqm**	**1026.30**
	9.18.3	25 mm thick	**sqm**	**1363.40**

Code No.	Description		Unit	Rate Rs.
9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.			
	9.20.1	35 mm thick including stainless steel butt hinges with necessary screws-	sqm	2598.90
	9.20.2	30 mm thick including stainless steel butt hinges wirh necessary screws-	sqm	2474.40
	9.20.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	sqm	2213.10
9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type,core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:			
	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1602.70
	9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1602.70
	9.21.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	1540.70
9.22	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to I.S. 2202 (part I).			
	9.22.1	On one side only	sqm	423.40
9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (overall area of door shutter to be measured)		sqm	392.30
9.23A	Providing and fixing 25 mm thick shutters for cupboards etc.including black enamelled M.S. butt hinges with necessary screws :			
	9.23A.1	Panelled or panelled and glazed shutters		
	9.23A.1.	Second class teak wood	sqm	2381.20
	9.23A.2	Glazed shutters		
	9.23A.2.1	Second class teak wood	sqm	2543.60
9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glas excluded)			
	9.24.1	Rectangular or Square	sqm	174.30
	9.24.2	Circular	sqm	186.80
9.25	Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured)			
	9.25.1	Decorative type door	sqm	404.70

Code No.	Description		Unit	Rate Rs.
9.26	Extra for cutting rebate in flush door shutters {total area of the shutter to be measured)		**sqm**	**137.00**
9.27	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws:			
	9.27.1	35 mm thick shutters		
	9.27.1.1	With ISI marked M.S. pressed butt hinges bright finished of required size		
	9.27.1.1.1	Second class teak wood	**sqm**	**2934.30**
	9.27.1.1.2	Kiln seasoned and chemically treated hollock wood	**sqm**	**2122.10**
	9.27.1.1.3	Kiln seasoned selected class of shesham wood	**sqm**	**2882.50**
	9.27.1.2	With ISI marked stainless steel butt hinges of required size		
	9.27.1.2.1	Second class teak wood	**sqm**	**5637.20**
	9.27.1.2.2	Kiln seasoned and chemically treated hollock wood	**sqm**	**2229.10**
	9.27.1.2.3	Kiln seasoned selected class of sheesham wood	**sqm**	**2989.50**
	9.27.2	30 mm thick shutters		
	9.27.2.1	With ISI marked M.S. pressed butt hinges bright finished of required size		
	9.27.2.1.1	Second class teak wood	**sqm**	**2597.10**
	9.27.2.1.2	Kiln seasoned and chemically treated hollock wood	**sqm**	**1903.30**
	9.27.2.1.3	Kiln seasoned selected class of sheesham wood	**sqm**	**2549.10**
	9.27.2.2	With ISI marked stainless steel butt hinges of required size		
	9.27.2.2.1	Second class teak wood	**sqm**	**2704.10**
	9.27.2.2.2	Kiln seasoned and chemically treated hollock wood	**sqm**	**2010.20**
	9.27.2.2.3	Kiln seasoned selected class of sheesham wood	**sqm**	**2659.70**
9.31	Providing and fixing wire gauge laminated veneer lumber shutters conforming to IS : 14616, and as per TADS 15 :2001 (Part B) using galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm as per IS :1568 for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, as per directions of Engineer-in-charge:			
	9.31.1	35 mm thick shutters	**sqm**	**2403.90**
	9.31.2	30 mm thick shutters	**sqm**	**2403.90**
9.32	Providing 50x50x50 mm 2nd class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 coarse sand)		**Each**	**20.30**
9.33	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work / C.C / R.C.C. and making good etc. complete.			
	9.33.1	25mm long	**each**	**17.50**
	9.33.2	32 mm long	**each**	**20.00**
	9.33.3	40 mm long	**each**	**23.70**
	9.33.4	50 mm long	**each**	**24.90**

Code No.	Description		Unit	Rate Rs.
9.34	Providing and fixing 2nd class teak wood plain lining tongued and grooved, including wooden plugs complete with necessary screws and priming coat on unexposed surface.			
	9.34.1	40 mm thick	**sqm**	**4837.60**
	9.34.2	25 mm thick	**sqm**	**3139.90**
	9.34.3	20 mm thick	**sqm**	**2539.30**
	9.34.4	12 mm thick	**sqm**	**1633.80**
9.35	Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS : 12823 marked, including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete :			
	9.35.1	12 mm thick	**sqm**	**982.50**
	9.35.2	18 mm thick	**sqm**	**1135.90**
	9.35.3	25 mm thick	**sqm**	**1485.20**
9.36	Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.			
	9.36.1	Kiln seasoned and chemically treated hollock wood	**cum**	**100461.70**
9.37	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1),for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :			
	9.37.1	Decorative veneer facings of approved manufacture	**sqm**	**943.90**
9.38	Providing and fixing 4 mm thick coir veneer board, ISI marked IS : 14842, plain lining with necessary screws, priming coat on unexposed surface etc., complete.		**sqm**	**960.60**
9.39	Providing and fixing skirting with Pre-laminated (one side decorative and other side balancing lamination) flat pressed 3 layer or graded particle board (medium density) Grade I, Type II, IS :12823 marked, with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete :			
	9.39.1	18 mm thick	**sqm**	**1346.60**
	9.39.2	25 mm thick	**sqm**	**1698.50**
9.40	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete:			
	9.40.1	2nd class teak wood		
	9.40.1.1	50x12mm	**m**	**112.10**
	9.40.1.2	50x20mm	**m**	**149.70**
	9.40.2	Hollock wood		
	9.40.2.1	50x12mm	**m**	**88.70**
	9.40.2.2	50x20mm	**m**	**110.70**
9.41	Providing and fixing plain jaffri of 35x10 mm laths placed 35 mm apart (frames to be paid separately),including fixing 50x12 mm beading complete with :			

Code No.	Description		Unit	Rate Rs.
	9.41.1	Second class teak wood	**sqm**	**1696.10**
9.42	Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS : 3087 marked, including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plated M.S. pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.		**sqm**	**356.50**
9.43	Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842, including top cover of 6 mm coir veneer board, nickle plated M.S. Pipe 20 mm dia. (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. Flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete		**m**	**482.10**
9.44	Extra for using veneered particle board conforming to IS: 3097 Grade I, in item of pelmet 18 mm thick 150 mm wide.			
	9.44.1	Commercial veneered on both sides.	**m**	**35.90**
	9.44.2	Particle board with decorative veneering on both sides	**m**	**99.60**
9.45	Providing and fixing teak wood lipping of size 25x3 mm in pelmet.		**m**	**32.80**
9.46	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete:			
	9.46.1	12 mm dia	**m**	**290.00**
	9.46.2	20 mm dia metre	**m**	**383.30**
	9.76.3	25 mm dia metre	**m**	**495.40**
9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets:			
	9.47.1	20mm dia (heavy type)	**m**	**129.40**
	9.79A.2	25 mm dia (heavy type)	**m**	**136.90**
9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.			
	9.48.1	Fixed to steel windows by welding	**kg**	**114.20**
	9.48.2	Fixed to openings/ wooden frames with rawl plugs screws etc	**kg**	**122.90**
9.49	Providing and fixing expanded metal 20x60 mm strands 3.25 mm wide and 1.6 mm thick for windows etc. including 62 x19 mm beading of II nd class teak wood and priming coat with approved steel primer all complete.		**sqm**	**925.81**
9.50	Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.		**sqm**	**1078.60**

Code No.	Description		Unit	Rate Rs.
9.51	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.			
	9.51.1	With second class teak wood beading 62x19 mm	sqm	859.80
	9.51.2	with mild steel U beading	sqm	592.30
9.52	Deduct for fixing 75x25 mm hard drawn steel wire fabric of weight not less than 7.75 kg per sqm in panelled and glazed door and window shutter instead of glass sheet 4 mm thick.		sqm	142.00
9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts,nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)		Each	106.60
9.54	Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces,etc. complete with:			
	9.54.1	Sal wood	cum	81970.80
	9.88.3	Hollock wood	cum	48940.40
9.55	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete:			
	9.55.1	125x65x2.12 mm	each	34.50
	9.55.2	100x58x1.90 mm	each	26.30
	9.55.3	75x47x1.70 mm	each	20.40
	9.55.4	50x37x1.5mm	each	11.30
9.56	Providing and fixing ISI marked, IS : 1341, M.S. heavy weight butt hinges with necessary screws etc. complete :			
	9.56.1	125x90x4.00 mm	each	42.00
	9.56.2	100x75x3.50 mm	each	34.40
	9.56.3	75x60x3.10 mm	each	24.20
	9.56.4	50x40x2.50 mm	each	14.40
9.57	Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.			
	9.57.1	125x65x2.12 mm	each	34.80
	9.57.2	100x58x1.90 mm	each	26.90
	9.57.3	75x47x1.70 mm	each	21.00
	9.57.4	50x37x1.50 mm	each	11.90
9.58	Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary screws etc. complete:			
	9.58.1	150x125x27x2.80 mm	each	59.70
	9.58.2	125x125x27x2.80 mm	each	56.60
	9.58.3	100x125x27x2.80 mm	each	46.70
	9.58.4	75x100x20x2.24 mm	each	39.80

Code No.	Description		Unit	Rate Rs.
9.59	Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc.complete:			
	9.59.1	150 mm	each	205.80
	9.59.2	125 mm	each	180.90
	9.59.3	100 mm	each	154.60
9.60	Providing and fixing oxidised M.S. double acting spring hinges with necessary screws etc. complete.			
	9.60.1	150 mm	each	230.70
	9.60.2	125 mm	each	205.80
	9.60.3	100 mm	each	179.50
9.61	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.			
	9.61.1	Overall width 35 mm	m	160.10
	9.61.2	Overall width 50 mm	m	156.40
	9.61.3	Overall width 65 mm	m	172.50
9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :			
	9.62.1	300x16 mm	Each	162.40
	9.62.2	250x16 mm	Each	148.70
9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:			
	9.63.1	250x10 mm	each	67.20
	9.63.2	200x10 mm	each	53.30
	9.63.3	150x10 mm	each	45.80
	9.63.4	100x10 mm	each	32.60
9.64	Providing and fixing ISI marked 85x42mm oxidised M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete.		each	80.20
9.65	Providing and fixing ISI marked oxidised MS door latches conforming to IS : 5930 with screws etc.complete.			
	9.65.1	300x20x6 mm	each	72.20
	9.65.2	250x20x6 mm	each	59.70
9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS :4992 with necessary screws etc. complete:			
	9.66.1	125 mm	each	29.90
	9.66.2	100 mm	each	23.40
	9.66.3	75 mm	each	19.70
9.67	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete:			
	9.67.1	150 mm	each	23.60
	9.67.2	115 mm	each	20.60
	9.67.3	90 mm	each	16.90
9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc.complete.			
	9.68.1	300 mm weighing not less than 200 gms	each	31.70
	9.68.2	250 mm weighing not less than 150 gms	each	27.30
	9.68.3	200 mm weighing not less than 120 gms	each	23.60
9.69	Providing and fixing oxidised M.S. Safety chain with necessary fixtures for doors, (weighting not less than 450 gms).		each	81.80

Code No.	Description		Unit	Rate Rs.
9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc.complete:			
	9.70.1	125x64x1.90 mm	each	66.50
	9.70.2	100X58X1.90 mm	each	58.80
	9.70.3	75x47x1.80 mm	each	41.30
	9.70.4	50x37x1.50 mm	each	25.60
9.71	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete:			
	9.71.1	125x64x2.50 mm	each	76.40
	9.71.2	100x60x2.50 mm	each	60.00
	9.71.3	75x50x2.50 mm	each	46.90
9.72	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete:			
	9.72.1	125x85x5.5 mm (heavy type)	each	217.60
	9.72.2	125x70x4 mm (ordinary type)	each	143.90
	9.72.3	100x85x5.5 mm (heavy type)	each	171.00
	9.72.4	100x70x4 mm (ordinary type)	each	114.60
	9.72.5	75x65x4 mm (heavy type)	each	139.20
	9.72.6	75x40x2.5 mm (ordinary type)	each	74.50
	9.72.7	50x40x2.5 mm (ordinary type)	each	31.20
9.73	Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete:			
	9.73.1	150x125x27x5mm	each	402.30
	9.73.2	125x125x27x5mm	each	352.50
	9.73.3	100x125x27x5mm	each	327.60
	9.73.4	75x100x20x3.2mm	each	283.80
9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete:			
	9.74.1	250x10mm	each	334.40
	9.74.2	200x10mm	each	268.20
	9.74.3	150x10mm	each	206.00
	9.74.4	100x10mm	each	140.20
9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete:			
	9.75.1	300x16x5mm	each	241.70
	9.137.2	250x16x5mm	each	229.30
9.76	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.		each	572.20
9.77	Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles of approved quality with necessary screws etc. complete		each	460.10
9.78	Providing and fixing bright finished brass night latch of approved quality including necessary screws etc. complete.		each	827.50

Code No.	Description		Unit	Rate Rs.
9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.			
	9.79.1	40 mm	each	151.30
	9.79.2	50 mm	each	186.20
	9.79.3	65 mm	each	192.40
	9.79.4	75 mm	each	211.10
9.80	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with		each	50.60
9.81	Providing and fixing bright finished brass handles with screws etc. complete:			
	9.81.1	125 mm	each	182.70
	9.81.2	100 mm	each	169.80
	9.81.3	75 mm	each	132.50
9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc.		each	91.70
9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.		each	429.50
9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.		each	401.40
9.85	Providing and fixing bright finished brass· casement window fastener with necessary screws etc.complete.		each	72.00
9.86	Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete:			
	9.86.1	300 mm weighing not less than 330 gms	each	179.90
	9.86.2	250 mm weighing not less than 280 gms	each	146.80
	9.86.3	200 mm weighing not less than 240 gms	each	134.30
9.87	Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc.complete:			
	9.87.1	150 mm	each	111.20
	9.87.2	115 mm	each	93.30
	9.87.3	90 mm	each	82.10
9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.		each	703.00

Code No.	Description		Unit	Rate Rs.
9.89	Providing and fixing chromium plated brass night latch of approved quality including necessary screws etc. complete.		each	759.00
9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.			
	9.90.1	Size 40 mm	each	156.30
	9.90.2	Size 50 mm	each	168.70
	9.90.3	Size 65 mm	each	198.60
	9.90.4	Size 75 mm	each	229.80
9.91	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.		each	112.90
9.92	Providing and fixing chromium plated brass handles with necessary screws etc. complete:			
	9.92.1	125 mm	each	226.30
	9.92.2	100 mm	each	194.70
	9.92.3	75 mm	each	169.80
9.93	Providing and fixing chromium plated brass casement window fastener with necessary screws etc.complete.		each	132.60
9.94	Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete :			
	9.94.1	300 mm weighing not less than 330 gms	each	201.00
	9.94.2	250 mm weighing not less than 280 gms	each	176.10
	9.94.3	200 mm weighing not less than 240 gms	each	157.50
9.95	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :			
	9.95.1	125x75x4 mm	each	123.70
	9.95.2	125x63x4 mm	each	102.50
	9.95.3	100x75x4 mm	each	90.80
	9.95.4	100x63x4 mm	each	82.10
	9.95.5	100x63x3.2 mm	each	75.20
	9.95.6	75x63x4 mm	each	63.40
	9.95.7	75x63x3.2 mm	each	57.20
	9.95.8	75x45x3.2 mm	each	53.50
9.96	Providing and fixing aluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete:			
	9.96.1	300x16 mm	each	220.40
	9.96.2	250x16 mm	each	195.50

Code No.	Description		Unit	Rate Rs.
9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with necessary screws etc. complete:			
	9.97.1	300x10 mm	each	105.20
	9.97.2	250x10 mm	each	173.30
	9.97.3	200x10 mm	each	79.80
	9.97.4	150x10 mm	each	67.80
	9.97.5	100x10 mm	each	51.60
9.98	Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.		each	67.80
9.99	Providing and fixing 50 cm long aluminium kicking plate of size 100x3.15 mm, anodised (anodic coating not less than grade AC 10 as per IS :1868), transparent or dyed to required colour or shade, with necessary screws etc. complete.		each	196.20
9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:			
	9.100.1	125 mm	each	54.00
	9.100.2	100 mm	each	47.50
	9.100.3	75 mm	each	40.90
9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.			
	9.101.1	Single rubber stopper	each	29.20
	9.101.2	Twin rubber stopper	each	40.40
9.102	Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.		each	51.60
9.103	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete .		each	642.90
9.104	Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod.		m	69.80

Code No.	Description		Unit	Rate Rs.
9.105	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/ sqm(both side inclusive), consisting of floor and ceiling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.			
	9.105.1	75 mm overall thickness partition with 12.5 mm thick double skin fire rated board conforming to IS:2095: part I	**sqm**	**1294.10**
	9.105.2	75 mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum board conforming to IS: 2095: part I	**sqm**	**1157.40**
	9.105.3	66 mm overall thickness Partition with 8 mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process with Compressive Strength 225 kg/sq cm, Bending Strength 100 kg/ sq cm	**sqm**	**1294.40**
	9.105.4	66 mm overall thickness partition using 8 mm thick double skin non- asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (High pressure steam cured) as per IS: 14862 with suitable fibre cement screws	**sqm**	**1207.20**
9.106	Providing and fixing PTMT handles with necessary screws etc. complete.			
	9.106.1	125x34x24 mm weighing not less than 23 gms	**each**	**36.10**
	9.106.2	150x34x24 mm weighing not less than 26 gms	**each**	**36.10**
9.107	Providing and fixing PTMT Butt hinges with necessary screws etc. complete.			
	9.107.1	75x60x10 mm fitted with 5.5 mm dia M.S. Bright Bar Rod weighing not less than 34 gms	**each**	**56.50**
	9.107.2	100x75x10 mm fitted with 5.5 mm dia MS Bright Bar Rod weighing not less than 53 gms	**each**	**71.70**

Code No.	Description		Unit	Rate Rs.
9.108	Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc.,			
	9.108.1	152x42x18 mm weighing not less than 60 gms	each	69.90
	9.108.2	202x42x18 mm weighing not less than 78 gms	each	96.90
9.109	Providing and fixing PTMT door catcher of length 72 mm and dia. of 42 mm with suitable washers weighing not less than 33 gms.		each	34.10
9.110	Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25 mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of hallock wood in scantling of section 50X25 mm, fixed with nails and G.I wire on existing support, complete as per direction of Engineer-in-Charge.		sqm	438.20
9.111	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.			
	9.111.1	50x50 mm (base and height)	m	188.50
9.112	Providing and fixing 2nd class teak wood lipping / moulded beading or taj beading of size 18X5 mm fixed with wooden adhesive of approved quality and screws / nails on the edges of the Pre-laminated particle board as per direction of Engineer-in-Charge.		m	62.30
9.113	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineerin- charge.		each	482.70
9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete .			
	9.114.1	Triple strip vertical type	each	31.20
	9.114.2	Double strip (horizontal type)	each	23.70
9.115	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer-in-charge.		each set	215.60
9.116	Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by with stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)		each	13.70
9.117	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ±1mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge			

Code No.		Description	Unit	Rate Rs.
	9.117.1	Extruded section profile size 48x40 mm	m	223.90
	9.117.2	Extruded section profile size 42x50 mm	m	211.50
9.118	Providing and fixing to existing door frames.			
	9.118.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	sqm	1883.40
	9.118.2	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-incharge.	sqm	2041.60

Code No.	Description		Unit	Rate Rs.
	9.118.3	25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. An M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places.	sqm	2263.20
9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm,made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.		m	462.00
9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S.frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick,95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.			
	9.120.1	30 mm thick plain PVC door shutters	sqm	2920.80
	9.120.2	30 mm thick pre laminated PVC door shutters	sqm	3418.90

Code No.	Description		Unit	Rate Rs.
9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness.The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat . Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.		m	437.10
9.122	Providing and fixing to existing door frames.			
	9.122.1	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	sqm	2298.20
	9.122.2	30 mm thick Fiber glass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	sqm	2671.80
9.123	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement , including fixing the frame to wall with suitable dia & length		m	399.80

Code No.	Description		Unit	Rate Rs.
9.124	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mmx 1mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8mm complete as per manufacturer's specifications and direction of Engineer-in-charge.			
	9.124.1	Non decorative finish	**sqm**	**2671.80**
	9.124.2	Decorative finish (both side wood grained finish)	**sqm**	**2796.30**
9.125	Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C.doors) using synthetic rubber based adhesive.		**sqm**	**798.30**
9.126	Providing and fixing 12 mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick.			
	9.126.1	Marine plywood conformingto IS : 710	**sqm**	**1403.40**
	9.126.2	Fire retardant plywood conforming to IS : 5509	**sqm**	**1601.20**
9.127	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.			
	9.127.1	1.5 mm thick	**sqm**	**883.60**
	9.127.2	1.0 mm thick	**sqm**	**541.20**

Code No.	Description	Unit	Rate Rs.
9.128	Providing and fixing factory made Fiber glass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS : 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS : 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight.	sqm	4489.50
9.129	Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS : 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge.	sqm	1639.70
9.130	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked,exterior grade (Grade I), of approved make including IInd class teak wood lipping of 25 mm wide x 12mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.		
	9.130.1 With decorative veneering on one side and commercial veneering on other side	sqm	1403.10
	9.130.2 With non decorative veneering on both sides	sqm	1291.00
9.131	Providing and fixing factory made shutters of pre-laminated particle board flat pressed three layer or graded wood particle board with one side decorative finish and other side balancing lamination conforming to IS : 12823 Grade I Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading all-round the shutter, including fixing with angle cleat, grip strip, cadmium plated steel screws, including fixing of aluminium hinges 100x63x4mm etc. complete as per architectural drawing and direction of Engineer-in-Charge (Cost of 'U'beading and hinges will be paid for separately).		
	9.131.1 25 mm thick	sqm	1331.80
9.132	Providing and fixing aluminum U beading of required size to Pre laminated / flush door shutter, including fixing etc. complete as per direction of Engineer-in-Charge.	Per Kg	489.20

Code No.	Description		Unit	Rate Rs.
9.133	Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55 mm thick) having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm, placed @ 610 mm C/C in perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm.Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610 mm C/C with fully threaded self-tapping dry wall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200 mm C/C., all complete as per the drawing & directions of engineer-incharge, the joints of the boards are finished with specially formulated jointing compound and 48 mm wide jointing tape to provide seamless finish.			
	9.133.1	Tapered edge calcium silicate board made with calcareous & siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with compressive strength 225 kg/sqcm, Bending strength 100 kg/sqcm.		
	9.133.1.1	10 mm thick	sqm	990.00
	9.133.2	Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS :14862 with suitable fibre cement screw		
	9.133.2.1	8 mm thick	sqm	736.50
	9.133.3	Gypsum board conforming to IS: 2095 Part - I		
	9.133.3.1	12.5 mm thick	sqm	709.10
9.134	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws:			
	9.134.1	35 mm thick shutters		
	9.134.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
	9.134.1.1.1	Second class teak wood	sqm	3247.50
	9.134.1.1.2	Kiln seasoned and chemically treated hollock wood	sqm	2435.00
	9.134.1.1.3	Kiln seasoned selected class of sheesham wood	sqm	3195.60
	9.134.1.2	With ISI marked stainless steel butt hinges of required size		
	9.134.1.2.1	Second class teak wood	sqm	3354.50
	9.134.1.2.2	Kiln seasoned and chemically treated hollock wood	sqm	2542.20
	9.134.1.2.3	Kiln seasoned selected class of sheesham wood	sqm	3302.60
	9.134.2	30 mm thick shutters	sqm	
	9.134.2.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
	9.134.2.1.1	Second class teak wood	sqm	2910.80
	9.134.2.1.2	Kiln seasoned and chemically treated hollock wood	sqm	2216.80
	9.134.2.1.3	Kiln seasoned selected class of sheesham wood	sqm	2866.40
	9.134.2.2	With ISI marked stainless steel butt hinges of required size		

Code No.	Description		Unit	Rate Rs.
	9.134.2.2.1	Second class teak wood	sqm	3017.80
	9.134.2.2.2	Kiln seasoned and chemically treated hollock wood	sqm	2323.90
	9.134.2.2.3	Kiln seasoned selected class of sheesham wood	sqm	2973.40
9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.50 mm all complete.			
	9.135.1	With 2nd class teak wood beading 62X19 mm	sqm	1392.70
	9.135.2	With 12 mm mild steel U beading	sqm	1125.30
9.136	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/sqm) duly filled with vermuculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumuscent fire seal strip of size 10x4 mm (minimum) alround the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately).		m	1343.00
9.137	Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/ m2) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-incharge (panneling to be paid for separately).		sqm	5734.40
9.138	Providing and fixing glazing in fire resistant door shutters, fixed panels, ventilators and partitions etc.,with G.I. beading of appropriate size, made out of 20 SWG G.I.sheet (zinc coating not less than 120 gm/m2), fire resistant sealant, including applying a coat of approved fire resistant primer on G.I. beading etc., complete all as per direction of Engineer-in-charge.			
	9.138.1	With clear fire resistant glass panes 6 mm thick of approved brand, having minimum 60 minutes fire resistance	sqm	29382.70
9.139	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on backside of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge,all complete.		Each	6561.90
9.140	Providing and fixing plain lining with necessary screws/nuts & bolts/nails, including a coat of approved primer on one face, and fixed on wooden			
	9.140.1	12 mm thick commercial ply conforming to IS : 1328 BWR type	sqm	1109.90

Code No.	Description	Unit	Rate Rs.
9.141	Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (± 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self taping screws,the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.	m	650.70
9.142	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded soild PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mmx 35 mm x 5 mm,out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel,all complete as per manufacturer's specification and direction of Engineer-in-charge.		
	9.142.1 Non decorative finish (matt finish)	sqm	2868.60
	9.142.2 Decorative finish (wood grained finish)	sqm	3429.00
9.143	Providing and Fixing factory made uPVC door frame, made of uPVC exturded sections, of size 65 mm x 55 mm with wall thickness 2.0 mm (± 0.2 mm) , corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (±0.2 mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fastners, all complete as per manufacturer's specification and direction of Engineer-in-charge.	m	448.10

Code No.	Description	Unit	Rate Rs.
9.144	Providing and fixing 37 mm thick factory made PVC door shutter, styles and rails made of PVC hollow section of size 100 mm x 37 mm with wall thickness 2 mm (± 0.2 mm), with inbuilt bead on one side, styles and rails mitered cut and joint at the corners by means of 2 nos of plastic brackets of size 75 mm PVC profile of size 28 mm x 30 mm, with wall thickness 2 mm (± 0.2 mm). Lockrail of size 100 mm x 37 mm, wall thickness 2 mm (± 0.2 mm) will be fixed to the vertical styles. Providing with PVC snapfit beads and panel of size 100 mm x 20 mm, and inserting 2 nos tie bar of 6 mm dia and fastening with nuts and washers complete, all as per manufacturer's specification and direction of Engineer-incharge.	sqm	3134.90
9.145	Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (± 0.2 mm). Both verticals sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (± 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineer-incharge.	m	497.90
9.146	Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-incharge.	sqm	3384.00

Code No.	Description		Unit	Rate Rs.
9.147 A	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately) Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance		sqm	
	9.147 A1	Casement window single panel with S.S. friction hinges (300 x 19 x 1.9 mm), made of (small series) frame 47 x 50 mm & sash 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glass pane glazing bead of appropriate dimension. (Area of window upto 0.75 sqm.)	sqm	8385.90
	9.147 A2	Casement window double panels with S.S. friction hinges (300 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window above 0.75 sqm upto 1.50 sqm).	sqm	7683.00
	9.147A.3	Casement window double panels with top fixed with S.S. friction hinges (350 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 2.50 sqm).	sqm	6106.40
	9.147A.4	Casement window single panel with S.S. friction hinges (400 x 19 x 1.9 mm) made of (big series)frame 67 x 60 mm & sash 67 x 80 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 0.75 sqm.)	sqm	8555.10

Code No.	Description		Unit	Rate Rs.
	9.147A.5	Casement window double panels with S.S. friction hinges (350 x 19 x 1.9 mm) made of (big series)frame 67 x 60 mm & sash / mullion 67 x 80 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead/ double glazing bead of appropriate dimension. (Area of window above 1.50 sqm	sqm	8901.90
	9.147A.6	Casement cum fixed panel window having both end single casement panel, middle fixed panels and at top completely fixed ventilator with S.S friction hinges (350 x 19 x 1.9) made of (big series) frame 67 x 60 mm , sash 67 x 80 mm , & mullion 67 x 80 mm all having wall thickness of 2.3 ± 0.2 mm and single glazing bead/double glazing bead of appropriate dimension. (Area of window above 3.00 sqm upto 5.00 sqm).	sqm	6577.40
9.147B	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.			
	9.147B.1	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)	sqm	5705.00

Code No.	Description		Unit	Rate Rs.
9.147C	Providing and fixing factory made uPVC white colour casement/ Casement cum fixed glazed door comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealent shall be paid separately). Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.			
	9.147C.1	Casement door with 3D hinges made of (big series) frame 67 x 64 mm & sash 67 x 110 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door upto 2.00 sqm)	sqm	8293.10
	9.147C.2	Casement door with top hung ventilator with 3D and S.S. friction hinges (400 x 19 x 1.9 mm) made of (big series) frame 67 x 64 mm, sash 67 x 110 mm & mullion 67 x 80 mm all having wall thickness of 2.3 ±. 0.2 mm and single glazing bead / double glazing bead of appropriate dimension.(Area of door upto 2.50 sqm)	sqm	8456.40

Code No.	Description		Unit	Rate Rs.
9.147D.1	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately) Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.			
	9.147D.1	Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 sqm)	**sqm**	**5883.60**
	9.147D.2	Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).	**sqm**	**7905.80**
	9.147D.3	Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).	**sqm**	**6111.40**
	9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	**sqm**	**7646.50**
	9.147D.5	Three track three panels sliding window made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm)	**sqm**	**7248.10**

Code No.	Description		Unit	Rate Rs.
9.147E	Providing and fixing factory made uPVC white colour sliding glazed window above 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads, uPVC extruded interlocks and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking having transmission gear with keeps, zinc alloy (white powder coated) touch lock with hook (if required for wire mesh panel), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately). Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.			
	9.147E.1	Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 2.50 sqm upto 4.00 sqm.)	sqm	5785.50
	9.147.1E-2	Two track four panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 4.00 sqm upto 8.00 sqm).	sqm	5095.80

Code No.		Description	Unit	Rate Rs.
	9.147F	Providing and fixing factory made uPVC white colour sliding glazed door comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension uPVC extruded glazing beads, uPVC extruded interlock and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle with key on one side of extreme panels along with zinc plated mild steel multi point locking having transmission gear with keeps, zinc alloy (white powder coated) cresent lock (if required), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in- Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately). Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.		
	9.147F.1	Two track two panels sliding door made of (big series) frame 67 x 50 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm upto 5.00 sqm)	sqm	5482.40
	9.147F.2	Two track four panels sliding door made of (big series) frame 67 x 50 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 8.00 sqm upto 10.00 sqm).	sqm	4674.20
	9.147F.3	Three track three panels sliding door made of (big series) frame 116 x 45 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead/ double glazing bead of appropriate dimension. (Area of door above 5.00 sqm)	sqm	5347.40
	9.147F.4	Three track three panels sliding door with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm upto 5.00 sqm)	sqm	6873.70
9.148	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/ top hung uPVC windows,of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-incharge.			
	9.148.1	200 x 19 x 1.9 mm	each	255.50

Code No.	Description		Unit	Rate Rs.
	9.148.2	250 x 19 x 1.9 mm	**each**	**286.70**
	9.148.3	300 x 19 x 1.9 mm	**each**	**305.40**
	9.148.4	350 x 19 x 1.9 mm	**each**	**411.20**
	9.148.5	400 x 19 x 1.9 mm	**each**	**448.60**
9.149	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.		**each**	**158.80**
9.150	Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.		**each**	**131.40**
9.151	Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.		**each**	**75.40**
9.152	Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.		**each**	**119.00**
9.153	Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.		**each**	**143.90**
9.154	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube,placed along the walls, ceiling and floor in a grid pattern with spacing @bolt, including making provision for opening for doors, windows, electrical conduits, switch boards 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.		**Per Kg**	**1097.40**
9.155	Providing and fixing panelling or paneling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel grooves or rebated to be measured). Panelling for panelled and glazed shutters 25mm to 40mminserts excluding portion inside thick:Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587		**sqm**	**1112.30**
9.156	Providing and fixing Pre -laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately).			
	9.156.1	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	**sqm**	**716.40**
	9.156.2	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	**sqm**	**897.70**

Code No.	Description		Unit	Rate Rs.
9.157	Providing and fixing Pre-laminated medium density fibre board IS: 14587:1998 marked, with one side decorative lamination other side balancing lamination Grade-I(exterior grade) in shelves with screws and fittings wherever required, edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand (fittings to be paid separately).			
	9.157.1	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	**sqm**	**1062.80**
	9.157.2	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	**sqm**	**1458.70**
9.158	Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-laminated one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. complete.			
	9.158.1	12 mm thick.	**sqm**	**768.10**
	9.158.2	18 mm thick.	**sqm**	**946.10**
	9.158.3	25 mm thick.	**sqm**	**1357.10**
9.159	Providing and fixing 25mm thick pre-laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked one side decorative and other side balancing lamination for cupboard shutters edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand including ISI marked nickeled plated bright finishing M.S. piano hinges IS:3818 marked with necessary screwed complete.		**sqm**	**1521.90**
9.160	Providing and fixing skirting with Pre-laminated medium density fibre board exterior grade (Grade-I) IS: 14587:1998 marked, (one side decorative and other side balancing lamination) with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand complete.			
	9.160.1	18 mm thick.	**sqm**	**1343.70**
	9.160.2	25 mm thick.	**sqm**	**1754.60**
9.161	Providing and fixing fire resistant door frame of section 50 x 60 mm on horizontal side & 35 x 60 mm on vertical sides having built in rebate made out of 1.6 mm thick GI sheet (Zinc coating not less than 120gm/m²) suitable for mounting 120 min Fire Rated Glazed Door Shutters. The frame shall be filled with Mineral wool Insulation having density min 96Kg/m³ . The frame will have a provision of G.I. Anchor fastners 14 nos (5 each on vertical style & 4 on horizontal style of size M10 x 80) suitable for fixing in the opening along with Factory made Template for SS Ball Bearing Hinges of Size 100x89x3mm for fixing of fire rated glazed shutter . The frame shall be finished with a approved fire resistant primer or Powder coating of not less than 30 micron in desired shade as per the directions of Engineer - in- charge . (Cost of SS ball bearing hinges is excluded).		**metre**	1340.50

Code No.	Description		Unit	Rate Rs.
9.162	Providing and fixing 60 mm thick glazed fire resistant door shutters of 120 min Fire Rating confirming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6mm thick G.I. sheet (zinc coating not less than 120gm/m²) duly filled mineral wool insulation having density min 96 kg/m³ and fixing with necessary stainless steel ball bearing hinges of size 100x89x3mm of approved make, including applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Engineer-in-charge (panelling to be paid for seperately).		sqm	7362.20
9.163	Providing and fixing non load bearing fixed frame for fire resistant glazed Partition for 120 min Fire Rating, made out to a profile of dimension 60mm x 70 mm of 1.6 mm thick galvanised steel sheet as per test evidence suitable for fixing fire rated glass for 120 min of both integrity & radiation control (EW120) & minimum 15 min of insulation (EI15).The profile has to be fixed to the supporting construction by means of anchor fasteners of size M10 x 80, every 150 mm from the edges and every 500 mm (approx) c/c. Linear meaurement of frame shall be measured for payment. The frame shall be filled with mineral wool insulation of density min 96kg/m³. and finished with a approved fire resistant primer or Powder coating of not less than 30 micron in desired shade as per the directions of Engineer - in-charge.		sqm	1340.50
9.164	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/m²) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c , including applying a coat of approved fire resistant primer/powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per direction of Engineer-in- charge. The glass shall be clear, toughened, interlayered, non-wired fire resistant having 11 mm thickness of approved brand with 120 minutes of fire resistance both integrity & radiation control (EW120) and minimum 15 min of insulation (EI15) and having a sound reduction of ?37dB and LT of 86%. Glass shall be compliant to class 2(B)2 category of Impact Resistance as per EN 12600. The glass should be manufactured in UL & TUV audited Facility and including UL-EU Certification.The maximum glazing size cannot be more than 1100 mm x 2200 mm (w x h) or 2.42 sq mts in total area. The test report for the complete system (Glazed Door or Partition) will be considered valid only if it contains the stamp and signature of the authorized signatory from the glass manufacturer. (Actual glass size is to be measured at site for payments).		sqm	36534.30
9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.			
	9.165.1	125 mm	each	101.30
	9.165.2	100mm	each	74.60
	9.165.3	75 mm	each	47.80

10.0 Steel work

Code No.	Description		Unit	Rate Rs.
10.1	Structural steel work in singal section fixed without connecting plate including cutting.hoisting,fixing in position and applying a priming coat of approved steel primer all complete.		**kg**	**68.20**
10.3	Structural steel work riveted or bolted in built up sections, trusess and framed work, including cutting,hoisting,fixing in position and applying a priming coat of approved ateef primer all complete.		**kg**	**70.60**
10.5	Providing and fixing in position collapsible steel shutters with vertical channes 20x10x2 mm and braced with flat iron diagonals 20x5 mm size with top and bottom rail of T-tron 40x40x6 mm with 40 mm dia steel pulleys complete with bots.nuts locking arrangement stoppers handies including applying a priming coat of approved steel primer.		**sqm**	**5089.50**
10.6	Providing and fixing 1 mm thick M.S.sheet sliding - shutters with frame and diagonal braces of 40x40x6 mm angle iron,3 mm M.S. gusset plates at the junction and corners, 25 mm dia pulley, 40x40x6 mm angle and T-iron guide at the top bottem respectively including applying a priming coat of approved steel primer.		**sqm**	**3369.20**
10.7	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3mm MS gusset plates at the junction and corners.all necessary fittings completejncluding applying a priming coat of approved steel primer.		**sqm**	**2892.30**
	10.7.1	Using flats 30x6 mm for diagonal braces and central cross piece.	**sqm**	**2721.10**
10.8	Supplying and fixing-rolling shuters of approved make.made of required size of M.S.laths inter locked together through their intire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arragements for inside and outside locking with push and pull operation complete including the cost of prioviding and fixing necessary 27.5 cm long wire springs grade no. 2 and M.S. top cover of required thickness for rolling shutters.			
	10.8.1	80x1.25mmM.S. Laths with 1.25mm thick top cover.	**sqm**	**2394.00**
	10.8.2	80x1.20mm thick M.S. laths with 1.20 mm thick top cover.	**sqm**	**1885.10**
	10.8.3	80x0.90 mm thick M.S. laths with 0.90 mm thick top cover.	**sqm**	**1752.30**
10.9	Providing and fixing ball bearing for rolling shutters		**sqm**	**413.50**
10.1	Extra for providing mechanical device chain and crank operation for operating rolling shutters:			
	10.10.1	Exceeding 10.00 sqm and upto 16.80 sqm in area (say average 14 sqm)	**sqm**	**779.70**
	10.10.2	Exceeding 16.80 sqm in area	**sqm**	**779.70**
	10.10A	Extra for providing grilled rolling shutters manufactured out of 8 mm dia. M.S. bar instead of laths as per design approved by Engineer-in-charge (area of grill to be measured.)	**sqm**	**336.20**

Code No.	Description		Unit	Rate Rs.
10.11	Fixing standard steel glazed doors, windows and ventilators in walls with 15x3 mm lugs 10 cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6(1 cement: 3 coarse sand : 6 gradded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required , including fixing of glass panes with glazing cfips and special metal-sash putty of approved make, or metal beading with screwsfonly steel windows with lugs, glass panes screws, shall be supplied by department free of cost)		**Kg**	**38.90**
10.11.1	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).		**kg**	**19.80**
10.12	Providing and fixing steel glazed doors, windows and ventilators of standard rolled steel sections, joints mitered and welded with 15x3 mm lugs 10 cm long with steel lugs embedded in cement concrete blocks 15x10x10 cm of 1:3:6(1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws *or* with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal-sash putty of approved make complete including applying a priming coat of approved steel primer; excluding the cost of metal beading and other fitting except necessary hinges or pivots as required.			
	10.12.1	**Doors**	**sqm**	**2973.30**
10.13	Extra for providing and fixing steel beading of approved shape and section with screws instread of glaxing clips and met. Sash putty in steel doors, windows, Ventilators and comosite units.			
	10.13A	Steel doors.	**sqm**	**307.70**
	10.13B	Steel windows	**sqm**	**367.00**
	10.13C	Steel ventilators	**sqm**	**374.70**
10.14.1	Providing and fixing T-iron frames for doors. windows and ventilators of mils steel Tee-sections, joints miltred and welded with 15x3 mm lugs 10 cm long embedded in cement concerete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including		**kg**	**85.60**
	10.14.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).	**kg**	**82.50**
10.15	Providing and fixing pressed steel door confirming IS code 4351 manufactured from commerical mild steel sheet of 1.25 mm thickness including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50 x 25 mm or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by . mechnical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:			
	10.15.1	Profile B	**metre**	**361.60**
	10.15.2	Profile C	**metre**	**386.60**
	10.15.3	Profile E	**metre**	**423.90**

Code No.	Description		Unit	Rate Rs.
10.16	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coar of approved steel primer, welded and bolted including special shaped washers etc. complete:			
	10.16.1	Hot finished welded type tubes	**kg**	**88.60**
	10.16.2	Hot finished seamless type tubes	**kg**	**92.50**
	10.16.3	Electric resistance or induciton butt welded tubes	**kg**	**113.10**
10.17	Providing and fixing M.S.fan clamp type I or II of 16 mm dia.M.S. bar bent to shape with hooked ends in R.C.C slabs during laying including painting the exposed portion of loop,all as per standard design complete.		**each**	**137.70**
10.18	Providing and fixing circular/hexagonal cast iron or M.S sheet box for ceiling fan clamp 140 mm internal dia, 73 mm height, 5 mm thick rim bottom and top lids, 1.5 mm thick M.S sheet with its top surface hacked for proper bonding top lid shall be screwed into the cast iron box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamps shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.		**each**	**141.30**
10.19	Providing and fixing M.S. round holding down bolts with nuts and washer plates complete.		**kg**	**71.50**
10.20(a)	providing and fixing bolts upto 300 mm in length		**kg**	**92.50**
10.20(b)	providing and fixing bolts above 300 mm in length		**kg**	**94.30**
10.21	Providing and fixing M.S. rivets of sizes in position.		**kg**	**129.70**
10.22(a)	Welding by gas plant including tranportation of gas		**cm**	**3.10**
10.22(b)	Welding by electric plant incluidng transportation of electric welding plant at site etc. complete.		**cm**	**3.20**
10.28	Providing and fixing bright finished brass casement window fastners of minimum weight 200 gms to side hung steel windows with necessary welding and machine screws etc. complete.		**each**	**74.20**
10.29	Providing and fixing bright finished brass peg stays 300 mm long of minimum weight 330 gms.to side hung steel windows with necessary welding and machine screws etc. complete.		**each**	**180.10**
10.30	Providing and fixing bright finished brass peg stays to steel ventilators with necessary welding and machine screws etc. complete.			
	10.30.1	300 mm long of minimum weight of 330 grams.	**each**	**180.10**
	10.30.2	250 mm long of minimum weight of 240 grams.	**each**	**148.90**
10.31	providing and fixing 14 mm bright finished brass		**each**	**261.00**
10.32	Steel work welded in built up sections/framed worK including cutting hoisting, rixing in position **and**applying a priming coat of approved steel primer using structural steel, etc. as required.			
	10.32.1	In stringers, treads landings etc. of stair cases including use of required plates wherever required all complete.	**kg**	**75.50**
	10.32.2	In gratings, frames, guard bar, ladders, railings, brackts. gates & similar works.	**kg**	**88.80**
10.33	Providing and fixing hand rail by welding etc. to steel ladder railings & staircases railing including applying a priming coat of approved steel primer			
	10.33.1	MS tube (medium) 40mm nominal bore	**kg**	**87.80**

Code No.	Description		Unit	Rate Rs.
	10.33.2	E.R.W tube 40 mm nominal dia	**kg**	**117.60**
	10.33.3	G.I pipes 40 mm nominal bore (class B)	**kg**	**99.60**
10.33.4	Labour for fitting and fixing barbed wire fencing in six rows horizontal up to a height of 1.85m and two diagonals including fixing of post in cement concrete at 2.5m centres including cost of staples (but excluding the cost of cement concrete, angle, iron post, its cutting and making holes, nuts & bolts) all complete as per building specification and direction of E/I.		**Per m**	**61.80**
10.33.5	Labour for fitting and fixing barbed wire fencing in FOUR rows horizontal up to a height of 1.25m and two diagonals including fixing of post in cement concrete at 2.5m centres including cost of staples (but excluding the cost of cement concrete, angle, iron post, its cutting and making holes, nuts & bolts) all complete as per building specification and direction of E/I.		**Per m**	**43.50**
10.33.6	Drilling 6mm Dia. In M.S. angle iron for fixing of staples etc. as per building specification and direction of E/I.		**Each**	**7.50**
10.33.7	Labour for cutting of M.S. angle iron post to required length, one end splitted as fish tailed in a length of 150mm complete as per building specification and direction of E/I.		**Each**	**23.40**
10.35	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve,including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.			
	10.35.1	10 x60 mm.	**each**	**64.70**
	10.35.2	10 x80 mm.	**each**	**69.70**
	10.35.3	10 x120 mm.	**each**	**85.30**
	10.35.4	10 x140 mm.	**each**	**97.10**
	10.35.5	10 x160 mm.	**each**	**118.90**
10.36	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes,channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).		**kg**	**496.00**
10.37	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.			
	10.37.1	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides.	**sqm**	**384.30**
	10.37.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides.	**sqm**	**833.80**
10.38	Providing & fixing glass panes with putty and glazing clips in steel doors,windows, clerestory windows all complete with.			

Code No.	Description		Unit	Rate Rs.
	10.38.1	4.0 mm thick glass panes.	sqm	748.30
	10.38.2	5.5 mm thick glass panes.	sqm	1027.80
10.39	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side / top / centre hung, with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer , but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).			
	10.39.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	kg	115.60
	10.39.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).	kg	76.70
10.40	Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type),approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.		metre	42.00
10.41	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet,joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of			
	10.41.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate	kg	210.80
	10.41.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).	kg	203.90
10.42	Providing and fixing bolts including nuts and washers complete.		kg	93.20
10.43	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5 mm 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	264.90
10.44	**Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer_In_charge.**		kg	77.20

11.0 Flooring

Code No.	Description	Unit	Rate Rs.
11.1	Brick on edge flooring with bricks of class designation 100A including cement slurry etc. complete in cement mortar.		
	11.1.1 1:4 (1 cement: 4 coarse sand)	sqm	660.60
	11.1.2 1:6(1 cement:6 coarse sand)	sqm	618.50
11.3	Cement concrete flooring 1:2:4(1 cement:2 coarse:sand:4 graded stone agregate) finished with a floating coat of neat cement including cement slurry, etc. but excluding the cost of nosing of steps etc. complete.		
	11.3.1 40 mm thick with 20 mm nominal size stone aggregate	sqm	282.60
11.4	52 mm thick cement concrete flooring with metallic concrete hardener topping under layer 40 mm thick cement concrete 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick metallic concrete hardener consisting of mix 1:2 (1 cement hardener mix:2 stone aggregate 6 mm nominal size) by volume @ 2 liter per 50 kg of cement or as per manufacture specification. This includes cost of cement slurry, etc. but excluding the cost of nosing of steps etc. complete.	sqm	450.80
11.5	62 mm thick cement concrete flooring with metallic concrete hardener topping under layer 50 mm thick cement concrete 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) and top layer 12mm thick metallic cement hardener consisting of mix 1:2(1 cement hardener mix:2 stone aggregate 6 rnrr.. ominal size) by volume hardning compound is mixed @ 2 liter per 50 kg of cement or as per manufacture specification. This includes cost of cement slurry, etc. but excluding the cost of nosing of steps etc. complete.	sqm	490.80
11.6	Cement plaster skirting (upto 30 cm hieght) with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement.		
	11.6.1 18 mm thick	sqm	284.86
11.7	Cement concrete pavement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) including finishing complete.	cum	5339.40
11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavemerts etc.	sqm	30.20
11.9	40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 12.5 mm nominal size) and top layer 6 mm thick with white, blacm, chocolate, grey, yellow or Baroda green marble chips of sizes form 1 mm to 4 mm nominal size laid in cement marble powder mix 3:1(3 cement: 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix:7 marble chips) by volume including cement slurry etc. complete.		

Code No.		Description	Unit	Rate Rs.
	11.9.1	Dark shade pigment with ordinary cement	sqm	530.80
	11.9.2	Light shade pigment with white cement	sqm	557.60
	11.9.3	Medium shade pigment with 50% white cement and 50% ordinary cement.	sqm	544.20
	11.9.4	White cement without any pigment	sqm	539.10
	11.9.5	Light shade pigment with ordinary cement.	sqm	530.80
	11.9.6	Ordinary cement without any pigment	sqm	509.00
11.10	40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31 mm thick cement concrete 1:2:4(1 ement:2 oarse sand:4 graded stone aggregate 12.5 mm nominal size) and top layer 9 mm thick with white, black.chocolate, grey, yellow or Baroda green marble chips of sizes from 4 mm to 7 mm nominal size laid in cement marble powder mix 3:1 (3 cement:1 marble powder) by weight in proportion of 4:7(4 cement marble powder mix:7 marble chips) by volume including cement slurry etc. complete.			
	11.10.1	Dark shade pigment with ordinary cement	sqm	562.00
	11.10.2	Light shade pigment with white cement	sqm	600.30
	11.10.3	Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	581.20
	11.10.4	White cement without any pigment	sqm	577.70
	11.10.5	Light shade pigment with ordinary cement	sqm	562.00
	11.10.6	Ordinary cement without any pigment	sqm	533.00
11.11	40 mm thick marble chips flooring,rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 12.5 mm nominal size) and top layre 12 mm thick with white, balck, chocoloate, grey, yellow or Baroda gren marble chips of sizes for 7 mm to 10 mm nominal size laid in cement marble powder mix 3:1(3 cement :1 marble powder mix :3marble chips) by volume including cement slurry etc. complete.			
	11.11.1	Dark shade pigment with ordinary cement	sqm	595.30
	11.11.2	Light shade pigment with white cement	sqm	648.90
	11.11.3	Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	625.10
	11.11.4	White cement without any pigment	sqm	609.10
	11.11.5	Light shade pigment with ordinary cement	sqm	603.10
	11.11.6	Ordinary cement without any pigment	sqm	555.40

Code No.	Description		Unit	Rate Rs.
11.12	Marble chips skirting (up to 30 cm height) rubbed and polished to granolithic finish, top layer 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4mm nominal size laid in cement marble powder mix 3:1 (3 cement: 1 marble powder) by weight in proportion of 4:7 94 cement marble poweder mix: 7 barbie chips) by volume:			
	11.12.1	**18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3coarse sand).**	**sqm**	**740.00**
	11.12.2	21 mm thick with under layer 15 thick cement plaster 1:3(1 cement:3 coarse sand)		
	11.12.2.1	Dark shade pigment with ordinary cement	**sqm**	**659.50**
	11.12.2.2	Light shade pigment with white cement	**sqm**	**686.30**
	11.12.2.3	Medium shade pigment with 50 % white cement and 50% ordinary cement	**sqm**	**672.90**
	11.18.2.4	White cement without any pigment	**sqm**	**730.50**
	11.12.2.5	Light shade pigment with ordinary cement	**sqm**	**659.50**
	11.12.2.6	Ordinary cement without any pigment	**sqm**	**687.90**
11.13	Providing and fixing glass strips in joints of terrazo/cement concrete floors.			
	11.13.1	40 mm wide and 4 mm thick	**meter**	**49.60**
11.14	Extra for laying terrazo flooring on stair case treads not exceeding 30cm in width including cost of forming, nosisng etc.		**sqm**	**33.10**
11.15	Crazy marble stone flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 25 mm thick cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishing and cement slurry etc. complete.			
	11.15.1	18 mm thick crazy marble stone white, black or as specified.	**sqm**	**937.80**
11.16	Precast terrazo tiles 22 mm thick with marble chips of sizes upto 12 mm laid in floors and landings jointed with neat cement slurry mixed with pigement to match the shade of the tiles; including rubbing and polishing complete with precast tiles on 20 mm thick bed of cement mortar 1:4(1 cement:4 coarse snad)			
	11.16.1	Light shade using white cement	**sqm**	**928.40**
	11.16.2	Medium shade using 50% white cement and 50% ordinary cement	**sqm**	**886.40**
	11.16.3	Dark shade using ordinary cement	**sqm**	**747.10**
	11.16.4	Ordinary cement without any pigment	**sqm**	**711.70**
11.17	Extra if terrazo tiles are laid in treads of steps not exceeding 30 cm in width		**sqm**	**43.30**

Code No.	Description		Unit	Rate Rs.
11.18	Precast terrazo tiles 22 mm thick with marble chips of sizes upto 12 mm in skirting and risers of steps not exceeding 30 cm in height, on 12 mm thick cement plaster 1:3 (1 cement:3 coarse sand) jointed with neat cement slurry mixed with pigement to match the shade of the tiles, including rubbing and polishing complete with tiles of			
	11.18.1	Light shade using white cement	sqm	1197.60
	11.18.2	Medium shade using 50% white cement and 50% ordinary cement	sqm	1142.40
	11.18.3	Dark shade using ordinary cement	sqm	1081.20
	11.18.4	Ordinary cement without any pigment	sqm	1049.60
11.19	Chequered terrazo tiles 22 mm thick with marble chips of sozes upto 6 mm in floors jointed with neat cement slurry mixed with pigement to match the shade of the tiles, including rubbing and polshing complete on 20 nm thick bed of cement mortar 1:4 (1 cement:4 coarse sand)			
	11.19.1	Light shade using white cement	sqm	914.70
	11.19.2	Medium shade using 50% white cement and 50% ordinary cement	sqm	934.30
	11.19.3	Dark shade using ordinary cement	sqm	853.10
	11.19.4	Ordinary cement without pigment	sqm	889.10
11.20	Chequerred precast cement concrete tiles 22 mm thick with marbie chips of size 6 mm in footpath & coutyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning tec. Complete on 20 mm thick bed of cement mortar 1:4(1 cement:4 coarse sand)			
	11.20.1	Light shade using white cement	sqm	960.60
	11.20.2	Medium shade using 50% white cement 50% grey cement	sqm	908.00
	11.20.3	Dark shade using ordinary cement	sqm	722.70
	11.20.4	Ordinary cement without any pigments	sqm	758.70
11.21	Providing and fixing 10 mm thick acid and / or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and / or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.			
	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	1099.20
	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	1157.90
11.22	Tile work in skirting, risers of steps and dado(upto 2m height) over 12 mm thick bed of cement mortar 1:3(1 cement;3 coarse sand) and jointed with grey cement slurry© 3.3 kg/sqm including pointing in .white cement mixed with pigment of matching shade complete.			
	11.22.1	Marble tiles (polished) Raj nagar 8 mm thick	sqm	1325.80

Code No.	Description		Unit	Rate Rs.
11.23	Marble stone flooring with 18 mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with:			
	11.23.1	Makrana white second quality.	sqm	2815.20
	11.23.2	Rajnagar plain white marble 18mm thick above 0.10 sqm upto 0.20 sqm	sqm	1526.40
	11.23.2.1	Rajnagar plain white marble 18mm thick above 0.20 sqm upto 0.50 sqm :	sqm	1669.60
	11.23.4	Black Zebra marble .	sqm	1383.20
	11.23.5	Udaipur green marble	sqm	1598.00
	11.23.6	Pink marble	sqm	1636.60
11.24	Extra for nosing in marble stone for treads		sqm	257.50
11.25	Extra for marble stone flooring in treads of steps. Not exceeding 30 cm in width.		sqm	306.10
11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete . Base with 1:1:1 (1 lime : 1 surkhi: 1 coarse sand) / 1:4			
	11.26.1	**20 to 25 mm thick -**	sqm	1119.60
11.27	Kota stone slabs 20 mm thick in risers of steps skirting. Dado & pillars laid on 12 mm (average (thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. Details of cost for 10 sqm		sqm	1133.90
	SAND STONE FLOORING			
11.28	Supplying sand stone 40 mm thick for flooring ,carriage to site and rough chisel dressing			
	11.28.1.1	Red sand stone	sqm	373.70
	11.28.1.2	white sand stone	sqm	373.70
11.28A.	40 mm thick rough chisel dressed stone flooring over 20 mm (average) thick base with joint base 1:1:1 (1 lime : 1 Surkhi : 1 coarse sand) or 1:5 (1 cement : 5 coarse sand) finished flush.			
	11.28A.1	Red sand stone	sqm	659.30
	11.28A.2	White sand stone	sqm	659.30
11.29	40 mm thick rough chisel dressed stone flooring over 20 mm (average) thick base including pointing with C.M 1:2 (1 cement :2 stone dust) with an admixture of pigment to match the shade of the stone with base 1:1:1 (1 lime : 1surkhi : coarse sand or 1:5 (1 cement : 5 coarse sand)			
	11.29.1	Red sand stone	sqm	753.10
	11.29.2	white sand stone	sqm	753.10
11.30	40 mm thick fine dressed stone flooring over 20 mm (average) thick base with joint finished flush:base 1:5 (1 cement: 5 coarse sand)			
	11.30.1	Red sand stone	sqm	733.10
	11.30.2	White sand Jtone	sqm	733.10

Code No.	Description	Unit	Rate Rs.
11.31	Extra for pre finished nosing in treads of steps of Kota stone / sand stone slab.	**m**	**68.60**
11.32	Extra for Kota stone / sand stone in treads of steps and risers using single up to 1.05 metre.length	**sqm**	**15.00**
11.33	25 mm wooden planking, tongued and grooved in flooring including fixing with iron screws complete .		
	11.33.2 2nd class teak wood	**sqm**	**3263.80**
11.34	38 mm thick parquet (wood block) flooring of 1st class teak wood laid over 25 mm thick levelling layer of cement concrete 1:2:4(1 cement:2 coarse sand:4 store aggregate 10 mm nominal size) to be paid separately coated with a thin layer of hot bitumen (blown type) @ 2.45 kg per sqm. including fixing blocks in position after dipping in hot bitumen (blown type) upto half depth,planed,levelled smooth and finished complete.	**sqm**	**7097.70**
11.35	Providing and fixing M.S. angle 50x50x5 mm to act as nosing with tugs of M.S. flat 10x5 mm 10 cm long forked at end 60 cm apart (minimum 3 lugs to be provided) including necessary welding and applying a priming coat of approved primer on exposed surfaces etc. complete	**kg**	**91.20**
11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	**sqm**	**739.80**
11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such as white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	**sqm**	**671.00**
11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	**sqm**	**644.60**
11.38	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such shades except white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	**sqm**	**736.40**

Code No.	Description		Unit	Rate Rs.
11.39	Providing and laying Ceramic glazed floor tiles 400x400 mm (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 13755 of NITCO , ORIENT , SOMANY , KAJARIA or equivalent make in colours such as white , Ivory , Grey , Fume , Red , Brown , laid on 20 mm thick cement motar 1:4 (1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc, complete.		sqm	1173.10
11.40.	Providing and laying Ceramic glazed floor tiles 400x400 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 13755 of NITCO , ORIENT , SOMANY , KAJARIA or equivalent make in colours except white , Ivory , Grey , Fume , Red , Brown , laid on 20 mm thick cement motar 1:4 (1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc, complete.		sqm	1259.40
11.41	Providing and laying vitrifed floor tiles in different sizes {thickness to be specified by the manufactruer) with water absorption's less than 0.08 % and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joint with white cement and matching pigments etc., complete.			
	1.1.41.1	Size of Tile 50x50 cm.	sqm	1377.10
	11.41.2	Size of Tile 60x60 cm	sqm	1520.90
	11.41.3	Size of Tile 80x80 cm	sqm	1847.80
	11.41.4	Size of Tile 100x100 cm	sqm	2553.90
11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.		sqm	429.30
11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.		sqm	380.60
11.44	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement , all complete as per direction of Engineer-in-charge.		sqm	401.30
11.45	Providing and laying 500x500x40 mm thick Turf paver (Turfpave XD) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate and base course and filling with 150 mm thick jamuna sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.		sqm	894.80
11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.			

Code No.	Description		Unit	Rate Rs.
	11.46.1	Size of Tile 500 x 500 mm.	**sqm**	**1001.20**
	11.46.2	Size of Tile 600 x 600 mm.	**sqm**	**1141.60**
	11.46.3	Size of Tile 800 x 800 mm.	**sqm**	**1460.70**
	11.46.4	Size of Tile 1000 x 1000 mm.	**sqm**	**2149.90**
11.46A	Providing and fixing glazed screen printed border tile 75mm wide having thickness 5mm, of approved quality & make, in all shades, design and prints, in dado, over 12mm thick bed of cement mortar 1:3 (1 Cement : 3 Coarse sand) and jointing with grey cement slurry @ 3.3 kg/sqm including pointing with white cement mixed with pigment of matching shade, all complete as approved by Engineer - in - Charge		**meter**	**136.50**
11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).			
	11.47.1	Size of Tile 500 x 500 mm.	**sqm**	**1109.00**
	11.47.2	Size of Tile 600 x 600 mm.	**sqm**	**1249.40**
	11.47.3	Size of Tile 800 x 800 mm.	**sqm**	**1568.50**
	11.47.4	Size of Tile 1000 x 1000 mm.	**sqm**	**2257.70**
11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling/ grouting and finishing complete as per direction of Engineer-in-charge.			
	11.48.1	Size of Tile 500x500 mm.	**sqm**	**190.30**
	11.48.2	Size of Tile 600 x 600 mm.	**sqm**	**160.20**
	11.48.3	Size of Tile 800 x 800 mm.	**sqm**	**130.10**
	11.48.4	Size of Tile 1000 x 1000 mm.	**sqm**	**95.30**
11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).			
	11.49.1	Size of Tile 500 x 500 mm.	**sqm**	**1050.70**
	11.49.2	Size of Tile 600 x 600 mm.	**sqm**	**1191.10**
	11.49.3	Size of Tile 800 x 800 mm.	**sqm**	**1510.20**
	11.49.4	Size of Tile 1000 x 1000 mm.	**sqm**	**2199.40**
11.50	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.		**sqm**	**9.90**

Code No.	Description	Unit	Rate Rs.
11.51	Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.		
	a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.	**sqm**	**5256.60**
11.52	Providing and laying machine cut, mirror polished Marble stone flooring, in required design (Simple geometrical, abstract etc.) and in patterns in combination with Italian marble stones of different colours, shades and finished surface texture etc., in linear portions of the building, all complete as per the shades and finished surface texture etc., in linear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.		
	a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.	**sqm**	**5489.50**
11.53	Providing and fixing Glass mossaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge.	**sqm**	**1671.30**
11.54	Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of :		
	a) P roviding at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mmx100mmx3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fullythreaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base)through base plate using epoxy based adhesive of approved make or the machine through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.		

Code No.	Description	Unit	Rate Rs.
	b) S tringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80 mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid,rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.		
	c) providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall finished with Anti-static High Pressure laminate with Non Warp technology uptobe steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory core mixed with lightweight foaming compound. The access floor shall be factory 1mm thickness for superior adhesion and Surface flatness within 0.75mm.The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.		
11.54.1	300 mm Finished Floor Height (FFH).	**sqm**	**4518.90**
11.54.2	450 mm Finished Floor Height (FFH).	**sqm**	**4518.90**
11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	**sqm**	**277.50**
11.73	Providing designation 100 A one brick on edge soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	**sqm**	**439.80**
11.74	Providing designation 100 B one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I, but excluding carriage cost of bricks & sand.	**sqm**	**261.30**
11.75	Providing designation 100 B one brick on edge soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	**sqm**	**412.80**

Code No.	Description	Unit	Rate Rs.
11.76	Providing average 150mm thick dry rammed khoa beaten to 112mm (compacted with water) made of well burnt or jhama bricks including ramming properly till compacted thickness is achieved, curing and carriage of water with all leads, making proper slope and blinding the top with cement mortar (1: 10) all complete as per building specification and direction of E/I,	**sqm**	**379.60**
11.77	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 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.	**sqm**	**543.90**
11.78	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of fine sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with jamuna sand and cutting of paver blocks as per required size and pattern,finishing and sweeping extra sand in footpath, parks, lawns, drive ways or light traffic parking etc.complete as per manufacturer's specifications & direction of Engineer-in-Charge. **60mm thick C.C.paver block of M-35 grade with approved colour, design & pattern.**	**sqm**	**731.50**
11.79	Providing and laying factory made chamfered edge Cement Concrete paver blocks of required strength,thickness & size/shape, made by table vibratory method , to attain superior smooth finish using PU or equivalent moulds, laid in required Grey colour & pattern over 50mm thick compacted bed of coarse sand, compacting and proper embedding / laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with jamuna sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks,lawns, drive ways or light traffic parking etc. all complete as per manufacturer's specifications & direction of Engineer -in-Charge:		
	11.79.1 **(a) 80 mm thick c.c. paver block of M-35 grade with approved colour design and pattern.**	**sqm**	**812.70**
	11.79.2 **(b) 80 mm thick c.c. paver block of M-35 grade with white colour design and pattern.**	**sqm**	**769.90**

12.0 Roofing

Code No.	Description		Unit	Rate Rs.
12.1	Providing corrugated G.S. sheet roofing fixed with G.I.J. or hooks, bolts and nuts 8 mm diameter with bitumen and G. I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on over lapping of sheets complete (upto a pitch of 60°) excluding the cost or purlins, rafters and trusses.			
	12.1.3	1.00 mm thick with zinc coating not less than 275 gm/m ^{z}	sqm	1121.40
	12.1.4	0.8mm thick with zinc coating not less than 275 gm/m ^{z}	sqm	2659.00
	12.1.5	0.63 mm thick with zinc coating not less than 275 gm/m ^{2}	sqm	2238.00
12.2	Extra for providing and fixing corrugated G. S. sheets vertically or to a pitch exceeding 60		sqm	9.20
12.3	Extra for providing and fixing curved C.G.S. sheets on roofing			
	12.3.4	0.80 mm thick	sqm	10.40
	12.3.5	0.63 mm thick	sqm	8.30
12.4	Extra for straight cutting in C.G. S. sheet roofing for making opening of area exceeding 40 dm^2 for chimney stacks , sky light etc.			
	12.4.3	1.00 mm thick	m	39.90
	12.4.4	0.80 mm thick	m	31.90
	12.4.5	0.63 mm thick	m	31.90
12.5	Extra for circular cutting in C. G. S. sheet roofing for making opening of area exceeding 40 square decimeter .			
	12.5.3	1.0 mm thick	m	226.60
	12.5.4	0.80 mm thick	m	181.00
	12.5.5	0.63 mm thick	m	181.00
12.6	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with G.I.J. or L hooks . Bolts and nuts 8 mm dia. G. 1. limpet and bitumen washers complete. .			
	12.6.1	0.80 mm thick with zinc coating not less than 275 gm/m ^{2} Consider the length of the ridge 10.35 metres. The ridge will be made out of plain G. I. sheets 0.9 m x 1.8 m ,	m	585.40
	12.6.2	0.63 mm thick with zinc coating not less than 275 gm/m ^{2}	m	511.20
12.7	Providing valleys of 90 cm wide overall in plain G.S. sheet fixed with G.I.J. or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.			
	12.7.1	1.60 mm thick with zinc coating not less than 350 gm/m ^{z}	m	1120.60
12.8	Providing flashing of 40 cm over al width in plain, G.S. sheet fixed with G.I.J. or L. hooks, bolts and nuts G.I. limpet and bitumen washers complete, bent to shape and fixed in wall with cement mortar 1:3(1 cement:3 coarse sand).			
	12.8.2	1.00 mm thick with zinc coating not less than 275 gm/m ^{3}	m	434.70
12.9	Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3 mm size bolts, nuts and washers etc. including making necessary connections with rain water pipes complete.			
	12.9.3	0.80 mm thick with zinc coating not less than 275 gm/m ^{2}	m	536.40
	12.9.4	0.63 mm thick with zinc coating not less than 275 gm/m ^{2} consider a length of 9.04 metres.	m	936.20

Code No.	Description		Unit	Rate Rs.
12.10	Providing asbestos cement 6 mm thick corrugated sheets roofing and fixing with G.I. J or L hooks bolts and nuts 8 mm dia G. I. plain and bitumen washers complete excluding the cost or purlins, rafters and trusses corrugated sheet.			
	12.10.1	upto 60 degree pitch	sqm	357.40
	12.10.2	above 60 degree pitch	sqm	366.80
12.11	Extra for straight cutting in A.C. corrugated, semi corrugated 6 mm thick sheet roofing for making opening of area exceeding 40 dm^2 for chimney stacks, skylights etc.		m	31.90
12.12	Extra for circular cutting in A.C. corrugated/semi corrugated 6 mm thick sheet roofing for making opening of area exceeding 40 dm^2		m	265.80
12.13	Extra for providing and fixing wind ties of 40x6mm flat iron section.		m	106.20
12.14	Providing and fixing ridges and hips in asbestos cement sheet roofing			
	12.14.1	One piece plain angular ridges Consider a shed of 20x 10 m (external dimensions at plinth)	m	233.80
	12.14.2	Serrated of plain wing adjustable ridges Consider a shed of 20x10 m (external dimension at plinth)	m	304.80
	12.14.3	Close fitting adjustable ridges consider a shed 20x10 metre (External dimension at plinth).	m	387.40
	12.14.5	Unserrated adjustable hips consider a shed with hip as 20.2 metres.	m	304.40
12.15	Providing and fixing asbestos cement roofing accessories with galvanised iron J or L hooks, bplts and nuts and of G.I. seam bolts and nuts. G.I. plain and bitumen washers complete.			
	12.15.1	Approan flashing pieces	m	215.20
	12.15.2	Eves filler pieces	m	162.90
	12.15.3	North light and ventilator curves	m	396.60
	12.15.4	Barge boards .	m	253.60
	12.15.6	Ridge finials	pair	153.40
	12.15.8	Curved barge boards for north light curves	each	102.00
	12.15.9	Roof lights	each	1517.50
	12.15.10	Expansion joints for ridges	each	466.40
	12.15.11	Expansion joints fosr north light curves	each	414.00
	12.15.12	S type louvers	m	164.70
12.20	Providing flat iron brackets 50x3mm size, with necessary bolts, nuts and washers etc.for fixing asbestos cement /G.S sheet gutters with purlins.		m	61.70
12.29	Painting top of roofs with bitumen of approved quality at 17 kg per $10m^2$ impregnated with a coat of coarse sand at 60 cubic dm per $10m^2$ including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete:			
	12.29.1	With residual type petroleum bitumen of VG10	sqm	135.70
12.33	Providing and laying brick tiles of class designation 100 over mumty root grouted with cement mortar 1:3 (1 cement:3 coarse sand) mixed with 2% if 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.			
	12.33.2	With F.P. brick tiles	sqm	770.20

Code No.		Description	Unit	Rate Rs.
	12.33A	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness and of approved size) on roofs jointed with cement mortar 1:4(1 cement :4 coarse sand)mixed with 2% integral water proofing compound laid over a bed of 20 mm thick cement mortar 1:4(1 cement::4 coarse sand)and finished neat complete	sqm	491.70
12.38	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement:2 coarse sand:4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3(1 cement::3 coarse sand)as per standard design			
	12.38.1	In 75x75 mm deep chase	sqm	55.90
12.39	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 mx1 mx400 micron, finished 12 mm cement plaster 1:3 (1 cement:3 coarse sand) and a coat of neat cement rounding the edges and making and finishing the outlet complete		each	172.30
12.40	Providing sand stone slabs for roofing and laying them in cement mortar 1:4 (1 cement:4 coarse sand) over wooden karries or R.C.C. battens (karries and battens to be paid separately) including pointing the ceiling joints with cement mortar 1:3 (1 cement:3 coarse sand) complete:			
	12.40.1	**Red sand stcne slab**		
	12.40.1.1	40 mm thick	sqm	503.70
	12.40.1.2	45mm thick	sqm	527.50
	12.40.1:3	50 mm thick	sqm	551.60
	12.40.2	**White sand stone slab**		
	12.40.2.1	40 mm thick ,.	sqm	503.70
	12.40.2.2	45 mm thick	sqm	527.50
	12.40.2.3	50 mm thick	sqm	551.60
12.52	Grading roof for water proofing treatment with			
	12.52.2	Cement concrete 1:2:4(1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	4095.30
	12.52.3	Cement mortar 1:3(1 cement:3 coarse sand)	cum	7346.50
	12.52.4	Cement mortar 1:4 (1 cement: 4 coarse sand)	cum	6393.60
12.54	Providing and fixing 20 mm thick wooden planks ceiling (frame work for base to be paid separately) with M.S screws:			
	12.54.1	2nd class teak wood	sqm	1897.60
	12.54.3	1st class kail wood	sqm	943.20
12.55	Providing and fixing insulating board ceiling of approved quality with necessary nails etc complete (frame work to be paid separately)			
	12.55.1	**Natural colour insulating board**		
	12.55.1.1	12 mm thick	sqm	509.40
	12.55.2	**White face insulating board**		
	12.55.2.1	12 mm thick	sqm	537.30
	12.55.3	**Flame retardant face insulating board**		
	12.55.3.1	12mm thick	sqm	660.10
12.56	Providing and fixing hard board sheet ceiling of approved quality with necessary nails etc complete (frame work to be paid separately)			
	12.56.1	Standard quality boards		
	12.56.1.1	3 mm thick	sqm	389.10

Code No.	Description		Unit	Rate Rs.
	12.56.1.2	4.5 mm thick	**sqm**	**193.40**
12.57	Providing and fixing flat pressed 3 layer medium density particle board sheet Grade I conforming to IS: 3087 in ceiling with necessary nails etc. complete (frame work to be paid separately).			
	12.57.2	12 mm thick	**sqm**	**659.70**
12.58	Providing and fixing plain A.C. sheet ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately):			
	12.58.2	6 mm thick	**sqm**	**453.00**
12.59	Extra for circular cutting and waste in ceiling with			
	12.59.1	2nd class teak wood planks 20 mm thick	**m**	**364.40**
	12.59.4	Natural colour insulating board		
	12.59.4.1	12 mm thick	**m**	**189.00**
	12.59.5	White face insulating board		
	12.59.5.1	12 mm thick	**m**	**194.10**
	12.59.6	Flame retardant face insulating board		
	12.59.6.1	12 mm thick . .	**m**	**207.70**
	12.59.7	Standard quality hard board sheet		
	12.59.7.1	3 mm thick	**m**	**176.00**
	12.59.7.2	4.5 mm thick	**m**	**151.60**
12.60.1	Extra for providing and fixing ceiling to curved surfaces in narrow widths		**sqm**	**154.50**
12.60.2	Providing and fixing false ceiling with 12 mm thick plain/or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS :3087 finished with a coat of aluminum primer on both sides & edges and two coats of synthetic enamel paint of approved quality on exposed face fixed to a grid made out of anodized aluminum (with 15 micron anodic coating) T-sections 35x15x1.5 mm size main runners and cross runners 23.5x19x1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S. rod fixed to roof slab ny means of ceiling cleats. The suspenders shall be placed 600x1200 mm centre to centre including fixing to the frame with CP brass screws and applying a priming coat of zinc chromate yellow primer for steel members complete (Frame work and suspenders to be paid for separately)		**sqm**	**655.70**
12.60.3	Extra for providing 3 mm thick translucent white acrylic plastic sheets of approved quality in false ceiling instead of 12 mm thick plain/or with design particle board ceiling tiles in item above.		**sqm**	**570.30**
12.61	Providing 10 mm thick plaster of Paris (Gypsum anhydrous) ceiling upto a height of 5 m above floor level over first class kail wood strips 25x6x mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately)			
	12.61.1	Flat surfaces	**sqm**	**1174.10**
	12.61.2	Curved surfaces	**sqm**	**801.40**
12.62	Extra for any sunk or raised moldings in the plaster of Paris (Gypsum anhydrous) ceiling		**sqm**	**228.10**
12.63	Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres height from floor level.		**sqm**	**92.30**
12.64	Providing and fixing 12 mm thick plaster of pairs (Gypsum anhydrous) ceiling tiles upto a height of 5 metres above floor level over wooden frames and rendered smooth with plaster of pans (frame work to be paid separately).		**sqm**	**524.40**

Code No.	Description		Unit	Rate Rs.
12.65	Extra for providing and fixing plaster of Paris (Gypsum anhydrous) ceiling tiles beyond 5 metres height form floor level.(Height beyond 5 m to be measured for extra payment)		sqm	43.10
12.67	Extra for making chamfered edges of beading			
	12.67A	Thermal Insulation of roofing with bonded mineral wool, laid over false ceiling with suitable adhesive as per directions of the Engineer -in-charge.	sqm	209.60
	12.67B	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in charge		
	12.67B.1	With Type N-Normal	sqm	247.40
	12.67B.2	With Type SE Self Extinguishing type	sqm	247.40
12.68	Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement :4 fine sand)			
	12.68.1	Stone ware spout	spout	87.50
	12.68.2	Cement concrete spout	spout	87.50
12.71	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix(1ceme.it:2coarse sand:4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc.			
	12.71.1	75 mm diameter	each	140.30
	12.71.2	100 mm diameter ;	each	137.40
	12.71.3	150 mm diameter	each	168.60
12.73	Providing lead caulked joints to sand cast iron rain water pipes and fittings:			
	12.73.1	75 mm dia pipe	each	165.00
	12.73.2	100 mm dia pipe	each	211.50
	12.73.3	150 mm dia pipe	each	293.90
12.74	Providing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately):			
	12.74.2	Sand cast iron plain shoes		
	12.74.2.3	150 mm diameter	shoe	338.30
12.78	Providing and fixing on wall face unplastidsed-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
	12.78.1	75 mm diameter	metre	147.40
	12.78.2	110 mm diameter	metre	238.30
12.79	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
	12.79.1	Coupler		
	12.79.1.1	75 mm	each	246.20
	12.79.1.2	110mm	each	113.50
	12.79.2.1	Single pushfit coupler		
	12.79.2.1	75 mm	each	246.40

Code No.	Description		Unit	Rate Rs.
	12.79.2.2	110 mm	**each**	**354.90**
	12.79.3	Single tee with door		
	12.79.3.1	75x75x75 mm	**each**	**450.50**
	12.79.3.2	110x110x110mm	**each**	**183.10**
	12.79.4	Single tee without door		
	12.79.4.1	75x75x75mm	**each**	**115.60**
	12.79.4.2	110x110x110 mm	**each**	**183.10**
	12.79.5	Band 87.5^0		
	12.79.5.1	75 mm bend	**each**	**85.10**
	12.79.5.2	110 mm bend	**each**	**124.70**
	12.79.6	Shoe plain		
	12.79.6.1	75 mm shoe	**each**	**73.90**
	12.79.6.2	110m Shoe	**each**	**108.52**
12.80	Providing and fixing unplasticised -PVC pipe clip of approved design to unplasticised PVC rain water pipe by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing on cement mortar(1:4) 1 cement: 4corsa sand and making good the wall etc complete			
	12.80.1	75 mm	**each**	**158.60**
	12.80.2	110 mm	**each**	**157.37**
12.81	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.		**each**	**44.90**
12.82	Providing and fixing at all height false ceiling of 12.5 mm thick -tapered edge gypsum board conforming to IS : 2095 including -providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanized in accordance with zinc coating 600 as per IS : 277 and consisting of angle cleats of size 25 mm wide x 16 mm thick with flanges of 22 mm and 27 mm at 1200 mm centre to centre one flange fixed to the ceiling with dash fastener 12.5 mm dia x 40 mm long with 6 mm dia bots to the angle hangers of 25x25x5 mm of required length, and other end of angle hanger being fixed with nut and bots to rate of 1200 mm centre to centre to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having clips of 10.5 mm at 450 mm centre to centre shall be be fixed in a direction perpendicular to G. I. channel with connecting clips made out of 2.64 mm dia x 230 mm long G. I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long . the perimeter of ceiling fixed to wall / partition with the help of rawl plugs at 450 mm centre to centre with 25 mm long dirve-all screws @ 230 mm interval including jointing and fixing to a flush of tapered and square edges of the gypsum board with recommended filler., paper tapes, finisher and two coats of primer suitable for gypsum board as per manufactures specification and also including the coat cutouts made with frame of perimeter channels suitably fixed all complete as per- drawing and specification and direction of the Engineer-in-Charge but excluding the cost of painting.		**each**	**691.10**

Code No.		Description	Unit	Rate Rs.
	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutoutsmade with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :		
	12.45.1	**12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I**	**sqm**	**774.40**
	12.45.2	**12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I**	**sqm**	**898.60**
	12.45.3	**12.5 mm thick tapered edge gypsum moisture resistant board**	**sqm**	**948.20**
	12.45.4	Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer-in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60.	**sqm**	**1137.80**
12.46	Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8 mm and weighing not less than 100 gms.		**each**	**72.30**
12.47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.			
	12.47.1	2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified	**sqm**	**1036.70**
	12.47.2	2 mm thick flat	**sqm**	**923.10**

Code No.	Description	Unit	Rate Rs.
12.48	Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately)	sqm	261.00
12.49	Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately).	sqm	18.40
12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	575.80
12.51	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15- 18 microns using self drilling/ self tapping screws complete :		
12.51.1	Ridges plain (500 - 600mm)	**sqm**	**371.10**
12.51.2	Flashings/ Aprons.(Upto 600 mm)	**meter**	**373.50**
12.51.3	North light curves	**meter**	**412.60**
12.51.4	Barge board (Upto 300 mm)	**metre**	**336.60**
12.51.5	Crimp curve	**sqm**	**380.10**
12.51.6	Gutter (600 mm over all girth)	**metre**	**831.20**
12.52X	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.		

Code No.	Description		Unit	Rate Rs.
	12.52x.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	**sqm**	**1048.90**
	12.52x.2	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.	**sqm**	**1179.60**
	12.52x.3	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	**sqm**	**996.60**
	12.52x.4	12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	**sqm**	**1009.60**

Code No.	Description		Unit	Rate Rs.
12.53X	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.		**sqm**	**1539.70**
12.54x	Providing and fixing Gl Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of Gl steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join,C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring T with :			
	12.54X.1	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	**sqm**	**1357.90**
	12.54X.2	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.	**sqm**	**1569.80**

Code No.	Description		Unit	Rate Rs.
12.55X	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.		**sqm**	**1120.80**
12.56X	Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/ cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge.		**sqm**	**1297.00**
12.57X	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m3, 50 mm thick, wrapped in 200G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.		**sqm**	**262.70**
12.58X	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.			
	12.58X.1	8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.	**sqm**	**1241.70**

Code No.	Description		Unit	Rate Rs.
12.59X	Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I chanels 45 x15 x 0.90mm running at the spacing of 1200 mm c/ c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes,finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specificaton and direction of the Engineer in charge but excluding the cost of painting with:			
	12.59X.1	8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.	**sqm**	**892.90**
12.61X	Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m3, 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceilng and held in position by criss- crossing GI wire.		**sqm**	**253.20**
12.62X	Providing and fixing thermal insulation with Resin Bonded rock wool conforming to IS: 8183, having density 48 kg/m3,50 mm thick,wrapped in 200 G Virgin Polythene Bags fixed to wall wirh screw, rawel plug & washers and held and in position by criss cossing GI wire etc. complete as per directions of Engineer-in-Charge.		**sqm**	**257.80**
12.63X	Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM) C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall strctly as per manufacturer's specifications and as approved by Engineer-in-Charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the perfomance of SRI and also the durabitity of coating, all complete as per direction of Engineer-in-Charge.		**sqm**	**293.40**

13.0 Finishing

Code No.	Description		Unit	Rate Rs.
	Cement plaster in course sand			
13.11	12 mm cement plaster of mix:			
	13.11.1	1:3 (1 cement:3 coarse sand)	sqm	153.60
	13.11.2	1:4(1 cement :4 coarse sand)	sqm	139.90
	13.11.3	1:5(1 cement: 5 coarse sand)	sqm	132.50
	13.11.4	1:6(1 cement: 6 coarse sand)	sqm	126.20
13.12	15 mm cement plaster on rough side of single or half brick wall of mix.			
	13.12.1	1:3 (1 cement :3 coarse sand)	sqm	178.30
	13.12.2	1:4(1 cement: 4 coarse sand)	sqm	161.90
	13.12.3	1:5 (1 cement: 5 coarse sand)	sqm	153.10
	13.12.4	1:6 (1 cement: 6 coarse sand)	sqm	145.50
13.13	20 mm cement plaster of mix ;			
	13.13.1	1:3 (1 cement: 3 coarse sand)	sqm	215.60
	13.13.2	1: 4(1 cement: 4 coarse sand)	sqm	194.30
	13.13.3	1:5(1 cement: 5 coarse sand)	sqm	182.80
	13.13.4	1:6(1 cement: 6 coarse sand)	sqm	173.00
13.14	12 mm lime plaster of mix:			
	13.14.1	1:1:1 (1 lime putty:1 surkhi:1sand)	sqm	111.90
	13.14.2	1:1:2(1 limeputty :1surkhi:2 sand)	sqm	106.00
	13.14.3	1:2(1 lime: 2surkhi)	sqm	123.50
	13.14.4	1:3(1lime putty: 3surkhi)	sqm	123.40
	CEMENT PLASTER WITH A FLOATING COAT OF NEAT CEMENT			
13.17.1	12 mm cement plaster 1:3(1 cement: 3 coarse sand) finished with a floating coat of near cement		sqm	190.80
13.17.2	12 mm cement plaster 1:4(1 cement: 4coarse sand) finished with a floating coat of near cement Details of cost for 10 sqm		sqm	177.10
13.18	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	215.50
13.19	18 mm cement plaster in two coat under layer 12 mm thick cement plaster 1:5 (1 cement: 5 course sand) and a top layer 6mm thick cement plaster 1:3(1 cement: 3 coarse sand finiished rough with sponge		sqm	196.10
13.20	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement :5 coarse sand) and top layer 6 mm thick, cement plaster 1:3 (1 cement: 3 coarse sand) finished rough with sponge.		sqm	207.90
13.24	6 mm cement plaster to ceiling of mix :			
	13.24.1	1:3(1 cement: 3 coarse sand)	sqm	117.80
	13.24.2	1:4(1 cement: 4 coarse sand)	sqm	110.90
13.26	Neat cement punning		sqm	38.60

Code No.	Description		Unit	Rate Rs.
13.30	Rough cast plaster upto 10m night 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 course sand) mixed with 10% finely grounded hydrated lime by volume of cement:			
	13.30.1	Ordinary cement finish using ordinary cement	sqm	359.60
13.31	Rough cast plaster with a mixture of sand and gravel or crushed stone from 2.36 to 12.5 mm nominal size dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:5(1 cement:5 coarse sand) and top layer 10 mm cement plaster 1:3(1 cemeht;3 coarse sand) mixed with 10% finely grounded hydrated lime by volume of cement:			
	13.31.1	Ordinary cement finish using ordinary cement	sqm	352.20
13.32	Pebble dash plaster 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 coarse sand) mixed with 10% finely grounded hydrated lime by volume of cement		sqm	340.70
13.36	Extra for providing and mixing water proofing material in proportion recommended by the manufacturers:			
	13.36.1	12 mm cement plaster 1:3(1 cement :3 sand)	**sqm**	**8.20**
	13.36.2	12 mm cement plaster 1:4(1 cement :4 sand)	**sqm**	**6.60**
	13.36.3	15 mm cement plaster 1:3(1 cement :3 sand)	**sqm**	**9.40**
	13.36.4	15 mm cement plaster 1:4(1 cement :4 sand)	**sqm**	**7.50**
	13.36.5	20 mm cement plaster 1:3(1 cement:3 sand)	**sqm**	**11.70**
	13.36.6	20 mm cement plaster 1:4(1 cement: 4 sand)	**sqm**	**9.20**
13.37	Extra for plastering exterior walls of height more than 10m form ground level for every additional height of 3 m or part there of		**sqm**	**37.20**
13.38	Extra for plastering on circular work not exceeding 6 m in radius :			
	13.38.1	In one coat	sqm	16.70
	13.38.2	In two coats	sqm	24.20
13.39	Extra for plastering done on moulding cornices or architraves including neat finish to line and level:			
	13.39.1	In one coat	sqm	238.30
	13.39.2	In two coats	sqm	392.30
13.40	Extra for plastering:			
	13.40.1	Spherical ceiling	sqm	62.20
	13.40.2	Groined ceiling	sqm	68.00
	13.40.3	Flewing soffits	sqm	40.60
13.40A	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.		sqm	105.20
13.45	**Finishing walls with textured exterior paint of required shade :**			

Code No.		Description	Unit	Rate Rs.
	13.45.1	New work (Two or more coats applied @ 3.28 ltr/ 10 sqm) over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm	sqm	143.60
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	89.4
13.46A	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :			
	13.46A.1	New work (Two or more coat applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	90.1
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	92.2
	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	81.9
	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	37.8
13.48.4	Extra for lining out plaster to imitate stone or concrete blocks walling		sqm	37.8
13.50	12 mm thick plain cement mortar bands in cement mortar 1:4(1 cement: 4 coarse sand):			
	13.50.1	Flush Band	1 m long & 1cm wide	2.80
	13.50.2	Sunk Band	1m long & 1cm wide	3.00
	13.50.3	Raised Band	1m long & 1cm wide	3.40
	13.50.4	Molded Band	1m long & 1cm wide	5.70
13.51	18 mm thick plain cement mortar band in cement mortar 1:4(1 cement :4 coarse sand):			
	13.51.1	Flush Band	1m long & 1cm wide	3.40
	13.51-2	Sunk Band	1m long & 1cm wide	3.70
	13.51.3	Raised Band	1m long & 1cm wide	4.20

Code No.	Description		Unit	Rate Rs.
	13.51.4	Molded Band	1m long & 1cm wide	7.60
13.52	18 mm thick molded cement mortar band in two coats, under layer 12 mm thick with cement mortar 1:5(1 cement:5 coarse sand top layer 6 mm thick with cement mortar 1:4(1 cement :4 coarse sand)		1m long & 1cm wide	7.50
13.56	Pointing on brick work with cement mortar 1:3(1 cement:3 coarse sand):			
	13.56.1	Flush pointing	sqm	94.30
	13.56.2	Ruled pointing	sqm	100.40
	13.56.3	Struck or weathered pointing	sqm	122.00
	13.56.4	Raised and cut pointing	sqm	152.50
13.57	Pointing on brick flooring with cement mortar 1:3(1 cement:3 coarse sand):			
	13.57.1	Flush pointing	sqm	79.60
	13.57.2	Ruled pointing	sqm	85.80
13.58	Pointing on brick flooring with cement mortar 1:4(1 cement :4 coarse sand):			
	13.58.1	Flush pointing	sqm	78.70
	13.58.2	Ruled pointing	sqm	80.50
13.63	Pointing on tile brick work with cement mortar 1:3(1 cement :3 coarse sand):			
	13.63.1	Flush pointing	sqm	125.30
	13.63.2	Ruled pointing	sqm	130.90
	13.63.3	Struck or weathered pointing	sqm	152.80
13.64	Pointing on stone work with cement mortar 1:3(1 cement:3 fine sand):			
	13.64.1	Flush pointing	sqm	132.70
	13.64.2	Ruled pointing	sqm	142.50
	13.64.3	Raised and cut pointing	sqm	242.30
13.68	Pointing on stone slab ceiling with cement mortar 1:2 (1 cement :2 coarse sand):			
	13.68.1	Flush pointing	sqm	75.40
	13.68.2	Ruled pointing	sqm	80.20
13.69	Extra for pointing on walls on the outside at height more than 10m from ground level for every additional height of 3 m or part there of		sqm	6.40
13.70	White washing with lime to give an ever shade			
	13.70.1	New work (three or more coats)	sqm	15.90
	13.70.2	Old work (two or more coats)	sqm	8.70
	13.70.3	Old work (one or more coats)	sqm	5.00
13.71	Satna lime wash on wads one coat		sqm	6.10
13.72	White washing with whiting to give an even shade :			
	13.72.1	New work (three or more goats)	sqm	15.10
	13.72.2	Old work (two or more coats)	sqm	9.00
	13.72.3	Old work (one or more coats)	sqm	5.30
13.73	Colour washing such as green, blue or buff to give an even shade			
	13.73.1	New work (two or more coats) with a base coat of white washing	sqm	21.70

Code No.	Description		Unit	Rate Rs.
	13.73.2	New work (two or more coats) with a base coat of whiting	sqm	22.20
	13.73.3	Old work (two or more coats) with lime	sqm	11.40
	13.73,4	Old work (two or more coats) with whiting	sqm	11.90
	13.73.5	Old work (one or more coats) with lime	sqm	6.50
	13.73.6	Old work (one or more coats) with whitinq	sqm	6.70
13.74	Removing white or colour wash by scrapping and sand paper in and preparing the surface smooth including necessary repair scratches etc. complete		sqm	6.40
13.75	Distempering with dry distemper of approved brand and manufacture (two or more coats) and of required shade on new work , over and including priming coat of whiting to give an even shade.		sqm	58.70
13.76	Distempering with dry distemper of approved brand and manufacture (one or more coats) and of required shade on old work to give an even shade .		sqm	25.60
13.77	Distempering with oil bound washa ble distemper of approved brand and manufacture to give an even shade .			
	13.77.2	New work (two or more coats) over and including priming coat with cement primer	sqm	83.40
	13-.77.3	Old work (one or more coats)	sqm	27.20
	13.77A	Distempering with 1st quality washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacture's specifications.		
	13.77A.1	Two or more coats on new work	sqm	46.50
	13.77A.2	One or more coats on old work	sqm	28.00
13.78	Applying one coat of cement primer of approved brand **and** manufacture on wall surface:			
	13.78.1	Cement primer	sqm	31.00
	13.78.2	Distemper primer	sqm	31.70
13.79	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade			
	13.79.1	New work (three or more coats)	sqm	68.30
	13.79.2	Old work (one or more coats)	sqm	51.10
13.80	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repari scratches tec. Gmplete		sqm	8.10
13.80 A.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.		sqm	46.50
13.80 A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.		sqm	46.50

Code No.		Description	Unit	Rate Rs.
13.81 A	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture,including applying additional coats wherever required, to achieve even shade and colour.			
	13.81.1 A	One coat	sqm	24.70
	13.81.2B	Two coats	sqm	39.40
13.81	Applying priming coat:			
	13.81.1	With ready mixed pink or grey primer of approved brand and manufacture *on* wood work (hard and softwood)	sqm	32.20
	13.81.2	with ready mixed aluminum primer of approved brand and manufacture on resinous wood and plywood.	sqm	32.50
	13.81.3	With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works	sqm	27.50
	13.81.4	With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel work (second coat)	sqm	15.20
13.82	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade:			
	13.82.1	New steel work (two or more coats)	sqm	74.50
	13.82.2	New wood work (two or more coats)	sqm	74.50
	13.82.3	Old steel work (one or more coats)	sqm	48.00
	13.82.4	Old wood work (one more coats)	sqm	48.00
	13.82.A	Painting one thin coat with white lead of approved brand and manufacture on wet or patchy portion of plastered surfaces.	sqm	53.10
	13.82B	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacture's specifications including appropriate priming coat, preparation of surface, etc. complete.		
	13.82B.1	On steel work	sqm	104.30
	13.82B.2	On concrete work	sqm	106.10
13.83	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:			
	13.83.1	New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution	sqm	71.70
	13.83.A	Applying a coat of mordant paint on G.S. sheet.		
	13.83A.1	1 With a solution of 38 gms of copper acetate in a litre of soft water	sqm	19.20
	13.83.A.2	With a solution made of 13 gms 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	19.20

Code No.	Description		Unit	Rate Rs.
13.84	Painting (two or more coats) onrain water, soil, waster and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming of ready mixed zinc chromate yellow primer on new work:			
	13.84.1	50 mm diameter pipes	sqm	15.40
	13.84.2	75 mm diameter pipes	sqm	21.80
	13.84.3	100 mm diameter pipes	sqm	28.90
	13.84.4	150 mm diameter pipes	sqm	43.10
13.85	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with black anticorrosive bitumastic paint approved brand and manufacture on old work:			
	13.85.1	50 mm diameter pipes	sqm	7.10
	13.85.2	75mm diameter pipes	sqm	10.30
	13.85.3	100 mm diameter pipes	metre	13.70
	13.85.4	150 mm diameter pipes	metre	19.90
13.86	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of ready mixed zinc chromatic yellow primer on new work.			
	13.86.1	50 mm diameter pipes	metre	30.70
	13.86.2	75 mm diameter pipes	metre	42.80
	13.86.3	100 mm diameter pipes	metre	57.00
	13.86.4	150 mm diameter pipes	metre	84.90
13.87	Painting (one more coats) on rain water soil, waste and vent pipes and filings with synthetic enamel paint of approved brand and manufacture and required colour on old work:			
	13.87.1	50 mm diameter pipes	metre	14.30
	13.87.2	*75* mm diameter pipes	metre	20.80
	13.87.3	100 mm diameter pipes	metre	26.80
	13.87.4	150 mm diameter pipes	metre	38.80
13.88	Painting with oil type wood preservative of approved brand and manufacture:			
	13.88.1	New work (two or more coats)	sqm	67.40
	13.88.2	Old work(one or more coats)	sqm	64.30
13.88 A	Providing and applying two coats of fire retardent paint FR 881 unthinned on cleaned wood/ply surface @ 3.5 sqm per litre per coat inncluding preparation of base surface as per recommendationnns of fmanufacturer to make the surface fire retardent.		sqm	454.50
13.89	Coal tarring two coats on new work using 0.16 and 0.12 litre coat sqm in the first coat and second coat respectively.		sqm	129.30
13.92	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:			
	13.92.1	Two or more coats on new work	sqm	161.90
	13.92.2	One or more coats on old work	sqm	115.30
13.93	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:			
	13.93.1	Two or more coats on new work	sqm	70.40
	13.93.2	One or more coats on old work.	sqm	45.20

Code No.	Description		Unit	Rate Rs.
13.94	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:			
	13.94.1	Two or more coats on new work over an under coat of suitable shade with ordinary pain+ of approved brand and manufacture	sqm	96.10
13.95	Painting with aluminum paint of approved brand and manufacture to give an even shade.			
	13.95.1	Two or more coats on new work	sqm	125.80
	13.95.2	One or more coats on old work.	sqm	90.00
13.96	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade:			
	13.96.1	Two or more coats on new work.	sqm	160.30
	13.96.2	One or more coats on old work.	sqm	117.00
13.97	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade:			
	13.97.1	Two or more coats on new work	sqm	54.80
	13.97.2	One or more coats on old work.	sqm	79.30
13.98	Floor painting with floor enamel paint of approved brand and manufacture of required colour to give an even shade:			
	13.98.1	Two or more coats on new work.	sqm	140.40
	13.98.2	One or more coats on ole work.	sqm	103.40
13.1	Varnishing with varnish of approved brand and manufacture:			
	13.100.1	Two or more coats of glue sizing with copal varnish over an under coat of flatting varnish.	sqm	195.00
	13.100.3	One or more coats with copal varnish.	sqm	105.40
	13.100.4	Two more coats glue sizing with spar varnish or an under coat of flatting varnish.	sqm	197.20
	13.100.6	**One or more coats with sprit varnish.**	sqm	106.70
13.101	French spirit polishing:			
	13.101.1	Two or more coats on works including a coat of wood filler.	sqm	346.90
	13.101.2	One or more coats on old work.	sqm	176.30
13.104	Polishing on wood work with ready made wax polish of approved brand and manufacture:			
	13.104.1	New work	sqm	185.40
	13.104.2	Old work	sqm	130.70
13.105	Floor polishing on masonry or concrete floors with wax polish off approved brand and manufacture.		sqm	72.00
13.106	Lettering with black Japan paint of approved brand and manufacture		1 letter of 1cm hight	4.60
13.107	Re-lettering with black Japan paint of approved brand and manufacture.		1 fetter of 1cm hight	2.90

Code No.	Description		Unit	Rate Rs.
13.112	Washed stone grit plaster 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, tope 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 charges (Payment for providing grooves shall be made separately)		sqm	470.00
13.113	Forming groove of uniform size in the top layer of washed stone grit piaster as per approved pattern using wooden batten 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-charges.			
	13.113.1	15 mm wide and 15 mm deep groove	metre	26.30
	13.113.2	20 mm wide and 15 mm deep groove	metre	26.80
13.114	Extra for washed grit plaster on exterior walls of height more than 10 m from ground level for every additional hight of 3 m or part there of		sqm	52.10
13.115	Extra for washed stone grit plaster on circular work not exceeding 6m in radius (in coats).		sqm	44.90
13.116	Forming groove of uniform size from 12x12 mm and upto 25x15 mm in plastered surface as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repairs to the edges of plaster panel and finishing the groove complete as per specifications and direction of the Engineer-in-Charge.		metre	40.80
13.117	Extra for using white cement in place of ordinary cement in the top layer of the item washed stone grit plaster.		sqm	66.20

14.0 REPAIRS TO BUILDINGS

Code No.	Description		Unit	. Rate Rs.
14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.			
	14.1.1	With cement mortar 1:4 (1 cement :4 fine Sand)	sqm	213.30
	14.1.2	With cement mortar 1:4 (1cement: 4 coarse sand)	each	213.30
14.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.			
	14.2.1	Door chowkhats	each	686.10
	14.2.2	Window chowkhats	each	412.40
	14.2.3	Clerestory window chowkhats	each	308.60
14.3	Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/ Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.		each	165.30
14.4	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.			
	14.4.1	For door/ window/ clerestory window	sqm	447.40
14.5	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:			
	14.5.1	Float glass panes of thickness 4 mm	sqm	620.30
	14.5.2	Float glass panes of thickness 5.5 mm	sqm	899.70
14.6	Renewing glass panes, with wooden fillets wherever necessary:			
	14.6.1	Float glass panes of thickness 4 mm	sqm	789.30
	14.6.2	Float glass panes of thickness 5.5 mm	sqm	1068.80
14.7	Renewing glass panes and refixing existing wooden fillets:			
	14.7.1	Float glass panes of thickness 4 mm	sqm	655.20
	14.7.2	Float glass panes of thickness 5.5 mm	sqm	934.60
14.8	Supplying and fixing new wooden fillets wherever necessary:			
	14.8.1	2nd class teak wood fillets	metre	35.50
	14.8.2	Hollock wood fillets	metre	30.70
14.10	Refixing old glass panes with putty and nails		sqm	269.40

Code No.	Description	Unit	. Rate Rs.
14.11	Fixing old glass panes with wooden fillets (excluding cost of fillets)	sqm	229.60
14.12	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.	Each	242.40
14.13	Regrading terracing of mud phaska covered with tiles or brick, in cement by dismantling tiles or bricks, removing mud plaster, preparing the surface of mud phaska to proper slope, relaying mud plaster gobri leaping and tiles or bricks, grouted in cement mortar 1:3 (1 cement : 3 fine sand), including replacing unserviceable tiles or bricks with new ones and disposal of unserviceable material to the dumping ground (the cost of the new tiles or brick excluded), all complete as per direction of Engineer-in-Charge.	sqm	361.80
14.14	Replacing sand stone slabs in roofing, laid in cement mortar 1:4 (1 cement : 4 coarse sand), including necessary repairs and cement pointing with same mortar complete, including disposal of rubbish to dumping ground, all complete as per direction of Engineer-in-Charge.		
14.14.1	Red/ white sand stone slabs 30 to 50 mm thick	sqm	613.10
14.15	Renewing wooden battens in roofs, including making good the holes in wall and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.		
14.15.1	Sal wood battens	cum	81288.80
14.16	Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping 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	83263.10
14.16.1.2	Hollock wood beams	cum	49901.80
14.16.2	Above 4.00 metres and upto 5.00 metres length.		
14.16.2.1	Sal wood beams	cum	84184.20
14.16.2.2	Hollock wood beams	cum	50787.80
14.17	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.	sqm	23.80

Code No.	Description		Unit	. Rate Rs.
14.18	Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska :			
	14.18.1	With F.P.S. brick tiles	sqm	52.50
	14.18.2	With modular brick tiles	sqm	53.50
14.19	Taking out wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking.		kg	1.80
14.20	Renewing bottom rail and/or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer.		metre	73.20
14.21	Renewing bottom rail and/or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer.		kg	143.10
14.22	Renewing Wrought iron or M.S. Wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erection etc. complete.			
	14.22.1	Wheel 50 mm dia and below	per wheels	128.90
	14.22.2	Wheel above 50 mm dia	per wheels	192.60
14.23	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.		Kl	92.20
14.24	Mud mortar made with local clay good earth		cum	548.10
14.25	Brick work with common burnt clay bricks of class designation 7.5 in mud mortar		cum	4040.90
14.26	Providing and fixing 25 mm thick shutters for cup board etc. :			
	14.26.1	Panelled or panelled & glazed shutters :		
	14.26.1.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	3527.30
	14.26.2	Glazed shutters :		
	14.26.2.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	3617.30
14.27	Providing and fixing plain jaffri door and window shutters including bright or/and black enamelled M.S. butt hinges with necessary screws 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with :			
	14.27.1	Second class teak wood	sqm	2858.50
14.28	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete			
	14.28.1	20 mm diameter.	metre	236.10

Code No.	Description		Unit	. Rate Rs.
	14.28.2	25 mm diameter.	metre	261.00
14.29	Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.		Kg	77.30
14.30	Providing joists (karries) including hoisting, fixing in position and applying wood preservative on unexposed surface etc. complete with :			
	14.30.1	Sal wood	cum	80117.50
	14.30.2	Hollock wood	cum	47093.40
14.31	Providing and fixing bright finished brass single acting spring hinges with necessary brass screws etc. complete :			
	14.3.1	150 mm	Each	620.70
	14.31.2	125 mm	Each	419.00
	14.31.3	100 mm	Each	366.70
14.32	Providing and fixing bright finished brass double acting spring hinges with necessary brass screws etc. complete :			
	14.32.1	150 mm	Each	668.00
	14.32.2	125 mm	Each	558.40
	14.32.3	100 mm	Each	503.70
14.33	Providing and fixing bright finished brass flush bolts with necessary brass screws etc. complete			
	14.33.1	250 mm	Each	204.30
	14.33.2	150 mm	Each	177.80
	14.33.3	100 mm	Each	128.00
14.34	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete		Each	225.60
14.35	Providing and fixing bright finished brass hard drawn hooks and eyes :			
	14.35.1	300 mm	Each	83.90
	14.35.2	250 mm	Each	81.20
	14.35.3	200 mm	Each	76.40
	14.35.4	150 mm	Each	59.00
	14.35.5	100 mm	Each	52.80
14.36	Providing and fixing bright finished brass fan light pivot with necessary brass screws etc. complete.		Each	36.60
14.37	Providing and fixing 300 mm long bright finished brass chain with hook for fan light including necessary brass screws etc. complete.		Each	59.60
14.38	Providing and fixing bright finished brass quadrant stay 300 mm long with necessary brass screws etc. complete.		Each	165.40
14.39	Providing and fixing bright finished brass helical door spring (superior quality).		Each	425.50
14.40	Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete.			
	14.40.1	125x70x4 mm (ordinary type)	Each	165.10
	14.40.2	100x70x4 mm (ordinary type)	Each	135.00

Code No.	Description		Unit	. Rate Rs.
	14.40.3	75x65x4 mm (heavy type)	Each	153.40
	14.40.4	75x40x2.5 mm (ordinary type)	Each	86.20
	14.40.5	50x40x2.5 mm (ordinary type)	Each	37.30
14.41	Providing and fixing 85x42 mm chromium plated brass pull bolt lock with necessary chromium plated brass screws, nuts, bolts and washers etc. complete.		Each	217.20
	FINISHING			
14.42	White washing with lime to give an even shade :			
	14.42.1	Old work (two or more coats)	sqm	9.70
	14.42.2	Old work (one or more coats)	sqm	6.00
14.43	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete		sqm	7.10
14.44	Distempering with dry distemper of approved brand and manufacture (one or more coats) and of required shade on old work to give an even shade.		sqm	26.30
14.45	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :			
	14.45.1	Old work (one or more coats)	sqm	29.90
14.46	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.		sqm	9.30
14.47	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :			
	14.47.1	Old work (one or more coats)	sqm	38.40
14.48	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming coat of ready mixed zinc chromate yellow primer on new work :			
	14.48.1	75 mm diameter pipes	metre	24.60
14.49	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture on old work :			
	14.49.1	75 mm diameter pipes	metre	12.10
	14.49.2	100 mm diameter pipes	metre	15.90
	14.49.3	150 mm diameter pipes	metre	22.60
14.50	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with aluminium paint of approved brand and manufacture over a priming coat of ready mixed zinc chromate yellow primer on new work :			
	14.50.1	75 mm diameter pipes	metre	25.50
	14.50.2	100 mm diameter pipes	metre	36.00
	14.50.3	150 mm diameter pipes	metre	53.70
14.51	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work :			
	14.51.1	75 mm diameter pipes	metre	12.60
	14.51.2	100 mm diameter pipes	metre	16.20
	14.51.3	150 mm diameter pipes	metre	23.10

Code No.	Description		Unit	. Rate Rs.
14.52	Painting with oil type wood preservative of approved brand and manufacture:			
	14.52.1	Old work (one or more coats)	sqm	24.20
14.53	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:			
	14.53.1	One or more coats on old work	sqm	50.10
14.54	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :			
	14.54.1	One or more coats on old work	sqm	46.00
14.55	Painting with aluminium paint of approved brand and manufacture to give an even shade:			
	14.55.1	One or more coats on old work	sqm	39.20
14.56	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade :			
	14.56.1	One or more coats on old work	sqm	50.50
14.57	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :			
	14.57.1	One or more coats on old work	sqm	38.20
14.58	French spirit polishing :			
	14.58.1	One or more coats on old work	sqm	91.90
14.59	Polishing on wood work with ready made wax polish of approved brand and manufacture :			
	14.59.1	Old work	sqm	42.30
14.60	Re-lettering with black Japan paint of approved brand and manufacture.		Per letter per cm height	1.40
14.61	Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade.		sqm	39.60
14.62	Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin:			
	14.62.1	32 mm dia	each	63.30
	14.62.2	40 mm dia	each	63.30
14.63	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.			
	14.63.1	One or more coats on old work	sqm	26.60
14.64	Finishing walls with water proofing cement paint of required shade :			
	14.64.1	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litrs/10 sqm complete including cost of Priming coat.	sqm	50.50
	14.64.2	Old work (one or more coats @ 2.20 kg/10 sqm) complete.	sqm	33.80
14.65	Finishing walls with textured exterior paint of required shade :			
	14.65.1	Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	sqm	119.00
	14.65.2	Old work (One or more coats) applied @ 1.82 ltr/10 sqm.	sqm	72.30

Code No.	Description		Unit	. Rate Rs.
14.66	Finishing walls with Acrylic Smooth exterior paint of required shade:			
	14.66.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	sqm	63.40
	14.66.2	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	sqm	41.70
14.67	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade			
	14.67.1	Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface	sqm	65.40
	14.67.2	Old work (one or more coats applied @ 0.83 ltr/10 sqm).	sqm	43.60
14.69	Varnishing with varnish of approved brand and manufacture:			
	14.69.1	One or more coats with copal varnish	sqm	41.50
	14.69.2	One or more coats with spar varnish	sqm	42.00
14.70	Melamine polishing on wood work (one or more coat).		sqm	78.70
14.71	Varnishing with flatting varnish of approved brand and manufacture one or more coats on old work.		sqm	42.50
14.72	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer- in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.		sqm	144.50
	Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.			
14.73	Providing and fixing bright finished brass casement window fasteners or peg stays to windows/ ventilators with necessary welding and machine screws etc. complete.		kg	466.90
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	56.00
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	355.70
	ROUTINE MAINTENANCE WORK			

Code No.	Description	Unit	. Rate Rs.
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	0.20
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	45.80
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 dia for all depth.	metre	246.20
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 slit and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	sqm	36.50
14.79	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in- charge.	each	145.40
14.80	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge.		

Code No.	Description		Unit	. Rate Rs.
	14.80.1	Long pattern W.C Pan of size 580x440 mm	each	1795.90
	14.80.2	Orissa pattern W.C Pan of size 580x440 mm	each	2056.80
14.81	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.		each	116.50
14.82	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge.		each	44.90
14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.		sqm	1.30
14.84	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes within 50 metres lead as per direction of Engineer- in-Charge. (a) Internal Work - Exposed on wall		metre	2.40
14.85	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.		each	140.90

15.0 Dismantling and demolishing

Code No.	Description		Unit	Rate Rs.
15.1	Demolishing lime concrete and disposal of material within 50 metre lead.		**cum**	**283.20**
15.2	Demolishing cement concrete including disposal of material within 50 metre lead:			
	15.2.1	1:3:6 or richer mix	**cum**	**807.20**
	15.2.2	1:4:8 or leaner mix	**cum**	**498.80**
15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead:		**cum**	**1172.70**
15.4	Demolishing R.B. work including stacking of steel bars and disposal of unserviceable material within 50 metres lead:		**cum**	**1050.80**
15.5	Extra for cutting reinforcement bars in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work)		**Per RCC**	**406.20**
15.6	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work.		**kg**	**3.20**
15.7	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead:			
	15.7.1	In mud mortal	**cum**	**235.60**
	15.7.2	In lime mortar with old mugnal bricks	**cum**	**587.00**
	15.7.3	In lime mortar	**cum**	**283.20**
	15.7.4	In cement mortar	**cum**	**685.10**
15.8	Removing mortar form bricks and cleaning bricks including stacking within a lead of 50m (stacks of cleaned bricks shall be measured):			
	15.3.1	From brick work in mud mortar	**cum**	**1550.50**
	15.8.3	From brick work in lime mortar	**cum**	**1796.00**
	15.3.1	From brick work in cement mortar	**cum**	**2246.70**
15.9	Demolishing stone rubble masonry including stacking of serviceable material and disposal of unserviceable material within 50 meters lead.			
	15.9.1	In lime mortar	**cum**	**385.70**
	15.9.2	In cement mortar	**cum**	**817.10**
15.1	Desman tiling dressed stone work ashlar face stone work, marble work or precast concrete work including stacking of service able and disposal of unserviceable material within 50 metres lead:			
	15.10.1	In lime mortar	**cum**	**487.90**
	15.10,2	In cement mortar	**cum**	**955.20**
15.11	Removing mortar form stones and cleaning stones and concrete articles (net quantity of stacks of cleaned materials will be measured)			
	15.11.1	In lime mortar	**cum**	**160.53**
	15.11.2	In cement mortar	**cum**	**229.40**
15.12	Desman tiling doors windows and clerestory windows (steel or wood) shutters including chowkhats, architrage, holdfasts etc. complete and stacking within 50 metres lead:			

Code No.	Description		Unit	Rate Rs.
	15.12.1	Of area 3 sqm and below	each	125.80
	15.12.2	Of area beyond 3 sqm	each	173.10
15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 meters lead.			
	15.13.1	Of area 3 sqm and below	each	48.80
	15.13.2	Of area beyond 3 sqm	each	64.70
15.14	Dismantling wood work in frames, trusses, purlins and rafters upto 10 metres span and 5 metres height including stacking the material within 50 metres lead:			
	15.14.1	Of sectional area 40 cm* and above	cum	1528.10
	15.14.2	Of sectional area below 40cm^2	m	6.10
15.15	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional span of of one metre or part thereof beyond 10 me res:			
	15.1!).1	Of sectional area 40 cm^2 and above	metre span	215.80
	15.15.2	Of sectional area below 40 cm^2	meter span	0.60
15.16	Extra for dismantling trusses, rafters purlins etc. of wood work for every additional height of one meter or part thereof beyond 5 meters.			
	15.16.1	Of sectional area 40 square centimeters and above	cum	304.20
	15.16.2	Of sectional area below 40 square centimeters	m	1.20
15.17	Dismantling steel work in single sections including dismembering and stacking within 50 meters lead in:			
	15.17.1	R.S. Joists	kg	1.10
	15.17.2	Channels.angles, tees and flats	kg	0.80
15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plats, bolts, nuts, cutting hvets, welding etc. including dismem bering and stacking within 50 metres lead.		kg	1.90
15.19	Dismantling steel work in built up sections without dismembering and stacking within 50 metres lead		kg	1.30
15.2	Extra for dismantling trusses, rafters, purlins etc. Of steel work for every additional span of one metre or part thereof beyond 10 metres		kg	0.30
15.21	Extra for dismantling trusses, rafters, purlins etc. Of steel work for every additional height of one metre or part there of beyond 5 metres		kg	0.30
15.22	Extra for marking of structural steel work required to be re-erected.		kg	1.40
15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.			
	15.23,1	For thickness of tiles 10 mm to 25 mm	sqm	25.50
	15.23.2	For thickness of tiles above 25 mm and upto 40 mm	sqm	39.40
15.24	Demolishing dry brick pitching in floors, drains etc. including stacking serviceable material and disposal of unserviceable material within 50 metres lead.		cum	446.10

Code No.	Description		Unit	Rate Rs.
15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.		sqm	88.70
15.26	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.		sqm	36.60
15.27	Demolishing mud phaska in terracing and disposal of material within 50 metres lead		cum	307.30
15.28	Dismantling roofing including ridges, hips valleys and gutters etc. and stacking the material within 50 metres lead of:			
	15.28.1	G.S. Sheet	sqm	56.00
	15.28.2	Asbestos sheet	sqm	26.40
15.29	Dismantling stone slab roofing over wooden karries or R.C.C battens (dismantling karries and battens to be paid for separately) including stacking of serviceable material and disposal of unserviceable material within 50 metres lead:		cum	886.80
15.3	Dismantling jack arch roofing and floors including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.		sqm	85.30
15.31	Dismantling tiled roofing with battens boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.		sqm	69.60
15.32	Demolishing thatch roofing including mats,bamboo,jaffari etc, complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead .		sqm	19.20
15.33	Dismantling wooden bailies in posts and struts including stacking within 50 metres lead		m	7.00
15.34	Dismantling and stacking 50 metres lead.tencing posts or struts including all earth work and dismantling of concrete etc. in base of:			
	15.34.1	T' or 'I.' iron or pipe	each	96.40
	15,34.2	R. C. C.	each	113.10
15.35	Cutting bailies or wooden posts of fencing at the point of projection above the concrete or ground and stacking the same within 50 metres lead.		each	10.00
15.36	Dis nantling barbed wire or flexible rope in fencing including making roll:; and stacking within 50 metres lead.		kg	12.00
15.37	Dismantling wooden trellis work excluding frames but including stacking the serviceable material within 50 metres lead.		sqm	22.10
15.38	Dismantling expanded metal or R.R.C. fabrics with necessary battens and beading including stacking the serviceable material within 50 metres lead.		sqm	25.80
15.39	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead.			
	15.39.1	Upto 10 mm thick	sqm	21.30
	15.39.2	Thickness above 10 mm upto 25 mm	sqm	27.20
	15.39.3	Thickness above 25 mm upto 40 mm	sqm	32.20
15.4	Dismantling precast concrete or stone slabs in walls , partition walls etc. including stacking within 50 metres lead.			
	15.40.1	Thickness upto 40 mm	sqm	97.10

Code No.	Description		Unit	Rate Rs.
	15.40.2	Thickness above 40 mm upto 75 mm	sqm	145.30
15.41	Dismantling cement asbestos, Celotax or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.		sqm	19.60
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 .	m	25.20
	15.42.2	100 mm dia pipe	m	56.10
	15.42.3	150 mm dia pipe	m	26.90
15.43	Dismantling including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.			
	15.43.1	Water bound macadam road	sqm	74.90
	15.43.2	'. Bituminous road	sqm	145.10
15.45	Dismantling G.I. pipes including excavation and refilling trenches after taking out the pipes , breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes , lead at site within 50 metres lead.			
	15.45.1	Upto 150 mm diameter	m	139.40
	15.45.2	Above 150 mm dia upto 300 mm dia	m	189.30
	15.45.3	Above 300 mm diameter	m	105.10
15.46	Dismantling steel cylinder R.C. pipes including excavation and refilling trenches after laking out the pipes. Breaking lead caulked joints, melting of lead and making into blocks including stacking or pipes , lead at site within 50 metres lead.			
	15,46,1	Upto 600 mm diameter	m	246.60
	15.46.2	Above 600 mm diameter	m	614.80
15.47	Dismantling asbestos cement pressure pipes including excavation and refilling trenches after laking out the pipes and stacking the pipes within 50 metres lead .			
	15.47.1	Upto 150 mm diameter	m	108.00
	15.47.2	Above 150 mm diameter	m	131.30
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, wo'k and stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 metres lead.		each	237.80
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.CC. work and stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 metres		each	140.10
15.5	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	1551.90

Code No.	Description		Unit	Rate Rs.
15.51	Dismantling or road gully chamber or various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 metres lead including refilling the excavated		**each**	**322.50**
15.52	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.		**each**	**329.50**
15.53	Dismantling of C.I. sluice valve including stacking of useful materials within a lead of 50 metres.			
	15.53.	Upto 150 mm dia .	**nos**	**120.20**
	15.53.L	Above 150 mm diameter	**nos**	**413.70**
15.54	Dismantling of spindle fire hydrant including stacking of useful materials within 50 metres lead		**nos**	**246.60**
15.55	Dismantling of cement concrete platform along with curtain wall and base concrete etc. including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.			
	15.55.1	120x120 cm(outside to outside)	**nos**	**360.30**
	15.55.2	210x120 cm (outside to outside)	**nos**	**552.80**
	15.55.3	320x120 cm (outside to outside)	**nos**	**782.00**
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**	**17.90**
15.57	Dismantling alumiuium/Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 m lead as directed by Engineer-in-charge.		**sqm**	**19.60**
	BARRICADING WORK			
15.58	Providing sal ballah barricading with departmental sal ballah average 150 dia. And 2M long sal ballah post at interval of 2.5 M C/C fixed 0.5 M average below ground, packed with earth and Brick bats, well watered and rammed with three rows of average 100mm dia. Sal ballah horizontal runners fixed with iron spikes and wires, white washing one coat to exposed surface, dismantling the barricade after function, filling the holes, excluding carriage of sal ballah from and to godown up to 5K.M. lead, stacking them in countable stacks in godown including cost of all labour and materials and taxes all complete job as per specification and direction of E/I.		**Per m**	**180.80**
15.58A	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.		**Per cum**	**1218.70**

Code No.	Description	Unit	Rate Rs.
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.	**Per cum**	**188.80**
15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	**Per cum**	**142.50**

16.0 ROAD WORK

Code No.	Description		Unit	Rate
	ROADS			
16.1	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 earth with lead upto 50 metres.		**sqm**	**75.10**
16.2	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).		**cum**	**9.30**
16.3	**Supplying and stacking at site.**			
	16.3.1	90 mm to 45 mm size stone aggregate	**cum**	**696.50**
	16.3.2	63 mm to 45 mm size stone aggregate	**cum**	**573.30**
	16.3.3	53 mm to 22.4 mm size stone aggregate	**cum**	**589.30**
	16.3.4	Over burnt (Jhama) brick aggregate 120 mm to 40 mm	**cum**	**1650.50**
	16.3.5	Over burnt (Jhama) brick aggregate 90 mm to 45 mm	**cum**	**1650.50**
	16.3.6	Stone screening 13.2 mm nominal size (Type A)	**cum**	**745.60**
	16.3.7	Stone screening 11.2 mm nominal size (Type B)	**cum**	**311.90**
	16.3.8	Red bajri	**cum**	**1494.30**
	16.3.9	Good earth	**cum**	**156.70**
	16.3.10	Moorum	**cum**	**176.90**
16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .		**cum**	**392.40**
16.5	Laying water bound macadam sub-base with brick aggregate and binding material, earth etc. including screening, sorting and spreading to template and consolidation with light power road-roller etc. complete.(payment for brick aggregate and moorum etc. to be made separately)			
	16.5.1	Over burnt (Jhama) brick aggregate 120 mm to 40 mm	**cum**	**297.60**
	16.5.2	Over burnt (Jhama) brick aggregate 90 mm to 45 mm	**cum**	**297.60**
16.6	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.			
	16.6.1	With road roller/ hand roller	**sqm**	**14.60**
16.7	Brick edging in full brick width and half brick depth including excavation, 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**	**140.90**

Code No.	Description		Unit	Rate
16.8	Brick edging laid lengthwise with half brick depth including excavation, refilling 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	40.50
16.9	Scarifying metalled (water-bound) road surface including disposal of rubbish, lead upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonne capacity		sqm	12.90
16.10	Making bajri path including preparation of subgrade, supplying and laying brick aggregate of 50 mm nominal size 7.5 cm deep with blinding material consisting of 12 mm moorum and 12 mm red bajri consolidated with road roller.		sqm	204.20
16.11	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.		sqm	403.50
16.12	Dry brick pitching half brick thick in drains including supply of bricks and preparing the surface complete :			
	16.12.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	sqm	503.70
16.13	Cutting road and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required.			
	16.13.1	Bituminous portion	cum	1958.70
	16.13.2	Water bound macadam	cum	1117.90
16.14	Cutting bajri paths and making good the same including supply of extra quantities of brick aggregate, moorum and red bajri required.		sqm	119.90
	FENCING			
16.15	Supplying at site :			
	16.15.1	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in- charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	cum	18718.80
	16.15.2	Welded steel wire fabric of required width having rectangular mesh painted with two or more coats of enamel paint of approved shade over a coat of primer (Priming & Painting to be paid for separately).	kg	64.40
16.16	Supplying and fixing turn buckles and straining bolts for barbed wire fencing.		each set	147.00

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**	**8.20**
16.18	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used.		
	16.18.1 With G.I. barbed wire	**metre**	**12.50**
16.19	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	**kg**	**73.60**
16.20	Welded steel wire fabric fencing with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x 60 cm of mix 1:5:10 (1 cement:5 fine sand : 10 graded stone aggregate 40 mm nominal size), every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and struts embedded in cement concrete blocks 70x45x50 cm of the same mix, provided with welded steel wire fabric fixed between the posts fitted and fixed with G.I. staples on wooden plugs or tied to 6 mm bar nibs with G.I. binding wire (cost of posts, welded steel wire fabric, painting, earth work in excavation and concrete to be paid for separately).	**Sqm**	**26.80**
	ROAD SIGNS		
16.21	Engraving letters in hard stone	**per cm height per letter**	**4.00**
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**	**138.00**
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**	**407.70**

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**	**1689.80**
	16.24.2	50x152.5x25 cm size	**each**	**2961.00**
	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**	**129.30**
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**	**174.90**
16.27	Surface dressing on old surface with hot bitumen of grade VG - 10 of approved quality using 1.95 kg of bitumen per sqm with 1.50 cum of stone chippings 11.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity, etc. complete.		**sqm**	**103.90**
16.28	Surface dressing one coat on new surface with bitumen of specified grade at a rate of 1.95 kg/sqm of surface area with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity , etc. complete :			
	16.28.1	Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS : 8887)	**sqm**	**142.50**
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**	**84.00**
	PREMIX CARPET			
16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :			
	16.30.1	On W.B.M. @ 0.75 Kg I sqm	**sqm**	**36.40**
	16.30.2	On bituminous surface @ 0.50 Kg I sqm	**sqm**	**26.90**

Code No.	Description		Unit	Rate
16.31	Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributer including preparing the surface & cleaning with mechanical broom.			
	16.31.1	With rapid setting bitumen emulsion		
	16.31.1.1	On W.B.M / W.M.M. @ 0.4kg/sqm	**sqm**	**14.00**
	16.31.1.2	On bituminous surface @ 0.25kg/sqm	**sqm**	**9.30**
	16.31.2	With medium setting bitumen emulsion		
	16.31.2.1	On W.B.M / W.M.M. @ 0.4kg/sqm	**sqm**	**22.40**
	16.31.2.2	On bituminous surface @ 0.25kg/sqm	**sqm**	**14.50**
	Note - Use of Item No. 16.81.1 shall be restricted only per site at sub zero temperature or for emergency application			
16.32	2 cm premix carpet surfacing with 1.8 cum and 0.90 cum of stone chippings of 13.2 mm size and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately).			
	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**	**118.80**
	16.32.2	With paving Asphalt grade VG - 30 with no solvent	**sqm**	**117.30**
	16.32.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53	**sqm**	**135.80**
16.33	2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately).			
	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	**sqm**	**143.90**
	16.33.2	With paving Asphalt grade VG - 30 with no solvent	**sqm**	**142.00**
	16.33.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53	**sqm**	**165.15**
16.34	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.		**sqm**	**160.50**
16.35	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 .		**sqm**	**196.10**

Code No.	Description		Unit	Rate
16.36	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.	sqm	278.00
	16.36.2	For 75 mm compacted thickness in two layers using stone aggregate of size 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 20.0 mm graded @ 0.18 cum per 10 sqm. With paving asphalt grade VG - 10 @ 68 kg/ 10 sqm.	sqm	408.80
16.37	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 surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).			
	16.37.1	25 mm thick	sqm	449.60
	16.37.2	40 mm thick	sqm	739.20
16.38	2.5 cm thick bitumastic sheet with hot bitumen of approved quality, using stone chippings (60% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 1.65 cum per 100 sqm and coarse sand @ 1.65 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen, including consolidation with road roller of 8 to 10 tonne etc. complete. (tack coat to be paid separately) :			
	16.38.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	sqm	185.60
	16.38.2	With paving Asphalt grade VG - 30	sqm	182.50
	16.38.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP : 53	sqm	221.50
16.39	4 cm thick bitumastic sheet with hot bitumen of approved quality, using stone chippings (60% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 2.60 cum per 100 sqm and coarse sand @ 2.60 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen, including consolidation with road roller of 8 to 10 tonne etc. complete. (tack coat to be paid separately) :			

Code No.	Description		Unit	Rate
	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	282.40
	16.39.2	With paving asphalt grade VG - 30 with no solvent	sqm	277.40
	16.39.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP : 53	sqm	339.10
	SEAL COAT			
16.40	Providing and laying seal coat of premixed fine aggregate (passing2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.		sqm	51.80
16.41	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete.		sqm	69.80
	Note: Seal coat items to be operated only with the prior approval of chief Engineer concerned.			
	CONCRETE PAVEMENTS			
16.42	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete.		cum	4253.30
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, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).			
	Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately.			
	16.43.1	Cement concrete prepared with batch mixing machine	cum	5537.40
	16.43.2	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	cum	5845.10
16.44	Extra for providing and mixing hardening compound of approved quality as per manufacturer's specification in cement concrete.		litre	49.80

Code No.	Description		Unit	Rate
16.45	Providing and fixing in position pre-moulded joint filler in expansion joints.		per cm depth per cm width	2.30
16.46	Providing and laying in position bitumen hot sealing compound for expansion joints etc.			
	16.46.1	Using grade 'A' sealing compound.		2.00
	PAINTING AREA / RUNWAY MARKING			
16.47	Painting runway/taxi track/apron marking with adequate nos of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge, i/c cleaning the surface of ail dirt, scales, oil, grease and other foreign mater;al etc. and lining out complete.			
	16.47.1	New work (Two or more coats)	sqm	96.70
	16.47.2	Old work (One or more coats)	sqm	60.70
16.48	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.			
	16.48.1	New work (Two or more coats)	sqm	113.90
	16.48.2	Old work (One or more coats)	sqm	74.10
	MISCELLANEOUS			
16.49	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	1490.00
16.50	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	162.40
16.51	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	568.30

Code No.	Description		Unit	Rate
16.52	Providing and fixing precast lime fly ash concrete blocks 1:2:3:6 (1 lime: 2 fly ash : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), including finishing with 10mm thick cement mortar 1:3 (1 cement : 3 coarse sand) in foot paths, including preparation of sub grade with a hand rammer, laying 10 mm thick leveling course of fine sand (jamuna sand) and filling the joints with fine sand.		cum	5150.70
16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)		metre	264.90
16.54	Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specificatons and directions of Engineer-in-Charge.			
	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	6202.10
	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	6078.60
16.55	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specificatons and directions of Engineer-in-Charge.			
	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	4653.00

Code No.	Description		Unit	Rate
	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	4535.50
16.56	Providing and laying semi- dense Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in- Charge.			
	16.56.1	25 mm compacted thickness with bitumen of grade VG- 30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	sqm	156.80
	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	153.70
16.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, 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	19323.30
	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	7390.50
	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	8170.50
	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	8239.80

Code No.	Description		Unit	Rate
	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**	**6729.30**
	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**	**7245.70**
	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**	**8025.70**
	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**	**8113.70**
16.59	Manufacturing, supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi- lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5 mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours).Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing,		
	16.59.1	Mandatory/ Regulatory sign boards of 900 mm diametre with support length of 3750 mm	**each**	**5065.80**
	16.59.2	Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm	**each**	**3594.50**

Code No.	Description	Unit	Rate
16.6	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete 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**	**5106.80**
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**	**5582.40**
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 specifications.	**sqm**	**393.00**
16.63	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**	**401.70**

Code No.	Description		Unit	Rate
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	209.80
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	624.20
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	33.00
16.67	Providing and fixing at or near ground level factory made RCC pavement slab of M-30 grade of size 450x450x50 mm, including reinforcement with 6 mm dia M.S. bars 4 nos on each side, including setting in position in footpath to the required level and line over a bed of 20 mm average thick cement mortar 1:5 (1 cement : 5 coarse sand), having joint thickness not more than 5mm except on curve, including filling of joints with same cement mortar and making grooves etc. complete as per direction of Engineer-in-charge.		sqm	618.80
16.68	Providing and laying 60mm thick faciory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved s;ze, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.		sqm	541.50
16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).		cum	5180.80
16.70	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.			
	16.70.1	Made of G.I. wire of dia 4 mm	sqm	559.40
	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	594.70

Code No.	Description		Unit	Rate
16.71	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.		sqm	666.60
16.72	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.		cum	962.10
16.73	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).		sqm	225.30
16.74	75 mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with :			
	16.74.1	Moorum	sqm	30.20
	16.74.2	Stone aggregate 20 mm nominal size	sqm	63.30
	16.74.3	Stone aggregate 40 mm nominal size	sqm	52.10
16.75	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-in-charge. (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	5780.00
16.76	Deduct for using of M-20 grade concrete instead of M-25 grade concrete in C.C. pavement.		cum	207.60
16.77	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material within all lifts and lead upto 1km (by mechanical means).		sqm	3.70
16.78	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-I (size range 75 mm to 0.075 mm) having CBR Value-30	cum	1106.10
	16.78.2	With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25	cum	1107.90
	16.78.3	With material conforming to Grade-III (size range 26.5 mm to 0.075 mm) having CBR Value-20	cum	1126.40

Code No.	Description	Unit	Rate
16.79	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.	1077.60
16.80	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer- in- charge.	cum	1965.60
16.81	Providing and erecting 2.00 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in- Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.	metre	1373.20
	(**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).		
16.82	Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	metre	13.20
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	50.80
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	58.90

Code No.	Description	Unit	Rate
16.85	Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)	metre	38.50
16.86	Providing and laying gang saw cut 18 mm thick, mirror polished pre moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring 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	3036.20
16.87	Providing and laying gang saw cut 30 mm thick, mirror polished pre moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring in road side plazas and similar locations, laid over 20mm thick base of cement mortar 1:4 (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 area less than 0.50 sqm.	sqm	3363.10
16.88	Providing and laying matt finished vitrified tile of size 100x100x16mm having water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in out door floors such as footpath, court yard multi models etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as direction of Engineer-in-Charge.	sqm	826.10
16.89	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in 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	741.40

Code No.	Description		Unit	Rate
16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having water absorption less than 0.5% and conforming to IS: 15622, of approved make in all colours and shades in 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**	**1477.30**
16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway 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 course 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, all complete as per manufacturer's specifications & direction of Engineer- in-Charge.			
	16.91.1	60mm thick Cement concrete paver block of M-35 grade with approved colour, design & pattern	**sqm**	**731.50**
	16.91.2	80mm thick Cement concrete paver block of M-30 grade with approved colour, design & pattern.	**sqm**	**568.80**
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**	**1309.10**
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**	**1987.50**

Code No.	Description	Unit	Rate
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 ± 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 2.2mm, 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	2547.90
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%) Zinc+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-in-charge.	cum	2753.40
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%), Zinc+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	3232.80

17.0 SANITARY INSTALLATIONS

Code No.	Description		Unit	Rate Rs.
17.1	Providing and fixing water closet squatting pan (Indian type W.C.pan) with 100 mm sand cast Iron P or S trap, 10 litre low fixtures complete, including cutting and making good the walls andlevel white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and floors wherever required :			
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	3390.90
	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	6902.50
17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :			
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	3310.00
	17.2.2	W.C. pan with ISI marked black solid plastic seat and lid	each	3285.10
17.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :			
	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid	each	4554.00
	17.3.2	W.C. pan with ISI marked black solid plastic seat and lid	each	4529.10
17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :			
	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	each	3340.60
	17.4.2	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	each	5121.70
	17.4.3	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern	each	7048.30
	17.4.4	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern	each	9560.40

Code No.		Description	Unit	Rate Rs.
17.5		Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern,with fittings, standard size C.P. brass lush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS :2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :		
	17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	each	5643.90
	17.5.2	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern	each	8518.70
	17.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	10814.40
	17.5.4	Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	12973.50
17.6		Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C.automatic flushing cistern, with fittings, standard size G.I. / PVCflush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required :		
	17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern	each	4551.30
	17.6.2	Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern	each	**6839.20**
	17.6.3	Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern	each	**9150.40**
	17.6.4	Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern	each	**11220.40**
17.7		Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :		
	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	**each**	**2307.10**
	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	**each**	2018.10
	17.7.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	**each**	2089.20
	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	**each**	1800.20
	17.7.5	White Vitreous China Angle back wash basin size 600x480 mm with single 15 mm C.P. brass pillar tap	**each**	2018.10
	17.7.6	White Vitreous China Angle back wash basin size 400x400 mm with single 15 mm C.P. brass pillar tap	**each**	1644.50
	17.7.7	White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap	**each**	1520.00

Code No.	Description		Unit	Rate Rs.
	17.7.8	White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of 15 mm C.P. brass pillar taps with elbow operated levers	**each**	3247.30
	17.7.9	White Vitreous China Surgeon type wash basin of size660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI marked	**each**	2659.40
	17.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap	**each**	2983.20
	17.7.11	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap	**each**	2983.20
17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.		**each**	1066.10
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 glazed fire clay kitchen sink of size 600x450x250 mm	**each**	2480.10
17.10	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	4217.70
	17.10.1.2	510x1040 mm bowl depth 225 mm	each	3906.30
	17.10.1.3	510x1040 mm bowl depth 200 mm	each	3844.10
	17.10.1.4	510x1040 mm bowl depth 178 mm	each	3781.80
17.10.2	Kitchen sink without drain board			
	17.10.2.1	610x510 mm bowl depth 200 mm	each	2547.50
	17.10.2.2	610x460 mm bowl depth 200 mm	each	2211.20
	17.10.2.3	470x420 mm bowl depth 178 mm	each	2024.40
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	2436.50
	17.11.2	Size 600x450x200 mm	each	3314.40
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 600x450x25 mm	each	935.40
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	1023.90
	17.13.2	Orissa pattern W.C. pan of size 580x440 mm	each	1434.80
17.14	Extra for using coloured W.C. pan instead of white W.C. pan :			

Code No.	Description		Unit	Rate Rs.
	17.14.1	Orissa pattern W.C. pan 580x440 mm	each	249.00
17.15	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.		each	1335.20
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	684.90
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	171.40
	17.17.2	250x125x25 mm	pair	171.40
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.			
	17.18.1	10 litre capacity - White	each	860.40
	17.18.2	10 litre capacity - coloured	each	790.00
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	1431.50
	17.19.2	10 litre (full flush) capacity-coloured	each	1929.60
17.20	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :			
	17.20.1	White solid plastic seat with lid	each	443.20
	17.20.2	Black solid plastic seat with lid	each	418.30
	17.20.3	Coloured (other than black & white) solid plastic seat with lid	each	536.60
17.21	**Deleted.**			
17.22	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.		each	107.00
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.		each	901.70
17.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.		each	2170.90
17.25	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :			
	17.25.1	Flat back wash basin of size 630x450 mm	each	1055.30
	17.25.2	Flat back wash basin of size 550x400 mm	each	837.40
	17.25.3	Angle back wash basin of size 600x480 mm	each	1055.30
	17.25.4	Angle back wash basin of size 400x400 mm	each	681.70
	17.25.5	Flat back wash basin of size 450x300 mm	each	557.20
	17.25.6	Surgeon type wash basin of size 660x460 mm	each	1397.70
17.26	Providing and fixing kitchen sink including making all connections excluding cost of fittings.			
	17.26.1	White glazed fire clay sink of size 600x450x250 mm	each	1742.20
17.27	Providing and fixing white vitreous china laboratory sink including making all connections excluding cost of fittings :			
	17.27.1	Size 450x300x150 mm	each	1144.50
	17.27.2	Size 600x450x200 mm	each	2022.40
17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.			
	17.28.1	Semi rigid pipe		
	17.28.1.1	32 mm dia	each	86.20

Code No.		Description	Unit	Rate Rs.
	17.28.1.2	40 mm dia	each	92.40
	17.28.2	Flexible pipe		
	17.28.2.1	32 mm dia	each	83.70
	17.28.2.2	40 mm dia	each	86.20
17.29		Providing and fixing 100 mm sand cast Iron grating for gully trap.	each	32.40
17.30		Providing and fixing in position 25 mm diameter mosquito proof coupling of approved municipal design.	each	41.70
17.31		Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	741.90
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 :		
	17.32.1	Circular shape 450 mm dia	each	846.90
	17.32.2	Rectangular shape 453x357 mm	each	683.80
	17.32.3	Oval shape 450x350 mm (outer dimensions)	each	744.60
	17.32.4	Rectangular shape 1500x450 mm	each	1295.20
17.33		Providing and fixing 600x120x5 mm glass shelf with edges round off,supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	each	521.20
17.34		Providing and fixing toilet paper holder :		
	17.34.1	C.P. brass	each	363.00
	17.34.2	Vitreous china	each	266.60
17.35		Providing and fixing soil, waste and vent pipes :		
	17.35.1	100 mm dia		
	17.35.1.1	Sand cast iron S&S pipe as per IS: 1729	metre	916.20
	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	metre	979.00
	17.35.2	75 mm diameter :		
	17.35.2.1	Sand cast iron S&S pipe as per IS: 1729	metre	756.30
	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	metre	907.30
17.36		Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :		
	17.36.1	75 mm dia pipe	each	60.50
	17.36.2	100 mm dia pipe	each	71.30
17.37		Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size),including cost of cutting holes and making good the walls etc. :		
	17.37.1	For 100 mm dia pipe	each	124.00
	17.37.2	For 75 mm dia pipe	each	121.50
17.38		Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.		
	17.38.1	100 mm dia		
	17.38.1.1	Sand cast iron S&S as per IS - 1729	each	368.80
	17.38.1.2	Sand cast iron S&S as per IS - 3989	each	416.10
	17.38.2	75 mm dia		

Code No.		Description	Unit	Rate Rs.
	17.38.2.1	Sand cast iron S&S as per IS - 1729	each	293.70
	17.38.2.2	Sand cast iron S&S as per IS- 3989	each	358.50
17.39	Providing and fixing plain bend of required degree.			
	17.39.1	100 mm dia		
	17.39.1.1	Sand cast iron S&S as per IS - 1729	each	518.60
	17.39.1.2	Sand cast iron S&S as per IS : 3989	each	362.60
	17.39.2	75 mm dia		
	17.39.2.1	Sand cast iron S&S as per IS -1729	each	237.70
	17.39.2.2	Sand cast iron S&S as per IS - 3989	each	268.80
17.40	Providing and fixing heel rest sanitary bend			
	17.40.1	100 mm dia		
	17.40.1.1	Sand cast iron S&S as per IS - 1729	each	343.90
	17.40.1.2	Sand cast iron S&S as per IS - 3989	each	401.20
	17.40.2	75 mm dia		
	17.40.2.1	Sand cast iron S&S as per IS - 1729	each	299.90
	17.40.2.2	Sand cast iron S&S as per IS - 3989	each	337.30
17.41	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :			
	17.41.1	100x100x100x100 mm		
	17.41.1.1	Sand cast iron S&S as per IS - 1729	each	739.50
	17.41.1.2	Sand cast iron S&S as per IS - 3989	each	820.50
	17.41.2	75x75x75x75 mm		
	17.41.2.1	Sand cast iron S&S as per IS - 1729	each	573.90
	17.41.2.2	Sand cast iron S&S as per IS - 3989	each	642.40
17.42	Providing and fixing double equal plain junction of required degree.			
	17.42.1	100x100x100x100 mm		
	17.42.1.1	Sand cast iron S&S as per IS - 1729	each	680.10
	17.42.1.2	Sand cast iron S&S as per IS - 3989	each	804.60
	17.42.2	75x75x75x75 mm		
	17.42.2.1	Sand cast iron S&S as per IS - 1729	each	456.80
	17.42.2.2	Sand cast iron S&S as per IS - 3989	each	601.30
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	100x100x100 mm		
	17.43.1.1	Sand cast iron S&S as per IS - 1729	each	523.20
	17.43.1.2	Sand cast iron S&S as per IS - 3989	each	671.40
	17.43.2	75x75x75 mm		
	17.43.2.1	Sand cast iron S&S as per IS - 1729	each	390.80
	17.43.2.2	Sand cast iron S&S as per IS - 3989	each	509.10
17.44	Providing and fixing single equal plain junction of required degree :			
	17.44.1	100x100x100 mm		
	17.44.1.1	Sand cast iron S&S as per IS - 1729	each	592.90
	17.44.1.2	Sand cast iron S&S as per IS - 3989	each	620.30
	17.44.2	75x75x75 mm		
	17.44.2.1	Sand cast iron S&S as per IS - 1729	each	356.00
	17.44.2.2	Sand cast iron S&S as per IS - 3989	each	436.90
17.45	Providing and fixing double unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :			
	17.45.1	100x100x75x75 mm		
	17.45.1.1	Sand cast iron S&S as per IS - 1729	each	739.90
	17.45.1.2	Sand cast iron S&S as per IS - 3989	each	1113.40

Code No.	Description		Unit	Rate Rs.
17.46	Providing and fixing double unequal plain junction of required degree :			
	17.46.1	100x100x75x75 mm		
	17.46.1.1	Sand cast iron S&S as per IS - 1729	each	717.40
	17.46.1.2	Sand cast iron S&S as per IS - 3989	each	1028.80
17.47	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	100x100x75 mm		
	17.47.1.1	Sand cast iron S&S as per IS - 1729	each	553.10
	17.47.1.2	Sand cast iron S&S as per IS - 3989	each	851.90
17.48	Providing and fixing single unequal plain junction of required degree :			
	17.48.1	100x100x75 mm		
	17.48.1.1	Sand cast iron S&S as per IS - 1729	each	493.30
	17.48.1.2	Sand cast iron S&S as per IS - 3989	each	742.40
17.49	Providing and fixing double equal plain invert branch of required degree:			
	17.49.1	100x100x100x100 mm		
	17.49.1.1	Sand cast iron S&S as per IS - 1729	each	717.40
	17.49.1.2	Sand cast iron S&S as per IS 3989	each	692.50
	17.49.2	75x75x75x75 mm		
	17.49.2.1	Sand cast iron S&S as per IS - 1729	each	536.50
	17.49.2.2	Sand cast iron S&S as per IS - 3989	each	555.20
17.50	Providing and fixing single equal plain invert branch of required degree :			
	17.50.1	100x100x100 mm		
	17.50.1.1	Sand cast iron S&S as per iron 1729	each	543.10
	17.50.1.2	Sand cast iron S&S as per IS - 3989	each	561.80
	17.50.2	75x75x75 mm		
	17.50.2.1	Sand cast iron S&S as per IS - 1729	each	424.50
	17.50.2.2	Sand cast iron S&S as per IS - 3989	each	428.20
17.51	Providing and fixing double unequal invert branch of required degree :			
	17.51.1	100x100x75x75 mm		
	17.51.1.1	Sand cast iron S&S as per IS - 1729	each	742.40
	17.51.1.2	Sand cast iron S&S as per IS - 3989	each	935.40
17.52	Providing and fixing single unequal plain invert branch of required degree :			
	17.52.1	100x100x75 mm		
	17.52.1.1	Sand cast iron S&S as per IS - 1729	each	649.00
	17.52.1.2	Sand cast iron S&S as per IS - 3989	each	711.20
17.53	Providing and fixing sand cast iron S&S off sets as per IS: 1729			
	17.53.1	76 mm off sets		
	17.53.1.1	With 75 mm dia pipe	each	297.40
	17.53.1.2	With 100 mm dia pipe	each	478.00
	17.53.2	114 mm off sets		
	17.53.2.1	With 75 mm dia pipe	each	406.10
	17.53.2.2	With 100 mm dia pipe	each	509.50
	17.53.3	152 mm off sets		
	17.53.3.1	With 75 mm dia pipe	each	489.00
	17.53.3.2	With 100 mm dia pipe	each	609.80
17.54	Providing and fixing sand cast iron S&S off sets as per IS: 3989 :			
	17.54.1	75 mm off sets		
	17.54.1.1	With 75 mm dia pipe	each	306.20
	17.54.2	150 mm off sets		

Code No.		Description	Unit	Rate Rs.
	17.54.2.1	With 75 mm dia pipe	each	393.70
	17.54.2.2	With 100 mm dia pipe	each	524.50
17.55	Providing and fixing door piece, insertion rubber washer 3mm thick,bolts & nuts complete :			
	17.55.1	100 mm		
	17.55.1.1	Sand cast iron S&S as per IS - 1729	each	553.10
	17.55.1.2	Sand cast iron S&S as per IS - 3989	each	553.10
	17.55.2	75 mm		
	17.55.2.1	Sand cast iron S&S as per IS - 1729	each	387.10
	17.55.2.2	Sand cast iron S&S as per IS - 3989	each	387.10
17.56	Providing and fixing terminal guard :			
	17.56.1	100 mm		
	17.56.1.1	Sand cast iron S&S as per IS - 1729	each	269.20
	17.56.1.2	Sand cast iron S&S as per IS - 3989	each	361.30
	17.56.2	75 mm		
	17.56.2.1	Sand cast iron S&S as per IS - 1729	each	214.00
	17.56.2.2	Sand cast iron S&S as per IS - 3989	each	287.50
17.57	Providing and fixing collar :			
	17.57.1	100 mm		
	17.57.1.1	Sand cast iron S&S as per IS - 1729	each	204.40
	17.57.1.2	Sand cast iron S&S as per IS - 3989	each	380.00
	17.57.2	75 mm		
	17.57.2.1	Sand cast iron S&S as per IS - 1729	each	140.50
	17.57.2.2	Sand cast iron S&S as per IS - 3989	each	237.70
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	297.90
	17.58.2	75 mm	each	255.00
	17.58.3	50 mm	each	206.30
17.59	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :			
	17.59.1	100 mm	each	69.90
	17.59.2	75 mm	each	63.30
	17.59.3	50 mm	each	57.70
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	979.50
	17.60.1.2	Sand Cast Iron S&S as per IS: 1729	each	780.30
	17.60.2	100 mm inlet and 75 mm outlet		
	17.60.2.1	Sand cast iron S&S as per IS - 3989	each	1020.60
	17.60.2.2	Sand Cast Iron S&S as per IS- 1729	each	709.30
17.61	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size), including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :			
	17.61.1	100 mm dia	metre	287.90
	17.61.2	75 mm dia	metre	207.10
	17.61.3	50 mm dia	metre	134.00

Code No.	Description		Unit	Rate Rs.
17.62	Painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint over a coat of zinc chromate yellow primer (of approved quality) .on the outside surface of the cistern, flush pipe,other fittings, etc. complete for new work		each	409.50
17.63	Re-painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint on the outside surface of the cistern, flush pipe, other fittings, etc. complete, including polishing of wooden seat and lid and cleaning of W.C. pan with acid wherever necessary.		each	299.40
17.64	Repainting C.I. cistern with synthetic enamel paint of approved colour,brand and manufacture on the outside surface of cistern, flush pipe, other fittings etc. complete.		each	123.00
17.65	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :			
	17.65.1	100 mm diameter pipe	metre	38.00
	17.65.2	75 mm diameter pipe	metre	29.10
17.66	Repainting sand cast iron/ centrifugally cast iron (spun) iron, soil,waste, vent pipes and fittings with one coat of synthetic enamel paint of any colour such as chocolate, grey or buff etc :			
	17.66.1	100 mm diameter pipe	metre	18.60
	17.66.2	75 mm diameter pipe	metre	13.90
17.67	Repainting bath tub of size 1700x730x430 mm with enamel paint.		each	373.70
17.68	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C pan) with seat & lid fixed with C.P. brass hinges and rubber buffers, 10 litre low level flushing cistern with fitting and brackets,40 mm flush bend, 20 mm over flow pipe, with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :			
	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	6499.90
17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink,of approved 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	93.70
	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	each	111.10
17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.			

Code No.	Description		Unit	Rate Rs.
	17.70.1	Bottle t rap 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	320.30
	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	332.80
17.71	Providing and fixing PTMT liquid soap container 109 mm wide,125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.		each	149.50
17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour,weighing not less than 88 gms.		each	216.90
17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement 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	367.50
	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	402.40
17.74	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms.		each	453.40
17.75	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60 gms.		each	115.90
17.76	Providing and fixing PTMT urinal cock of approved quality and colour.			
	17.76.1	15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms	each	156.40
17.77	Providing and fixing M.S. holder bat clamp of approved design to sand cast iron/ cast iron (spun) pipes comprising of M.S. flat brackets made of 50x5 mm flat of specified shape, projecting 75 mm outside the wall surface and fixed on wall with 4nos, 6mm dia expansion hold fasteners, including drilling necessary holes in brick wall/ CC/ RCC surface and the cost of bolts etc. The pipes shall be fixed to the already fixed brackets with the help of 30 mm x1.6 mm galvanised M.S. flats of specified shape and of total length 420 mm and shall be fixed with M.S. nuts, bolts, & washers of size 25x6 mm, one bolts on each side of the pipe.			
	17.77.1	Total bracket length 580 mm of approved shape and design (for single 100 mm dia pipe)	each	192.40

Code No.	Description		Unit	Rate Rs.
	17.77.2	Total bracket length 810 mm of approved shape and design (for two 100 mm dia pipes)	each	235.40
	17.77.3	Total bracket length 1040 mm of approved shape and design (for three 100 mm dia pipes)	each	278.30
17.78	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting,of flushing capacity 3 litre/6 litre (adjustable to 4 litre/8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.		each	9978.40
17.79	Providing & fixing white vitreous china water less urinal of size 600 x 330 x 315 mm having antibacterial /germs free ceramic surface,fixed with cartridge having debris catcher and hygiene seal.		each	15998.10
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	5407.30

18.0 WATER SUPPLY

Code No.	Description		Unit	Rate Rs.
	PE - AL - PE COMPOSITE PRESSURE PIPES			
18.1	**Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-ALPE) 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 0C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes testing of joints complete as per direction of the Engineer in charge.**			
	Internal work - Exposed on wall			
	18.1.1	1216 (16 mm OD) pipe	metre	165.80
	18.1.2	1620 (20 mm OD) pipe	metre	198.20
	18.1.3	2025 (25 mm OD) pipe	metre	256.50
	18.1.4	2532 (32 mm OD) pipe	metre	343.80
	18.1.5	3240 (40 mm OD) pipe	metre	495.00
	18.1.6	4050 (50 mm OD) pipe	metre	648.80
18.2	**Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-ALPE) 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 0C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge.**			
	Concealed work, including cutting chases and making good the wall etc.			
	18.2.1	1216 (16 mm OD) pipe	metre	273.10
	18.2.2	1620 (20 mm OD) pipe	metre	308.00
	18.2.3	2025 (25 mm OD) pipe	metre	377.70
	18.2.4	2532 (32 mm OD) pipe	metre	480.10
18.3	**Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-ALPE) 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 0C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with trenching, refilling and testing of joints complete as per direction of the engineer in charge.**			
	External work			
	18.3.1	1216 (16 mm OD) pipe	metre	155.40
	18.3.2	1620 (20 mm OD) pipe	metre	181.30
	18.3.3	2025 (25 mm OD) pipe	metre	233.10
	18.3.4	2532 (32 mm OD) pipe	metre	309.10
	18.3.5	3240 (40 mm OD) pipe	metre	444.90
	18.3.6	4050 (50 mm OD) pipe	metre	598.70

Code No.	Description		Unit	Rate Rs.
	PP- R PIPES			
18.4	**Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4, U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer in Charge.**			
	Internal work - Exposed on wall			
	18.4.1	PN - 16 Pipe, 16 mm OD	metre	127.70
	18.4.2	PN - 16 Pipe, 20 mm OD	metre	167.90
	18.4.3	PN - 16 Pipe, 25 mm OD	metre	226.60
	18.4.4	PN - 16 Pipe, 32 mm OD	metre	328.80
	18.4.5	PN - 16 Pipe, 40 mm OD	metre	473.30
	18.4.6	PN - 16 Pipe, 50 mm OD	metre	675.40
18.5	**Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4, U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.**			
	Concealed work, including cutting chases and making good the walls etc.,			
	18.5.1	PN - 16 Pipe, 16 mm OD	metre	221.90
	18.5.2	PN - 16 Pipe, 20 mm OD	metre	267.20
	18.5.3	PN - 16 Pipe, 25 mm OD	metre	337.50
	18.5.4	PN - 16 Pipe, 32 mm OD	metre	459.90
18.6	**Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes, U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer in Charge.**			
	External work			
	18.6.1	PN - 16 Pipe, 16 mm OD (SDR - 7.4)	metre	117.30
	18.6.2	PN - 16 Pipe, 20 mm OD (SDR - 7.4)	metre	154.10
	18.6.3	PN - 16 Pipe, 25 mm OD (SDR - 7.4)	metre	208.10
	18.6.4	PN - 16 Pipe, 32 mm OD (SDR - 7.4)	metre	299.00
	18.6.5	PN - 16 Pipe, 40 mm OD (SDR - 7.4)	metre	423.20
	18.6.6	PN - 16 Pipe, 50 mm OD (SDR - 7.4)	metre	625.20
	18.6.7	PN - 16 Pipe, 63 mm OD (SDR - 7.4)	metre	943.80
	18.6.8	PN - 16 Pipe, 75 mm OD (SDR - 7.4)	metre	1258.60
	18.6.9	PN - 16 Pipe, 90 mm OD (SDR - 7.4)	metre	1900.80
	18.6.10	PN - 10 Pipe, 110 mm OD (SDR - 11)	metre	2126.40
	18.6.11	PN - 10 Pipe, 160 mm OD (SDR - 11)	metre	4372.50
	C.P.V.C. PIPES			
18.7	**Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.**			

Code No.	Description		Unit	Rate Rs.
	Internal work - Exposed on wall			
	18.7.1	15 mm nominal outer dia Pipes	metre	128.60
	18.7.2	20 mm nominal outer dia Pipes	metre	165.90
	18.7.3	25 mm nominal outer dia Pipes	metre	204.70
	18.7.4	32 mm nominal outer dia Pipes	metre	279.10
	18.7.5	40 mm nominal outer dia Pipes	metre	373.60
	18.7.6	50 mm nominal outer dia Pipes	metre	548.50
18.8	**Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.**			
	Concealed work, including cutting chases and making good the walls etc.			
	18.8.1	15 mm nominal outer dia Pipes	metre	214.30
	18.8.2	20 mm nominal outer dia Pipes	metre	255.70
	18.8.3	25 mm nominal outer dia Pipes	metre	308.00
	18.8.4	32 mm nominal outer dia Pipes	metre	393.00
18.9	**Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.**			
	External work			
	18.9.1	15 mm nominal outer dia Pipes	metre	111.70
	18.9.2	20 mm nominal outer dia Pipes	metre	142.40
	18.9.3	25 mm nominal outer dia Pipes	metre	186.20
	18.9.4	32 mm nominal outer dia Pipes	metre	249.30
	18.9.5	40 mm nominal outer dia Pipes	metre	323.50
	18.9.6	50 mm nominal outer dia Pipes	metre	498.30
	18.9.7	62.50 mm nominal inner dia Pipes	metre	1133.80
	18.9.8	75 mm nominal inner dia Pipes	metre	1261.60
	18.9.9	100 mm nominal inner dia Pipes	metre	1700.30
	18.9.10	150 mm nominal inner dia Pipes	metre	2529.40
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	177.80
	18.10.2	20 mm dia nominal bore	metre	215.90
	18.10.3	25 mm dia nominal bore	metre	239.00
	18.10.4	32 mm dia nominal bore	metre	300.10
	18.10.5	40 mm dia nominal bore	metre	383.30
	18.10.6	50 mm dia nominal bore	metre	458.40
18.11	**Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :**			
	18.11.1	15 mm dia nominal bore	metre	256.00
	18.11.2	20 mm dia nominal bore	metre	288.50
18.12	**Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.**			
	External work			

Code No.		Description	Unit	Rate Rs.
	18.12.1	15 mm dia nominal bore	metre	154.20
	18.12.2	20 mm dia nominal bore	metre	182.20
	18.12.3	25 mm dia nominal bore	metre	201.60
	18.12.4	32 mm dia nominal bore	metre	246.10
	18.12.5	40 mm dia nominal bore	metre	302.20
	18.12.6	50 mm dia nominal bore	metre	346.90
	18.12.7	65 mm dia nominal bore	metre	458.70
	18.12.8	80 mm dia nominal bore	metre	592.30
18.13	**Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :**			
	18.13.1	25 to 40 mm nominal bore	each	338.40
	18.13.2	50 to 80 mm nominal bore	each	711.50
18.14	**Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).**		each	288.60
	BRASS FITTINGS			
18.15	**Providing and fixing brass bib cock of approved quality :**			
	18.15.1	15 mm nominal bore	each	280.90
	18.15.2	20 mm nominal bore	each	303.00
18.16	**Providing and fixing brass stop cock of approved quality :**			
	18.16.1	15 mm nominal bore	each	280.90
	18.16.2	20 mm nominal bore	each	303.00
18.17	**Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :**			
	18.17.1	25 mm nominal bore	each	461.80
	18.17.2	32 mm nominal bore.	each	540.00
	18.17.3	40 mm nominal bore	each	630.30
	18.17.4	50 mm nominal bore	each	926.20
	18.17.5	65 mm nominal bore	each	1383.70
	18.17.6	80 mm nominal bore	each	2062.70
18.18	**Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :**			
	18.18.1	15 mm nominal bore	each	313.50
	18.18.2	20 mm nominal bore	each	357.40
	18.18.3	25 mm nominal bore	each	364.10
18.19	**Providing and fixing gun metal non- return valve of approved quality (screwed end) :**			
	18.19.1	25 mm nominal bore		
	18.19.1.1	Horizontal	each	443.50
	18.19.1.2	Vertical	each	468.40
	18.19.2	32 mm nominal bore		
	18.19.2.1	Horizontal	each	596.10
	18.19.2.2	Vertical	each	658.30
	18.19.3	40 mm nominal bore		
	18.19.3.1	Horizontal	each	736.20
	18.19.3.2	Vertical	each	910.50
	18.19.4	50 mm nominal bore		
	18.19.4.1	Horizontal	each	1063.40
	18.19.4.2	Vertical	each	1163.00
	18.19.5	65 mm nominal bore		
	18.19.5.1	Horizontal	each	1900.80
	18.19.5.2	Vertical	each	1913.30
	18.19.6	80 mm nominal bore		

Code No.	Description		Unit	Rate Rs.
	18.19.6.1	Horizontal	each	2688.80
	18.19.6.2	Vertical	each	3162.00
18.20	**Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :**			
	18.20.1	15 mm nominal bore	each	271.40
	18.20.2	20 mm nominal bore	each	321.40
	18.20.3	25 mm nominal bore	each	416.70
18.21	**Providing and fixing uplasticised PVC connection pipe with brass ions :**			
	18.21.1	30 cm length		
	18.21.1.1	15 mm nominal bore	each	66.80
	18.21.1.2	20 mm nominal bore	each	73.00
	18.21.2	45 cm length		
	18.21.2.1	15 mm nominal bore	each	76.10
	18.21.2.2	20 mm nominal bore	each	92.30
18.22	**Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :**			
	18.22.1	100 mm diameter	each	78.50
	18.22.2	150 mm diameter	each	94.10
	C.I/ DUCTILE IRON PIPES & SPECIALS			
18.23	**Laying in position centrifugally cast (spun) iron S&S or flanged pipes (excluding cost of pipe).**		quintal	124.40
18.24	**Laying in position S&S or flanged C.I. special such as tees, bends,collars, tapers and caps etc.(excluding cost of specials).**		quintal	316.30
18.25	**Providing and laying S&S C.I. standard specials such as tees, bends,collars, tapers, caps etc. (Heavy class) :**			
	18.25.1	Up to 300 mm dia	quintal	4812.00
	18.25.2	Over 300 mm dia	quintal	4936.50
18.26	**Providing and laying flanged C.I. standard specials such as tees,bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538 :**			
	18.26.1	Up to 300 mm dia	quintal	7178.00
	18.26.2	Over 300 mm dia	quintal	7178.00
18.27	**Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 :**			
	18.27.1	100 mm dia pipe	metre	1148.50
	18.27.2	125 mm dia pipe	metre	1431.00
	18.27.3	150 mm dia pipe	metre	1726.40
	18.27.4	200 mm dia pipe	metre	2931.20
	18.27.5	250 mm dia pipe	metre	3826.90
	18.27.6	300 mm dia pipe	metre	5160.10
	18.27.7	350 mm dia pipe	metre	6188.80
	18.27.8	400 mm dia pipe	metre	8154.40
	18.27.9	450 mm dia pipe	metre	9874.00
	18.27.10	500 mm dia pipe	metre	11462.60
	18.27.11	600 mm dia pipe	metre	16030.10
18.28	**Providing lead caulked joints to spun iron or C.I. pipes and specials, including testing of joints but excluding the cost of pig lead :**			
	18.28.1	100 mm diameter pipe	each	188.4
	18.28.2	125 mm diameter pipe	each	277.3
	18.28.3	150 mm diameter pipe	each	282.9
	18.28.4	200 mm diameter pipe	each	375
	18.28.5	250 mm diameter pipe	each	468.6
	18.28.6	300 mm diameter pipe	each	564.6

Code No.	Description		Unit	Rate Rs.
	18.28.7	350 mm diameter pipe	each	583.7
	18.28.8	400 mm diameter pipe	each	759.6
	18.28.9	450 mm diameter pipe	each	851.2
	18.28.10	500 mm diameter pipe	each	901.30
	18.28.11	600 mm diameter pipe	each	1213.10
18.29	**Supplying pig lead at site of work.**		quintal	17197.30
18.30	**Providing flanged joints to double flanged C.I./ D.I. pipes and specials, including testing of joints :**			
	18.30.1	80 mm diameter pipe	each	114.40
	18.30.2	100 mm diameter pipe	each	188.80
	18.30.3	125 mm diameter pipe	each	201.30
	18.30.4	150 mm diameter pipe	each	238.90
	18.30.5	200 mm diameter pipe	each	265.10
	18.30.6	250 mm diameter pipe	each	369.30
	18.30.7	300 mm diameter pipe	each	375.50
	18.30.8	350 mm diameter pipe	each	516.80
	18.30.9	400 mm diameter pipe	each	745.40
	18.30.10	450 mm diameter pipe	each	924.00
	18.30.11	500 mm diameter pipe	each	1053.80
	18.30.12	600 mm diameter pipe	each	1237.80
	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES			
18.31	**Providing and fixing C.I. sluice valves (with cap) complete with bolts,nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :**			
	18.31.1	100 mm diameter		
	18.31.1.1	Class I	each	3524.50
	18.31.1.2	Class II	each	3925.10
	18.31.2	125 mm diameter		
	18.31.2.1	Class I	each	3825.50
	18.31.2.2	Class II	each	4612.10
	18.31.3	150 mm diameter		
	18.31.3.1	Class I	each	5199.30
	18.31.3.2	Class II	each	5743.50
	18.31.4	200 mm diameter		
	18.31.4.1	Class I	each	10269.50
	18.31.4.2	Class II	each	12108.10
	18.31.5	250 mm diameter		
	18.31.5.1	Class I	each	15003.50
	18.31.5.2	Class II	each	2784.10
	18.31.6	300 mm diameter		
	18.31.6.1	Class I	each	20850.10
	18.31.6.2	Class II	each	24413.10
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 100A**	each	1129.40

Code No.	Description		Unit	Rate Rs.
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 nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse 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 100A	each	6703.80
18.34	**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 nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse 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 100A	each	12413.30
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 :**			
	18.35.1	With common burnt clay F.P.S.(non modular) bricks of class designation 100A	each	17118.70
18.36	**Constructing masonry Chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants,with C.I. surface box 350x350 mm top and 165 mm deep (inside)with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , 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 :**			

Code No.	Description		Unit	Rate Rs.
	18.36.1	With common burnt clay F.P.S.(non modular) bricks of class designation 100A	each	6794.00
18.37	**Constructing masonry Chamber 60x45x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside)with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , 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 :**			
	18.37.1	With common burnt clay F.P.S.(non modular) bricks of class designation 100A	each	6211.70
18.38	**Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :**			
	18.38.1	15 mm diameter pipe	metre	9.80
	18.38.2	20 mm diameter pipe	metre	11.50
	18.38.3	25 mm diameter pipe	metre	15.30
	18.38.4	32 mm diameter pipe	metre	35.30
	18.38.5	40 mm diameter pipe	metre	21.40
	18.38.6	50 mm diameter pipe	metre	25.00
18.39	**Repainting G.I. pipes and fittings with synthetic enamel white paint with one coat of approved quality :**			
	18.39.1	15 mm diameter pipe	metre	5.00
	18.39.2	20 mm diameter pipe	metre	5.80
	18.39.3	25 mm diameter pipe	metre	7.40
	18.39.4	32 mm diameter pipe	metre	8.70
	18.39.5	40 mm diameter pipe	metre	10.10
	18.39.6	50 mm diameter pipe	metre	11.80
18.40	**Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :**			
	18.40.1	15 mm diameter pipe	metre	5.60
	18.40.2	20 mm diameter pipe	metre	6.60
	18.40.3	25 mm diameter pipe	metre	8.40
	18.40.4	32 mm diameter pipe	metre	9.90
	18.40.5	40 mm diameter pipe	metre	11.20
	18.40.6	50 mm diameter pipe	metre	13.30
	18.40.7	65 mm diameter pipe	metre	16.30
	18.40.8	80 mm diameter pipe	metre	18.80
18.41	**Providing and filling sand of grading zone V or coarser grade, allround the G.I. pipes in external work :**			
	18.41.1	15 mm diameter pipe	metre	16.80
	18.41.2	20 mm diameter pipe	metre	17.00
	18.41.3	25 mm diameter pipe	metre	17.50
	18.41.4	32 mm diameter pipe	metre	17.90
	18.41.5	40 mm diameter pipe	metre	18.20
	18.41.6	50 mm diameter pipe	metre	18.80
	18.41.7	65 mm diameter pipe	metre	29.70
	18.41.8	80 mm diameter pipe	metre	30.60
	18.41.9	100 mm diameter pipe	metre	32.50
	18.41.10	150 mm diameter pipe	metre	48.40

Code No.	Description		Unit	Rate Rs.
18.42	**Boring with 100 mm diameter casing pipe for hand pump / tubewell, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump / tube well is lowered and tested :**			
	18.42.1	Up to 6 metres depth	metre	311.70
	18.42.2	Beyond 6 m and up to 12 m depth	metre	370.70
	18.42.3	Beyond 12 m and up to 18 m depth	metre	432.30
18.43	**Providing and placing in position filters of 40 mm diameter G.I. pipe with brass strainer of approved quality.**		metre	622.60
18.44	**Providing and fixing to filter and lowering to proper levels 40 mm G.I.pipe for tube well including cleaning and priming the tube well.**		metre	279.70
18.45	**Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.**		each	958.10
18.46	**Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :**			
	18.46.1	15 mm nominal bore	each	130.30
	18.46.2	20 mm nominal bore	each	155.20
	18.46.3	25 mm nominal bore	each	192.60
	18.46.4	32 mm nominal bore	each	230.00
	18.46.5	40 mm nominal bore	each	292.20
	18.46.6	50 mm nominal bore	each	374.20
	18.46.7	65 mm nominal bore	each	623.30
	18.46.8	80 mm nominal bore	each	710.50
18.47	**Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation,refilling the earth or cutting of wall and making good the same complete wherever required :**			
	18.47.1	15 mm nominal bore	each	307.50
	18.47.2	20 mm nominal bore	each	332.40
	18.47.3	25 mm nominal bore	each	369.80
	18.47.4	32 mm nominal bore	each	365.70
	18.47.5	40 mm nominal bore	each	427.90
	18.47.6	50 mm nominal bore	each	559.30
	18.47.7	65 mm nominal bore	each	808.30
	18.47.8	80 mm nominal bore	each	895.50
18.48	**Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.**		per litre	7.90
	C.P. BRASS F ITTINGS			
18.49	**Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :**		each	401.40
18.50	**Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.**			
	18.50.1	15 mm nominal bore	each	599.50
18.51	**Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.**			
	18.51.1	15 mm nominal bore	each	531.60

Code No.	Description		Unit	Rate Rs.
18.52	**Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.**			
	18.52.1	15 mm nominal bore	each	588.20
18.53	**Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore**			
	18.53.1	15 mm nominal bore	each	512.90
	PTMT FITTINGS			
18.54	**Providing and fixing PTMT bib cock of approved quality and colour.**			
	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	each	112.80
	18.54.2	15 mm nominal bore, 122mm long, weighing not less than 99 gms	each	156.40
	18.54.3	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	each	171.30
	18.54.4	15mm nominal bore, 90 mm long, weighing not less than 93 gms	each	124.00
18.55	**Providing and fixing PTMT stop cock of approved quality and colour.**			
	18.55.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	each	112.80
	18.55.2	20 mm nominal bore, 89 mm long, weighing not less than 88 gms	each	146.40
	18.55.3	Concealed stop cock, 15 mm nominal bore, 108 mm long,weighing not less than 108 gms	each	175.10
18.56	**Providing and fixing PTMT pillar cock of approved quality and colour .**			
	18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	183.50
	18.56.2	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	each	202.20
18.57	**Providing and fixing PTMT, push cock of approved quality and colour.**			
	18.57.1	15 mm nominal bore, 98 mm long, weighing not less than 75 gms	each	100.40
	18.57.2	15 mm nominal bore, 80 mm long, weighing not less than 46 gms	each	94.10
18.58	**Providing and fixing PTMT grating of approved quality and colour.**			
	18.58.1	Circular type		
	18.58.1.1	100 mm nominal dia	each	36.20
	18.58.1.2	125 mm nominal dia with 25 mm waste hole	each	49.90
	18.58.2	Rectangular type with openable circular lid		
	18.58.2.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating	each	161.90
	AIR VALVE & WATER METER (BULK TYPE)			
18.59	**Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces,tapers etc if required will be paid separately) :**			
	18.59.1	50 mm dia	each	4986.50
	18.59.2	80 mm dia	each	5942.00

Code No.	Description		Unit	Rate Rs.
	18.59.3	100 mm dia	each	7928.20
18.60	**Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts,nuts, rubber insertions etc. (The tail pieces if required will be paid separately) :**			
	18.60.1	80 mm dia nominal bore	each	3350.80
	18.60.2	100 mm dia nominal bore	each	4987.90
	18.60.3	150 mm dia nominal bore	each	7330.30
	18.60.4	200 mm dia nominal bore	each	8005.90
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	3884.50
	18.61.2	100 mm dia	each	6268.70
	18.61.3	150 mm dia	each	7963.20
	18.61.4	200 mm dia	each	11179.20
18.62	**Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.**			
	18.62.1	15 mm nominal bore, 105 mm long, weighing not less than 138 gms	each	182.70
	18.62.2	20 mm nominal bore, 120 mm long, weighing not less than 198 gms	each	239.10
	18.62.3	25 mm nominal bore, 152mm long, weighing not less than 440 gms	each	451.20
	18.62.4	40 mm nominal bore, 206mm long, weighing not less than 690 gms	each	701.50
	18.62.5	50 mm nominal bore, 242mm long, weighing not less than 1240 gms	each	1214.60
18.63	**Providing and fixing PTMT angle stop cock 15 mm nominal bore,weighing not less than 85 gms**		each	146.40
18.64	**Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms**		each	109.70
18.65	**Providing and fixing PTMT soap Dish Holder having length of 138mm,breadth 102mm, height of 75mm with concealed fitting arrangements,weighing not less than 106 gms.**		each	122.10
18.66	**Providing and laying S&S C.I. Standard specials such as tees, bends,collars tapers and caps etc, suitable for flanged jointing as per IS : 1538 :**			
	18.66.1	Up to 300 mm dia	quintal	7115.70
	18.66.2	Above 300 mm dia	quintal	8435.70
18.67	**Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS : 13382 :**			
	18.67.1	Up to 300 mm dia	quintal	11536.40
	18.67.2	Above 300 mm dia	quintal	12159.00
18.68	**Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS : 9523 :**			
	18.68.1	Up to 600 mm dia	quintal	16517.40
	18.68.2	Above 600 mm dia	quintal	22743.60
18.69	**Providing and laying D.I. Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :**			

Code No.		Description	Unit	Rate Rs.
	18.69.1	Up to 600 mm dia	quintal	17389.00
	18.69.2	Above 600 mm dia	quintal	24798.30
18.70	**Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and the cost of rubber gasket :**			
	18.70.1	100 mm dia pipes	joint	61.60
	18.70.2	150 mm dia pipes	joint	93.90
	18.70.3	200 mm dia pipes	joint	144.30
	18.70.4	250 mm dia pipes	joint	174.80
	18.70.5	300 mm dia pipes	joint	236.40
	18.70.6	350 mm dia pipes	joint	257.60
	18.70.7	400 mm dia pipes	joint	423.10
	18.70.8	450 mm dia pipes	joint	488.50
	18.70.9	500 mm dia pipes	joint	527.40
	18.70.10	600 mm dia pipes	joint	675.10
	18.70.11	650 mm dia pipes	joint	955.20
	18.70.12	700 mm dia pipes	joint	1098.40
	18.70.13	800 mm dia pipes	joint	1210.50
	18.70.14	900 mm dia pipes	joint	1555.90
	18.70.15	1000 mm dia pipes	joint	1836.00
18.71	**Providing and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) :**			
	18.71.1	100 mm dia C.I. Double Flanged Pipe	metre	1749.00
	18.71.2	150 mm dia C.I. Double Flanged Pipe	metre	2737.50
	18.71.3	200 mm dia C.I. Double Flanged Pipe	metre	4321.50
	18.71.4	250 mm dia C.I. Double Flanged Pipe	metre	5223.90
	18.71.5	300 mm dia C.I. Double Flanged Pipe	metre	6677.00
	18.71.6	350 mm dia C.I. Double Flanged Pipe	metre	8408.60
	18.71.7	400 mm dia C.I. Double Flanged Pipe	metre	10883.10
	18.71.8	450 mm dia C.I. Double Flanged Pipe	metre	13859.10
	18.71.9	500 mm dia C.I. Double Flanged Pipe	metre	17212.80
	18.71.10	600 mm dia C.I. Double Flanged Pipe	metre	23855.7
18.72	**Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 :**			
	18.72.1	100 mm dia Ductile Iron Class K-7 pipes	metre	987.40
	18.72.2	150 mm dia Ductile Iron Class K-7 pipes	metre	1428.30
	18.72.3	200 mm dia Ductile Iron Class K-7 pipes	metre	1976.10
	18.72.4	250 mm dia Ductile Iron Class K-7 pipes	metre	2676.10
	18.72.5	300 mm dia Ductile Iron Class K-7 pipes	metre	3525.80
	18.72.6	350 mm dia Ductile Iron Class K-7 pipes	metre	4279.70
	18.72.7	400 mm dia Ductile Iron Class K-7 pipes	metre	5125.80
	18.72.8	450 mm dia Ductile Iron Class K-7 pipes	metre	6190.80
	18.72.9	500 mm dia Ductile Iron Class K-7 pipes	metre	7309.20
	18.72.10	600 mm dia Ductile Iron Class K-7 pipes	metre	9442.40
	18.72.11	700 mm dia Ductile Iron Class K-7 pipes	metre	12258.2
	18.72.12	800 mm dia Ductile Iron Class K-7 pipes	metre	15423.1
	18.72.13	900 mm dia Ductile Iron Class K-7 pipes	metre	19860.3
	18.72.14	1000 mm dia Ductile Iron Class K-7 pipes	metre	21747.6
	18.72.15	100 mm dia Ductile Iron Class K-9 pipes	metre	1021.5
	18.72.16	150 mm dia Ductile Iron Class K-9 pipes	metre	1532.2
	18.72.17	200 mm dia Ductile Iron Class K-9 pipes	metre	2108.2
	18.72.18	250 mm dia Ductile Iron Class K-9 pipes	metre	2936
	18.72.19	300 mm dia Ductile Iron Class K-9 pipes	metre	3651.7
	18.72.20	350 mm dia Ductile Iron Class K-9 pipes	metre	4491.1
	18.72.21	400 mm dia Ductile Iron Class K-9 pipes	metre	5750.3
	18.72.22	450 mm dia Ductile Iron Class K-9 pipes	metre	6648.4
	18.72.23	500 mm dia Ductile Iron Class K-9 pipes	metre	8389.9

Code No.		Description	Unit	Rate Rs.
	18.72.24	600 mm dia Ductile Iron Class K-9 pipes	metre	10137.3
	18.72.25	700 mm dia Ductile Iron Class K-9 pipes	metre	14003.5
	18.72.26	750 mm dia Ductile Iron Class K-9 pipes	metre	17472.2
	18.72.27	800 mm dia Ductile Iron Class K-9 pipes	metre	15380.6
	18.72.28	900 mm dia Ductile Iron Class K-9 pipes	metre	18561.1
	18.72.29	1000 mm dia Ductile Iron Class K-9 pipes	metre	20875.8
18.73	**Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 :**			
	18.73.1	100 mm dia Ductile Iron Double Flanged	metre	1468.5
	18.73.2	150 mm dia Ductile Iron Double Flanged	metre	2203.8
	18.73.3	200 mm dia Ductile Iron Double Flanged	metre	2776.9
	18.73.4	250 mm dia Ductile Iron Double Flanged	metre	3943.8
	18.73.5	300 mm dia Ductile Iron Double Flanged	metre	5066.2
	18.73.6	350 mm dia Ductile Iron Double Flanged	metre	6384.7
	18.73.7	400 mm dia Ductile Iron Double Flanged	metre	8204.9
	18.73.8	450 mm dia Ductile Iron Double Flanged	metre	8631.9
	18.73.9	500 mm dia Ductile Iron Double Flanged	metre	12222.2
	18.73.10	600 mm dia Ductile Iron Double Flanged	metre	16187.1
18.74	**Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.**			
	18.74.1	15 mm nominal bore with 30cm length	each	69.30
	18.74.2	15 mm nominal bore with 45 cm length	each	74.90
18.75	**Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.**			
	18.75.1	15 mm nominal bore, weighing not less than 32 gms	each	31.80
	18.75.2	20mm nominal bore, weighing not less than 40 gms	each	43.00
	18.75.3	25mm nominal bore, weighing not less than 62 gms	each	58.00
18.76	**Cutting holes up to 30x30 cm in walls including making good the same:**			
	18.76.1	With common burnt clay F.P.S. (non modular) bricks	each	184.70
18.77	**Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.**		each	182.60
18.78	**Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.**		metre	73.30
18.79	**Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement : 3 coarse sand 6 graded stone aggregate 20 mm nominal size) including disposal of malba.**		metre	110.10
18.80	**Disinfecting C.I. water mains by flushing with water containing bleaching powder @ 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory.**			
	18.80.1	80 mm diameter C.I. pipe	100 metre	640.10
	18.80.2	100 mm diameter C.I. pipe	100 metre	844.20

Code No.	Description		Unit	Rate Rs.
	18.80.3	125 mm diameter C.I. pipe	100 metre	1059.20
	18.80.4	150 mm diameter C.I. pipe	100 metre	1277.40
	18.80.5	200 mm diameter C.I. pipe	100 metre	1716.10
	18.80.6	250 mm diameter C.I. pipe	100 metre	2174.20
	18.80.7	300 mm diameter C.I. pipe	100 metre	2440.60
	18.80.8	350 mm diameter C.I. pipe	100 metre	2719.50
	18.80.9	400 mm diameter C.I. pipe	100 metre	3018.60
	18.80.10	450 mm diameter C.I. pipe	100 metre	3324.80
	18.80.11	500 mm diameter C.I. pipe	100 metre	3651.30
	18.80.12	600 mm diameter C.I. pipe	100 metre	4324.20
18.81	**Extra for every operation of disinfecting the C.I. main by flushing with water containing bleaching powder @ 0.5 gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the municipal laboratory :**			
	18.81.1	80 mm diameter C.I. pipe	100 metre	234.90
	18.81.2	100 mm diameter C.I. pipe	100 metre	287.60
	18.81.3	125 mm diameter C.I. pipe	100 metre	352.90
	18.81.4	150 mm diameter C.I. pipe	100 metre	414.00
	18.81.5	200 mm diameter C.I. pipe	100 metre	634.60
	18.81.6	250 mm diameter C.I. pipe	100 metre	733.60
	18.81.7	300 mm diameter C.I. pipe	100 metre	830.00
	18.81.8	350 mm diameter C.I. pipe	100 metre	979.10
	18.81.9	400 mm diameter C.I. pipe	100 metre	1130.70
	18.81.10	450 mm diameter C.I. pipe	100 metre	1288.80
	18.81.11	500 mm diameter C.I. pipe	100 metre	1448.90
	18.81.12	600 mm diameter C.I. pipe	100 metre	1778.20
18.82	**Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks, including stacking of pipes at site lead up to 50 metre :**			
	18.82.1	80 mm diameter C.I. pipe	metre	219.70
	18.82.2	100 mm diameter C.I. pipe	metre	225.20
	18.82.3	125 mm diameter C.I. pipe	metre	230.10
	18.82.4	150 mm diameter C.I. pipe	metre	235.20
	18.82.5	200 mm diameter C.I. pipe	metre	258.00
	18.82.6	250 mm diameter C.I. pipe	metre	280.10
	18.82.7	300 mm diameter C.I. pipe	metre	298.90
	18.82.8	350 mm diameter C.I. pipe	metre	315.80
	18.82.9	400 mm diameter C.I. pipe	metre	330.50
	18.82.10	450 mm diameter C.I. pipe	metre	345.80
	18.82.11	500 mm diameter C.I. pipe	metre	358.10
	18.82.12	600 mm diameter C.I. pipe	metre	377.20
18.83	**Labour for cutting C.I. pipe with steel saw.**			
	18.83.1	80 mm diameter C.I. pipe	Each cut	52.70
	18.83.2	100 mm diameter C.I. pipe	Each cut	71.00
	18.83.3	125 mm diameter C.I. pipe	Each cut	99.20
	18.83.4	150 mm diameter C.I. pipe	Each cut	133.70
	18.83.5	200 mm diameter C.I. pipe	Each cut	178.30
	18.83.6	250 mm diameter C.I. pipe	Each cut	220.80
	18.83.7	300 mm diameter C.I. pipe	Each cut	265.40
	18.83.8	350 mm diameter C.I. pipe	Each cut	307.90
	18.83.9	400 mm diameter C.I. pipe	Each cut	352.20
	18.83.10	450 mm diameter C.I. pipe	Each cut	395.00

Code No.	Description		Unit	Rate Rs.
	18.83.11	500 mm diameter C.I. pipe	Each cut	439.30
	18.83.12	600 mm diameter C.I. pipe	Each cut	522.10
18.84	**Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology.**			
	18.84.1	15 mm nominal bore	each	7241.90
18.85	**Providing and fixing Stainless Steel pipe and fitting of grade AISI 304 as per JIS standard 3448 complete with press type fitting (fitting shall be paid for separately) i/c fixing of the pipe with clamps at 1.00 m spacing including cutting and making good the walls including testing of joints complete as per direction of Engineer -in-charge.** **(The pipe length inserted in the fitting shall not be measured for payment)** **Inernal work - Exposed on wall**			
	18.85.1	15.88 mmouter diapipe	metre	243.80
	18.85.2	22.22 mm outer dia Pipe	metre	390.30
	18.85.3	28.58 mm outer dia Pipe	metre	482.20
	18.85.4	34.00 mm outer dia Pipe	metre	669.90
	18.85.5	42.70 mm outer dia Pipe	metre	692.50
	18.85.6	48.60 mm outer dia Pipe	metre	829.80
18.86	Providing and fixing Stainless Steel pipe and fitting of grade AISI 304 as per JIS standard 3448 complete with press type fitting (fitting shall be paid for separately) i/c fixing of the pipe with clamps at 1.00m spacing and also including cutting of chases and making good the walls including testing of joints complete as per direction of Engineer -in-charge. (The pipe length inserted in the fitting shall not be measured for payment) Internal work - Concealed Pipe			
	18.86.1	15.88 mm outer dia .Pipes.	metre	323.70
	18.86.2	22.22 mm Outer dia pipes	metre	470.20
18.87	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge. Coupling/Socket			
	18.87.1	For 15.88 mm outer dia pipe	each	52.30
	18.87.2	For 22.22 mm outer dia pipe	each	78.50
	18.87.3	For 28.58 mm outer dia pipe	each	110.80
	18.87.4	For 34.00 mm outer dia pipe	each	163.10
	18.87.5	For 42.70 mm outer dia pipe	each	198.70
	18.87.6	For 48.60 mm outer dia pipe	each	224.10
18.88	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge. Reducer			

Code No.	Description		Unit	Rate Rs.
	18.88.1	For 22.22 mm x 15.88 mm outer dia pipe	each	128.30
	18.88.2	For 28.58 mm x 15.88 mm outer dia pipe	each	175.60
	18.88.3	For 28.58 mm x 22.22 mm outer dia pipe	each	180.60
	18.88.4	For 34.00 mm x 15.88 mm outer dia pipe	each	229.10
	18.88.5	For 34.00 mm x 22.22 mm outer dia pipe	each	232.90
	18.88.6	For 34.00 mm x 28.58 mm outer dia pipe	each	236.60
	18.88.7	For 42.70 mm x 15.88 mm outer dia pipe	each	447.00
	18.88.8	For 42.70 mm x 22.22 mm outer dia pipe	each	450.80
	18.88.9	For 42.70 mm x 28.58 mm outer dia pipe	each	450.80
	18.88.10	For 42.70 mm x 34.00 mm outer dia pipe	each	481.90
	18.88.11	For 48.60 mm x 15.88 mm outer dia pipe	each	510.60
	18.88.12	For 48.60 mm x 22.22 mm outer dia pipe	each	510.60
	18.88.13	For 48.60 mm x 28.58 mm outer dia pipe	each	510.60
	18.88.14	For 48.60 mm x 34.0 mm outer dia pipe	each	510.60
	18.88.15	For 48.60 mm x42.70 mm outer dia pipe	each	510.60
18.89	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Slip Coupling/ Socket			
	18.89.1	For 15.88 mm outer dia pipe	each	58.50
	18.89.2	For 22.22 mm outer dia pipe	each	78.50
	18.89.3	For 28.58 mm outer dia pipe	each	110.80
	18.89.4	For 34.00 mm outer dia pipe	each	163.10
	18.89.5	For 42.70 mm outer dia pipe	each	196.70
	18.89.6	For 48.60 mm outer dia pipe	each	211.70
18.90	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Elbow 90o			
	18.90.1	For 15.88mm outer dia pipe	each	72.20
	18.90.2	For 22.22 mm outer dia pipe	each	78.50
	18.90.3	For 28.58 mm outer dia pipe	each	119.50
	18.90.4	For 34.00 mm outer dia pipe	each	135.70
	18.90.5	For 42.70 mm outer dia pipe	each	144.40
	18.90.6	For 48.60 mm outer dia pipe	each	186.80
18.91	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Reducing Elbow 90o			
	18.91.1	For22.22 mm x 15.88 mm outer dia pipe	each	184.30
	18.91.2	For 28.58 mm x 15.88 mm outer dia pipe	each	237.80
	18.91.3	For 28.58 mm x 22.22 mm outer dia pipe	each	275.20
	18.91.4	For 34.00 mm x 22.22 mm outer dia pipe	each	357.40
	18.91.5	For 34.00 mm x 28.58 mm outer dia pipe	each	493.10
	18.91.6	For 42.70 mm x 34.00 mm outer dia pipe	each	222.90
18.92	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Equal Tee			

Code No.	Description		Unit	Rate Rs.
	18.92.1	For 15.88 mm outer dia pipe	each	198.00
	18.92.2	For 22.22 mm outer dia pipe	each	287.70
	18.92.3	For 28.58 mm outer dia pipe	each	340.00
	18.92.4	Details of Cost for one no.	each	544.20
	18.92.5	For 42.70 mm outer dia pipe	each	850.50
	18.92.6	For 48.60 mm outer dia pipe	each	1104.50
18.93	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Reducing Tee			
	18.93.1	For 22.22 mm x 15.88 mm outer dia pipe	each	222.90
	18.93.2	For 28.58 mm x 15.88 mm outer dia pipe	each	340.00
	18.93.3	For 28.58 mm x 22.22 mm outer dia pipe	each	340.00
	18.93.4	For 34.00 mm x 15.88 mm outer dia pipe	each	544.20
	18.93.5	For 34.00 mm x 22.22 mm outer dia pipe	each	544.20
	18.93.6	For 34.00 mm x 28.58 mm outer dia pipe	each	544.20
	18.93.7	For 42.70 mm x 15.88 mm outer dia pipe	each	850.50
	18.93.8	For 42.70 mm x 22.22 mm outer dia pipe	each	850.50
	18.93.9	For 42.70 mm x 28.58 mm outer dia pipe	each	850.50
	18.93.10	For 42.70 mm x 34.00 mm outer dia pipe	each	850.50
	18.93.11	For 48.60 mm x 15.88 mm outer dia pipe	each	1104.50
	18.93.12	For 48.60 mm x 22.22 mm outer dia pipe	each	1104.50
	18.93.13	For 48.60 mm x 28.58 mm outer dia pipe	each	1104.50
	18.93.14	For 48.60 mm x 34.00 mm outer dia pipe	each	1104.50
	18.93.15	For 48.60 mm x 42.70 mm outer dia pipe	each	1104.50
18.94	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Male Thread Tee			
	18.94.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	222.90
	18.94.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	249.00
	18.94.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	255.30
	18.94.4	For 28.58 mm outer dia x 15 mm nominal dia threaded	each	340.00
	18.94.5	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	340.00
	18.94.6	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	340.00
	18.94.7	For 34.00 mm outer dia x 15 mm nominal dia threaded	each	544.20
	18.94.8	For 34.00 mm outer dia x 20 mm nominal dia threaded	each	544.20
	18.94.9	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	544.20
	18.94.10	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	544.20
	18.94.11	For 42.70 mm outer dia x 15 mm nominal dia threaded	each	850.50
	18.94.12	For 42.70 mm outer dia x 20 mm nominal dia threaded	each	850.50

Code No.	Description		Unit	Rate Rs.
	18.94.13	For 42.70 mm outer dia x 25 mm nominal dia threaded	each	850.50
	18.94.14	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	850.50
	18.94.15	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	850.50
	18.94.16	For 48.60 mm outer dia x 15 mm nominal dia threaded	each	1104.50
	18.94.17	For 48.60 mm outer dia x 20 mm nominal dia threaded	each	1104.50
	18.94.18	For 48.60 mm outer dia x 25 mm nominal dia threaded	each	1104.50
	18.94.19	For 48.60 mm outer dia x 32 mm nominal dia threaded	each	1104.50
	18.94.20	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	1104.50
	18.94.21	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1104.50
18.95	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Female Thread Tee			
	18.95.1	For 15.88 mm outer dia x15 mm nominal dia threaded	each	222.90
	18.95.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	249.00
	18.95.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	249.00
	18.95.4	For 28.58 mm outer dia x 15 mm nominal dia threaded	each	340.00
	18.95.5	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	340.00
	18.95.6	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	340.00
	18.95.7	For 34.00 mm outer dia x 15 mm nominal dia threaded	each	544.20
	18.95.8	For 34.00 mm outer dia x 20 mm nominal dia threaded	each	544.20
	18.95.9	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	544.20
	18.95.10	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	544.20
	18.95.11	For 42.70 mm outer dia x 15 mm nominal dia threaded	each	850.50
	18.95.12	For 42.70 mm outer dia x 20 mm nominal dia threaded	each	850.50
	18.95.13	For 42.70 mm outer dia x 25 mm nominal dia threaded	each	850.50
	18.95.14	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	850.50
	18.95.15	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	850.50
	18.95.16	For 48.60 mm outer dia x 15 mm nominal dia threaded	each	1104.50
	18.95.17	For 48.60 mm outer dia x 20 mm nominal dia threaded	each	1104.50

Code No.		Description	Unit	Rate Rs.
	18.95.18	For 48.60 mm outer dia x 25 mm nominal dia threaded	each	1104.50
	18.95.19	For 48.60 mm outer dia x 32 mm nominal dia threaded	each	1104.50
	18.95.20	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	1104.50
	18.95.21	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1104.50
18.96	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Female Thread Connector/ Adapter			
	18.96.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	236.60
	18.96.2	For 22.22 mm outer dia x 15 mmnominal dia threaded	each	286.40
	18.96.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	295.10
	18.96.4	For 28.58 mm outer dia x 15 mm nominal dia threaded	each	344.90
	18.96.5	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	356.10
	18.96.6	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	419.60
	18.96.7	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	509.30
	18.96.8	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	669.90
	18.96.9	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	717.30
	18.96.10	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	848.00
	18.96.11	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	1043.50
	18.96.12	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1043.50
18.97	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Male Thread Connector/ Adapter			
	18.97.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	240.30
	18.97.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	282.70
	18.97.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	308.80
	18.97.4	For 28.58 mm outer dia x 20 mm nominal dia threaded	each	389.80
	18.97.5	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	398.50
	18.97.6	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	574.10
	18.97.7	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	703.60

Code No.	Description		Unit	Rate Rs.
	18.97.8	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	808.20
	18.97.9	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	904.10
	18.97.10	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	1046.00
	18.97.11	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1417.10
18.98	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Valve Connector			
	18.98.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	291.40
	18.98.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	343.70
	18.98.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	367.30
	18.98.4	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	528.00
	18.98.5	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	783.30
	18.98.6	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	1089.60
	18.98.7	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	1464.40
18.99	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Female Threaded Elbow 90O			
	18.99.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	186.80
	18.99.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	237.80
	18.99.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	237.80
	18.99.4	For 25.58 mm outer dia x 25 mm nominal dia threaded	each	255.30
	18.99.5	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	357.40
	18.99.6	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	595.20
	18.99.7	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	1429.10
	18.99.8	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	850.50
	18.99.9	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	850.50
18.100	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Male Threaded Elbow 90O			

Code No.	Description		Unit	Rate Rs.
	18.100.1	For 15.88 mm outer dia x 15 mm nominal dia threaded	each	237.80
	18.100.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	each	255.30
	18.100.3	For 22.22 mm outer dia x 20 mm nominal dia threaded	each	255.30
	18.100.4	For 28.58 mm outer dia x 25 mm nominal dia threaded	each	255.30
	18.100.5	For 34.00 mm outer dia x 25 mm nominal dia threaded	each	357.40
	18.100.6	For 34.00 mm outer dia x 32 mm nominal dia threaded	each	357.40
	18.100.7	For 42.70 mm outer dia x 32 mm nominal dia threaded	each	595.20
	18.100.8	For 42.70 mm outer dia x 40 mm nominal dia threaded	each	595.20
	18.100.9	For 48.60 mm outer dia x 40 mm nominal dia threaded	each	850.50
	18.100.10	For 48.60 mm outer dia x 50 mm nominal dia threaded	each	850.50
18.101	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Cap			
	18.101.1	For 15.88 mm outer dia pipe	each	56.00
	18.101.2	For 22.22 mm outer dia pipe	each	79.70
	18.101.3	For 28.58 mm outer dia pipe	each	104.60
	18.101.4	For 34.00 mm outer dia pipe	each	215.40
	18.101.5	For 42.70 mm outer dia pipe	each	315.00
	18.101.6	For 48.60 mm outer dia pipe	each	410.90
18.102	**Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per dirction of Engineer-in-charge.**			
	Pipe Bridge			
	18.102.1	For 15.88 mm outer dia pipe	each	266.50
	18.102.2	For 22.22 mm outer dia pipe	each	337.50
	18.102.3	For 28.58 mm outer dia pipe	each	506.80

19.0 DRAINAGE

Code No.		Description	Unit	Rate Rs.
		NOTE : - The rates given for all the items under sub-head ' Drainage' are applicable to work executed in soils above sub- soil water level. Extra allowance has to be made for work under sub- soil water level.		
		STONE WARE PIPES AND FITTINGS		
19.1		**Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :**		
	19.1.1	100 mm diameter	metre	205.50
	19.1.2	150 mm diameter	metre	315.40
	19.1.3	200 mm diameter	metre	413.10
	19.1.5	250 mm diameter	metre	691.60
	19.1.6	300 mm diameter	metre	790.00
19.2		**Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :**		
	19.2.1	100 mm diameter S.W. pipe	metre	391.90
	19.2.2	150 mm diameter S.W. pipe	metre	479.30
	19.2.3	200 mm diameter S.W. pipe	metre	558.70
	19.2.4	250 mm diameter S.W. pipe	metre	646.10
19.3		**Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :**		
	19.3.1	100 mm diameter S.W. pipe	metre	186.20
	19.3.2	150 mm diameter S.W. pipe	metre	301.90
	19.3.3	200 mm diameter S.W. pipe	metre	354.80
	19.3.4	250 mm diameter S.W. pipe	metre	413.10
	19.3.5	300 mm diameter S.W. pipe	metre	476.60
19.4		**Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard 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	1504.40
	19.4.1.2	With Sewer bricks conforming to IS : 4885	each	1516.40
	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	1542.10
	19.4.2.2	With sewer bricks conforming to IS : 4885	each	1554.10
	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	1639.90
	19.4.3.2	With Sewer bricks conforming to IS : 4885	each	1651.90

Code No.		Description	Unit	Rate Rs.
19.5		**Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps :**		
	19.5.1	100 mm diameter	metre	29.40
	19.5.2	150 mm diameter	metre	32.60
	19.5.3	200 mm diameter	metre	34.70
	19.5.4	250 mm diameter	metre	36.90
	19.5.5	300 mm diameter	metre	39.00
	19.5.6	350 mm diameter	metre	44.90
	19.5.7	400 mm diameter	metre	49.00
	19.5.8	450 mm diameter	metre	51.10
19.6		**Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :**		
	19.6.1	100 mm dia. R.C.C. pipe	metre	329.70
	19.6.2	150 mm dia. R.C.C. pipe	metre	359.30
	19.6.3	250 mm dia. R.C.C. pipe	metre	480.10
	19.6.4	300 mm dia. R.C.C. pipe	metre	522.20
	19.6.5	450 mm dia. R.C.C. pipe	metre	729.30
	19.6.6	500 mm dia. R.C.C. pipe	metre	971.70
	19.6.7	600 mm dia. R.C.C. pipe	metre	1446.20
	19.6.8	700 mm dia. R.C.C. pipe	metre	1637.50
	19.6.9	800 mm dia. R.C.C. pipe	metre	1832.60
	19.6.10	900 mm dia. R.C.C. pipe	metre	2055.60
	19.6.11	1000 mm dia. R.C.C. pipe	metre	2549.60
	19.6.12	1100 mm dia. R.C.C. pipe	metre	2999.20
	19.6.13	1200 mm dia. R.C.C. pipe	metre	2876.30
19.7		**Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :**		
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :		
	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	7660.80
	19.7.1.2	With Sewer bricks conforming to IS : 4885	each	7692.20
	19.7.2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :		
	19.7.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	17463.50
	19.7.2.2	With Sewer bricks conforming to IS : 4885	each	33199.60

Code No.		Description	Unit	Rate Rs.
	19.7.3	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) :		
	19.7.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	22363.70
	19.7.3.2	With Sewer bricks conforming to IS : 4885	each	22437.60
19.8	**Extra for depth for manholes :**			
	19.8.1	Size 90x80 cm		
	19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	5635.50
	19.8.1.2	With Sewer bricks conforming to IS : 4885	metre	5727.00
	19.8.2	Size 120x90 cm		
	19.8.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	6745.20
	19.8.2.2	With Sewer bricks conforming to IS : 4885	metre	6854.30
19.9	**Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side 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 mix (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 :**		
	19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :		
	19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	7059.80
	19.9.1.2	With Sewer bricks conforming to IS : 4885	each	7052.00
19.10	**Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m**			
	19.10.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	4891.76
	19.10.2	With Sewer bricks conforming IS : 4885	metre	4891.76

Code No.		Description	Unit	Rate Rs.
19.11		**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 :**		
	19.11.1	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :		
	19.11.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	13843.60
	19.11.1.2	With Sewer bricks conforming IS : 4885	each	13906.10
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	6250.80
	19.12.2	With Sewer bricks conforming IS : 4885	metre	6350.80
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 100A	each	30841.80
	19.13.1.2	With Sewer bricks conforming IS : 4885	each	31068.40

Code No.		Description	Unit	Rate Rs.
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 100A	metre	15005.80
	19.14.2	With Sewer bricks conforming IS : 4885	metre	15264.50
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	240.90
	19.15.2	With 20 mm diameter round bar	each	240.60
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 isible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.**		each	240.90
19.17	**Replacement of M.S. foot rests in manholes including dismantling concrete blocks and fixing with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) :**			
	19.17.1	With 20x20 mm square bar	each	283.90
	19.17.2	With 20 mm diameter round bar	each	283.50
19.18	**Supplying and fixing C.I. cover without frame for manholes :**			
	19.18.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	1303.20
	19.18.2	500 mm diameter C.I. cover (medium duty) the weight of the cover to be not less than 58 kg	each	2937.30
	19.18.3	560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg	each	6305.90
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	1086.60
	19.19.1.2	Square shape 450 mm internal dimensions	each	920.50
	19.19.1.3	Circular shape 450 mm internal diameter	each	920.50
	19.19.2	M D - 10		
	19.19.2.1	Square shape 450 mm internal dimension	each	969.60
	19.19.2.2	Circular shape 500 mm internal diameter	each	1052.60
	19.19.3	H D - 20		
	19.19.3.1	Circular shape 560 mm internal diameter	each	953.10
	19.19.4	EHD - 35		

Code No.		Description	Unit	Rate Rs.
	19.19.4.1	Circular shape 560 mm internal dia	each	1351.60
19.20	**Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg**		each	296.90
19.21	**Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :**			
	19.21.1	For pipes 100 to 250 mm diameter	each	326.60
	19.21.2	For pipes 250 to 300 mm diameter	each	382.70
	19.21.3	For pipes 350 to 450 mm diameter	each	554.50
19.22	**Providing sand cast iron drop connection externally for 60 cm drop from branch sewer line to main sewer manhole including inspection and cleaning eye with chain and lid, sand cast iron drop pipe and bend encased all-round with cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) with all centering and shuttering required, cutting holes in walls and making good with brick work in cement mortar 1:4 (1 cement : 4 coarse sand)plastered with cement mortar 1:3 (1 cement : 3 coarse sand) on inside of the manhole wall, lead caulked joints between sand cast iron pipes and fittings, stiff cement mortar 1:1 (1 cement : 1 fine sand) joints between sand cast iron tee and S.W. pipe, making required channels complete as per standard design and specifications :**			
	19.22.1	100 mm dia sand cast iron drop connection	each	5610.40
	19.22.2	150 mm dia sand cast iron drop connection	each	7187.60
19.23	**Extra for depths beyond 60 cm of sand cast iron drop connection complete :**			
	19.23.1	For 100 mm dia sand cast iron drop connection	metre	1734.70
	19.23.2	For 150 mm dia sand cast iron drop connection	metre	2318.20
19.24	**Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 m lead :**			
	19.24.1	Rectangular manhole 90x80 cm and 45 cm deep	each	1053.10
	19.24.2	Rectangular manhole 120x90 cm and 90 cm deep	each	1884.50
	19.24.3	Rectangular arch type manhole 140x90 cm and 2.45 m deep	each	2832.60
	19.24.4	Circular manhole 122 cm diameter and 1.68 m deep	each	2169.10
19.25	**Extra for depth of manholes dismantled :**			
	19.25.1	Rectangular manhole 90x80 cm and beyond 45 cm depth	metre	682.60
	19.25.2	Rectangular manhole 120x90 cm and beyond 90 cm depth	metre	812.80
	19.25.3	Rectangular arch type manhole 140x90 cm and beyond 2.45 m depth (up to 4.25 m depth)	metre	656.80
	19.25.4	Circular manhole 122 cm diameter and beyond 1.68 m depth (up to 2.29 m depth)	metre	740.30

Code No.		Description	Unit	Rate Rs.
19.26	**Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) :**			
	19.26.1	Rectangular manhole 90x80 cm with rectangular cover 600x450 mm of grade LD - 2.5	each	1315.10
	19.26.2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	each	2062.10
	19.26.3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20	each	1923.00
	19.26.4	Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35	each	193.70
19.27	**Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :**			
	19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	3663.10
19.28	**Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design :**			
	19.28.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	4115.30
19.29	**Constructing brick masonry road gully chamber 110x50x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :**			
	19.29.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	6870.80
19.30	**Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :**			
	19.30.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :		
	19.30.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	4194.20
	19.30.2	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :		
	19.30.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	4902.40
	19.30.3	Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :		

Code No.		Description	Unit	Rate Rs.
	19.30.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	5679.30
19.31	**Extra for 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	3932.40
	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	4286.20
	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	4986.00
19.32	**Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 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	32412.70
19.33	**Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.**		each	3519.00
19.34	**Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :**			
	19.34.1	100 mm dia	each	299.50
	19.34.2	150 mm dia	each	405.90
19.35	**Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete**			
	19.35.1	450 mm dia RCC pipes.	metre	1998.50
	19.35.2	600 mm dia RCC pipes.	metre	2610.60
	19.35.3	900 mm dia RCC pipes.	metre	4116.00
	19.35.4	1000 mm dia RCC pipes. (Laying by mannual/machenical means)	metre	5083.40
	19.35.5	1200 mm dia RCC pipes. (Laying by mannual/ machenical means)	metre	6690.00
	19.35.6	1800 mm dia RCC pipes. (Laying by mannual/ machenical means)	metre	122.23
19.36	**Providing and laying Non Pressure NP-4 class (Heavy duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete**			
	19.36.1	450 mm dia RCC pipes.	metre	2293.70
	19.36.2	600 mm dia RCC pipes.	metre	3002.80
	19.36.3	900 mm dia RCC pipes.	metre	5789.60
	19.36.4	1000 mm dia RCC pipes.(Laying machenical means)	metre	7175.40
	19.36.5	1200 mm dia RCC pipes. (Laying machenical means)	metre	8520.50
	19.36.6	1800 mm dia RCC pipes. (Laying machenical means)	metre	17565.90

20.0 PILE WORK

Code No.		Description	Unit	Rate Rs.
20.1		**Providing, driving and installing driven cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) :**		
	20.1.1	400 mm dia piles	metre	1926.10
	20.1.2	450 mm dia piles	metre	2357.50
	20.1.3	500 mm dia piles	metre	2840.40
	20.1.4	550 mm dia piles	metre	3035.50
	20.1.5	750 mm dia piles	metre	5066.10
	20.1.6	1000 mm dia piles	metre	8242.80
	20.1.7	1200 mm dia piles	metre	10422.40
	20.1.8	1500 mm dia piles	metre	14370.10
20.2		**Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).**		
	20.2.1	300 mm dia piles	metre	838.10
	20.2.2	400 mm dia piles	metre	1110.80
	20.2.3	450 mm dia piles	metre	1345.80
	20.2.4	500 mm dia. piles	metre	1562.60
	20.2.5	600 mm dia piles	metre	2096.40
	20.2.6	750 mm dia piles	metre	3226.10
	20.2.7	1000 mm dia piles	metre	8394.10
	20.2.8	1200 mm dia piles	metre	10745.80
	20.2.9	1500 mm dia piles	metre	15124.10
20.3		**Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :**		
	20.3.1	300 mm dia piles	metre	2264.10
	20.3.2	400 mm dia piles	metre	2632.40
	20.3.3	450 mm dia piles	metre	2850.30
	20.3.4	550 mm dia piles	metre	3113.90

Code No.	Description		Unit	Rate Rs.
20.3A	**20.3A.1**	**Making 25 cm (10") dia bore up to 4 mtr depth below ground with hand auger of approved quality in ordinary soi! (vide classification of soil item A) true to plumb and without eccentri city in any stage of operation and disposal of the excavated earth up to 50 mtr , Lead in eluding all lifts , all complete as per approved disign and direction of E/I Details of cost for 4 piles of 4 m= 16 mtrs depth)**	metre	148.60
	20.3A.2	**63 CM (25) UNDER -REAM Making 63 cm (25) dia under ream at required with hand auger of approved quality in ordinary soil (vide classification of soil ifem - A) true to plumb and without eccentri city in my stage of opration and disposal of the excavated earth up to 50 mts lead in eluding all lifts , all complete as per approved design and direction of (E/I)**	Each	158.60
20.4	**Extra over item No. 23.3 for providing additional bulb in under reamed piles, under specified dia meter (Only the quantity of extra bulbs are to be paid).**			
	20.4.1	300mm dia piles	each	1530.80
	20.4.2	400mm dia piles	each	1698.20
	20.4.3	450 mm dia piles	each	1799.40
	20.4.4	550 mm dia piles	each	1972.30
20.5	**Providing, driving and installing driven Pre-cast reinforced cement concrete piles of specified diameter and length below the pile cap in M-25 cement concrete to carry safe working load not less than specified. With a central through preformed hole with M.S. black pipe of dia, 40 mm for grouting with cement sand grouting of mix 1:2 (1 cement : 2 coarse sand) under sufficient positive pressure to ensure complete filling including centring, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement. (Length of pile for payment shall be measured from top of the shoe to the bottom of pile cap).**			
	20.5.1	400 mm dia piles	metre	2522.70
	20.5.2	450 mm dia piles	metre	2978.50
	20.5.3	500 mm dia piles	metre	3162.50
	20.5.4	550 mm dia piles	metre	3535.50
	20.5.5	750 mm dia piles	metre	6307.00
	20.5.6	1000 mm dia piles	metre	8486.30
20.6	**Vertical load testing 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 & the direction of Engineer in-charge.**			
	20.6.1	Single pile upto 50 tonne capacity		
	20.6.1.1	Initial test	per test	41342.30
	20.6.1.2	Routine test	per test	18678.70
	20.6.2	Single pile above 50 tonne and upto 100 tonne capacity		

Code No.	Description		Unit	Rate Rs.
	20.6.2.1	Initial test	per test	50183.60
	20.6.2.2	Routine test	per test	28640.70
	20.6.3	Group of two or more piles upto 50 tonne capacity		
	20.6.3.1	Initial test	per test	60394.60
	20.6.3.2	Routine test	per test	36734.90
20.7	**Cyclic vertical load testing of pile in accordance with IS Code of practice IS: 2911 (part IV) including preparation of pile head etc for.**			
	20.7.1	Single pile		
	20.7.1.1	Upto 50 tonne capacity pile	per test	18678.70
	20.7.1.2	Above 50 tonne and upto 100 tonne capacity pile	per test	28640.70
	20.7.2	Group of two piles		
	20.7.2.1	Upto 50 tonne capacity each	per test	36734.90
20.8	**Lateral load testing of single pile in accordance with IS Code of practice IS : 2911 (Part IV) for determining safe allowable lateral load on pile :**			
	20.8.1	Upto 50 tonne capacity pile	per test	18678.70
	20.8.2	Above 50 tonne and upto 100 tonne capacity pile	per test	29387.90
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	817.40
	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.			

21.0 ALUMINIUM WORK

Code No.	Description		Unit	. Rate Rs.
21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / aneling,C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :			
	21.1.1	For fixed portion		
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	369.20
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	400.50
	21.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kg	408.40
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)		
	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	423.90
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	456.00
	21.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kg	455.70
21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.			
	21.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	sqm	851.20
	21.2.2	Pre-laminated particle board with decorative lamination on both sides	sqm	894.40
21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):			

Code No.	Description		Unit	. Rate Rs.
	21.3.1	With float glass panes of 4.0 mm thickness	sqm	735.60
	21.3.2	With float glass panes of 5.50 mm thickness	sqm	1017.30
	21.3.3	With float glass panes of 8 mm thickness	sqm	1455.60
21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete asper the direction of Engineer-in-charge.			
	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	each	2163.50
	21.4.2	With brass cover plate minimum 1.25 mm thickness	each	2350.30
21.5	Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50 micron) consisting of tee/ angle sections, of approved make conforming to IS : 733 in frames of false ceiling including aluminium angle cleats with necessary C.P. brass/ stainless steel sunk screws, aluminium perimeter angles fixed to wall with stainless steel rawl plugs @ 450 mm centre to centre and fixing the frame work to G.I. level adjusting hangers 6 mm dia. with necessary cadmium plated machine screws all complete as per approved architectural drawings and direction of the Engineer-incharge (level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately).		kg	488.00
21.6	Providing and fixing 6 mm dia. G.I. level adjusting hangers (upto 1200mm length), fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40x3mm size 60 mm long and stainless steel expandable dash fastener of 12.5 mm dia and 50 mm long, complete as per direction of Engineer -in-charge.		each	55.60
21.7	Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving dash fastener, over expansion joints on vertical surfaces/ceiling floors, the fixing on plate in one row on one side of joint only shall be done with stainless steel dash fasteners of 8 mm dia and 75 mm long bolt including providing aluminium washers 2 mm thick & 15 mm dia , at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete as per direction of Engineer-in-charge.			
	21.7.1	Anodised aluminium sheet 2.5mm thick (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	474.70
	21.7.2	Powder coated aluminium sheet 2.5mm thick (minimum thickness of powder coating 50 micron)	kg	506.10

Code No.	Description		Unit	. Rate Rs.
21.8	**Filling the gap in between aluminium frame & adjacent RCC/ Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.**			
	21.8.1	**Upto 5mm depth and 5 mm width**	**metre**	**72.90**
21.9	**Extra for applying additional anodic coating AC 25 instead of AC 15 to aluminium extruded sections.**			
	21.9.1	**For fixed portion**	**kg**	**12.50**
	21.9.2	**For shutters of doors, windows & ventilators**	**kg**	**12.50**
21.10	**Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications,drawings and direction of Engineer-in-charge complete.**		**sqm**	**3319.70**
21.11	**Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineerin-charge complete.**			
	21.11.1	205 X 19 mm	**each**	**223.20**
	21.11.2	255 X 19 mm	**each**	**285.40**
	21.11.3	355 X 19 mm	**each**	**250.60**
	21.11.4	510 X 19 mm	**each**	**654.00**
	21.11.5	710 X 19 mm	**each**	**1119.70**
21.12	**Providing and fixing aluminium tubular handle bar 32 mm outer dia,3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.**			
	21.12.1	Anodized (AC 15) aluminium tubular handle bar	**each**	**495.40**
	21.12.2	Powder coated minimum thickness 50 micron aluminium tubular handle bar	**each**	**544.30**
	21.12.3	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar	**each**	**588.00**
21.13	**Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.**		**each**	**360.50**
21.14	**Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. Minimum anodic coating of grade AC 15) sub frame work for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS: 1285, fixed with dash fastener of required dia and size (Dash fastener to be paid for separately).**		**kg**	**335.20**
21.15	**Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.**			
	21.15.1	Anodized (AC 15) aluminium	**each**	**55.00**
	21.15.2	Powder coated minimum thickness 50 micron aluminium	**each**	**58.70**
	21.15.3	Polyester powder coated minimum thickness 50 micron aluminium	**each**	**57.40**

Code No.	Description		Unit	. Rate Rs.
21.16	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineer in-charge			
	21.16.1	Anodized (AC 15) aluminium	each	66.20
	21.16.2	Powder coated minimum thickness 50 micron aluminium	each	72.40
	21.16.3	Polyester powder coated minimum thickness 50 micron aluminium	each	78.60
21.17	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be easured for payment).		kg	426.00
21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).		sqm	4779.90
21.19	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600			
	21.19.1	Upto 5 mm depth and 5 mm width	metre	98.60
	21.19.2	Upto 10 mm depth and 10 mm width	metre	136.30
	21.19.3	Upto 20 mm depth and 20 mm width	metre	253.30

22.0 Water proofing

Code No.	Description		Unit	. Rate Rs.
22.1	Providing and laying integral cement based treatment for water . proofing on horizontal surfaces at all levels as directed by Engineer-in-charge and consisting of: 1) 1st layer of 20 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement:3 coarse sand) mixed with water proofing compund conforming to IS: 12645 in the recommnded proportion. Joints sealed and grouted with cement slurry mixed with water proofing compound conforming to IS: 12645 in proportions recommended by the manufacturer. II) 2nd'c!ass layer of **25**mm thick cement mortar 1:3 (1 cement:3 coarse sand) mixed **with** water proofing compound in recommended proportions. Ill) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreadidng @ 8 cudm/sqm thoroughly embedded in the 2nd layer.			
	22.1.1	Using rough kota sotne.	sqm	**1304.30**
	22.1.2	Using rough red sand stone.	sqm	**1170.50**
22.2	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing sspecified stone slab 20 mm thick with cemm slurry mixed with water proofing compound conforming to IS: 2645 in recommended proportion with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar1:4 (1 cement:4 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge.			
	22.2.1	Using rough kota stone	sqm	1627.80
	22.2.2	Using rough red sand stone.	sqm	1490.80
22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C. kitchen and the like consisting of: (i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming tc IS 2645 in recommended proportions.(ii) 11 nd course of 20 mm cement plaster 1:3 (1 cement:3 coarse sand)mixed with water proofing compound in recommended proportion, (iii) Illrd course of applying blown or/residual bitumen aplied hot at 1.7 kg. per sqm of area, (iv) Ivth course of 400 micron thick PVC sheet.(Overlaps at joints of PVC shet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqni).		**sqm**	**444.30**
22.4	Providing and Placing in position suitable PVC water stops for construction/expansion joints between two RCC memberrs and fixed to the reinforfement with binding wire before pouring concrete etc. complete			
	22.4.1	Serrated with central buld (225 mm wide, 8-11 mm thick)	**m**	**267.10**
	22.4.2	Dumb bell with Central bulb (180 mm wide, 8 mm thick)	**m**	**212.50**
	22.4.3	Kickers (320 mm wide, 5 mm thick)	**m**	**249.90**

Code No.	Description	Unit	. Rate Rs.
22.5	Providing and laying in sssitu five course water proofing treatment with glass fibre tissue reinforced bitumen over roof consisting of first coat of bitumen primer @ 0.40 kg. per sqm, 2nd & 4th courses of bonding material® 1.60 kg. per sqm which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, third layer of glass ffibre tissuue course as specified, fifth, the top most layer of stone grit 6 mm and down size or pea-sized gravel sprad @ 6 dm^J per sqm including preparation of surface excluding grading for slope etc. complete.	**sqm**	**383.20**
22.6	Providing and laying in situ seven course water profing treatment with flass fibre tissue reinforced bitumen over roof consisting of first coat of bitumen primer @ 0.40 Kg, per sqm . 2nd , 4th $ 6th courses of bonding material @ 1.60 kg, per sqm , which shall consist of blown typw bitumen of grade 55/25 conforming to IS : 702 , third and fifth layers of glass fibre tissue course as specified , seventh , the top pea-sized grsvel spread @ 6 dm^3 per sqm , including prepatation of surface excluding grading for slope etc. complete.	**sqm**	**604.80**
22.7	Providing and laying in situ nine course water proofing treatment with glass fibre tissue reinforced bitumen over roof consisting of first coat of bitumen primer @ 0.40 kg. per sqm , 2nd , 4th , 6th , 8th coures of bonding material @ 1.60 kg. per sqm , which shall consist of blown type bitumen of grade 55/25 conforming to IS -702 , third , fifith and seventh courses of flass fibre tissue , as specified , ninth, the top most layer of stone grit 6 mm and down size or pea-sized gravel spread @ 6 dm^z per sqm including preparation of surface ' excluding grading for slope etc, compete.	**sqm**	**824.50**
22.8	Providing and laying integral cement based water proofing treatment including prepatation of surface as required for treatment of roofs, balconies , terraces etc, consisting of following operations. **(a)** Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water -proofing compound cleaning the surface before treatment, **(b)** Laying cement concrete using broken bricks / brick bats 25 mm to 100 mm size with 50 % of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement: 5 coarse sand) admixed with proprietary water froofing compound conforming to IS 2545 to reuired slope and treating similary the adjoining walls upto 300 mm height including rounding of junctions, or walls ad slabs. **(c)** After two days of proper curing applying a secoung coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645. **(d)** Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300 x 300 mm square. **(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 specifed by the Engineer-in-Charge.		
	22.8.1 With average thickness of 120 mm and minimum thickness at khurras point to be 65 ..	**sqm**	**2553.30**

Code No.	Description	Unit	. Rate Rs.
22.9.1	Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20micron HMHDPE film sandwitched on both sides with polymeric mix and the polymeric mix is protected on both side with 20micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 100 grouted with cement mortar 1:3 (lcement:3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat which shall be paid for separately .	sqm	470.40
22.9.2	Providing and laying in situ five course water proofing treatment with **APP**(Atactic Polypropylene) modified Polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd & 4th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd layer of roofing membrane APP modified Polymeric membrane 2.0mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as lOOmicron HMHDPE film sandwitched on both sides with polymeric mix and the polymeric mix is protected on both side with 20micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class designation 100 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat which shall be paid for separately as per DSR Item No. 12.19.	sqm	328.60
22.9.3	Providing and laying in situ seven course water proofing treatment with APP (AtacticPolypropylene) modified Polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40Kg 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 2.0mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 1 OOmicron HMHDPE film sandwitched on both sides with polymeric mix and the polymeric mix is protected on both side with 20micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 100 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 which shall be paid for separately .	sqm	533.40

Code No.	Description	Unit	. Rate Rs.
22.18	Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrance, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/ sqm by the same membrance manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane.		
	22.18.1 **2 mm (for corrugated roof sheets).**	**sqm**	**277.00**
22.19	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @0.40 litre/ sqm by the same membrane manufactured of density at 25° C, 0.87 - 0.89 kg/ litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane.		
	22.19.1 **3 mm thick.**	sqm	**414.00**
22.20	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/ sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscocity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5 cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane.		
	22.20.1 **3 mm thick.**	sqm	**420.80**
22.21	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100%polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	**sqm**	**77.20**

Code No.	Description	Unit	. Rate Rs.
22.22	Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like basement raft, retaining walls, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc.. at the time of transporting of concrete into the drum of the ready-mix truck , using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. 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. 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**	**405.70**
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	**336.20**
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	**505.50**
	22.23.2 For horizontal surface one coat @1.10 kg per sqm.	sqm	**390.70**
22.23A	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 as per the direction of Engineer-in-Charge.	sqm	**387.00**

Code No.	Description	Unit	. Rate Rs.
22.24	Providing and applying integral crystalline (dry shake) of hydrophilic in nature for waterproofing treatment to the RCC structures like basement raft, foundation slab, sewage & water treatment plant slab, warehouses floor, parking structures and water tank base slab etc. sprinkled @0.60kg per sqm or higher as recommended by the manufacturer's specification over the lean concrete of above cited structures. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 85%, compared control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline dry-shake 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	sqm	**342.60**
22.25	Providing and applying crystalline mortar by mixing in the ratio of 4.5 : 1 (4.5 parts crystalline mortar : 1 part water) for the treatment of faulty construction joints, cracks, tie rod holes and spalled & honeycombed surface of RCC underground structures like basement, water tanks, bridge deck etc. to ensure water tightness. The crystallie mortar shall conform to the EN 1504-3 having compressive strength Class R4 (?45 MPa) and adhesive bond strength Class R3 (?1.5 MPa). The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.		
	22.25.1 For sealing cracks and faulty construction joints, routed out/making U-shape groove size 25x25mm and then primed the area with integral crystalline slurry @0.05kg/running meter and while the surface is tacky filled the groove upto surface with crystalline mortar @1.50kg/running meter. Once crystalline mortar is touch dry then finally applied two coats of integral crystalline slurry @0.05kg/running meter per coat.	per metre	**553.80**
	22.25.2 For patching of tie rod holes, prepared tie rod hole surface and then primed the area with integral crystalline slurry @0.070kg/sqm and while the surface is tacky repair and then filled the tie rod holes with crystalline mortar@0.040kg per hole. The crystalline mortar should be tightly rodded into tie rod holes or packed tightly (For 25x25x25 mm tie rod hole, use 0.040kg to fill the hole)	each	**20.30**
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	**579.60**

23.0 Horticulture and Landscaping

Code No.	Description	Unit	Rate Rs.
23.1	Trenching in ordinary soil upto a depth of 60 cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge of/and manure before and after flooding trench with water (encluding cost of imported earth,sludge or manure).	**cum**	**37.20**
23.2	Supplying and stacking of good earth at site including royalty but excluding carriage (earth measusred in stacks will be reduced by 20% for payment).	**cum**	**119.40**
23.3	Supplying and stacking Sludge at site including royalty and carriage (Sludge measusred in stacks will be reduced by 8% for payment).	**cum**	**194.50**
23.4	Supplying and stacking a' site dump manure from approved source, excluding carriage (manure measured in stacks will be reduced by 8% for payment)		
	23.4.1 Screened through sieve of I.S. designation 20 mm	**cum**	**33.80**
	23.4.2 Screened through sieve of I.S. Designation 16 mm	**cum**	**50.80**
	23.4,3 Screened through sieve of I.S. designation 4.75 mm	**cum**	**64.30**
23.5	Rough dressing the trenched ground including breaking clods.	**100sqm**	**71.40**
23.6	Uprooting weeds form the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	**100sqm**	**235.70**
23.7	Fine dressing the ground	**100sqm**	**173.40**
23.8	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/and good earth to be paid separately).	**cum**	**25.00**
23.9	Mixing earth and sjudge or manure in porportion specified or directed.	**cum**	**17.40**
23.10	Grassing with 'Doob' grass including watering and maintenance of the lawn for 30 days or more tili the grass forms a thick lawn free form weeds and fit for mowing including supplying good earth if needed.		
	23.10.1 In rows 15 cm apart in either direction.	**100sqm**	**266.10**
	23.10.2 In rows 7.5 cm apart in either direction.	**100sqm**	**558.60**
	23.10.3 In rows 5 cm apart in either direction.	**100sqm**	**855.40**

Code No.	Description	Unit	Rate Rs.
23.11	Renovating lawns including weeding.cheeling the grass,forking the ground, top dressing with sludge or manure,mixing the same with forked soil,watering and maintaining the lawn for 30 days or more till the grass forms a thich lawn free from weeds and fit for mowing and disposal of rubbish as directed, including supplying good earth if needed but excluding the cost of sludge or manure.	**100 sqm**	**1633.20**
23.12	Uprooting rank vegetation and weeds by digging the area to a depth of 60 cm removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of al! rubbish with **all** leads and lifts.	**100sqm**	**2841.60**
23.13	Preparation of beds for hedging and shrubbery by excavating 60 cm deep and trenching the excavated base to a further depth of 30 cm, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%). flooding with water, filling with earth if necessary, watering and finally fine dressing, levelling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and levelling as drected, within a lead of 50 m lift upto 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately).	**cum**	**105.50**
23.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2;1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water,dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately):		
	23.14.1 Holes 1.2 m dia, And 1.2 m deep.	**each**	**447.20**
	23.14.2 Holes 60 cm ciia. And 60 cm deep.	**each**	**57.80**
23.15	Half brick circular tree guard in 50 class designation bricks, internal diameter 1.25 metre and height 1.? metre above ground and 0.20 m below ground bottom two courses laid dry and top three courses in lime mortar 1:2(1 lime putty:2 surkhi) or cement ortar 1:6 (1 cement:6 fine sand) and the intermediate courses being in dry honey comb masonry as per design complete:		
	23.15.1 With F.P.S. Bricks	**each**	**1644.00**
23.16	Providing and fixing M.S. fiat iron tree guard 60 cm dia. And 2 m high above ground level formed of 4 nos. 25x6 mm and 8 nos. 25x3 mm vertical M.S. flats hvetted to 3 nos. 25x6 mm M.S. flat iron rings in two halves, bolted together with 8 mm dia. And 30 mm long bolts including painting two coats with paint of approved brand and manufacture over a coat of priming, complete in all respects.	**each**	**225.60**
23.19	Edging with bricks laid dry length wise including excavation, refilling, consolidating with hand packing and spreading neatly susrplus earth within a lead of 50 m:		

Code No.	Description		Unit	Rate Rs.
	23.19.1	100A class designation.		
	23.19.1.1	F.P.S.Bricks	**m**	**40.60**
	23.19.1.2	100Bclass designation.	**m**	**37.70**
23.20	Filling mixture of earth and sludge or manure in the deisired proportion in trenches, flooding with water and levelling (cost of supplying earth and sludge nr manure and mixing excluded).		**m**	**8.60**
23.21	Excavation in dumped stones or malba including stacking of serviveable and unserviceable material separately and disposal of unserviceable material lead upto 50 m and lift upto 1.5 m disposed material to be neatly dressed.		**cum**	**243.00**
23.22	Excavation in bajri path including stacking of serviceable and unserviceable material lead upto 50 m and lift upto 1.5 m disposed material to be neatly dressed,		**cum**	**270.20**
23.23	Excavation in water bound macadam road including stacking the serviceable and unserviceable material separatedly and disposal of unserviceabel material lead upto 50 m and lift upto 1.5 m disposed material to be neatly dressed.		**cum**	**329.30**
23.24	Flooding the ground with water including making kiaries and dismantelling the same.		**100sqm**	**144.20**

24.0 RAIN WATER HARVESTING & TUBEWELLS

Code No.	Description		Unit	. Rate Rs.
24.1	**Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level.**			
	24.1.1	All types of soil		
	24.1.1.1	300 mm dia	**metre**	**388.70**
	24.1.1.2	350 mm dia	**metre**	**425.10**
	24.1.1.3	400 mm dia	**metre**	**544.20**
	24.1.2	Rocky strata including Boulders		
	24.1.2.1	300 mm dia	**metre**	**876.80**
	24.1.2.2	350 mm dia	**metre**	**910.80**
	24.1.2.3	400 mm dia	**metre**	**1028.90**
24.2	**Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools,plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.**			
	24.2.1	All types of soil		
	24.2.1.1	300 mm dia	**metre**	**453.50**
	24.2.1.2	350 mm dia	**metre**	**526.60**
	24.2.1.3	400 mm dia	**metre**	**715.80**
	24.2.2	Rocky strata including Boulders		
	24.2.2.1	300 mm dia	**metre**	**937.80**
	24.2.2.2	350 mm dia	**metre**	**967.60**
	24.2.2.3	400 mm dia	**metre**	**1215.10**
24.3	**Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths,as per direction of Engineer -in-charge.**			
	24.3.1	100 mm nominal size dia	**metre**	**309.90**
	24.3.2	150 mm nominal size dia	**metre**	**612.80**
	24.3.3	200 mm nominal size dia	**metre**	**654.00**
	24.3.4	50 mm nominal size dia	**metre**	**217.50**
	24.3.5	75 mm nominal size dia	**metre**	**375.40**
24.4	**Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.**			
	24.4.1	100 mm nominal size dia	**metre**	**479.50**
	24.4.2	150 mm nominal size dia	**metre**	**566.70**

Code No.	Description		Unit	. Rate Rs.
	24.4.3	200 mm nominal size dia	**metre**	**879.80**
	24.4.4	50 mm nominal size dia	**metre**	**354.20**
	24.4.5	75 mm nominal size dia	**metre**	**480.00**
24.5	**Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.**		**cum**	**959.00**
24.6	**Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.**		**cum**	**1083.60**
24.7	**Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.**		**cum**	**1083.60**
24.8	**Gravel packing in tubewell construction in accordance with IS: 4097,including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.**		**cum**	**1225.10**
24.9	**Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.**		**each**	**1032.30**
24.10	**Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia,conforming to IS: 4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.**			
	24.10.1	100 mm nominal size dia having minimum wall thickness 5.00 mm	**metre**	**941.10**
	24.10.2	150 mm nominal size dia having minimum wall thickness 5.00 mm	**metre**	**1119.70**
	24.10.3	200 mm nominal size dia having minimum wall thickness 5.40 mm	**metre**	**1618.40**

Code No.	Description		Unit	. Rate Rs.
24.11	**Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed / plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture,including hire & labour charges, fittings & accessories, all complete,for all depths, as per direction of Engineer -in-charge.**			
	24.11.1	100 mm nominal size dia	**metre**	**1013.80**
	24.11.2	150 mm nominal size dia	**metre**	**1379.30**
	24.11.3	200 mm nominal size dia	**metre**	**1716.20**
24.12	**Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully develo ped, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete,including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.**		**hour**	**594.60**
24.13	**Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:**			
	24.13.1	100 mm dia	**each**	**156.90**
	24.13.2	150 mm dia	**each**	**196.10**
	24.13.3	200 mm dia	**each**	**248.40**
24.14	**Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.**			
	24.14.1	100 mm clamp	**each**	**1124.70**
	24.14.2	150 mm clamp	**each**	**1190.00**
	24.14.3	200 mm clamp	**each**	**1349.70**
24.15	**Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).**			
	24.15.1	100 mm dia	**each**	**198.80**
	24.15.2	150 mm dia	**each**	**248.60**
	24.15.3	200 mm dia	**each**	**273.50**

25.0 CONSERVATION OF HERITAGE BUILDINGS

Code No.	Description	Unit	Rate Rs.
25.1	**Raking out joints of stone masonry surface to the required width and depth, with due care and precaution, by mechanical / manual means, including preparing and cleaning the surface for re-pointing/ refilling of joints, including disposal of rubbish to the dumping ground within 50 metre lead.**	sqm	23.80
25.2	**Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge.**	sqm	144.40
	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.		
25.3	**Cleaning the sand stone surface and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc., including providing, applying and washing the surface with liquid Ammonia Chemical of 5% solution and other chemical cleaning agent as approved by chaeological Survey of India/ Engineer-incharge, 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	65.30

Code No.	Description	Unit	Rate Rs.
25.4	**Providing and applying antifungal wash treatment using 3% solution of sodium pentachlorophenate, of reputed brand and manufacturer,on cleaned sand stone surface at desired locations as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).**	sqm	28.30
25.5	**Ruled / Flush pointing on Red sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime: 1.5 surkhi (50% red and 50% light yellow surkhi):1/2 marble dust}. (The rate is inclusive of all materials & labours involved except scaffolding).**	sqm	126.60
25.6	**Ruled/ Flush pointing on White sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime : 1.5 surkhi (15% dark red and 85% light yellow surkhi) : 1/2 marble dust}. (The rate is inclusive of all materials & labours involved except scaffolding).**	sqm	126.60
25.7	**Applying two or more coat of Ethyl Silicate chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacturer, with brush or spray on the existing stone masonry surface till there is no further absorption of chemical by stone surface, including protecting the applied surface from direct sunlight by suitable means during application, all complete as per direction of the Engineer-in-Charge (The rate is inclusive of all materials & labours involved except scaffolding).**	sqm	280.10
25.8	**Applying breathable, non-reactive, antifungal, and water repellant Silane/ Siloxane chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacture,diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical :12 Part of Turpentine oil), on the existing sand stone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per direction of Engineer-In-charge (The rate is nclusive of all materials & labours involved except scaffolding).**	sqm	53.70

26A.0 STRUCTURAL GLAZING AND ALUMINIUM COMPOSITE PANEL

Code No.	Description	Unit	. Rate Rs.
26A.1	Providing and supplying aluminium extruded tubular and other aluminium sections as per the rchitectural drawings and approved shop drawings , the aluminium quality as per grade 6063 T5 or T6 as per BS74,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).	kg	362.60
26A.2	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:	kg	2775.50
	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.		

Code No.	Description	Unit	. Rate Rs.
	e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified,as per the approved shop drawings and as directed by the Engineerin-Charge.		
	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 BL(National Accreditation Board for Testing and Calibration boratories), Department of Science &Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories		
	1. Performance Laboratory Test for Air Leakage Test (-50pa to –300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr"		
	2. Static Water Penetration Test. (50pa to 1500pa) as per ASTME-331-09 testing method for a range up to 2000 ml."		
	3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01-05 testing method for a range upto 2000 ml"		
	4. Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTME-330-10 testing method for a range upto 50 mm"		
	5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test" Tests to be conducted on site		
	6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000ml"	sqm	

Code No.	Description	Unit	. Rate Rs.
26A.3	**Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthned clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2)For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.** **(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25-0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.**	sqm	4089.40
26A.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 Engineerin- Charge.**	sqm	3221.90
26A.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 # 1of the fibre glass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5 mm and nominal mass not less than 60 gm / sqm, made of randomly oriented glass fibres distributed in a binder by a wet-lay process including fixing 1.5 mm thick solid aluminum sheet backing using, 6 mm thick cement board including SS rivets, nuts, bolts, washers etc complete.**	sqm	1704.90

Code No.	Description	Unit	. Rate Rs.
26A.6	**Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. ,all complete for the required performances as specified, as per the Architectural drawings, as per the approved shop drawings, as specified, and as directed by the Engineer- in- Charge. For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.(Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevent Item*).**		
	(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. . The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	sqm	3069.20
26A.7	**Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including:**		
	a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.		
	b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metalic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.		
	c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per pecification and drawing		

Code No.	Description	Unit	. Rate Rs.
	The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.	sqm	3864.90
26.8	**"Design supply & installation of suspended Spider Glozing system designed to withstand the wind pressure as pr IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the erimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof.**		
	The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding ,other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete.		
	For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured. "	sqm	3629.60

26.0 NEW TECHNOLOGIES AND MATERIALS

Code No.	Description	Unit	Rate Rs.
26.1	**Providing & fixing in position Phenol bonded Bamboowood flooring with planks of sizes 14mm thick, 1800mm length (minimum) and 130 mm wide(minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The flooring shall be fixed with tongue and groove interlocking system, with underlayment of 4mm thick expanded poly ethylene foam sheets having density 40kg/cum, over prepared surface with necessary quarter round planks of size 1900mm x 18mm and door reducer of size 1900mm x 44mm, wherever required. The bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.**	sqm	5314.30
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 poly ethylene foam sheets having 40kg/cum density over prepared surface. The bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.**	sqm	5087.30
26.3	**Providing & fixing in position Phenol bonded Bamboowood wall cladding at all height with planks of sizes 10mm thick, 1800mm length (minimum) and 130 mm wide (minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC), with necesasary profiled edges fixed with 40mm SS screws 5 nos in each tile to frame work made of 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 poly ethylene foam of density 40kg/cum in two layers, first layer on wall surface before fixing wooden frame and second layer on frame under cladding. The bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.**	sqm	5068.80
26.4	**Providing & fixing in position Phenol bonded Bamboo wood panelled or panelled and glazed shutters for doors windows, clerestorey windows with pre-molded 30mm thick planks, in approved colours, texture & finishe. 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	5228.70

Code No.	Description	Unit	Rate Rs.
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 bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. The panels shall have profiled interlocking system locked in place with bamboo pins all complete as per direction of the Engineer in-charge. (area of opening for panel inserts excluding portion inside grooves or rebates to be measured)**	sqm	3474.30
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	241.60
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	6813.10
26.8	**Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size under deck 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	717.10
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	303.40

Code No.	Description	Unit	Rate Rs.
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 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	3617.10
26.11	**Providing and fixing concealed hinge of approved quality for 19-20mm thick door with stainless steel screws complete :**	each	40.30
26.12	**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	141.40
26.13	**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.**	sqm	160.60
26.14	**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	255.10
26.15	**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**	367.50

Code No.	Description	Unit	Rate Rs.
26.16	**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 having pores of 150 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.**	**sqm**	701.70
26.17	**Supplying & laying of drainage composite for use behind walls, between two different fills, alongside drains of road, below concrete lining of canals etc. 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 that will be working as separation or protecting layer, geocomposite 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 per unit area of 830 gsm, at easily accessible location including top and bottom, with all leads and lifts, manpower and machinery, materials, labour etc. complete and as directed by Engineer - In - Charge.**	sqm	833.20
26.18	**Supplying and laying high strength flexible geogrids (HSFG) as soil reinforcement / basal reinforcement as per MORTH 3100 and IRC 113, made of high tenacity polyester core with polyethylene coating with Minimum Long Term Design Strength (LTDS) of more than 50% of ultimate tensile strength at 30 degree Celcius corresponding to 12 % strain .**		
	26.18.1 Ultimate tensile strength- 100 kN/m	sqm	285.30
	26.18.2 Ultimate tensile strength- 150 kN/m	sqm	312.70
	26.18.3 Ultimate tensile strength- 200 kN/m	sqm	422.20
	26.18.4 Ultimate tensile strength- 250 kN/m	sqm	463.30
	26.18.5 Ultimate tensile strength- 300 kN/m	sqm	490.70
	26.18.6 Ultimate tensile strength- 350 kN/m	sqm	497.00
	26.18.7 Ultimate tensile strength- 400 kN/m	sqm	586.60
	26.18.8 Ultimate tensile strength- 500 kN/m	sqm	696.20
	26.18.9 Ultimate tensile strength- 600 kN/m	sqm	764.70
	26.18.10 Ultimate tensile strength- 700 kN/m	sqm	901.70
	26.18.11 Ultimate tensile strength- 800 kN/m	sqm	981.10
	26.18.12 Ultimate tensile strength- 900 kN/m	sqm	1163.30
	26.18.13 Ultimate tensile strength- 1000 kN/m	sqm	1308.50
	26.18.14 Ultimate tensile strength- 1100 kN/m	sqm	1381.10
	26.18.15 Ultimate tensile strength- 1200 kN/m	sqm	1501.60

Code No.	Description		Unit	Rate Rs.
26.19	**Providing at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/self tapping SS screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications, detail drawings and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealent where required etc. but excluding the cost of purlins, rafters and trusses.**			
	26.19.1	**0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.**	sqm	826.70
	26.19.2	**0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.**	sqm	1046.80
26.20	**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).**		one job 8hrs	492.80
26.21	**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).**		one job 8hrs	520.40
26.22	**Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991,in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main- T runners of size 24x38 mm of length 3000 mm, cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.**			
	26.22.1	**With 15 mm thick tegular edged light weight calcium silicate false ceiling tiles.**	sqm	1563.40

Code No.	Description	Unit	Rate Rs.
26.23	**Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on inter-locking metal powder coated T-Grid of hot dipped galvanised iron section of 0.40 mm thick on Silhouette profile,rotary stiched double webbed white with 6 mm reveal profile (white/black),comprising of main-T runners of size 15x42 mm of length 3000 mm, cross - T of size 15x42 mm of length 1200 mm and secondary intermediate cross-T of size 15x42 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in- Charge.**		
	26.23.1 With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles	sqm	1795.00
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 15 mm thick fully With perforated square/butt edge light weight calcium silicate panels/ tiles	sqm	2195.50

Code No.	Description		Unit	Rate Rs.
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	1325.40
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, Non combustible as per BS 476 (part 4)-1970 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15x32 mm of length 3000 mm, cross - T of size 15x32 mm of length 1200 mm and secondary intermediate cross-T of size 15x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing '@ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall wood screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.**			
	26.26.1	**With semi perforated 12 mm thick micro tegular edged GRG false ceiling tiles.**	sqm	1384.20
	26.26.2	**With fully perforated 12 mm thick micro tegular edged or 10 mm thick square edged GRG false ceiling tiles.**	sqm	1491.40

Code No.	Description		Unit	Rate Rs.
26.27	**Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance ?85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 &7)in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge.**			
	26.27.1	**With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6)**	sqm	1550.60
	26.27.2	**With 20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7)**	sqm	1844.20
	26.27.3	**With 16 mm thick beveled tegular mineral fibre Anti-microbial false ceiling tile confirming to ISO 5 (class 100) specifications**	sqm	1670.30
26.28	**Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge**			
	26.28.1	75mm average thickness	sqm	162.50
	26.28.2	50mm average thickness	sqm	107.60
	26.28.3	25 mm average thickness	sqm	55.00
26.29	**Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.**			
	26.29.1	Bars upto 12 mm diameter	metre	4.10
	26.29.2	Bars above 12 mm diameter	metre	8.10
26.30	**Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge.**			
	26.30.1	Upto and including 12mm dia.	each	64.00

Code No.	Description		Unit	Rate Rs.
26.31	**Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-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	87.00
	26.31.2	Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	sqm	340.80
26.32	**Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2).**			
	26.32.1	12 mm average thickness.	sqm	178.30
	26.32.2	25 mm average thickness in 2 layers.	sqm	296.40
	26.32.3	50 mm average thickness in 3 layers.	sqm	592.80
26.33	**Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness. Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super-Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)**			
	26.33.1	**50mm thick in Grade M 25 with cement content not less than 330 kg per cum**	sqm	353.50
	26.33.2	**75mm thick in Grade M 25 with cement content not less than 330 kg per cum**	sqm	530.30

Code No.	Description		Unit	Rate Rs.
26.34	**Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars, piers, beams etc with concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness all-round existing core of RCC member. Note: Rates shall be for finished surface area of concrete and shall include the cost of making holes in existing RCC slab, if required, for pouring concrete in shuttering mould of jacket and appropriate approved Super-Plasticiser for rendering concrete as flowable self compacting and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument**			
	26.34.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	353.50
	26.34.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	530.30
	26.34.3	100mm thick in Grade M 25 with cement content not less than 330 kg per cum	sqm	714.80
26.35	**Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-in-Charge. (The payment shall be made on the basis of actual weight of approved grout injected.)**			
	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	78.40
	26.35.2	Stirrer mixed SBR Polymer (of approved make) modified Cement slurry made with Shrinkage Compensating Cement in concrete/RCC work.	kg	82.10
	26.35.3	Epoxy injection grout in concrete/RCC work of approved make	kg	690.30
26.36	**Providing, erecting, maintaining and removing temporary protective screens made out of specified fabric with all necessary fixing arrangement to ensure that it remains in position for the work duration as required by the Engineer- in-charge.**			
	26.36.1	Wooven PVC cloth	sqm	42.20
26.37	**Cleaning of exposed concrete surface of sticking material including loose and foreign material by sand blasting with coarse sand followed by and including cleaning with oil free air blast as per direction of Engineer in charge.**		sqm	141.40

Code No.	Description		Unit	Rate Rs.
26.38	**Shotcreting R.C.C. columns, beams and slabs etc. in layers with approved design mix concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10 mm maximum size in proportion as per design criteria] including the cost of centering and shuttering at edges and corners etc. as directed by Engineer- in-Charge. Note: Rates shall include the providing necessary ground wires etc. The levelling gauges, if used, shall be paid for separately. Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument.**			
	26.38.1	**25mm thick in Grade M 25 with cement content not less than 330 kg per cum**	**sqm**	**421.20**
	26.38.2	**50mm thick in Grade M 25 with cement content not less than 330 kg per cum**	**sqm**	**682.00**
	26.38.3	**75mm thick in Grade M 25 with cement content not less than 330 kg per cum**	**sqm**	**1179.70**
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**	147.80
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**	618.80
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-150 gms Aluminum 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.**			

Code No.	Description	Unit	Rate Rs.
	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 (RCC to be paid separately) and located not more than 300mm from corners or termination of bottom tracks complete in all respects. The item also includes the submission of stability reports duly examined and issued by any NIT/IIT. The rate includes the concept design, detailed design, fabrication of sections, transportation, installation and all required fixing arrangement at site as described above.	**kg**	**182.00**
26.42	**Providing and fixing of external wall system on Light gauge steel frame work with. Outer face having 6mm thick heavy duty fiber cement board fixed on 9mm thick heavy duty fiber cement board confirming to IS 14862:2000, category IV type A (High pressure steam cured) as per standard sizes fixed with self- drilling / taping screws / fasteners @ 60cm c/c of approved make. A grove of 2 mm to 3mm shall be maintained and groves shall be sealed with silicon based sealant. The board shall be fixed in a staggered pattern.Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm and internal face 12.5mm thick gypsum plaster board fixed on 8mm thick fiber cement board confirming to IS 14862:2000 of category III type B (High pressure steam cured) as per standard sizes fixed with self- drilling / taping screws / fasteners @ 60cm c/c of approved make, proper taping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound for seamless finish.(cost of frame work to be paid for separately).**	**sqm**	**2872.90**
26.43	**Providing and fixing internal wall panels on Light gauge steel frame work with 12.5mm thick gypsum plaster board conforming IS 2095:2011 fixed on 8mm thick fiber cement board conforming to IS 14862:2000 of category III type B (High pressure steam cured) as per standard sizes fixed with self-drilling / taping screws / fasteners @ 60cm c/c of approved make, Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm. Proper taping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound for seamless finish.(cost of frame work to be paid for separately)**	**sqm**	**1800.80**
26.44	**Providing and fixing in all exterior face panels breathable vapour barrier underneath the cement fiber board as per National Building Code 2009 complete as per direction of Engineer-in-charge.**	**sqm**	**249.30**
26.45	**Supplying and installation of moisture resistant/fire resistant 6 mm thick Heavy duty fiber cement board (High pressure steam cured) conforming to IS 14862:2000 of category III type B as per standard sizes fixed with self-drilling / taping screws. Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm.**	sqm	872.20

Code No.	Description	Unit	Rate Rs.
26.46	**Providing and fixing in position, 200 mm thick factory made Expanded Polystyrene Core (EPS Core) wall panels consisting of EPS core sandwiched between two Engineered sheets of welded wire fabric mesh duly finished with shortcrete materials on outer faces. The fabric mesh shall be made of 3 mm dia G.I. wire mesh with 50 mm pitch in both the directions and on both faces of the wall, kept at 120-135 mm gap and connected by the zig zag G.I. wire of 3 mm dia at alternate row by welding (at an angle ranging from 50-70 degree) . The EPS core shall consist of 100 mm thick EPS of density not less than 20 kg/ per cum. Both the outer faces of the panel shall be finished by applying the layer of 50 mm thick cement mortar 1:3 {1 cement: 3 coarse sand (not having more than 40% stone chips of**	sqm	3413.00
26.47	**Providing and fixing in position, 230mm thick factory made Expanded Polystyrene Core (EPS Core) roof/floor panels made of 3 mm dia G.I. wire mesh with 50 mm pitch in both the directions and on both faces of panel, kept at 120-135 mm gap and connected by the zig zag G.I. wire of 3 mm dia at alternate row by welding (at an angle ranging from 50-70 degree). The EPS core shall consist of 100 mm thick EPS of density not less than 20kg/ per cum. The bottom side of the panel shall be finished by applying a layer of 60-65 mm thick cement mortar 1: 3 {1 cement: 3 coarse sand (not having more than 40% stone chips of size upto 6 mm)} À with the help of shotcreting equipment etc at a pressure of not less than 1 bar (100Kn/m2) and surface finished with trowel. The top face of the panel shall be provided and finished by applying 70-75 mm thick layer of cement concrete 1:1.5: 3 (1 cement :1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size). Fixing operations of roof/floor panels shall be completed in all respect as per drawings and specifications and under the overall direction of the Engineer-in-charge.**	sqm	1355.10
26.48	**Providing and fixing aluminum formwork for monolithic construction RCC members using grade 5052 aluminum for panel sheets of minimum 4 mm thickness and grade 6061 (Type-6) aluminum for extruded sections. The tolerance of finished panels to be (-1 mm). Pins and wedges to be made of high grade mild steel. All complete as per direction of Engineer-in-charge.**	sqm	149.10