



ओएनजीसी लिमिटेड: अंकलेश्वर परिसंपत्ति
ONGC LTD. : ANKLESHWAR ASSET
ENGINEERING SERVICES (Works)
ANKLESHWAR- 393 010
Tele : 02646-237014

Notification of Award

NO.ANK/ES/CIVIL/AC12C24018/9010039235/24-25/383

Date: 12.11.2024

To,

✓ M/s. Vikalp Infra
NILKANTH ROW HOUSE,
NEAR D MART, SARTHANA JAKATNAKA,
SURAT - 395006
Vendor Code: 922375

Subject: Notification of award (NOA) for "Three years rate contract for civil works at various Installations and bunk house colony for Area -IV in North Gandhar oil field of Ankleshwar Asset (24-27)."

Reference: E-Tender No. AC12C24018

1. With reference to the above, ONGC, Ankleshwar Asset is hereby pleased to place this NOA for the work of "Three years rate contract for civil works at various Installations and bunk house colony for Area -IV in North Gandhar oil field of Ankleshwar Asset (24-27)" against E-Tender no. AC12C24018 as per details of tender document at your total quoted amount of Rs.1,71,89,129.68 (Rupees One Crore Seventy one Lakh Eighty Nine Thousand One Hundred twenty nine and paise sixty eight only), which is 55% of total accepted tender value. Accepted Tender rates to be paid shall be 15.01% (Fifteen Point Zero one Percent) below the Schedule of Rates as given in attached schedule-B. The rates in the schedule-B are inclusive of applicable GST.
2. Completion period: 03 (THREE) Years from day of issue of NOA.
3. Liquidated Damages (LD)/Compensation: Liquidated damages/compensations will be applicable as per Clause of Tender Document.
4. Contract performance security/ Performance Bond: You are requested to submit Contract performance security for an amount of Rs.5,73,000.00 (Rupees Five Lakh Seventy three Thousand only) within 15(Fifteen) Days from the date of issue of the NOA to execute formal contract agreement in any of the following forms-
 - a. Electronic Bank Guarantee (e-BG) in the format attached. The validity of Performance Guarantee shall be for contract period plus fifteen months (12 months defects liability/warranty period plus three months) from the date of issue of this letter.
 - b. NEFT/RTGS/Electronic fund transfer to account of ONGC as per following details:

Beneficiary Account Name : Oil and Natural Gas Corporation Limited
Bank Name : State Bank of India
Branch : ONGC Ankleshwar
Branch Code : 002675
Bank Account No. : 10210868032
IFSC Code : SBIN0002675

5. You are also required to obtain a Labour license from the competent authority for engagement of labour and furnish the same to ONGC.
6. Schedule Rates: As per Schedule-B
7. This Notification of award (NOA) shall be a binding contract till signing of contract agreement. The Contract Agreement will be signed only after receipt of PBG/SD.
8. You are requested to acknowledge within 3 (three) days, acceptance of NOA and confirm that you shall submit SD/PBG within 15 (Fifteen) days of date of issue of NOA.

Enclosed: Schedule-B


12/11/2024
GM-LM (Works)
ONGC Ankleshwar
प्रवीण कुमार / PRAVEEN KUMAR
महा प्रबंधक (सिविल) - स्थान प्रबंधक (वर्क्स)
General Manager (Civil) - Location Manager (Works)
आएनबीसी, अंकलेश्वर परिसम्पत्ति / ONGC, Ankleshwar Asset

TENDER NO.AC12C24018

Schedule - B				
Name of work : Three Years Rate contract for civil works at various Installations and bunk house colony for Area -IV in Gandhar oil field. (2024-2027)				
I No	Description of Item	Unit	Rate	Accepted Rate (i.e. 15.01% below the tender rate)
	2.0 EARTH WORK			
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5 m in width as well as 10 Sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil.	Cum	177.50	150.86
	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 Sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.			
2	Ordinary rock	Cum	498.90	424.02
3	Hard rock (requiring blasting)	Cum	874.40	743.15
4	Hard rock (blasting prohibited)	Cum	1432.95	1217.86
5	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 Sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	Cum	260.30	221.23
	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 Sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.			
6	Ordinary rock	Cum	632.95	537.94
7	Hard rock (requiring blasting)	Cum	1049.80	892.23
8	Hard rock (blasting prohibited)	Cum	1523.05	1294.44
	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 : All kinds of soil.			
9	Pipes, cables etc, not exceeding 80 mm dia.	Metre	215.60	183.24
10	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	Metre	352.15	299.29
11	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	Metre	549.75	467.23
12	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not	Cum	196.00	166.58

	exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and for all lift.			
	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.			
13	All kinds of soil.	Cum	126.80	107.77
14	Ordinary or hard rock	Cum	227.40	193.27
15	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	2123.75	1804.98
16	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. All kinds of soil	Sqm	34.15	29.02
17	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	17.60	14.96
18	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	8.95	7.61
	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.			
19	Beyond 30 cm girth upto and including 60 cm girth	each	532.35	452.44
20	Beyond 60 cm girth upto and including 120 cm girth	each	2373.50	2017.24
21	Beyond 120 cm girth upto and including 240 cm girth	each	11020.15	9366.03
22	Above 240 cm girth	each	22075.20	18761.71
23	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20%.	litre	234.75	199.51
24	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / Sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete: With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration.	Metre	38.90	33.06
25	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear Metre including drilling and plugging holes etc.: With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration.	Metre	53.45	45.43
26	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 : 2 (1 cement : 2 Coarse sand) to match the existing floor : With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	Sqm	310.05	263.51

TENDER NO.AC12C24018

27	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 : With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	Metre	43.00	36.55
28	Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	Metre	279.70	237.72
29	Extra for levelling & neatly dressing of disposed soil completely as directed by Engineer-in-charge.	Cum	93.05	79.08
30	Supply and stacking of Fly ash conforming to IRC- 58 at site, including carriage, loading , unloading & stacking up to any lead (measured stacks will be reduced by 20% for payment).	Cum	281.05	238.86
	4.0 CONCRETE WORK			0.00
	CEMENT CONCRETE (CAST - IN- SITU)			0.00
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :			0.00
31	1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)	Cum	8340.85	7088.89
32	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	7878.50	6695.94
33	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	Cum	7780.30	6612.48
34	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Cum	7294.70	6199.77
35	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	Cum	6812.00	5789.52
36	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	Cum	6518.60	5540.16
	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.			0.00
37	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	8340.85	7088.89
	CEMENT CONCRETE (PRE - CAST)			
	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 complete.			
38	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20mm nominal size derived from natural sources)	Cum	10105.10	8588.32

39	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. 1:1½:3 (1 Cement: 1½ coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	8726.85	7416.95
	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 :			
40	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	17889.25	15204.07
	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.			
41	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources) .	Cum	14624.20	12429.11
	DAMP- PROOF COURSE			
42	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5 mm nominal size derived from natural sources).	Sqm	410.85	349.18
43	Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources).	Sqm	495.75	421.34
44	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per bag of 50kg cement used	18.15	15.43
45	Providing & Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square Metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	146.15	124.21
	MISCELLANEOUS			
46	Extra for concrete work in superstructure above floor V level for each four floors or part thereof by mechanical means.	Cum	169.45	144.02
47	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.	Cum per meter depth	1098.80	933.87
48	Extra for laying concrete in or under foul positions.	Cum	467.55	397.37
49	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone - III) : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	749.30	636.83

	5.0 REINFORCED CEMENT CONCRETE			
	CAST-IN-SITU			
	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :			
50	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	9045.75	7687.98
51	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	8583.40	7295.03
	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :			
52	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	10852.95	9223.92
53	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	11505.50	9778.52
54	Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	8821.65	7497.52
55	Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	12205.85	10373.75
56	Reinforced cement concrete work in chimneys, shafts, up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	11125.20	9455.31
57	Reinforced cement concrete work in well-steining, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	8424.60	7160.07

58	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1½:3 (1 cement : 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	11454.35	9735.05
	FORM WORK			
	Centering and shuttering including strutting, propping etc. and removal of form for :			
59	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	392.15	333.29
60	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	842.50	716.04
61	Suspended floors, roofs, landings, balconies and access platform	Sqm	927.25	788.07
62	Shelves (Cast in situ)	Sqm	927.25	788.07
63	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	736.40	625.87
64	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	961.30	817.01
65	Stairs, (excluding landings) except spiral-staircases	Sqm	764.95	650.13
66	Spiral staircases (including landing)	Sqm	798.35	678.52
67	Arches, domes, vaults up to 6 m span	Sqm	2154.35	1830.98
68	Extra for arches, domes, vaults exceeding 6 m span	Sqm	608.15	516.87
69	Chimneys and shafts	Sqm	803.25	682.68
70	Well steining	Sqm	263.65	224.08
71	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards	Sqm	1296.70	1102.07
72	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	Sqm	392.15	333.29
73	Edges of slabs and breaks in floors and walls Under 20 cm wide.	Metre	208.55	177.25
74	Weather shade, Chajjas, corbels etc., including edges	Sqm	951.10	808.34
75	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12 mm thick	Sqm	1028.40	874.04
76	Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick	Sqm	841.95	715.57
77	Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of Engineer-in-charge. 12 mm dia. & 150 mm length.	each set	170.25	144.70
78	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering 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). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	Sqm	384.30	326.62

	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 6 mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, 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.			
79	50 mm thick	Sqm	1886.90	1603.68
80	40 mm thick	Sqm	1706.55	1450.40
81	25 mm thick	Sqm	1539.00	1308.00
	ENCASING ROLLED STEEL SECTION			0.00
82	Encasing rolled steel sections, in beams and columns, 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 complete but, excluding cost of reinforcement.	Cum	16089.40	13674.38
83	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	9663.25	8212.80
84	Extra for providing and fixing expanded metal mesh of size 20x60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg per Sqm for encasing of rolled steel sections in beams, columns and grillages, excluding cost of hangers.	Sqm	485.05	412.24
	STEEL REINFORCEMENT			
	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.			
85	Mild steel and Medium Tensile steel bars	Kg	107.10	91.02
86	Hard drawn steel wire	Kg	95.80	81.42
87	Cold twisted bars	Kg	107.85	91.66
88	Hot rolled deformed bars	Kg	107.85	91.66
89	Hard drawn steel wire fabric	Kg	102.20	86.86
90	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	107.85	91.66
	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.			
91	Mild steel and Medium Tensile steel bars	Kg	107.10	91.02
92	Hard drawn steel wire	Kg	95.80	81.42
93	Cold twisted bars	Kg	107.85	91.66
94	Hot rolled deformed bars	Kg	107.85	91.66
95	Hard drawn steel wire fabric	Kg	102.20	86.86
96	Thermo-Mechanically Treated bars	Kg	107.85	91.66
	DESIGN MIX CONCRETE			
	Providing and laying in position ready mixed or site batched			

	design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland / Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.			
97	All works upto plinth level			
98	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	9504.75	8078.09
99	All works above plinth level upto floor V level			
100	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	9860.40	8380.35
101	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	Cum	355.65	302.27
	Supplying and applying pre tested and approved water based curing compound to concrete/ masonry surface, all as per manufacturer's specification and direction of Engineer-in-charge.			
102	Non pigmented wet curing compound	Sqm	69.05	58.69
	6.0 BRICK WORK			
	Brick work using common burnt clay building brick having crushing strength not less than 35kg / sq.cm. in foundation & plinth in cement mortar1:5 (1 cement :5 fine sand).			
	PWD SOR 2023-24.			
103	Modular	Cum	5127.12	4357.54
104	Conventional	Cum	4733.76	4023.22
105	Fly Ash Brick	Cum	5700.82	4845.13
	Brick work using common burnt clay building brick having crushing strength not less than 35kg / sq.cm. in foundation & plinth in cement mortar1:6 (1 cement :6 fine sand).			
	PWD SOR 2023-24.			
106	Modular	Cum	5005.21	4253.93
107	Conventional	Cum	4697.83	3992.69
108	Fly Ash Brick	Cum	5576.21	4739.22
	Brick work using common burnt clay building brick having crushing strength not less than 35kg / sq.cm. in foundation & plinth in cement mortar1:8 (1 cement :8 fine sand).			
	PWD SOR 2023-24.			
109	Modular	Cum	4878.75	4146.45
110	Conventional	Cum	4553.30	3869.85
111	Fly Ash Brick	Cum	5465.23	4644.90
	Extra for brick work in super structure above plinth level up to floor two level.			

	PWD SOR 2023-24.			
112	Modular	Cum	299.84	254.83
113	Conventional	Cum	313.47	266.42
114	Fly Ash Brick	Cum	313.47	266.42
	Extra for brick work in super structure above floor two level.			
	PWD SOR 2023-24.			
115	Modular	per floor per Cum	50.34	42.78
116	Conventional	per floor per Cum	47.31	40.21
117	Fly Ash Brick	per floor per Cum	58.13	49.40
	Half brick masonry in common burnt clay building brick having crushing strength not less than 35kg / sq.cm. in foundation & plinth in cement mortar 1:4 (1 cement : 4 coarse sand).			
	PWD SOR 2023-24.			
118	Modular	Sqm	689.92	586.36
119	Conventional	Sqm	700.80	595.61
120	Fly Ash Brick	Sqm	788.54	670.18
	Half brick masonry in common burnt clay building brick having crushing strength not less than 35kg / sq.cm. in foundation & plinth in cement mortar 1:5 (1 cement : 5 coarse sand).			
	PWD SOR 2023-24.			
121	Modular	Sqm	678.96	577.05
122	Conventional	Sqm	688.52	585.17
123	Fly Ash Brick	Sqm	772.96	656.94
	Extra for half brick masonry in super structure above plinth level up to floor two level.			
	PWD SOR 2023-24.			
124	Modular	Sqm	55.29	46.99
125	Conventional	Sqm	60.56	51.47
126	Fly Ash Brick	Sqm	60.56	51.47
	Extra for half brick masonry in super structure above floor two level.			
	PWD SOR 2023-24.			
127	Modular	Sqm	6.90	5.86
128	Conventional	Sqm	7.01	5.96
129	Fly Ash Brick	Sqm	8.30	7.05
	Half brick thick honey - comb brick work with common burnt clay building brick having crushing strength not less than 35kg / sq.cm.			

	PWD SOR 2023-24.			
130	In cement mortar 1:4 (1 cement : 4 coarse sand).	Sqm	359.35	305.41
131	In cement mortar 1:5 (1 cement : 5 coarse sand).	Sqm	352.09	299.24
132	Fly Ash Brick.	Sqm	408.87	347.50
	7.0 STONE WORK			
133	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	7311.25	6213.83
134	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like. Cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	9275.45	7883.20
135	Extra for random rubble masonry with hard stone in : Square or rectangular pillars.	Cum	956.00	812.50
136	Extra for random rubble masonry with hard stone in : Circular pillars.	Cum	2530.60	2150.76
137	Coursed rubble masonry (first sort) with hard stone in foundation and plinth with : in cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	8812.05	7489.36
138	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with : in cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	8198.55	6967.95
139	Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level. Masonry work (first sort), in cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	10741.60	9129.29
140	Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level. Masonry work (second sort), in cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	10128.10	8607.87
141	Extra for coursed rubble masonry with hard stone (first or second sort) in : Square or rectangular pillars.	Cum	1060.50	901.32
142	Extra for coursed rubble masonry with hard stone (first or second sort) in : Circular pillars.	Cum	2874.20	2442.78
	8.0 MARBLE & GRANITE WORK			
	Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately). Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.			
143	Area of slab upto 0.50 Sqm	Sqm	5742.55	4880.59
144	Area of slab over 0.50 Sqm	Sqm	5938.00	5046.71

	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.			
145	Area of slab upto 0.50 Sqm	Sqm	3414.80	2902.24
146	Area of slab over 0.50 Sqm	Sqm	3078.40	2616.33
	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite stone slab of colour black, Cherry/Ruby red.			
147	Area of slab upto 0.50 Sqm	Sqm	5413.50	4600.93
148	Area of slab over 0.50 Sqm	Sqm	5136.30	4365.34
	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.			
149	Marble work	Metre	298.60	253.78
150	Granite work	Metre	510.95	434.26
151	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	Metre	568.55	483.21
152	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	978.70	831.80
153	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	Sqm	506.70	430.64
154	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 : Decorative veneer facings of approved manufacture.	Sqm	1946.25	1654.12
155	Providing and fixing 4mm thick coir veneer board, ISI marked IS : 14842, plain lining with necessary screws, priming coat on unexposed surface etc., complete.	Sqm	1825.05	1551.11

156	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades 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	1267.95	1077.63
	9.0 WOOD AND P. V. C. WORK			
	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).			
157	Second class teak wood	Cum	142949.70	121492.95
158	Sal wood	Cum	116520.30	99030.60
159	Kiln seasoned and chemically treated hollock wood	Cum	83378.05	70863.00
160	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	131981.10	112170.74
	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position with necessary stainless steel screws etc.			
161	Sal wood	Cum	104754.35	89030.72
162	Kiln seasoned and chemically treated hollock wood	Cum	71337.85	60630.04
	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately) Second class teak wood.			
163	35 mm thick shutters	Sqm	4111.95	3494.75
164	30 mm thick shutters	Sqm	3747.30	3184.83
	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately) Kiln seasoned and chemically treated hollock wood.			
165	35 mm thick shutters	Sqm	2869.10	2438.45
166	30 mm thick shutters	Sqm	2676.85	2275.05

	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately) Kiln seasoned selected planks of sheesham wood.			
167	35 mm thick shutters	Sqm	3638.35	3092.23
168	30 mm thick shutters	Sqm	3338.65	2837.52
	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), fixing with butt hinges of required size with necessary screws, all complete as per directions of Engineer- in-charge and panelling with panels of : (Note:- Butt hinges and necessary screws shall be paid separately)			
169	12 mm thick plain grade - 1, medium density flat pressed three layer particle board FPT - I or graded wood particle board FPTI, IS : 3087 marked, bonded with BWP type synthetic resin adhesive as per IS : 848 :	Sqm	3069.05	2608.39
170	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 FPTI, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade 1, Type - II marked :	Sqm	3212.70	2730.47
171	12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade - 1 medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade -1, Type II marked :	Sqm	3450.30	2932.41
	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			
172	Second class teak wood	Sqm	3323.20	2824.39
173	Kiln seasoned and chemically treated hollock wood	Sqm	2327.10	1977.80
174	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II IS: 12823 marked	Sqm	2081.05	1768.68
175	Pre-laminated particle board with decorative lamination on both side, Grade I, Type II , IS: 12823 marked	Sqm	2053.45	1745.23
176	Coir Veneer Board (conforming to IS 14842). 12 mm thick.	Sqm	2253.45	1915.21
177	Float glass panes 4 mm thick glass pane (weight not less than 10 kg/sqm)	Sqm	2241.80	1905.31
178	Float glass panes 5.0 mm thick glass panes (weight not less than 12.5 kg/sqm)	Sqm	2600.45	2210.12

179	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	1800.45	1530.20
	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.			
180	Second class teak wood. 35 mm thick shutters	Sqm	4940.20	4198.68
181	Second class teak wood. 30 mm thick shutters	Sqm	4523.40	3844.44
182	Kiln seasoned and chemically treated hollock wood. 35 mm thick shutters	Sqm	3524.85	2995.77
183	Kiln seasoned and chemically treated hollock wood. 30 mm thick shutters	Sqm	3305.20	2809.09
184	Kiln seasoned selected planks of sheesham wood. 35 mm thick shutters	Sqm	4401.55	3740.88
185	Kiln seasoned selected planks of sheesham wood. 30 mm thick shutters	Sqm	4059.05	3449.79
186	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	176.40	149.92
187	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	193.55	164.50
	Providing and fixing 25 mm thick shutters for cup board etc. : Panelled or panelled & glazed shutters			
188	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws.	Sqm	4402.85	3741.98
189	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	4542.90	3861.01
	Providing and fixing 25 mm thick shutters for cup board etc. : Glazed shutters :			
190	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws.	Sqm	4193.25	3563.84
191	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.	Sqm	4241.15	3604.55
	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).			
192	12 mm thick	Sqm	802.95	682.43
193	18 mm thick	Sqm	1020.95	867.71
	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).			
194	18 mm thick	Sqm	1245.75	1058.76



195	25 mm thick	Sqm	1715.20	1457.75
	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.			
196	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	3473.85	2952.43
197	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	3167.95	2692.44
198	25 mm thick (for cup board) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws.	Sqm	2819.25	2396.08
199	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	462.35	392.95
	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :			
200	Rectangular or square	Sqm	199.15	169.26
201	Circular	Sqm	206.30	175.33
	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws : 35 mm thick shutters with ISI marked stainless steel butt hinges of required size.			
202	Second class teak wood	Sqm	5045.85	4288.47
203	Kiln seasoned and chemically treated hollock wood.	Sqm	3792.75	3223.46
204	Kiln seasoned selected class of sheesham wood.	Sqm	4568.50	3882.77
	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws : 30 mm thick shutters with ISI marked stainless steel butt hinges of required size.			
205	Second class teak wood	Sqm	4520.30	3841.80
206	Kiln seasoned and chemically treated hollock wood.	Sqm	3447.80	2930.29
207	Kiln seasoned selected class of sheesham wood.	Sqm	4111.70	3494.53
	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete : 2nd class teak wood.			
208	50x12 mm	Metre	221.10	187.91
209	50 x 20 mm	Metre	271.75	230.96
	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete :			
210	12 mm dia	Metre	285.10	242.31
211	20 mm dia	Metre	393.25	334.22
212	25 mm dia	Metre	525.55	446.66

	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :			
213	20 mm dia (heavy type)	Metre	175.00	148.73
214	25 mm dia (heavy type)	Metre	186.40	158.42
	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.			
215	Fixed to steel windows by welding	Kg	219.10	186.21
216	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	238.35	202.57
217	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	1421.95	1208.52
218	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	1641.15	1394.81
219	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. With 2nd class teak wood beading 62X19 mm.	Sqm	1308.35	1111.97
220	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. With 12 mm mild steel U beading.	Sqm	939.20	798.23
221	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	Each	228.85	194.50
	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :			
222	125x64x2.50 mm	Each	129.85	110.36
223	100x60x2.50 mm	Each	106.35	90.39
224	75x50x2.50 mm	Each	89.30	75.90
225	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	1124.85	956.01
226	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	998.35	848.50
227	Providing and fixing chromium plated brass night latch of approved quality including necessary screws etc. complete.	Each	952.80	809.78
	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.			

228	Size 40 mm	Each	319.75	271.76
229	Size 50 mm	Each	333.95	283.82
230	Size 65 mm	Each	372.40	316.50
231	Size 75 mm	Each	409.35	347.91
	Providing and fixing chromium plated brass handles with necessary screws etc. complete:			
232	125 mm	Each	231.05	196.37
233	100 mm	Each	206.25	175.29
234	75 mm	Each	176.40	149.92
235	Providing and fixing chromium plated brass casement window fastener with necessary screws etc. complete.	Each	155.45	132.12
	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 :			
236	300x16 mm	Each	303.25	257.73
237	250x16 mm	Each	260.60	221.48
	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 :			
238	300x10 mm	Each	130.10	110.57
239	250x10 mm	Each	115.15	97.87
240	200x10 mm	Each	99.70	84.74
241	150x10 mm	Each	82.55	70.16
242	100x10 mm	Each	64.70	54.99
	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 :			
243	125 mm	Each	66.25	56.31
244	100 mm	Each	59.55	50.61
245	75 mm	Each	51.75	43.98
	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.			
246	Single rubber stopper	Each	39.60	33.66
247	Twin rubber stopper	Each	72.35	61.49
	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), 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 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineerin- charge.			

248	Extruded section profile size 48x40 mm	Metre	270.20	229.64
249	Extruded section profile size 42x50 mm	Metre	331.35	281.61
250	Providing and fixing to existing door frames. 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and 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 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-in-charge. (For W.C. and bathroom door shutter).	Sqm	2969.25	2523.57
251	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	1293.05	1098.96
	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.			
252	With 2nd class teak wood beading 62X19 mm	Sqm	1597.15	1357.42
253	With 12 mm mild steel U beading	Sqm	1228.00	1043.68
254	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 @ 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 bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.	Kg	166.80	141.76
10.0 STEEL WORK				
255	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	117.35	99.74
256	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	133.70	113.63

257	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	11439.60	9722.52
258	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 junctions and corners, 25 mm dia pulley, 40x40x6 mm angle and T-iron guide at the top and bottom respectively, including applying a priming coat of approved steel primer.	Sqm	6566.20	5580.61
	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.			
259	Using M.S. angels 40x40x6 mm for diagonal braces	Sqm	5804.35	4933.12
260	Using flats 30x6mm for diagonal braces and central cross piece	Sqm	5563.75	4728.63
	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.			
261	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	3653.20	3104.85
262	80x1.20 mm M.S. laths with 1.20 mm thick top cover	Sqm	3307.05	2810.66
263	80x0.90 mm M.S. laths with 0.90 mm thick top cover	Sqm	3191.35	2712.33
264	Providing and fixing ball bearing for rolling shutters.	Each	492.35	418.45
	Extra for providing mechanical device chain and crank operation for operating rolling shutters.			
265	Exceeding 10.00 sqm and upto 16.80 sqm in the area	Sqm	1281.35	1089.02
266	Exceeding 16.80 sqm in area	Sqm	1181.80	1004.41
267	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	768.25	652.94
	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.			
268	Hot finished welded type tubes	Kg	194.40	165.22
269	Hot finished seamless type tubes	Kg	206.35	175.38
270	Electric resistance or induction butt welded tubes	Kg	194.40	165.22
271	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	97.20	82.61

272	Providing and fixing bolts including nuts and washers complete.	Kg	159.35	135.43
273	Providing and fixing M.S. rivets of sizes in position.	Kg	278.30	236.53
274	Welding by gas or electric plant including transportation of plant at site etc. complete.	Cm	3.70	3.14
	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.			
275	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete.	Kg	123.60	105.05
276	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	172.60	146.69
	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.			
277	M.S. tube	Kg	196.80	167.26
278	E.R.W. tubes	Kg	205.75	174.87
279	G.I. pipes	Kg	203.05	172.57
280	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	772.40	656.46
	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.			
281	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	Sqm	844.70	717.91
282	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	Sqm	1133.55	963.40
	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :			
283	4.0 mm thick glass panes (weights not less than 10 kg/ sqm)	Sqm	1064.65	904.85
284	5.5 mm thick glass panes (weights not less than 12.50 kg/ sqm)	Sqm	1390.15	1181.49
	11.0 FLOORING			
285	Providing and laying brick on edge flooring laid dry grouted with CM 1:6 including finishing the joints curing etc complete.	Sqm	651.19	553.45
286	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate.	Sqm	614.20	522.01

287	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	978.45	831.58
288	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	1056.15	897.62
289	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete.	Cum	8595.15	7305.02
290	Providing and fixing glass strips in joints of terrazo/ cement concrete floors. 40 mm wide and 4 mm thick.	Metre	91.75	77.98
	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).			
291	Light shade pigment using white cement	Sqm	1402.00	1191.56
292	Medium shade pigment using 50% white cement 50% Grey cement.	Sqm	1328.35	1128.96
293	Dark shade pigment using ordinary cement	Sqm	1119.50	951.46
294	Ordinary cement without any pigment	Sqm	1056.35	897.79
295	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. In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand). Acid and alkali resistant tile.	Sqm	1738.15	1477.25
296	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. In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand). Acid and alkali resistant tile.	Sqm	1884.90	1601.98
297	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick.	Sqm	1948.25	1655.82

298	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	Sqm	1096.55	931.96
299	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	Sqm	1315.30	1117.87
300	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.	Sqm	1330.00	1130.37
301	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	Sqm	1439.40	1223.35
VITRIFIED FLOOR TILES				
	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.			
302	Size of Tile 500x500 mm	Sqm	1524.30	1295.50
303	Size of Tile 600x600 mm	Sqm	1553.45	1320.28
304	Size of Tile 800x800 mm	Sqm	1885.50	1602.49
305	Size of Tile 1000x1000 mm	Sqm	2089.65	1775.99
306	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.	Sqm	850.10	722.50
307	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	Sqm	753.25	640.19
308	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. Size of Tile 600x600 mm	Sqm	309.05	262.66

TENDER NO.AC12C24018

309	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	Sqm	13.30	11.30
310	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) Providing 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 100mm x 100mm x 3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.			
	(b) Stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.			
	(c) 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 be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the			

	direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.			
311	300 mm Finished Floor Height (FFH)	Sqm	5623.95	4779.80
312	450 mm Finished Floor Height (FFH).	sqm	5977.35	5080.15
	12.0 ROOFING			
	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.			
313	1.00 mm thick with zinc coating not less than 275 gm/m ²	Sqm	1457.15	1238.43
314	0.80 mm thick with zinc coating not less than 275 gm/m ²	Sqm	1257.55	1068.79
315	0.63 mm thick with zinc coating not less than 275 gm/m ²	Sqm	1087.65	924.39
	Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimeter for chimney stacks, sky light etc. :			
316	1.00 mm thick	Metre	116.15	98.72
317	0.80 mm thick	Metre	92.95	79.00
318	0.63 mm thick	Metre	92.95	79.00
	Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimeter.			
319	1.00 mm thick	Metre	671.45	570.67
320	0.80 mm thick	Metre	536.30	455.80
321	0.63 mm thick	Metre	536.30	455.80
	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.			
322	0.80 mm thick with zinc coating not less than 275 gm/m ²	Metre	1083.30	920.70
323	0.63 mm thick with zinc coating not less than 275 gm/m ²	Metre	980.50	833.33
324	Providing valleys of 90 cm wide overall in plain G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete : 1.60 mm thick with zinc coating not less than 350 gm/m ² .	Metre	1863.90	1584.13
325	Providing and fixing of 40 cm overall width plain G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed in wall with cement mortar 1:3 (1cement : 3 coarse sand). 1.00 mm thick with zinc coating not less than 275 gm/m ² .	Metre	857.55	728.83
	Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete.			

326	0.80 mm thick with zinc coating not less than 275 gm/m ²	Metre	1029.65	875.10
327	0.63 mm thick with zinc coating not less than 275 gm/m ²	Metre	944.05	802.35
328	Providing reinforced by organic fibres and/or inorganic synthetic fibres cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required..	Sqm	536.40	455.89
329	Extra for straight cutting in non- asbestos polypropylene reinforced cement corrugated, semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter for chimney stacks, skylights etc.	Metre	92.95	79.00
330	Extra for circular cutting in reinforced by organic fibres and/or inorganic synthetic fibres cement corrugated/ semi corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter.	Metre	256.70	218.17
331	Extra for providing and fixing wind ties of 40x 6 mm flat iron section.	Metre	195.60	166.24
	Providing and fixing ridges and hips in fibre cement reinforced by organic fibres and/or inorganic synthetic fibres roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.			
332	Corrugated serrated adjustable ridges	Metre	522.95	444.46
333	Plain wing adjustable ridges	Metre	522.95	444.46
334	Close fitting adjustable ridges	Metre	585.70	497.79
335	Unserrated adjustable hips	Metre	521.85	443.52
	Providing and fixing fibre cement reinforced by organic fibres and/or inorganic synthetic fibres roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete:			
336	Corrugated apron pieces	Metre	428.50	364.18
337	Eave's filler pieces	Metre	345.05	293.26
338	North light curves	Metre	567.20	482.06
339	Ventilator curves	Metre	627.30	533.14
340	Barge boards	Metre	724.65	615.88
341	Ridge finials	Pair	303.70	258.11
342	Special north light curves	Each	1013.85	861.67
343	S type louvers	Metre	560.05	475.99
344	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase.	Metre	305.15	259.35
	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately) :			
345	Natural colour insulating board. 12 mm thick.	Sqm	924.35	785.61
346	White face insulating board. 12 mm thick.	Sqm	966.60	821.51

347	Flame retardant face insulating board. 12 mm thick.	Sqm	1121.55	953.21
348	Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS: 3087 marked, in ceiling with necessary nails etc. complete (frame work to be paid separately) : 12 mm thick.	Sqm	1070.60	909.90
	Providing and fixing plain Multipurpose Cement board (High Pressure steam cured) with suitable screws for cement particle board in ceiling etc. complete (frame work to be paid separately)			
349	6 mm thick cement fiber board as per IS: 14862	Sqm	921.95	783.57
	Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately) :			
350	Flat surfaces	Sqm	1718.95	1460.94
351	Curved surfaces	Sqm	2067.45	1757.13
352	Extra for sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.	Sqm	607.45	516.27
	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (I) Single socketed pipes.			
353	75 mm diameter	Metre	248.80	211.46
354	110 mm diameter	Metre	377.40	320.75
	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.			
	Coupler			
355	75 mm	Each	91.70	77.94
356	110 mm	Each	136.15	115.71
	Single tee with door			
357	75x75x75 mm	Each	164.20	139.55
358	110x110x110 mm	Each	234.15	199.00
	Single tee without door			
359	75x75x75 mm	Each	144.30	122.64
360	110x110x110 mm	Each	221.35	188.13
	Bend 87.5°			
361	75 mm bend	Each	105.90	90.00
362	110 mm bend	Each	150.35	127.78
	Shoe (Plain)			
363	75 mm Shoe	Each	93.10	79.13
364	110 mm Shoe	Each	131.85	112.06

	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.			
365	75 mm	Each	369.85	314.34
366	110 mm	Each	371.30	315.57
367	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	54.70	46.49
	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :			
368	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks)	Sqm	1355.80	1152.29
369	12.5 mm thick tapered edge Glass Reinforced Gypsum (GRG) board conforming to IS: 2095- (Part 3):1996 (Boards with BIS certification marks)	Sqm	1520.10	1291.93
370	12.5 mm thick tapered edge gypsum moisture resistant board	Sqm	1529.10	1299.58

	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.			
371	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	1902.95	1617.32
372	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	2068.75	1758.23
373	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	2215.15	1882.66

374	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	1528.00	1298.65
375	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.	Sqm	738.65	627.78
	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 Engineerin- 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.			
	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 :			
376	Ridges plain (500- 600mm)	Metre	532.35	452.44
377	Flashings/ Aprons.(Upto 600 mm)	Metre	485.60	412.71
378	North light curves	Metre	546.10	464.13
379	Barge board (Upto 300 mm)	Metre	451.50	383.73
380	Crimp curve	Metre	496.75	422.19
381	Gutter. (600 mm over all girth)	Metre	1313.70	1116.51
	13.0 FINISHING			
382	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand).	Sqm	347.05	294.96
383	12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand).	Sqm	333.35	283.31
384	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand).	Sqm	399.45	339.49
385	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand).	Sqm	383.00	325.51
386	20 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand).	Sqm	471.35	400.60
387	20 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand).	Sqm	450.00	382.46
388	12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand).	Sqm	357.35	303.71
389	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand).	Sqm	343.65	292.07

390	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 coarse sand).	Sqm	411.75	349.95
391	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand).	Sqm	395.35	336.01
392	20 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand).	Sqm	487.40	414.24
393	20 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand).	Sqm	466.05	396.10
394	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	Sqm	439.25	373.32
395	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	Sqm	425.55	361.67
396	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	Sqm	494.30	420.11
397	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	Sqm	477.90	406.17
398	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	Sqm	449.55	382.07
399	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 20 mm cement plaster	Sqm	587.20	499.06
400	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	Sqm	518.55	440.72
401	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	Sqm	537.45	456.78
402	12 mm cement plaster 1:2 (1 cement : 2 stone dust).	Sqm	378.70	321.86
403	15 mm cement plaster 1:2 (1 cement : 2 stone dust) on the rough side of single or half brick wall.	Sqm	437.20	371.58
404	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand).	Sqm	300.45	255.35
405	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	Sqm	396.65	337.11
406	Neat cement punning.	Sqm	79.95	67.95
407	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) : Flush / Ruled/ Struck or weathered pointing.	Sqm	257.35	218.72
408	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) : Raised and cut pointing.	Sqm	419.90	356.87
	INTERIOR FINISHING			
409	White washing with lime to give an even shade : New work (three or more coats).	Sqm	39.05	33.19
410	Colour washing such as green, blue or buff to give an even shade : New work (two or more coats) with a base coat of white washing with lime.	Sqm	53.30	45.30

411	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.	Sqm	185.65	157.78
412	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	Sqm	64.45	54.78
413	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm).	Sqm	116.90	99.35
414	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm.	Sqm	223.60	190.04
415	Finishing walls with Acrylic Smooth exterior paint of required shade : 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	160.60	136.49
416	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade : New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	Sqm	171.10	145.42
	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :			
417	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	193.70	164.63
418	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	176.25	149.79
419	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	170.70	145.08
	Applying priming coat :			
420	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood).	Sqm	61.45	52.23
421	With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood.	Sqm	74.65	63.45
422	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works.	Sqm	67.40	57.28
423	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat).	Sqm	36.10	30.68
	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.			
424	On steel work	Sqm	241.75	205.46
425	On concrete work	Sqm	235.15	199.85

426	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution.	Sqm	180.85	153.70
	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 of ready mixed zinc chromate yellow primer on new work :			
427	100 mm diameter pipes	Metre	76.35	64.89
428	150 mm diameter pipes	Metre	113.80	96.72
429	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.	Sqm	334.50	284.29
430	Wall painting with plastic emulsion paint of Asian paint Royal shine luxury emulsion to give an even shade :Two or more coats on new work after application of suitable primer	Sqm	137.85	117.16
431	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work.	Sqm	155.90	132.50
432	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	Sqm	226.25	192.29
433	Painting with aluminium paint of approved brand and manufacture to give an even shade . Two or more coats on new work.	Sqm	146.80	124.77
434	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work.	Sqm	163.35	138.83
435	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : Two or more coats on new work.	Sqm	140.25	119.20
	Varnishing with varnish of approved brand and manufacture :			
436	Two or more coats of glue sizing with copal varnish over an under coat of flatting varnish.	Sqm	233.80	198.71
437	Two or more coats glue sizing with spar varnish or an under coat of flatting varnish.	Sqm	236.90	201.34
438	French spirit polishing : Two or more coats on new works including a coat of wood filler.	Sqm	446.25	379.27
439	Polishing on wood work with ready mixed wax polish of approved brand and manufacture : New work.	Sqm	197.65	167.98
440	Floor polishing on masonry or concrete floors with wax polish of approved brand and manufacture.	Sqm	96.10	81.68
441	Lettering with black Japan paint of approved brand and manufacture	Per letter per cm height	6.15	5.23

	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :			
442	15 mm wide and 15 mm deep groove	Metre	75.15	63.87
443	20 mm wide and 15 mm deep groove	Metre	75.80	64.42
	14.0 REPAIRS TO BUILDING			0.00
444	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead : With cement mortar 1:4 (1 cement : 4 fine sand).	Sqm	547.40	465.24
	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 within 50 meters lead :			
445	Door chowkhats.	Each	1782.55	1514.99
446	Window chowkhats.	Each	1125.15	956.26
447	Clerestory window chowkhats.	Each	851.00	723.26
448	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	217.10	184.51
449	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. For door/ window/ clerestory window.	Sqm	1264.35	1074.57
450	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	1090.65	926.94
451	Renewing glass panes, with wooden fillets wherever necessary : Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	1580.90	1343.61
452	Renewing glass panes and refixing existing wooden fillets : Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	1227.30	1043.08
453	Supplying and fixing new wooden fillets wherever necessary : 2nd class teak wood fillets.	Metre	77.70	66.04
454	Renewal of old putty of glass panes (length).	Metre	56.15	47.72
455	Refixing old glass panes with putty and nails.	Sqm	729.85	620.30

456	Fixing old glass panes with wooden fillets (excluding cost of fillets).	Sqm	679.60	577.59
457	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 within 50 metres lead.	Sqm	72.45	61.58
458	Taking out wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking.	Kg	5.40	4.59
459	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	Kilo litre	231.05	196.37
460	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	120.75	102.63
	Providing and fixing bright finished brass hard drawn hooks and eyes :			
461	300 mm	Each	101.85	86.56
462	250 mm	Each	97.70	83.04
463	200 mm	Each	87.75	74.58
464	150 mm	Each	70.55	59.96
465	100 mm	Each	61.85	52.57
466	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	156.05	132.63
467	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	262.70	223.27
468	White washing with lime to give an even shade : Old work (two or more coats).	Sqm	22.85	19.42
469	White washing with lime to give an even shade : Old work (one or more coats).	Sqm	13.90	11.81
470	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	19.75	16.79
471	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	25.15	21.37
472	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : One or more coats on old work.	Sqm	90.85	77.21
473	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work.	Sqm	102.80	87.37
474	Painting with aluminium paint of approved brand and manufacture to give an even shade : One or more coats on old work.	Sqm	96.00	81.59
475	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work.	Sqm	107.25	91.15
476	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : One or more coats on old work.	Sqm	93.70	79.64
477	French spirit polishing : One or more coats on old work.	Sqm	224.80	191.06

478	Polishing on wood work with ready made wax polish of approved brand and manufacture :Old work.	Sqm	99.80	84.82
479	Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade.	Sqm	95.80	81.42
480	Distempering with 1st quality acrylic distemper (ready made) having VOC content less than 50 gm per ltr. of approved manufacturer and of required shade and colour complete. as per manufacturer's specification: One or more coats on old work.	Sqm	50.60	43.00
	Finishing walls with water proofing cement paint of required shade :			
481	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 ltrs/10 sqm complete including cost of Priming coat.	Sqm	112.90	95.95
482	Old work (one or more coats @ 2.20 kg/10 sqm) complete.	Sqm	75.80	64.42
	Finishing walls with textured exterior paint of required shade :			
483	Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	Sqm	169.20	143.80
484	Old work (One or more coats) applied @ 1.82 ltr/10 sqm.	Sqm	109.10	92.72
	Finishing walls with Acrylic Smooth exterior paint of required shade :			
485	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	Sqm	120.75	102.63
486	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	Sqm	80.65	68.54
	Varnishing with varnish of approved brand and manufacture:			
487	One or more coats with copal varnish	Sqm	94.60	80.40
488	One or more coats with spar varnish	Sqm	95.05	80.78
489	Melamine polishing on wood work (one or more coat).	Sqm	1192.30	1013.34
490	Providing and fixing bright finished brass casement window fasteners or peg stays to windows/ ventilators with necessary welding and machine screws etc. complete.	Kg	557.20	473.56
491	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	0.50	0.42
492	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	108.30	92.04

493	Cleaning of choked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm	Metre	340.75	289.60
494	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	Sqm	422.70	359.25
495	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	433.75	368.64
	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.			
496	Long pattern W.C Pan of size 580x440 mm	Each	3501.70	2976.09
497	Orissa pattern W.C Pan of size 580x440 mm	Each	4478.75	3806.49
498	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	288.10	244.86
499	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	134.10	113.97
500	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	3.25	2.76
501	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	429.10	364.69

502	Providing round the clock security guard without gun for watch & ward of Government premises and its all belongings by deploying neatly dressed security guards in 8 hour's shift including necessary T&P like torch, lathi and uniform etc.complete,as per the direction of Engineer-in-charge.(One job means 8 hour's duty).	Each Job	1308.40	1112.01
15.0 DISMANTLING AND DEMOLISHING				
503	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineerin- charge.	Cum	851.50	723.69
	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.			
504	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	Cum	2434.25	2068.87
505	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	Cum	1503.60	1277.91
506	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cum	3551.25	3018.21
507	Demolishing R.B. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in- charge.	Cum	3177.25	2700.34
508	Extra for cutting reinforcement bars manually/ by mechanical means 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) as per direction of Engineer - in -charge.	Sqm	1147.20	975.01
509	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work.	Kg	9.05	7.69
510	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar.	Cum	2060.20	1750.96
511	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured) : From brick work in cement mortar	1000 Nos	6700.80	5695.01
512	Demolishing stope rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge : In cement mortar	Cum	2458.95	2089.86
	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :			
513	Of area 3 sq. metres and below	Each	367.20	312.08
514	Of area beyond 3 sq. metres	Each	502.75	427.29
	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :			
515	Of area 3 sq. metres and below	Each	143.50	121.96
516	Of area beyond 3 sq. metres	Each	188.90	160.55

	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:			
517	R.S. Joists	Kg	3.40	2.89
518	Channels, angles, tees and flats	Kg	2.30	1.95
519	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	Kg	5.65	4.80
520	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	Kg	3.85	3.27
521	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres.	Kg per metre span	0.85	0.72
522	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres.	Kg per metre height	0.85	0.72
523	Extra for marking of structural steel work required to be re-erected.	Kg	4.65	3.95
	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.			
524	For thickness of tiles 10 mm to 25 mm	Sqm	73.40	62.38
525	For thickness of tiles above 25 mm and up to 40 mm	Sqm	113.35	96.34
526	Demolishing dry brick pitching in floors, drains etc. including stacking serviceable material and disposal of unserviceable material within 50 metres lead :	Cum	1317.65	1119.87
527	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	266.45	226.46
	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of :			
528	G.S. Sheet	Sqm	164.95	140.19
529	Asbestos Cement sheet	Sqm	77.30	65.70
530	Dismantling wooden ballies in posts and struts including stacking within 50 metres lead.	Metre	20.95	17.81
	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of :			
531	T' or 'L' iron or pipe	Each	230.90	196.24
532	R.C.C.	Each	243.30	206.78
533	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	Kg	36.80	31.28
534	Dismantling expanded metal or I.R.C. fabrics with necessary battens and beading including stacking the serviceable material within 50 metres lead.	Sqm	75.80	64.42
	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead :			
535	Thickness up to 40 mm	Sqm	289.30	245.88
536	Thickness above 40 mm up to 75 mm	Sqm	433.55	368.47

537	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	Sqm	56.35	47.89
	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :			
538	75 to 80 mm dia pipe	Metre	75.70	64.34
539	100 mm dia pipe	Metre	78.00	66.29
540	150 mm dia pipe	Metre	80.25	68.20
	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :			
541	Water bound macadam road	Sqm	217.45	184.81
542	bituminous road	Sqm	428.50	364.18
	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :			
543	15 mm to 40 mm nominal bore	Metre	149.80	127.32
544	Above 40 mm nominal bore	Metre	161.40	137.17
	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:			
545	Up to 150 mm diameter	Metre	332.40	282.51
546	Above 150 mm dia up to 300 mm dia	Metre	456.65	388.11
547	Above 300 mm diameter	Metre	614.30	522.09
548	Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	Each	697.40	592.72
549	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap.	Each	958.75	814.84
550	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	Each	112.05	95.23
	Dismantling of C.I. sluice valve including stacking of useful materials within a lead of 50 metres.			
551	Up to 150 mm diameter	Each	319.50	271.54
552	Above 150 mm diameter	Each	1184.15	1006.41
553	Dismantling of spindle fire hydrant including stacking of useful materials within 50 metres lead.	Each	726.35	617.32

554	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	54.65	46.45
555	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	Sqm	56.35	47.89
556	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	263.95	224.33
16.0 ROAD WORK				
557	Earth work for embankment including breaking clods, dressing with all lead and lift excluding watering and consolidation.			
558	From borrow pits within land width	Cum	121.74	103.47
559	From borrow pits within 0.50 KM lead	Cum	172.33	146.46
560	From borrow pits within 1.00 KM lead	Cum	175.70	149.33
561	From borrow pits within 2.00 KM lead	Cum	182.13	154.79
562	From borrow pits within 3.00 KM lead	Cum	188.35	160.08
563	Rolling of earth work in layers with power roller including filling in depression which occur during the process of rolling.	Cum	15.66	13.31
564	Watering of earth work as directed.	Cum	10.61	9.02
565	Box cutting the road surface to proper slope and camber for making a base of road work including removing the excavated stuff and depositing on the road side slope as directed up to 50 M lead.	Cum	121.74	103.47
566	Rolling and consolidation using vibratory road roller 8-10 tonne capacity including watering.			
567	(A) Earth work (layer not exceeding 200mm thickness.)	Cum	38.66	32.86
568	(B) Granular sub base (layer not exceeding 150mm thickness.)	Cum	36.82	31.29
569	(C) Water Bound Macadam (layer not exceeding 100mm thickness.)	Cum	69.03	58.67
570	(D) Bituminious Macadam (layer not exceeding 50mm thickness with 3 stage rolling.)	MT	23.95	20.36
571	Spreading of stone aggregates for soling and WBM including filling the inter stices forming the surface to required camber and gradient.			
572	(II) 40mm to 63mm size aggregate (HB).	Cum	291.79	247.99
573	(III) 25mm to 50mm size crushed stone.	Cum	291.79	247.99
574	(IV) Chipping varying from 6mm to 25mm size.	Cum	291.79	247.99
575	Spreading of blindage or road crust filling the gaps in metal and levelling to camber and gradient.			
576	(I) Murrum	Cum	172.29	146.43
577	(II) Sand	Cum	172.29	146.43

578	Supplying and fixing reinforced concrete heavy duty non-pressure pipes with collars for culverts including setting and jointing the pipes in CM 1:2 watering and laying (to level of slopes) of I.S. class NP3 of following internal diameters.			
579	(I) 300mm Dia	Metre	759.32	645.35
580	(II) 450mm Dia	Metre	1374.51	1168.20
581	(III) 600mm Dia	Metre	2280.55	1938.24
582	(IV) 750mm Dia	Metre	3021.00	2567.55
583	(V) 900mm Dia	Metre	4026.61	3422.22
584	(VI) 1050mm Dia	Metre	5437.04	4620.94
585	(VII) 1200mm Dia	Metre	6461.89	5491.96
586	Scarifying metallised (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	33.30	28.30
587	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	Sqm	883.15	750.59
588	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 ribs 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. With G.I. barbed wire.	Metre	14.00	11.90
589	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. With G.I. barbed wire.	Metre	22.10	18.78
590	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	375.80	319.39

591	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	972.00	826.10
	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.			
592	Made of G.I. wire of dia 4 mm	Sqm	1017.80	865.03
593	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	1067.10	906.93
594	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	1149.25	976.75
595	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	131.75	111.97
596	Laying old cement concrete 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	402.95	342.47
17.0 SANITARY INSTALLATIONS				
597	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 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 : White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.	Each	6767.40	5751.61
598	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 : W.C. pan with ISI marked white solid plastic seat and lid.	Each	6515.55	5537.57

599	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 : W.C. pan with ISI marked black solid plastic seat and lid.	Each	6383.25	5425.12
	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 :			
600	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	Each	2226.35	1892.17
601	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap.	Each	1879.20	1597.13
602	White Vitreous China Flat back wash basin size 450x 300 mm with single 15 mm C.P. brass pillar tap.	Each	1513.60	1286.41
	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 : Kitchen sink without drain board.			
603	610x510 mm bowl depth 200 mm	Each	4940.80	4199.19
604	610x460 mm bowl depth 200 mm	Each	3873.80	3292.34
605	470x420 mm bowl depth 178 mm	Each	3407.20	2895.78
	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 :			
606	Size 450x300x150 mm	Each	5020.85	4267.22
607	Size 600x450x200 mm	Each	6585.80	5597.27
	Providing and fixing white vitreous china water closet squatting pan (Indian type) :			
608	Long pattern W.C. pan of size 580 mm	Each	1959.80	1665.63
609	Orissa pattern W.C. pan of size 580x440 mm	Each	3169.05	2693.38
610	Extra for using coloured W.C. pan instead of white W.C. pan : Orissa pattern W.C. pan 580x440 mm.	Each	426.80	362.74
611	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	Each	2784.95	2366.93
612	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	Each	349.15	296.74
	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.			
613	10 litre capacity - White	Each	1190.65	1011.93

TENDER NO.AC12C24018

614	10 litre capacity - coloured	Each	1136.60	966.00
615	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	Each	142.85	121.41
616	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	1648.95	1401.44
617	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	Each	4048.65	3440.95
	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :			
618	Flat back wash basin of size 630x450 mm	Each	1339.70	1138.61
619	Flat back wash basin of size 550x400 mm	Each	992.60	843.61
620	Angle back wash basin of size 600x480 mm	Each	1339.70	1138.61
621	Angle back wash basin of size 400x400 mm	Each	870.25	739.63
622	Flat back wash basin of size 450x300 mm	Each	627.00	532.89
623	Surgeon type wash basin of size 660x460 mm	Each	1816.30	1543.67
	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Semi rigid pipe.			
624	32 mm dia	Each	103.90	88.30
625	40 mm dia	Each	116.70	99.18
	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe.			
626	32 mm dia	Each	119.55	101.61
627	40 mm dia	Each	119.55	101.61
628	Providing and fixing 100 mm sand cast Iron grating for gully trap.	Each	53.25	45.26
629	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	1607.95	1366.60
	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 :			
630	Circular shape 450 mm dia	Each	1479.05	1257.04
631	Rectangular shape 453x357 mm	Each	1361.80	1157.39
632	Oval shape 450x350 mm (outer dimensions)	Each	1377.10	1170.40
633	Rectangular shape 1500x450 mm	Each	2093.00	1778.84
634	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	1083.50	920.87
635	Providing and fixing toilet paper holder : C.P. brass.	Each	803.70	683.06
636	Providing and fixing toilet paper holder : Vitreous china.	Each	546.35	464.34
637	Providing and fixing soil, waste and vent pipes : 100 mm dia. Sand cast iron S&S pipe as per IS: 1729 : Centrifugally cast (spun) iron socket & spigot.	Metre	1180.75	1003.52

	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.			
638	Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	Each	115.30	97.99
639	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	Each	122.40	104.03
640	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	168.35	143.08
641	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	231.95	197.13
642	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. 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	673.40	572.32
	18.0 WATER SUPPLY			
643	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	84.88	72.14
644	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	107.30	91.19
645	Providing laying and jointing in true line and level 32mm dia. U.P.V.C. pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	139.20	118.31
646	Providing laying and jointing in true line and level 40mm dia. U.P.V.C. pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	173.05	147.08

647	Providing laying and jointing in true line and level 50mm dia. U.P.V.C. pipe (SCH-40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	228.60	194.29
648	Providing laying and jointing in true line and level 160mm dia. U.P.V.C. (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be fixed on wall using of PVC clamp of the size 160mm diameter x 210 mm length x 196 mm height at every 2000mm centre to centre or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	Rmt	971.13	825.36
649	Providing laying and jointing in true line and level 110mm dia. U.P.V.C. (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be fixed on wall using of PVC clamp of the size 110mm diameter x 149 mm length x 145 mm height at every 2000mm centre to centre or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	Rmt	975.72	829.26
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall.			
650	15 mm nominal outer dia Pipes	Metre	286.80	243.75
651	20 mm nominal outer dia Pipes	Metre	335.00	284.72
652	25 mm nominal outer dia Pipes	Metre	401.55	341.28
653	32 mm nominal outer dia Pipes	Metre	518.75	440.89
654	40 mm nominal outer dia Pipes	Metre	702.95	597.44
655	50 mm nominal outer dia Pipes	Metre	934.15	793.93
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.			

656	15 mm nominal outer dia Pipes	Metre	497.80	423.08
657	20 mm nominal outer dia Pipes	Metre	537.60	456.91
658	25 mm nominal outer dia Pipes	Metre	627.25	533.10
659	32 mm nominal outer dia Pipes	Metre	739.30	628.33
	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.			
660	15 mm nominal outer dia Pipes	Metre	244.70	207.97
661	20 mm nominal outer dia Pipes	Metre	274.30	233.13
662	25 mm nominal outer dia Pipes	Metre	355.40	302.05
663	32 mm nominal outer dia Pipes	Metre	438.60	372.77
664	40 mm nominal outer dia Pipes	Metre	563.05	478.54
665	50 mm nominal outer dia Pipes	Metre	794.25	675.03
666	65 mm nominal inner dia Pipes	Metre	1674.40	1423.07
667	80 mm nominal inner dia Pipes	Metre	2166.35	1841.18
668	100 mm nominal inner dia Pipes	Metre	3271.70	2780.62
669	150 mm nominal inner dia Pipes	Metre	6822.70	5798.61
	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.			
670	15 mm dia nominal bore	Metre	366.40	311.40
671	20 mm dia nominal bore	Metre	437.30	371.66
672	25 mm dia nominal bore	Metre	551.70	468.89
673	32 mm dia nominal bore	Metre	667.00	566.88
674	40 mm dia nominal bore	Metre	811.90	690.03
675	50 mm dia nominal bore	Metre	1048.35	890.99
	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 :			
676	15 mm dia nominal bore	Metre	580.45	493.32
677	20 mm dia nominal bore	Metre	635.20	539.86
	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work.			
678	15 mm dia nominal bore	Metre	322.15	273.80
679	20 mm dia nominal bore	Metre	368.60	313.27
680	25 mm dia nominal bore	Metre	467.75	397.54
681	32 mm dia nominal bore	Metre	540.30	459.20
682	40 mm dia nominal bore	Metre	617.05	524.43
683	50 mm dia nominal bore	Metre	762.15	647.75
684	65 mm dia nominal bore	Metre	896.60	762.02
685	80 mm dia nominal bore	Metre	1041.70	885.34

TENDER NO.AC12C24018

	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 :			
686	25 to 40 mm nominal bore	Each	911.90	775.02
687	50 to 80 mm nominal bore	Each	1785.35	1517.37
	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
688	25 mm dia nominal bore	Each	622.40	528.98
689	20 mm dia nominal bore	Each	539.95	458.90
690	32 mm dia nominal bore	Each	689.60	586.09
691	40 mm dia nominal bore	Each	826.10	702.10
692	50 mm dia nominal bore	Each	1026.65	872.55
693	65 mm dia nominal bore	Each	1742.15	1480.65
694	80 mm dia nominal bore	Each	2604.55	2213.61
	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :			
695	15 mm dia nominal bore	Each	406.85	345.78
696	20 mm dia nominal bore	Each	462.50	393.08
697	25 mm dia nominal bore	Each	464.05	394.40
698	Providing and fixing uplasticised PVC connection pipe with brass unions : 30 cm length. 15 mm dia nominal bore.	Each	85.00	72.24
699	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 100 mm diameter.	Each	193.95	164.84
	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) :			
700	100 mm diameter. Class I	Each	4791.20	4072.04
701	100 mm diameter. Class II	Each	4985.85	4237.47
702	125 mm diameter. Class I	Each	5160.80	4386.16
703	125 mm diameter. Class II	Each	5943.00	5050.96
704	150 mm diameter. Class I	Each	6966.55	5920.87
705	150 mm diameter. Class II	Each	7312.40	6214.81
706	200 mm diameter. Class I	Each	13554.70	11520.14
707	200 mm diameter. Class II	Each	14622.95	12428.05
708	250 mm diameter. Class I	Each	19566.55	16629.61
709	250 mm diameter. Class II	Each	24623.50	20927.51
710	300 mm diameter. Class I	Each	27059.30	22997.70
711	300 mm diameter. Class II	Each	30203.00	25669.53
	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 :			
712	15 mm dia nominal bore	Each	829.45	704.95
713	25 mm dia nominal bore	Each	950.35	807.70
714	50 mm dia nominal bore	Each	1520.80	1292.53

715	80 mm dia nominal bore	Each	1904.90	1618.97
716	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	11.00	9.35
717	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm dia nominal bore.	Each	506.80	430.73
718	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. 15 mm dia nominal bore.	Each	820.70	697.51
719	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm dia nominal bore.	Each	670.45	569.82
720	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 : 15 mm nominal bore	Each	574.30	488.10
721	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	each	74.80	63.57
722	Providing and fixing PTMT bib cock of approved quality and colour. 15 mm nominal bore, 122mm long, weighing not less than 99 gms.	Each	161.20	137.00
723	Providing and fixing PTMT stop cock of approved quality and colour. 15 mm nominal bore, 86 mm long, weighing not less than 88 gms.	Each	118.50	100.71
724	Providing and fixing PTMT stop cock of approved quality and colour. Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms.	Each	218.10	185.36
725	Providing and fixing PTMT pillar cock of approved quality and colour. 15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms.	Each	224.10	190.46
726	Providing and fixing PTMT, push cock of approved quality and colour. 15 mm nominal bore, 98 mm long, weighing not less than 75 gms.	Each	112.80	95.87
727	Providing and fixing PTMT grating of approved quality and colour. Circular type. 100 mm nominal dia.	Each	37.60	31.96
728	Providing and fixing PTMT grating of approved quality and colour. Rectangular type with openable circular lid.150 mm nominal size square 100 mm diameter of the inner hinged round grating.	Each	196.95	167.39
	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.			
729	15 mm nominal bore, 105 mm long, weighing not less than 138 gms.	Each	182.10	154.77
730	25 mm nominal bore, 152mm long, weighing not less than 440 gms.	Each	523.80	445.18
731	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms.	Each	156.90	133.35
732	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms.	Each	121.40	103.18
733	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	111.45	94.72

	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.			
734	15 mm nominal bore, weighing not less than 32 gms	Each	53.60	45.55
735	20 mm nominal bore, weighing not less than 40 gms	Each	93.45	79.42
736	25mm nominal bore, weighing not less than 62 gms	Each	113.35	96.34
737	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	452.00	384.15
738	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	202.90	172.44
739	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	209.20	177.80
	Labour for cutting C.I. pipe with steel saw. 80 mm diameter C.I. pipe.			
740	80 mm diameter C.I. pipe.	Each cut	145.25	123.45
741	100 mm diameter C.I. pipe.	Each cut	194.70	165.48
742	200 mm diameter C.I. pipe.	Each cut	487.75	414.54
743	300 mm diameter C.I. pipe.	Each cut	728.85	619.45
744	450 mm diameter C.I. pipe.	Each cut	1089.10	925.63
745	600 mm diameter C.I. pipe.	Each cut	1445.95	1228.91
	19.0 DRAINAGE			
	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 :			
746	100 mm diameter	Metre	443.60	377.02
747	150 mm diameter	Metre	695.80	591.36
	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 :			
748	100 mm diameter S.W. pipe	Metre	458.50	389.68
749	150 mm diameter S.W. pipe	Metre	743.10	631.56
750	Providing and fixing square-mouth S.W. gully trap with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) with standard weight (i) Square mouth traps.			
751	(A) 100x100 mm size P type each	Each	1509.69	1283.09
752	(B) 150 x 100 mm size P or R type each	Each	1456.79	1238.13

	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 :			
753	150 mm diameter R.C.C. pipe	Metre	556.45	472.93
754	300 mm diameter R.C.C. pipe	Metre	994.30	845.06
755	450 mm diameter R.C.C. pipe	Metre	1620.95	1377.65
756	600 mm diameter R.C.C. pipe	Metre	2243.40	1906.67
757	Constructing manhole with R.C.C. top slab in 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 brick bats 50 mm size), inside plastering 15 mm thick with cement mortar 1:5 (1 cement : 5 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 smooth complete including curing and testing			
	(i) Inside size 900 x 1200 mm and 1.50M deep including C.I. cover with frame size 560mm total weight of cover and frame to be not less than 128 kg (weight of cover 64 kg and weight of frame 64 kg) (A) with 230 mm thick walls of brick masonry using bricks having crushing strength not less than 35 Kg/ Sq. cm in cement mortar 1:5 (1 cement : 5 coarse sand).			
758	(1) A type depth 0.90 metre for 150mm diameter sewer.	Each	12886.50	10952.24
759	(2) B type depth 1.50 metre for 150mm diameter sewer.	Each	22584.10	19194.23
760	(3) C type depth 2.25 metre for 150mm diameter sewer.	Each	27387.38	23276.53
761	(4) D type depth 3.15 metre for 150mm diameter sewer.	Each	35344.23	30039.06
762	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 : With 20x20 mm square bar.	Each	544.70	462.94
763	Supplying and fixing C.I. cover without frame for manholes: 455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	Each	1358.00	1154.16
764	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	787.00	668.87
	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 :			
765	For pipes 100 to 250 mm diameter	Each	810.45	688.80
766	For pipes 250 to 300 mm diameter	Each	922.40	783.95
767	For pipes 350 to 450 mm diameter	Each	1328.45	1129.05
	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 : as per direction of Engineer- charge :			
768	Rectangular manhole 90x80 cm and 45 cm deep.	Each	2540.85	2159.47
769	Rectangular manhole 120x90 cm and 90 cm deep.	Each	4475.50	3803.73
770	Rectangular arch type manhole 140x90 cm and 2.45 m deep.	Each	8466.35	7195.55
771	Circular manhole 122 cm diameter and 1.68 m deep	Each	6472.40	5500.89
772	Providing soak pit 2.0 cum volume including excavating and filling brick bats with dry masonry work at top 45cm height including covering the top with stone including providing vatas in CM 1:3 finishing curing etc complete as directed.	Each	1575.19	1338.75
773	Providing soak pit 5.0 cum volume including excavating and filling brick bats with dry masonry work at top 50cm height including covering the top with stone including providing vatas in CM 1:3 finishing curing etc complete as directed.	Each	3939.78	3348.42
	20.0 PILE WORK			
	Boring with hydraulic piling rigs with power units, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in 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)			
774	300 mm diameter	Metre	3065.60	2605.45
775	400 mm diameter	Metre	3797.30	3227.33
776	450 mm diameter	Metre	4232.75	3597.41
777	550 mm diameter	Metre	4721.15	4012.51
	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. Initial test.			
	Note: 1. Initial and Routine Load Test shall not be carried out by Dynamic method of testing.			
	Note: 2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-charge.			
778	Single pile upto 50 tonne Safe capacity : Initial test (Test Load 2.5 times the Safe capacity)	Per test	54771.50	46550.30
779	Single pile above 50 tonne and upto 100 tonne Safe capacity : Initial test (Test Load 2.5 times the Safe capacity)	Per test	61173.35	51991.23
780	Group of two or more piles upto 50 tonne Safe capacity : Initial test (Test Load 2.5 times the Safe capacity)	Per test	70420.50	59850.38

781	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. 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.	Per test	1153.20	980.10
21.0 ALUMINIUM WORK				
	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 / paneling, 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) :			
	For fixed portion			
782	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	495.05	420.74
783	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	530.90	451.21
784	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	Kg	539.85	458.82
	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)			
785	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	598.60	508.75
786	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	634.45	539.22
787	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	Kg	643.45	546.87
	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.			

788	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	Sqm	1139.30	968.29
789	Pre-laminated particle board with decorative lamination on both sides.	Sqm	1115.40	947.98
790	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): With float glass panes of 4.0 mm thickness. (weight not less than 10kg/sqm)	Sqm	1176.80	1000.16
791	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 as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness.	Each	2823.85	2399.99
792	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	82.45	70.07
793	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. Upto 5mm depth and 5 mm width.	Metre	96.75	82.23
	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.			
794	Anodized (AC 15) aluminium tubular handle bar.	Each	575.75	489.33
795	Powder coated minimum thickness 50 micron aluminium tubular handle bar.	Each	631.55	536.75
796	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar.	Each	645.50	548.61
797	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	528.85	449.47
	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineerin- charge			
798	Anodized (AC 15) aluminium	Each	107.90	91.70
799	Powder coated minimum thickness 50 micron aluminium	Each	109.30	92.89
800	Polyester powder coated minimum thickness 50 micron aluminium	Each	112.15	95.32

801	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	Kg	638.35	542.53
802	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double action hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).	Sqm	5325.90	4526.48
	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 and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (whitepowder 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 screwsetc. 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 finishedwall 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). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made. Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.			
803	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	7634.10	6488.22
804	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	10030.30	8524.75

805	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 1.75 sqm upto 2.50 sqm).	Sqm	7821.15	6647.20
806	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	9642.60	8195.25
807	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	9183.30	7804.89
	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) crescent 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 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, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made. Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.			
808	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	6882.40	5849.35
809	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	6140.90	5219.15

810	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	6940.45	5898.69
811	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	8766.85	7450.95
812	Repair of Aluminium doors & windows including supplying neoprene gasket, screws, rawl plug, aluminium hinges etc. where ever required complete as per direction of EIC. Aluminium member glazing & particle board (if required) shall be paid separately.	Sqm	16.03	13.62
813	Repairing of Wood / Steel window/door/gate by which does not require dismantling wherever required & welding including replacement of damaged hinges, handles, stoppers, tower bolts all matching to existing fittings of the shutters/windows all complete as directed.	Sqm	50.09	42.57
814	Repairing of Wood / Steel window/door/gate by dismantling wherever required & welding including replacement of damaged hinges, handles, stoppers, tower bolts all matching to existing fittings of the shutters/windows all complete as directed.	Sqm	84.70	71.99
22.0 WATER PROOFING				
815	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane	Sqm	560.95	476.75
	shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3mm thick.			
816	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or peasized gravel spread at 6 cubic diameter per square metre, including preparation of surface but excluding grading complete with : Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322.	Sqm	515.05	437.74

817	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	8042.30	6835.15
818	Providing and laying broken chine mosaic flooring for terrace using 12 mm to 20 mm broken pices of glazed tiles to be laid over cement mortar (1:3) to plain or slope and to be tempered to bring mortar cream out upto surface using white cement including rounding of junctions and extending them upto 15 cm along the wall, clearing with water and oxalic acid etc. as directed.	Sqm	873.07	742.02
819	Supplying, collecting, loading, unloading and stacking in measureable stack of Black trap Rubble 15 cm to 23 cm size as approved by EIC (15% deduction shall be made for voids)	Cum	1241.88	1055.47
820	Supplying, collecting, carting, loading, unloading and stacking in measurable stacks of best locally available Machine Cut Black Trap Metal 40 mm size as approved by EIC (7.5% deductions shall be made for voids.)	Cum	1373.59	1167.41
	Supplying, Collecting, Carting, Loading, Unloading and Stacking in measurable stacks of best locally available 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 on prepared surface, complete as per specifications and directions of Engineer in- Charge.			
821	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	Cum	1197.97	1018.15
822	With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25	Cum	1154.07	980.84
823	Supplying, collecting, carting, loading, unloading and stacking in measurable stacks of Quarry Spoil of approve quality as siredted by EIC.	Cum	873.08	742.03
824	Supplying, collecting, carting, loading, unloading and stacking in measurable stacks of Stone Dust of approve quality as siredted by EIC.	Cum	978.45	831.58
825	Supplying, collecting, carting, loading, unloading and stacking in measurable stacks of 6mm to 10 mm crushed Stone aggregate (Grit) of approve quality as siredted by EIC.	Cum	1031.13	876.36
826	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 paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	Cum	1206.75	1025.62
827	Hire charges of providing JCB for taking up any job specified by EIC including transportation of JCB to work site operative charges Diesel, Fuel, Lubricants watch and ward etc. complete as directed by EIC.	Hr	933.24	793.16
828	Hire charges of providing one Road Roller of capacity 8 to 10 tonnes for taking up the rolling work in any area of Gandhar including transportation of road roller to work site, operational charges,diesel,lubrication watch and ward etc.complete as directed. The rate is for one day and 8 hours operation.	Day	2639.74	2243.52

829	Hire charges of providing one Vibratory Road Roller of capacity 8 to 10 tonnes for taking up the rolling work in any area including transportation of road roller to work side, operation charges, diesel, lubrication, watch and ward etc. complete as directed.	Hr	755.00	641.67
830	Laying built-up spray grout course in two layers with 80/100 bitumen @ 15kg/10Sqm with 0.5cum stone aggregate for first layer and 15 kg/10sqm of bitumen and 0.50cum/10sqm of stone aggregate for second layer and using 0.13cum of key aggregate per 10sqm including consolidation with power road roller using tack coat @ 5kg/10sqm including cleaning the surface with wire brush etc. complete as directed by EIC.	Cum	2117.04	1799.27
831	Rolling and consolidation of Water Bound Mecadum (thickness not exceeding 100 mm, loose layer) including filling in depression which occur during the process of rolling with power roller of 8 to 10 tonnes.	Cum	108.91	92.56
832	Spreading of Quarry Spoil / Stone Dust / GSB Gd.-I CBR Value-30 / GSB Gd.-II CBR Value-25 / WMM on road crust and filling the gaps of rubble and metal to required gradient and camber as directed by EIC.	Cum	172.29	146.43
833	Spreading of Black Trap Rubble for soling including filling the interstices with smaller stones forming the surface to required camber and gradient.	Cum	291.79	247.99
834	Spreading of Machine Cut Metal / HB Metal for WBM surface including filling the interstices with smaller stones forming the surface to required camber and gradient.	Cum	291.79	247.99
835	Providing and lowering Calama or equivalent ISI make 7.50 HP-6 stage submersible motor pump set as directed by EIC.	Each	30695.94	26088.48
836	Transporting charges by mechanical transport for debris (Earth, stone, brick bat) material and dispose the same at low laying / isolated areas within 2 kms as directed by tractor trolley.	Trip	188.51	160.21
837	Providing and fixing 100 mm vertical blind, with 100% water proof synthetic fabric, 44 mm powder coated heavy duty Aluminium top section for sliding of Gears, heavy duty runner made by glass finished materials all complete, as per direction of EIC.	Sqm	1491.15	1267.33
838	Providing and fixing sun control Polyester thrill as per direction of EIC.	Sqm	348.56	296.24
839	Job work for fabrication of structural steel welded in built up sections/ framed work, including cutting, hoisting, fixing in position using ONGC old tubing pipes (tubing pipes shall be supplied by department st site).	Kg	31.25	26.56
840	Providing and fixing 150mm wide, approved quality chicken wire mesh at junction of brick work and RCC work or two dissimilar surfaces, at all heights fixed by nails, rowal plugs and tag by cement mortar 1:3 before applying the plaster, including curing, scaffolding all complete as directed	Sqm	243.02	206.54

841	Providing and fixing double scaffolding system (cup lock type) on the exterior side of uilding/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge. Note: - (1) The elevational area of the scaffolding shall be measured for payment purpose. (2) The payment will be made once only for execution of all items for such works.	Sqm	338.25	287.48
842	Compacting cement concrete in roads/ taxi track/ runways mechanically by using surface vibrators and concrete compactor floater, levelling to required slope/ camber finishing texture i/c making provision for contraction/ expansion, construction & longitudinal joints (10mm wide x 50mm deep) by groove cutting machine.	Cum	149.86	127.37
843	Providing and fixing pre-moulded joint filler in expansion joints of RCC roads / CC pavements after making the joints dust free with high pressure air jet cleaners, all complete as per direction of the Engineer-in-Charge. (Pre-moulded joint fillers shall be made of bitumen hot sealing compound impregnated fibre board having impregnation more than 35%, conforming to IS:1838 for fibre board and IS: 1834 for hot sealing bitumen compound grade A.)	Per cm depth per cm width per metre length	4.70	3.99
FENCING				
844	Supplying at site :R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarsesand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-incharge (cost of earth works in excavation, concrete works in foundation to be paid separately).	Cum	32891.20	27954.23
845	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	125.75	106.87

Note: above rates are inclusive of all taxes and duties (including GST).


प्रवीण कुमार / PRAVEEN KUMAR
 महा प्रबंधक (सिविल) - स्थान प्रबंधक (वर्कस)
 General Manager (Civil) - Location Manager (Works)
 अंकलेश्वर परिसम्पत्ति / ONGC, Ankleshwar Asset

Signature Not Verified

Digitally signed by ASHISH SARKAR
 Date: 2024.11.27 18:22:34 IST
 Location: eProcurement System for
 Central PSUs