

VOL-3
BILL OF QUANTITIES
SRFDCL

**NAME OF WORK:-RIVERSIDE SAVORIES-CONSTRUCTION OF BUILDING WITH
TUNNEL ROAD AND BETWEEN NEHRU BRIDGE TO ELLISBRIDGE, RIVERFRONT-
WEST.**

RECAPITULATION SHEET

No.	Item of Works	Amount in Rs.
A	Civil Works + plumbing Work	1,12,00,62,173.85
B	Electrical & ELV, HVAC Work	16,11,01,636.42
C	Fire Protection Work	4,42,67,670.66
	Total Amount(Without GST)	1,32,54,31,480.93

PRICE BID
(VOLUME - 3 For Civil & PHE Works)

CLIENT: SRFDCL

Price Bid: Bill of Quantities (BOQ)

Name of Contractor : _____

Address :

Tender Amount : Rs.

Contractor's Quoted Rates :

..... % above Add Rs.

OR

..... % below deduct Rs.

.....

..... Only)

PLEASE NOTE : PLEASE DO NOT FILL PRICE BID IN HARD COPY.

SUMMARY

No.	Item of Works	Amount in Rs.
A	Civil Work	1,08,84,89,422.42
B	Plumbing Work	3,15,72,751.43
		1,12,00,62,173.85

NAME OF WORK- RIVERSIDE SAVORIES-CONSTRUCTION OF BUILDING WITH TUNNEL ROAD AND BETWEEN NEHRU BRIDGE TO ELLISBRIDGE, RIVERFRONT-WEST.

SCHEDULE OF QUANTITIES

Item No.	Description of Item	Unit	Total QTY	Rate(Rs.)	Amount(Rs.)
CIVIL WORK					
EARTH WORKS					
1	Clearing and grubbing road land including uprooting rank vegetation grass bushes,shrubs,sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials. (C) By mechanical means in area of light jungle	Sqm	30,718.80	2.81	86,319.83
2	Cutting and felling trees of girth as specified below (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 materials within campus at directed place etc complete all as per specifications and as directed by the Engineer-in-charge				
2.1	Girth beyond 30 cm, up to and including 60 cm girth.	NOS	5.00	451.00	2,255.00
2.2	Girth beyond 60 cm, up to and including 120 cm girth.	NOS	5.00	2,011.00	10,055.00
3	Dismantling tiled of stone floors laid in mortar including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift.	Sqm	2,291.82	47.25	1,08,288.68
4	Demolition and disposal of unserviceable materials with all lead and lift.(i) Cement concrete.	Cum	619.28	603.23	3,73,569.56
5	Demolition including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work	Cum	2,625.00	1,047.38	27,49,372.50
6	Dismantling barbed wire in fencing including making rolls and also including dismantling fencing posts including all earth work concrete in base and making good the disturbed ground stacking useful materials as directed and disposing as directed and disposing of the unserviceable materials with all lead and lift	RMT	525.00	66.15	34,728.75
7	Demolition of Brick work and stone masonry including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.	Cum	60.00	544.95	32,697.00
8	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of : T' or 'L' iron or pipe	NOS	20.00	230.90	4,618.00
9	Dismantling Digital Led Advertisement Hording Board	NOS	RO	5,00,000.00	
10	Dismantling wood work, wrought framed and fixed in frames trusses including stacking the materials with all lead and lift.	Cum	50.00	1,741.95	87,097.50
11	Dismantling steel work including distempering and stacking the materials with all lead and lift.	KG	500.00	3.63	1,815.00
12	Scarifying gravelled macadam or bitumen macadam surface 6cm to 10cm .depth including stacking useful materials on roadside and disposing off remaining stuff.	Sqm	6,221.25	39.23	2,44,059.64
13	Excavation for foundation up to 1.5 m DEPTH including sorting out and stacking of useful material sand disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	Cum	26,954.30	115.92	31,24,542.46
14	Excavation for foundation up to 1.5 m TO 3.0M DEPTH including sorting out and stacking of useful material sand disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	Cum	26,911.50	128.52	34,58,665.98
15	Excavation for foundation for depth from 3.0 m to 5.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	Cum	35,882.00	141.11	50,63,309.02

16	Extra for additional depth more than 5.0 m for excavation for foundation including sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 m lead.(A) Loose or soft soil	Cum	17,941.00	162.02	29,06,800.82
17	Extra for additional depth more than 6.0 m for excavation for foundation including sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 m lead.(A) Loose or soft soil	Cum	11,661.70	182.93	21,33,274.78
18	Conveyance charges of earth lime, murrum, building rubbish, manure, garbage, sludge, excavated rock, fly ash, aggregate of any kind etc. comp. upto any lead. up to 1.0 km	Cum	12,000.00	256.16	30,73,920.00
18.1	Above 1.0km & up to 5 km	Cum	24,000.00	326.73	78,41,520.00
18.2	Above 5.0 km & up to 10.00 km	Cum	84,000.00	363.78	3,05,57,520.00
19	Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. in layers not exceeding 20cm. In depth consolidating each disposed layer by ramming and watering.	Cum	59,620.80	129.10	76,97,045.28
20	Carring out plinth treatment to pre or post construction / existing structure by spraying chemical solution for termite control treatment including labour and material consistment with I.S.I specification. Using Chlordene and Chiorpurfiles 20 EC. As Per 6131_paret-II Consentration Weight one percent is recommended i.e one litre 20 EC chemical emulsion with 19 liter give 1 % concentration inclusive of one litre chemical emulsion appication at the rate of 5 Litre chemical / Sqm of surface is recommended as per I.S and as per directions of Clerk-of-Work. For all levels and leads.	Sqm	13,036.07	104.90	13,67,483.22
21	Providing and filling rubble soling including hand packing and filling interstices with quarry spalls below hardscape and others for infrastructure work in external development as directed by EIC.	Cum	100.00	2,370.00	2,37,000.00

SUB TOTAL **7,11,95,958.01**

PLAIN AND REINFORCED CEMENT CONCRETE

22	Providing and laying cement concrete 1:2:4 (1-Cement:2-Coarse sand:4-graded stone aggregates 20mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	Cu.m	1,682.57	3,661.30	61,60,385.78
23	Providing and laying in position M- 250 grade concrete for reinforced cement conctere work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transporting the concrete from Plant to point of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash(GRADE SLAB)	Cu.m	1,005.10	4,853.56	48,78,313.16
24	Providing and laying in position M-350 grade concrete for reinforced cement conctere work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transporting the concrete from Plant to point of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Foundation)	Cu.m	6,775.50	5,140.94	3,48,32,438.97

25	Providing and laying in position M-350 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transporting the concrete from Plant to point of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (RCC BEAM)	Cu.m	4,958.30	5,140.94	2,54,90,322.80
25.1	Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement(Second Floor)	Cu.m	635.69	39.85	25,332.25
25.2	Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement(utility Floor)	Cu.m	627.99	79.70	50,050.80
26	Providing and laying in position M-250 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transporting the concrete from Plant to point of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (RCC LINTEL)	Cu.m	151.20	4,853.56	7,33,858.27
26.1	Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement(Second Floor)	Cu.m	29.70	39.85	1,183.55
27	Providing and laying in position M-350 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transporting the concrete from Plant to point of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (RCC COLUMN)	Cu.m	2,514.40	5,140.94	1,29,26,379.54
27.1	Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement	Cu.m	221.32	39.85	8,819.60
27.2	Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement	Cu.m	238.59	79.70	19,015.62
28	Providing and laying in position M-350 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transporting the concrete from Plant to point of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash(RCC WALL)	Cu.m	5,765.50	5,140.94	2,96,40,089.57
28.1	Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement	Cu.m	295.65	39.85	11,781.53
28.2	Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement	Cu.m	295.65	79.70	23,563.07

29	Providing and laying in position M-350 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transporting the concrete from Plant to point of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (RCC SLAB)	Cu.m	6,256.53	5,140.94	3,21,64,419.63
29.1	Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement	Cu.m	1,051.05	39.85	41,884.34
29.2	Extra for additional lift of concrete for all R.C.C. work above floor two level excluding cost of reinforcement	Cu.m	981.75	79.70	78,245.48
30	Providing and laying in position M-350 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transporting the concrete from Plant to point of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (STAIRCASE)	Cu.m	409.55	5,140.94	21,05,496.40
31	Providing TMT Bar FE 550D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level (Foundation to First Floor)	Kg	31,50,670.35	75.46	23,77,49,584.38
31.1	Extra for additional lift of reinforcing steel for all R.C.C. work above floor two level.	Kg	2,59,842.20	0.99	2,57,243.78
31.2	Extra for additional lift of reinforcing steel for all R.C.C. work above floor two level.	Kg	2,55,694.95	1.98	5,06,276.00
32	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. Height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (A) Foundations Footings Bases of Columns etc. and Mass concrete.	Sqm	16,503.22	171.68	28,33,272.38
33	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (G) Columns Pillars Posts and struts. (1) Square Rectangular Polygonal in plan.	Sqm	2,411.64	297.68	7,17,897.00
34	Extra for Providing formwork with sheathing steel sheets or Plywood Sheets (Using Minimum 12 mm thick Shuttering Plywood, conforming to IS:4990) so as to give a Fair Exposed F3 finish in (G) Columns, Pillars, Posts and struts. (1) Square, Rectangular or polygonal in plan.	Sqm	2,411.64	94.02	2,26,742.39
35	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (G) Columns Pillars Posts and struts. (2) Circular or curved in Plan.	Sqm	7,322.91	422.10	30,91,000.31
36	Extra for Providing formwork with sheathing steel sheets or Plywood Sheets (Using Minimum 12 mm thick Shuttering Plywood, conforming to IS:4990) so as to give a Fair Exposed F3 finish in (G) Columns, Pillars, Posts and struts. (2) Circular or curved in plan	Sqm	7,322.91	94.02	6,88,500.00
37	Extra for additional height of propping and centering where the height of propping and centering exceeds 4 .0 M between supporting floor to ceiling including temporary brick or stone pillars for supporting as required. (ii) Height more than 5.0M.and upto 6.0 M.	Sqm	3,649.04	682.01	24,88,681.77

38	Extra for Providing formwork with sheathing steel sheets or Plywood Sheets (Using Minimum 12 mm thick Shuttering Plywood, conforming to IS:4990) so as to give a Fair Exposed F3 finish in (G) Columns, Pillars, Posts and struts. (1) Square, Rectangular or polygonal in plan.	Sqm	3,649.04	94.02	3,43,082.74
39	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (C) Vertical surface such as walls (any thickness) partitions and the like including attached buttresses & string course & the like.	Sqm	6,138.66	229.95	14,11,584.87
40	Extra for Providing formwork with sheathing steel sheets or Plywood Sheets (Using Minimum 12 mm thick Shuttering Plywood, conforming to IS:4990) so as to give a Fair Exposed F3 finish in (G) Columns, Pillars, Posts and struts. (1) Square, Rectangular or polygonal in plan.	Sqm	6,138.66	94.02	5,77,156.81
41	Extra for additional height of propping and centering where the height of propping and centering exceeds 4 .O M between supporting floor to ceiling including temporary brick or stone pillars for supporting as required. (ii) Height more than 5.0 M. and upto 6.0 M.	Sqm	1,509.42	386.48	5,83,360.64
42	Extra for Providing formwork with sheathing steel sheets or Plywood Sheets (Using Minimum 12 mm thick Shuttering Plywood, conforming to IS:4990) so as to give a Fair Exposed F3 finish in (G) Columns, Pillars, Posts and struts. (1) Square, Rectangular or polygonal in plan.	Sqm	1,509.42	94.02	1,41,915.67
43	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (C) Vertical surface such as walls (any thickness) partitions and the like including attached buttresses & string course & the like.	Sqm	11,632.50	229.95	26,74,893.38
44	Extra for Providing formwork with sheathing steel sheets or Plywood Sheets (Using Minimum 12 mm thick Shuttering Plywood, conforming to IS:4990) so as to give a Fair Exposed F3 finish in (G) Columns, Pillars, Posts and struts. (1) Square, Rectangular or polygonal in plan.	Sqm	11,632.50	94.02	10,93,687.65
45	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. Height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (B) Flat surfaces such as soffits of suspended floors slabs Landings and the like. (1) Floors etc. upto 200 mm in thickness.	Sqm	33,638.00	252.00	84,76,776.00
46	Extra for Providing formwork with sheathing steel sheets or Plywood Sheets (Using Minimum 12 mm thick Shuttering Plywood, conforming to IS:4990) so as to give a Fair Exposed F3 finish in (B) Flat surfaces such as soffits of slabs Landings and the like. (1) Floors etc. upto 200mm in thickness.	Sqm	33,638.00	94.02	31,62,644.76
47	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (H) (1) Sides and soffits of Beams Beam Haunchings cantilevers Girders Bressumers and Lintels not exceeding 1 M. in Depth.	Sqm	39,771.47	192.15	76,42,087.96
48	Extra for Providing formwork with sheathing steel sheets or Plywood Sheets (Using Minimum 12 mm thick Shuttering Plywood, conforming to IS:4990) so as to give a Fair Exposed F3 finish in (H) (1) Sides and soffits of Beams, Beam Haunchings cantilevers Girders, Bressumers and Lintels not exceeding 1 M. in Depth.	Sqm	39,771.47	94.02	37,39,313.61

49	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. Height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (B) Flat surfaces such as soffits of suspended floors slabs Landings and the like. (1) Floors etc. upto 200 mm in thickness.	Sqm	2,356.66	252.00	5,93,878.32
50	Extra for Providing formwork with sheathing steel sheets or Plywood Sheets (Using Minimum 12 mm thick Shuttering Plywood, conforming to IS:4990) so as to give a Fair Exposed F3 finish in (B) Flat surfaces such as soffits of slabs Landings and the like. (1) Floors etc. upto 200mm in thickness.	Sqm	2,356.66	94.02	2,21,573.17
51	Earthwork for embankment including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling the depression which occur during the process using power roller 8T to 10T.(E) From Borrow area within 3.0KM. lead	Cu.m	3,230.00	167.76	5,41,864.80
52	Construction of 300mm (as per IRC 37) Thick Granular sub base(GSB-I) by providing coarse graded material using B.T Metal 53 mm to 26.50 mm @ 35 % ,26.50 mm to 4.75mm 45% & Coarse sand below 2.36 mm 20 % in uniform layer with motor grader on prepared surface mixing by mix in place method with vibratory roller to achieve the desired density complete as per close 401	Cu.m	1,687.68	1,443.27	24,35,777.91
53	Construction of Dry Lean Cement Concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.	Cu.m	969.00	3,335.86	32,32,448.34
54	Construction of reinforced, dowel jointed, plain cement concrete of M40, pavement over a prepared sub base with Ordinary Portland Cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing.	Cu.m	1,938.00	7,491.00	1,45,17,558.00
55	Providing and laying cement concrete 1:2:4 (1-Cement:2-Coarse sand:4-graded stone aggregates 20mm nominal size) and curing complete excluding cost of formwork in Footpath.	Cum	67.83	3,661.30	2,48,345.98
56	Applying and providing Expansion joint sealing System on 100 mm wide joint including cleaning of expansion joint by mechanical means provision of adhesive and flexible membrane with required bond length as per manufacturer specification and 4mm thick aluminium strip covering with one side slotted and bolted with suitable system, inclusive of all manpower, machinery and material as per specification and as directed.	RMT	199.50	4,724.75	9,42,587.63

57	Trimix flooring - BROOM FINISH Providing and laying C.C. pavement of mix M-25 with batch mixed concrete from batching plant. The concrete shall be casted in panel and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with machine. Grooves to be made of size 5mm wide and one third of thickness of concrete within 48 Hours of concreting to form bay of 4 x 4 meters using heavy duty cutting machine with diamond cutting wheel and filling of the groove with appropriate sealant etc. complete as per specifications and as directed by the EIC. If trimix concrete shall be laid over on existing concrete surface, bonding agent shall be applied before laying of concrete at all basements floors. Reinforcement if required shall be paid in relevant tender item.	Cum	661.10	6,043.00	39,95,027.30
58	Extra for carrying out Tremix - Vacuum-dewatering (VDF) for driveway and other floor area as specified in detail drawing, it shall have contraction/sawed joints to be formed at every 10m distance by grooving with mechanical saw within 48 hrs. operation should be carried out as soon as concrete is ready to accept the saw cut w/o trowelling etc. as directed by EIC. Groove sawed joints of min. 5 mm thickness and 100 mm minimum depth (2/3rd depth of the pavement) with compressible shalitex board or equivalent. It shall be well compacted, mechanically vibrated, finished to required level, floated with neat cement with power trowel machine to get desired finish (smooth/broom), or a levelling course, including MS shuttering, curing for 7 days etc. complete. The reinforcement for Tremix floor to be installed as per drawing and contractor shall allow for one mock-up for approval without cost. The sealant could be Semifigid Sealant M-80 of approved make. The rate shall be inclusive of labour, grooves and machinery cost. The rate of concrete and steel shall be paid in relevant items separately	Sqm	RO	469.36	
SUB TOTAL					45,43,26,343.90
MASONRY WORK					
59	Masonry work using Aerated light weight concrete block having crushing strength not less than 35 kg/sqcm for super structure above plinth level upto floor two level in cement mortar 1:5 (1 cement : 5 fine sand) complete as per Technical Specification.(upto first floor)	Cu.m	3,190.19	4,483.73	1,43,03,950.61
59.1	Masonry work using Aerated light weight concrete block having crushing strength not less than 35 kg/sqcm for super structure above floor two level in cement mortar 1:5 (1 cement : 5 fine sand) complete as per Technical Specification.(Second floor)	Cu.m	767.54	4,526.39	34,74,185.38
59.2	Masonry work using Aerated light weight concrete block having crushing strength not less than 35 kg/sqcm for super structure above floor two level in cement mortar 1:5 (1 cement : 5 fine sand) complete as per Technical Specification.(utility terrace)	Cu.m	160.27	4,569.05	7,32,281.64
60	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in Sub Structure and Super Structure in Cement Mortar 1:5. (1- Cement : 5 -fine sand)(A) Modular	Cu.m	1,113.87	4,607.37	51,32,011.22
SUB TOTAL					2,36,42,428.85

PLASTERING AND PAINTING

61	Providing 15 mm. thick cement plaster in single coat on fair side of brick wall for interior plastering upto floor two level finished even and smooth in [II] Cement mortar 1:4 (1 cement : 4 fine sand) For all levels, hights and leads of works. etc, complete for all floor heights as directed. Rate shall be inclusive of hexagonal chickenmesh at junction of concrete and brick work. Minimum width of the chicken mesh shall be 150 mm covering the brick / concrete surface equally, as directed by EIC.(Upto first floor)	Sq.m	25,387.72	155.61	39,50,583.11
61.1	Providing 15 mm. thick cement plaster in single coat on fair side of brick wall for interior plastering above floor two level finished even and smooth in [II] Cement mortar 1:4 (1 cement : 4 fine sand) For all levels, hights and leads of works. etc, complete for all floor heights as directed. Rate shall be inclusive of hexagonal chickenmesh at junction of concrete and brick work. Minimum width of the chicken mesh shall be 150 mm covering the brick / concrete surface equally, as directed by EIC.(Second floor)	Sq.m	8,062.56	178.77	14,41,343.85
61.2	Providing 15 mm. thick cement plaster in single coat on fair side of brick wall for interior plastering above floor two level finished even and smooth in [II] Cement mortar 1:4 (1 cement : 4 fine sand) For all levels, hights and leads of works. etc, complete for all floor heights as directed. Rate shall be inclusive of hexagonal chickenmesh at junction of concrete and brick work. Minimum width of the chicken mesh shall be 150 mm covering the brick / concrete surface equally, as directed by EIC.(Ufility terrace)	Sq.m	152.71	201.93	30,836.73
62	Providing and laying average 20 mm. thick double coat Sand face/Mala cement plaster on external walls upto any height above ground level and for all shapes consisting of average 14 mm. thick backing coat of CM 1:3 (1 cement: 3 coarse sand) and average 6 mm. thick uniform grained textured finish coat using wooden Gutka, in CM 1:1 (1 cement: 1 sand),with line , level & plumb, including scaffolding, forming grooves, drip moulds, pattas, hacking RCC surface, curing etc. complete. as directed by EIC. Rate shall be inclusive of hexagonal chickenmesh at junction of concrete and brick work. Minimum width of the chicken mesh shall be 150 mm covering the brick / concrete surface equally.	Sq.m	18,063.34	297.68	53,77,095.05
63	Providing 10mm thick cement plaster in single coat on ceiling upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand)	Sq.m	21,419.79	139.23	29,82,277.36
64	Applying two coats of acrylic putty & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	Sq.m	53,193.83	40.19	21,37,860.03
65	Providing and painting internal walls with two coats of plastic emulsion paint of approved make & of shade. The rate shall include for all ladders, scaffolding and supports and including complete surface preparation, including scraping the surface off existing surface paint, loose particles and cleaning and applying primer and putty as necessary to achieve a surface in perfect line and level. Wherever necessary, POP punning or cement plastering needs to be done as per site condition, if the plastered surface has chipped off. The final finished surface should be smooth and in perfect line and level without undulations on surface. etc. complete as directed by EIC.	Sq.m	53,193.83	78.44	41,72,524.03
66	Providing, applying and finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete. as directed by EIC.	Sq.m	18,063.34	113.40	20,48,382.76
SUB TOTAL					2,21,40,902.91

WATER PROOFING

67	Providing & laying broken white china mosaic flooring for plain and curved surfaces, comprising of 12 to 20 mm. size broken pieces of white glazed files laid over water proofing using cement mortar 1:3 bedding. The flooring shall be tampered to bring the mortar cream up to the surface, including rounding of the junctions and extending them upto 30 cm. along the parapet wall. The rate shall include bands, if different colour is used, any pattern or design as per drawing and direction, curing, cleaning with water and oxalic acid, etc. complete. as directed by EIC.	Sq.m	4,890.00	739.89	36,18,062.10
68	Providing and laying integral cement based waterproofing treatment of the agency approved by department, including preparation of surface as required for treatment of roofs, terraces etc mixing with waterproofing compound as per IS:2645, with average thickness of 115mm and minimum thickness at drain point as 65 mm. Following works are included in above item (i) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with proprietary water proofing compound over the RCC slab including cleaning the surface before treatment. (ii) Laying cement concrete using broken bricks/brick bats 25 mm to 100 mm size with 50% of cement mortar 1:4 (1 cement : 4 coarse sand) using Ready mix mortar admixed with proprietary water proofing compound over 20 mm thick layer of cement mortar of mix 1:4 (1 cement : 4 coarse sand) using Ready mix mortar admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls up to 300 mm height including rounding of junctions of walls and slabs. (iii) After two days of proper curing applying a second coat of cement slurry admixed with proprietary waterproofing compound. (iv) Finishing the surfaces with 20 mm thick jointless cement mortar of mix 1:4 (1 cement : 4 coarse sand) using Ready mix mortar admixed with proprietary water proofing compound and finally finishing the surface to receive the China Mosaic waterproofing treatment. (v) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer in Charge.	Sq.m	4,890.00	1,425.00	69,68,250.00
69	Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like Rafts, Retaining Walls etc. into the drum of the ready-mix truck in powder form, using integral crystalline admixture @ 0.80% by weight of cement content per cubic meter of concrete or as recommended by Manufacturer. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 Part 5 & resistant to 16 bars hydrostatic pressure. The crystalline admixture shall be capable of self-sealing of cracks up to a width of 0.5 mm by forming insoluble microscopic needle shaped crystals through catalyst reaction with un-hydrated cement particle and moisture. It should be hydrophilic in nature, should be able to grow crystals year after year to seal microcracks. For M- 250 grade(Cement level 450 kg) (GRADE SLAB)				
69.1	Admixture Dosage :- 3.6Kg/m3	KG	3,618.23	215.00	7,77,919.45

70	<p>Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like Rafts, Retaining Walls etc. into the drum of the ready-mix truck in powder form, using integral crystalline admixture @ 0.80% by weight of cement content per cubic meter of concrete or as recommended by Manufacturer. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 Part 5 & resistant to 16 bars hydrostatic pressure. The crystalline admixture shall be capable of self-sealing of cracks up to a width of 0.5 mm by forming insoluble microscopic needle shaped crystals through catalyst reaction with un-hydrated cement particle and moisture. It should be hydrophilic in nature, should be able to grow crystals year after year to seal microcracks.</p> <p>For M- 350 grade(Cement level 500 kg) (Foundation)(RCC Wall) (RCC SLAB)</p>				
70.1	Admixture Dosage :- 4Kg/m3	KG	61,528.22	215.00	1,32,28,566.23
71	<p>Providing and applying Synthetic Rubber based Swelling Waterstop tape, 20mm x 5mm thick for construction joints treatment of RCC structure such as retaining walls and at the junctions of raft slab with the retaining walls etc. After cleaning the surface, one coat of required adhesive for swellable water stop shall be applied throughout the length of the joint. Over the primed surface Swelling Waterstop shall be placed. The waterstop conforms to the following swelling properties: Swelling percentage of swelling waterstop in clear water 1000%, concrete water 800% & salt water 300%. The work shall be carried out all complete as per manufacturer specification.</p>	RMT	4,892.91	410.00	20,06,093.10
72	<p>WET Areas - Sunk Slab, Bathroom, Kitchen, Podium, Terrace, OHT & UGT Water Proofing (Cleaning and Preparation of surface with help of wire brush or grinder, wash the slab with clean water. Remove all loose concrete, grease, oil using wire brush and scrubber. Repair and fill all cracks, joints and annular space is included)</p> <p>Supply and application of 2mm thick with a covergae of 3.2kg/sqm in 2 coats two-component, high flexible, elastic cementitious mortar made from cementitious binders, fine-grained selected aggregates, special admixtures and synthetic polymers in water dispersion with an elongation of 120% (DIN 53504), Static crack bridging ability of >2.5mm (EN 1062-7), Permeability to water vapour $sD = 3.6 \text{ m}$, $\mu = 1800$ (EN ISO 7783-1), Impermeability to water $< 0.05\text{kg/m}^2 \cdot \text{h}0.5$ (EN 1062-3), Permeability to CO_2 $s\text{DCO}_2 > 50\text{m}$ (EN 1062-6), Reaction to fire (Euroclass): E (EN 13501-1), adhesion to concrete after 28 days: 1.3N/mm^2 (EN 1542) when applied @ 2mm thickness (in 2 coats) on the surface prepared for waterproofing to be carried out to ensure the mechanical properties of the product with Mapenet 150. The application of the product shall be carried out after the thorough preparation of the surface which includes cleaning, crack treatment, corner joint treatment, grouting and priming primer having Colour: opalescent Specific gravity (kg/l): 1.01 Dry solids content (%): 15 Brook field Viscosity # 1, rpm 10 (mPa·s): 20 in dilution with water {1:1}. Additionally apply fiber net for reinforcing the waterproofing membrane and with Mapenet 150 tensile strength should be complied minimum 3.2 MPa after curing.</p> <p>1. Tensile Strength : 3.2 Mpa 2. Crack Bridging: 2.8 mm</p>	Sq.m	2,000.00	1,127.00	22,54,000.00

73	<p>Water Tank Plastering & Food Grade Epoxy Underground Water Tank and Overhead Water Tank -Plastering & Internal coating (Cleaning and Preparation of surface with help of wire brush or grinder, wash the slab with clean water. Remove all loose concrete, grease, oil using wire brush and scrubber. Repair and fill all cracks, joints and annular space is included) Plaster Over Waterproofing Membrane: Before application of food grade epoxy supply & application of concrete plaster on avg thickness of 15-20mm by adding water proofing compound @200 ml per bag of cement. Food Grade Epoxy: Supply and application of two-component epoxy paint made from epoxy resins and special pigments with high covering capacity for anti-acid and non-toxic coatings on concrete surfaces. Apply two coats of the product on a solid, clean substrate treated with primer (not included) with a brush, roller or by airless spray. Wait between 6 and 24 hours between each coat, according to surrounding conditions. The product must comply with the principles defined in EN 1504-2/-9 and have the following characteristics like, Abrasion resistance:(EN ISO 5470-1) <600 mg, Permeability to CO₂: (EN 1062-6) > 900 m, Permeability to water vapour: (EN ISO 7783-1-2) Class III, Resistance to thermal shock (1x): (EN 13687-5) 3.5 MPa, Taber abrasion resistance (g): 0.1; viscosity - rotor 5.</p>	Sq.m	1,252.91	828.00	10,37,409.51
SUB TOTAL					2,98,90,300.38
PAVING AND FLOOR FINISHING					
74	<p>Providing & laying machine cut & machine polished (mirror finish) 18mm - 20mm thick Granite Stone of Steel Grey /Sadarhalli / Z Brown / Brown or other approved colour at all floor & location in necessary cement mortar bedding /backing, close jointed & grouted with matching cement slurry and rounding of edges, finished to line, level,curing etc. as required, including cutting of stone slab, wastage, making cut outs, grooves wherever required, machine polishing/ hand polishing (where machine cannot have access) etc. complete all as per specifications, drawings and as directed by the Engineer in charge. Note: Top exposed surface on plan &exposed vertical finished face shall be measured for payment in Sqm.</p>				
74.1	<p>In flooring with machine polished Granite stone of size 800mm x 800mm/ 1000mm x 1000mm / (and any other size and pattern as per drawing) laid over & including 20mm thick cement mortar1:4 (1 cement : 4 coarse sand) bedding. (Using ready mix mortar) including cement slurry at 4.40 Kg/Sqm over bedding and matching slurry with white cement at 2.20 Kg/Sqm for grouting the joints.</p>	Sq.m	1,759.91	2,750.00	48,39,752.50
74.2	<p>18 mm thick one side machine polished granite stone of approved colour, shade and surface finish for Cladding/dado/riser/treads with stone slabs of various sizes in pattern including 12 mm thick 1:4 cement mortar (Using ready mix mortar) backing, fixing of 6mm (approx.) size angular stone chips to the backside of granite after applying araldite to the unpolished surface of the granite to create a surface suitable for proper bond with backing and filling the space between granite and backing with cement slurry including adequate curing etc. complete as directed and including rounding & polishing all exposed edges in semicircle / chamfering / or as per drawing & as ditected.</p>	Sq.m	5,865.76	2,850.00	1,67,17,416.00

74.3	For top of dwarf walls, parapets, seat wall, planter wall etc using machine polished Granite stone of approved colour, shade & size as per drawing laid over & including 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding. (Using ready mix mortar) including cement slurry at 4.40 Kg/Sqm over bedding and matching slurry with white cement at 2.20 Kg/Sqm for grouting the joints. including half round / semi circle / camfering moulding & polishing of exposed face etc complete.	Sq.m	689.28	2,800.00	19,29,993.24
75	Providing & laying at all floors & locations Homogeneous Full body Vitrified tile/ Glazed vitrified tile/ Anti Skid Vitrified tile double charge/ multi charge (Glossy /Matt/ Satin)/ approved manufacturers of sizes 600 mm X 600mm / 800mm X 800mm / 1000 mm X 1000 mm size or as per approved size and having minimum thickness 8.5 mm or as specified by approved manufacturer tiles conforming to IS:15622 having water absorption less than or equal to 0.08% (Group B I a), in flooring/ skirting/ dado/ cladding / staircase tread/ riser at all floors and location, heights/ levels and lead in approved pattern and colour, shade laid over cement mortar bedding/ backing/ adhesive backing, including cleaning and preparing the surface for bedding/backing, spreading the neat cement slurry, close jointed and grouted with matching coloured readymade cement grout and approved pigment as per manufacturer's specifications, finished to level, line, slope and plumb, cutting of tiles, wastage, making openings / cut out if necessary, final cleaning of surfaces, curing etc. all as per drawings, specifications & as directed by Engineer in charge.				
75.1	In flooring using Anti Skid Finish tiles of size 600 mm X 600 mm laid over 20 mm thick cement mortar 1:4 bedding (using ready mix mortar) and spreading neat cement slurry by using minimum cement about 2 kg/sqm prior to bedding and spreading cement paste using minimum cement of about 4.50 kg/sqm over bedding,, and including Providing and laying Durafloor protector XF 3 mm thick sheet of approved make and brand over the whole vitrified tile / stone flooring area along with removing and cleaning the same before handing over without damaging the finished surface & making good the damages, if any etc and including Providing in flooring & skirting 3 mm thick and 8.5 mm deep grout line using PVC spacers for creating true alignment and gap between vitrified tile work, if shown in the drawing & the 3 mm spacer joints filled with approved cement based tile grout including all labour material, wastage complete.	Sq.m	1,541.65	1,400.00	21,58,310.00
75.2	In dado / skirting / cladding / sloped skirting laid over 12 mm thick CM 1:4 (1 cement : 4 sand, using ready mix mortar) backing, including providing grooves as per drawing on top of skirting. (Using AntiSkid vitrified tiles or Double charge vitrified tiles)	Sq.m	2,372.16	1,400.00	33,21,024.00
76	Providing and laying machine cut and machine Polished Kotah stone flooring, skirting, riser, treads at all floors, levels & location including cement mortar (using ready mix mortar) bedding / backing, close jointed & grouted with matching cement slurry and finished to line, level, curing etc. as required, including cutting of stone slab, wastage, making cut outs, wherever required, machine polishing/ hand polishing (where machine cannot have access) and including providing and laying 6 mm thick POP during construction period etc. complete all as per specifications, drawings and as directed by the Engineer in charge.				
76.1	In flooring with mirror polished, 25 mm minimum thickness kotah stone slab of size 600mm x 600mm / 575mm x 575mm / (and any other size and pattern as per drawing) laid over bedding of 20 mm Ready mix mortar having Cement: Sand (1:4)	Sq.m	2,386.02	982.83	23,45,052.04

76.2	Polished Kotah stone of approved colour, shade and surface finish for cladding/ dado/skirting/ /Facia/Window Sill/riser/treads with stone slabs of various sizes in pattern including 12 mm thick 1:4 cement mortar (Using ready mix mortar) backing, fixing of 6mm (approx.) size angular stone chips to the backside of Kotah stone after applying araldite to the unpolished surface of the Kota stone to create a surface suitable for proper bond with backing and filling the space between Kota stone and backing with cement slurry including adequate curing etc. complete as directed and including rounding & polishing all exposed edges in semicircle / chamfering / or as per drawing & as ditected.	Sq.m	22.96	1,058.00	24,291.68
77	Providing and laying Riverwash finish Dark grey / Steel Grey /Adhunik/ Any other approved color Granite stone flooring / Coping in required size, design and patterns, in linear as well as curvilinear portions all complete as per the architectural drawings with 30 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 Coarse sand), portions butt jointed or with 5-8 mm gap as per design and drawing in 1:2 (cement : fine sand) and pointing full depth (flushed) or struck pointed as per design and drawing with white cement slurry admixed with pigment of matching shade including rubbing, pointing, curing, polishing, moulding/ champhering at edges and final scrubbing using mechanical/ manual means to achieve clean surface etc. all complete as specified and as directed by the Engineer-in-Charge. Including Minimum 2 mockups for approval, complete for finished item of work. Wax polishing is strictly not allowed.	Sq.m	18,248.80	3,451.00	6,29,76,608.80
78	Providing and laying Riverwash finish Dark grey / Steel Grey /Adhunik/ Any other approved color Granite stone flooring / Coping in required size, design and patterns, in linear as well as curvilinear portions all complete as per the architectural drawings with 18-20 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 Coarse sand), portions butt jointed or with 5-8 mm gap as per design and drawing in 1:2 (cement : fine sand) and pointing full depth (flushed) or struck pointed as per design and drawing with white cement slurry admixed with pigment of matching shade including rubbing, pointing, curing, polishing, moulding/ champhering at edges and final scrubbing using mechanical/ manual means to achieve clean surface etc. all complete as specified and as directed by the Engineer-in-Charge. Including Minimum 2 mockups for approval, complete for finished item of work. Wax polishing is strictly not allowed.	Sq.m	582.95	2,900.00	16,90,555.00
79	Providing and fixing Pre cast Kerb blocks of various types (Half Batter, Bull nose, Flat, offlet, Transition, Dropper, etc.,) and size of 600x450x150mm steel mould Vaccum wet pressed for connecting roads, pathway-promenade area and other area with true line & level, including grading, geometrical shapes in curves, circles etc. at respective finish level etc. completed as specified in drawing and specification. It shall be of CC- M25 grade of concrete and fitted and jointed in C:M 1:1 with thoroughly curing, rendering with cement slurry, cleaning the joints neatly etc. completed as directed by EIC. It allows to satisfy respective IS-codes for materials, manufacturing process and test results.	Rmt	2,875.38	1,762.00	50,66,412.51
80	Providing and fixing 80 mm thick (min.) factory made paver blocks of specified finish (shot blasted), approved make and colour, shade, size, shape laid in pattern manufactured with cement concrete grade not less than M-40 and conforming to IS:15658, including providing & laying 20 mm thick bedding of cement mortar (using ready mix mortar having cement: sand, 1:4) finishing to line, level and slope, finally filling the joints with matching cement mortar and cleaning the surface etc. complete all as per specification and as directed by the Engineer- in- Charge.	Sqm	9,083.61	1,400.00	1,27,17,058.20

81	Flooring with Cobble stone of approx. Size 100x100x100 mm (thick) laid on 25 mm average thick cement mortar 1:3 (1 cement : 3 Coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the stone, laid in approved pattern, approved colors complete in all respect as per direction of Engineer-in-charge.	Sqm	50.00	1,822.00	91,100.00
82	Providing and fixing 60 mm thick (min.) factory made paver blocks of specified finish (shot blasted, pneumatic compressed), approved make and colour, shade, size, shape laid in pattern manufactured with cement concrete grade not less than M-35 and conforming to IS:15658, including providing & laying 20 mm thick bedding of cement mortar (using ready mix mortar having cement: sand, 1:4) finishing to line, level and slope, finally filling the joints with matching cement mortar and cleaning the surface etc. complete all as per specification and as directed by the Engineer- in- Charge.	SQm	1,019.00	1,250.00	12,73,750.00
83	Providing & laying machine cut machine polished natural stones as mentioned for the followings for kitchen / Basin platform topping, counter topping and facia over and including necessary cement mortar for backing / bedding, close jointed and grouted with matching cement slurry and finished to line, slope, level, plumb, curing etc, as required including cutting of stone slabs, wastages, making cut outs wherever required etc all as per specifications and as directed by the Engineer in charge. Notes : 1) Verticals, shelves, platform shall be embedded minimum 25 mm in wall/ flooring. 2) Top exposed surface on plan & exposed vertical finished face shall be measured for payment in sqm.				
83.1	For kitchen / Basin platform top, Vertical support for Counter, upto 750 mm wide and maximum length upto 1.80 m in single piece consisting machine cut machine polished 35 mm thick cuddappah stone at bottom and mirror polished machine cut 18mm thick Jet black/ approved Granite stone at top fixed with 47 mm thick 1:3 cement mortar (Using ready mix mortar), between two stone slabs (Double stone slab sandwich type) including providing cut out if any, moulding and polishing the edges etc complete.	SQM	49.61	5,449.00	2,70,324.89
83.2	For kitchen platform horizontal & vertical facia upto 100 mm wide machine cut machine polished on one side 18 mm thick Jet black/ approved Granite stone fixed with epoxy resin base (Araldite adhesive orequivalent) including round moulding and polishing the edges etc complete.	SQM	30.00	3,797.00	1,13,910.00
84	Providing and laying 30 mm thick (without pattern thickness) all type of tactile pattern stone with textured finish as a warning stone of required size and pattern, depth of pattern shall be as per standard of vision impaired persons (minimum 8mm above) in any colours and shades in for outdoor floors such as footpath, atrium, terrace location etc., laid on 30mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes and patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction and approval of EIC. (RATE ONLY ITEM)	Sqm	RO	5,219.72	
				SUB TOTAL	11,55,35,558.86

False Ceiling

85	<p>Providing & Fixing M/F Suspended Plain Gypsum Ceiling which includes 20x28x30x0.5mm Perimeter Channel {Material-GI(IS513), YS-300Mpa, Finish-Galvanised 150GSM(IS 277)} is fixed along the perimeter of existing wall/ partition with the help of suitable HPS - 1 (6x40) impact anchor / PVC Anchor (6x40) at 600mm c/c for the brick wall, at 600mm centres. 25x10x0.5mm Ceiling Angle {Material-GI(IS513), YS-300Mpa, Finish-Galvanised 150GSM(IS 277)} is suspended at up to 1.5m height by fixing it to the 27x37x25x1.6mm Gyproc® soffit clip {Material-GI(IS513), YS-300Mpa, Finish-Galvanised 150GSM(IS 277)} with Soffit Cleat and or Rawl Plug- Ø8x45mm {Material-IS 513 CR2 grade, Zinc coating (7 to 8 microns) Pull Out Load- 7.5kN for M30 concrete grade} creating 1220mm x 1220mm grid. 15x45x15x0.9mm Intermediate channel {Material-GI(IS513), YS-300Mpa, Finish-Galvanised 150GSM(IS 277)} is fixed to the 25x10x0.5mm Ceiling Angle with M6 x 12mm Hex Bolt & Hex Nut arrangement {Material-As per EN 10083 Finish – Zinc Plating} or with 2 Nos of Ø4.2x13 metal to metal screw {Material-Carbon steel EN-ISO 7049/50 Finish- Zinc Coating Thickness- 4.14micron.} The 80x26x0.5mm Ceiling Section {Material-GI(IS513),YS-300Mpa,Finish-Galvanised 150GSM(IS 277)} is then fixed to the 15x45x15x0.9mm Intermediate Channel {MaterialGI(IS513),YS-300Mpa,Finish-Galvanised 150GSM(IS 277)} with the help of Ø 2.64mm Connecting Clip {Material-High carbon spring steel wire (BS970Gr.En42)-46-48HRC,Finish-Zinc plating 4-6 micron} and in direction perpendicular to the Intermediate channel at 457mm c/c. Single-layer of 12.5mm thick Plain (conforming to IS 2095 Part 1: 2011, ISI Mark Certified, International EPD Verified) of size 1219 x 1829mm is then screw fixed to ceiling section with 25mm drywall screws {Material-Carbon steel EN-ISO 7049/50, Finish-Case hardened Grey Phosphating as per JIS G3507-1} standard at 230mm centres. Gypsum Board to be certified class 1 under BS-476 Part 5,6, & 7 & certified GreenPro by CII. Finally, square and tapered edges of the boards are to be jointed and finished to have a flush look which includes filling and finishing with Jointing Compound & Joint Paper tape. Serrated steel section has an effective thickness of 2T (2xdepth), better load carrying capacity, enhanced screw retention, Improved acoustic performance & fire resistance as compared to plain steel section. All metal components are Design Patented in India (325062). Vendor to submit MTC, material inspection report and/or performance certificate for the system. If required trap door also provided as per drawing is included. No Extra payment shall be made for the Trap Door.</p>	Sqm	995.40	978.00	9,73,501.20
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86	<p>Providing and fixing tiled false ceiling of size (600x600)mm in true horizontal level suspended on interlocking metal grid of hot dipped galvanized steel sections. It consists of main "T" runner of size 24x32x0.3x3600mm, cross "T" of size 24x25x0.3x1200mm, secondary cross "T" of size 24x25x0.3x600mm and PPGI wall angle of size 24x24x0.4x3000mm. Bottom exposed capping of width 24 mm of all T-sections shall be of 0.25mm thick PPGI. PPGI wall angle 24x24x0.4x3000mm {Material-GI(IS513), YS-280Mpa, Finish-Galvanised 90GSM (IS277)} is fixed along the perimeter of the ceiling to Walls, partitions or columns etc., with wooden screws at 300mm centers or Hilti HPS 6x40mm placed at 600 mm c/c. soffit cleat 27x37x25x1.6mm {GI(IS513) YS-260Mpa, Finish-Galvanised 120GSM (IS277)} is fixed with Rawl Plug- Ø8x45mm {Material-IS 513 CR1 grade, Zinc coating (7 to 8 microns) pull out load- 6.8kN for M30 concrete grade} creating (1200x1200)mm grid. Main-T runners 24x32x0.3x3600mm are then suspended at 1200mm c/c from ceiling using 4mm zinc electroplated butterfly level clips of size 85x30x0.8mm spaced at maximum 1200mm center to center along main T and not more than 150mm from spliced joints. The last hanger at the end of each main runner should not be greater than 600mm from the adjacent wall. 24x25x0.3x1200mm cross T {Material-GI(IS513),YS-280Mpa, Finish-Galvanised 90GSM (IS277)} is interlocked between the main T at 600mm center to center to form a grid of 1200x600 mm and then secondary cross "T" 24x25x0.3x600mm {Material-GI(IS513), YS-280Mpa, Finish-Galvanised 90GSM(IS277)} is then interlocked at middle of the (1200x600)mm grid to form grids of (600x600)mm. Cross Tees at the ends having length more than 600mm are to be supported independently.Finally 12.5mm thick square edge Gypsum tile (meets requirement of specification mentioned under DAR no. 12.52.3 in Delhi Schedule of rates (DSR)), of size 595x595mm, 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, so as to make the tile a completely sealed unit, is placed in the grid.</p>	Sqm	813.80	1,144.25	9,31,190.65
87	<p>Providing and Fixing Metal Frame Suspended Ceiling which includes Perimeter Channel of 0.50mm thick, having one flange of 20mm and another flange of 30mm and a web of 27mm, fixed along the perimeter of ceiling, screw fixed to wall/ partitions with the help of nylon sleeves and steel screws. Then suspending Intermediate Channel of 0.90mm thick, web of 45mm with two equal flanges of 15mm each from the soffit at 900mm centres with ceiling angle of 0.50mm thick, having one flange of 10mm and another flange of 25mm, fixed to soffit with the help of soffit cleat (27 x 37 x 25 x 1.6mm), Ø12 x 45mm Metal Anchor Fasteners (Rawl Plugs) and M6 Bolt Nut (6 x 12mm). Ceiling Section of 0.50mm thick, having a web of 53mm (80mm overall width of the profile) with two equal flanges of 26mm each and equal lips of 10.5mm each are then fixed to the Intermediate Channel and in direction perpendicular to the Intermediate Channel at 488mm c/c(max) with GI connecting clips (wire diameter of 2.64mm). Additional members shall also be provided to support the plank joints, as per site conditions.</p>				

87.1	6mm Fibre Cement Board (conforming to IS 14862: Type B- Category 3; Density >1200Kg/m3; MOR at EMC >10MPa and MOR in Wet Condition >7MPa; with Fire property classification as non-combustible, Class A and A2-s1-d0, when tested in accordance to BS 476, ASTM E84 - 18B and EN13501: Part 1, respectively) and 9mm Everest Heavy Duty Fibre Cement Board (conforming to IS 14862: Type A - Category 4 Density >1450Kg/m3, MOR in wet condition >14MPa, Class A and A1, when tested in accordance to BS 476, ASTM E84 - 18B and EN1350: Part 1, respectively), as substrate and finished ceiling board, shall then be screw fixed to the bottom of the ceiling section with 25mm and 35mm Everest self-tapping self-drilling countersunk screws, respectively. Screw fixing of the substrate board and the Heavy Duty Board shall be at 300mm c/c (max). The joints of the boards shall be staggered to avoid through joints. The exposed Everest Heavy Duty Fibre Cement Board shall be screw fixed with desired grove finish as per the specification.	Sqft	50,181.35	95.00	47,67,228.25
88	Providing and Fixing in position, Acoustic micro perforated metal ceiling clouds made of aluminium Sheet (exposed side powder-coated) of size as per drawing have NRC better than 0.85 on both side, Micro holes dia. 0.04 - 0.08mm, water resistant, no back material, warranty 25 years, electromagnetic immunity – 40% than general aluminium, dust proof, incombustibility Class A, Acid/Alkali resist water tolerant, Non-toxic recyclable install with required hanging system. All material to be approved by the architect & EIC prior to installation. The design, color and shape of the panel shall be approved by the architect & EIC. Complete with hanging arrangement to suspend from the main ceiling/slab. Installation system as per vendor specification and to be approved by architect & EIC prior to installation. All Makes and models of all items/samples should be approved by the Architect and Engineer in charge prior to the installation.	Sqm	1,350.00	5,277.55	71,24,692.50
SUB TOTAL					1,37,96,612.60
DOORS & WINDOWS					
89	Aluminium Framed Doors with Floor Spring				
	Design, Fabrication, Supply, Installation, Testing, Protection, Cleaning & Handover Single shutter aluminium framed door opening outward system to withstand the design wind pressure. The system shall have a Wool pile weather sealing at periphery of Door Frame. The profile system is in line with the tender drawing & minimum of 1.8 mm thickness.				
	Design, Fabrication, Supply, Installation, Protection, Cleaning & Handover Single leaf double swing Frame door made out of 12mm thick fully tempered (FT) glass with PT series patch fittings, Door lock and BTS 80, 90 deg with EN 1-4 spring capacity floor spring. Floor spring covers shall be SS satin finish, as per the Architect's approved shop drawings.				
	The extruded aluminium sections of Alloy 6063 T5 / T6 & tolerances confirming to DIN / EN standard from approved extruder. The structural profiles shall have minimum 1.8mm wall thickness. All the visible surfaces shall have high Durability (Akzonobel) / Super durable (Jotun) Powder coating of 60 - 80 micron confirming to AAMA 2604. The non visible aluminium surfaces shall have minimum chromatizing treatment.				
	All Material Make / Vendor list / Supplier list shall be as per tender specification.				
	All shade approval shall be as per Architect's Approval.				
	The quote rate shall include all Design & shop drawing approval from architect & consultant.				
	Aluminium framed door system with glass				
	Quote rate for complete system as mentioned above under item (B).				
	Aluminium Framed Single Swing Doors:- Double Shutter (Size :- 1610 mm (W) x 2400mm (H)	NOS	18.00	51,850.00	9,33,300.00

	Aluminium Framed Single Swing Doors:- Double Shutter (Size :- 1425 mm (W) x 2400mm (H)	NOS	18.00	46,200.00	8,31,600.00
	Aluminium Framed Single Swing Doors:- Double Shutter (Size :- 1500 mm (W) x 2400mm (H)	NOS	36.00	48,600.00	17,49,600.00
	Vision Glass:- 12mm Thk.:- Providing and fixing glass:-				
	Glass:-12mm thk. (12mm thk. Clear tempered glass) (As per Client / Architect Approval sample).	Sqm	261.00	1,800.00	4,69,800.00
90	Spider Canopy with Laminated glass on SS Support Above Door.				
	Shop Drawing, Fabrication, Supply, Installation, Testing, Protection, Cleaning & Handover of SS316 Support canopy with spider system of DORMA / OZONE custom Shop Drawing with stand the Shop Drawing, wind pressure confirming to IS -875 part III. (The system must pass the proof test at 1.5 times Shop Drawing, wind pressure without any failure) with weather sealants, backer rod, Bracketing system with Aluminium Alloy of 6005 T5 brackets Shop Drawing,ed to accommodate three dimensional movements with serrated plate and serrated washers, SS 316 grade fasteners & Anchor Fasteners, nylon separators to prevent bi-metallic contacts, all complete required to perform as per specification and drawing in conjunction with BOQ.All SS members-Grade 316 With have satin finish inline with architect requirement.				
	The stainless steel spider system of Grade 316, supported on SS structure, all inline with the tender drgs. All the weather sealants shall be non staining of approved make, Stainless steel spider system of grade 316 with Articulated bolt assembly, with SS 316 grade fasteners and anchor bolts of approved make, Teflon/ nylon bushes & separators to prevent bi-metallic contacts, all in complete required to perform as per specification and drawing in conjunction with BOQ.				
	Shop Drawing, Fabrication, Supply and install required prefabricated grid on to the SS Steel portal with full Welded of as recommended by approved supplier to support given Shop Drawing, loads. The brackets shall have provision movement to accommodate the construction tolerances . Use of SS316 brackets with washers to prevent wind direction movement after final position.				
	All Material Make / Vendor list / Supplier list shall be as per tender specification.				
	All shade approval shall be as per Architect's Approval.				
	The quote rate shall include all design & shop drawing approval from architect & consultant.				
90.1	Quote rate as mentioned above under item (D) with Laminated Glass.				
	17.52mm Laminated glass :- (8mm Clear FT Glass + 1.52mm Clear SGP Kuraray Lamination + 8mm Clear FT Glass)	Sqm	19.00	13,500.00	2,56,500.00
90.2	Quote rate for complete SS works as mentioned in item (D).	Ton	19.00	1,80,000.00	34,20,000.00
91	Aluminium Framed Doors with AHPL and Floor Spring.				
	Design, Fabrication, Supply, Installation, Protection, Cleaning & Handover Single leaf, double swing Aluminium Frame door System, The system shall have a wool pile weather sealing all side door frames. The profile system is in line with the tender drawing & minimum of 1.8 mm thickness. Patch fittings, Door lock and BTS 80, 90 deg with EN 1-4 spring capacity floor spring. Floor spring covers shall be SS satin finish, as per the Architect's approved shop drawings.				

	The extruded aluminium sections of Alloy 6063 T5 / T6 & tolerances conforming to DIN / EN standard from approved extruder. The structural profiles shall have minimum 1.8mm wall thickness. All the visible surfaces shall have high Durability (Akzonobel) / Super durable (Jotun) Powder coating of 60-80 micron confirming to AAMA 2604. The non visible aluminium surfaces shall have minimum chromating treatment.				
	All Material Make / Vendor list / Supplier list shall be as per tender specification.				
	All shade approval shall be as per Architect's Approval.				
	The quote rate shall include all Design & shop drawing approval from architect & consultant.				
	Aluminium framed door system with glass.				
91.1	Quote rate for complete system as mentioned above under item (E)				
	Aluminium HMPS Framed Single Swing Doors:- Double Shutter (Size :- 1000mm (W) x 2400mm (H)	NOS	18.00	32,500.00	5,85,000.00
	Aluminium HMPS Framed Single Swing Doors:- Double Shutter (Size :- 1000mm (W) x 2100mm (H)	NOS	72.00	28,500.00	20,52,000.00
	Aluminium HMPS Framed Single Swing Doors:- Double Shutter (Size :- 1200mm (W) x 2400mm (H)	NOS	12.00	39,000.00	4,68,000.00
91.2	Quote rate for complete system as mentioned above under (E) Including 6mm thick (AHPL) aluminium high-pressure laminate of a thick fire-retardant (FR) grade mineral-filled thermoplastic inorganic core of grade B sandwiched between two thin coil PVDF coated aluminium sheets (Top i.e. face #1 & rear, i.e. face #2) of Alloy Grade 3003 and H-16 temper and minimum thickness of 0.5mm each as specified in the nomenclature of item. The HPL fire retardant core of B grade	Sqm	687.00	4,200.00	28,85,400.00
92	Supplying & fixing in position the following type solid core block board flush door shutter (Single/double leaf) with commercial ply facing / prelamination on both sides conforming to IS 2202 (Part-1) of approved make & brand with external / internal type second class teak wood lipping around of required width and depth (20 minimum thickness all around) of shutter as per IS/as specified, fixing shutters in position to HMPS door frames/ wooden frames/ granite frame works (door frames shall be paid separately under relevant item) at all floors by cutting/ planing if necessary including labour for fixing of the fittings & fixtures as per drawing with wooden packing pieces if necessary (but excluding the cost of fittings and fixtures with SS screws which shall be paid separately under relevant item), including view panel wherever required as per drawing, finishing as specified all as per specifications, drawings and as directed by Engineer In Charge.				
92.1	30 mm thick flush door shutter (for shaft doors), With 1.0 mm thick decorative laminate sheet of approved colour, pattern & shade fixed on one face of shutter and 1.0 mm thick white / off white lamination on another face.	Sqm	459.00	3,100.00	14,22,900.00

93	<p>Providing & fixing Hollow Metal Pressed steel (HMPS) door frames of following profile fabricated out of 1.60 mm thick G.I sheet of coating (Class VIII of zinc coating) 120 gram/sqm, manufactured by Sail / Lloyds/ Jindal or equivalent of profiles / size generally conforming to IS 4351-2003 with suitable one/two set rebates for fixing shutters and also rebate suitable for fixing fixed glazing including hole for self tapping screws wherever shown in the drawing, each frame to contain hinge jamb, lock jamb and head all rigidly fixed together with welded /mechanical joints with back plates /angles to correct shape & angles including providing and fixing base ties with GI channel 50x25mm, 1.25mm thick suitable section to suit floor thickness / angle thresholds with MS angle 25x25x3mm, 6nos. of adjustable lugs per frame, providing and welding of 40x40x5mm,150mm long angle cleats for hinges with necessary tapped holes for fixing counter sunk headed machine screws to suit heavy duty oxidised / stainless steel hinges of size 125mm x 65mm x 2.8mm/125mm x 76mm x 2.80mm/ 100mm x59mm x2.6mm/75mm x 48mm x 2.45mm or shop type welding and self tapping screw for fixing hinges/ piano hinges etc.</p> <p>and finishing the same to smooth etc. (but excluding the cost of hinges which shall be paid under the relevant item) including providing each door frame with necessary lock strike plates, mortar guards, buffers, bushes etc. required for tower bolt/ baby latches, tadis, safety chains, aldrops etc including fixing the frame to brickwork/ concrete work with necessary PCCor bolted/ screwed to concrete work, painting a shop coat of polyurethane paint including etching the surface with ETCH primer etc.</p>	rmt	1,317.96	900.00	11,86,164.00
	<p>including painting the exposed surfaces with two coats of synthetic enamel paint of approved make and colour over a coat of red oxide/ zinc chromate primer and painting the unexposed surfaces with two coats of anti corrosive bituminous paint, after rectifying the damaged PU primer due to transport including filling the hollows of door frame with C.C.1:2:4 using 12 mm size downgraded stone aggregate, curing, finishing etc. all complete as per drawings, specifications and as directed by Engineer in charge.</p> <p>Note: The quoted rate shall include cost of base tie / angle and all accessories mentioned in the item description except iron mongeries (i.e. fittings and fixtures with wood and machine/ self taped screws as required, which shall be measured and paid separately under relevant item.)</p> <p>Profile 90mm x 60 mm with single rebate for doors.</p>				
94	<p>Steel Fire Rated Doors with HMPS Steel Frames. Fire Resistant Door (FRD) assembly having 120 minutes (2 hr) Fire rating, Metallic and conforming to IS 3614:2021 (Single / Double leaf Shutter)</p> <p>Providing and fixing factory made Fire rated door assembly of galvanised Iron Steel door frame with mettalic single / double leaf door shutter with accessories, the entire door assembly including shutter, frame and fittings shall be conforming to 1200 minutes (2 hr) fire rating as per IS 3614.</p> <p>Frame:- The door frame shall be made of minimum 1.20 mm thick GI Sheet with minimum 120 GSM coating as per IS:277. The frame shall be of grooved profile of minimum size 90 × 60 mm with inbuilt sealing system to take appropriate fire rated smoke seal. Frame shall be provided with appropriate reinforcement suitable for hardware and flush fixing. Frames shall be provided with stiffener pieces and mitred cut joints (self tab/screwed assembled at site). Fire rated EPDM smoke seal, conforming to IS 3614 : 2021 shall be fixed within the inbuilt groove or stuck with adhesive on the entire perimeter of the frame.</p>	Sq.m	453.60	20,200.00	91,62,720.00

	<p>Door frames shall be fixed to all round the opening with minimum 8 mm dia CSK headed fastner of minimum 80 mm long with 8mm dia Polyamide sleeves @ 3 Nos at each side.</p> <p>Finishing: Frame to be factory finished with polyester powder coating of minimum thickness of 30 microns (500 hrs salt spray test) of approved colour and shade all complete as per manufacturer's Specification and direction of the engineer in charge.</p> <p>Door Shutter: The factory made fire resistant mettalic door leaf shall be minimum 60 mm thick fully flush double skin step design door, insulated with or without vision. Door leaf shall be manufactured from 1.2 mm (18guage) minimum thick galvanised steel sheet. The internal construction of the door should be rigid reinforcement pads for receiving appropriate hardware. The infill material shall not be less than be 120kg/m3 high density mineral wool insulation material. Intumescent seals 15 x 1.5mm to be provided. All ISI labelled doors shall be factory prepped for receiving appropriate hardware and provided with necessary reinforcement for hinges, locks, and door closers panic bar etc. The edges should be interlocked with a bending radius of 1.4mm. For pair of doors integrated astragals has to be provided on the meeting stile for both active and inactive leaf. Vision lite wherever applicable shall be maximum 200 x 450mm with clear borosilicate fire rated glass of 6mm. Glass shall be fixed with suitable gasket and with clip-on arrangement.</p> <p>The door leaf shall be factory finished with polyester powder coating of minimum thickness of 30 microns (500 hours of salt spray test) of approved colour and shade all complete as per manufacture's Specification and as per the directions of Engineer - in- charge.</p>				
	<p>Accessories Hardware: Fire doorset shall include all accessories like, Fire rated SS 304 grade ball bearing type hinges of minimum size 100 mm ×75 mm × 3 mm one (3 numbers per leaf upto 2100 mm height or as per test evidence), one number fire rated SS mortise lock with handle, fire rated door closer</p> <p>Installation: Post installation hollow space within door frame shall be filled with fire rated self-extinguishing type polyurethane foam. Rate shall include for supply and installation of complete door assembly, by the manufacturer. (All mechanical and functional hardware like hinges, lever handles, door closers with 120 minutes fire rating are to be used on doors and must conform to relevant IS 3614 : 2021.</p> <p>all as per manufacturer's specification and providing Fire Resistant certification (manufacturing & installation) as required by local fire statutory authority shall be furnished by manufacturer of Door assembly (Frame, Shutter, fitting) and all cutting/ planning if necessary, labour for fixing the fittings and fixtures with suitable packing if necessary including providing and fixing 120 minutes (2 hr) fire rated approved powder coated steel door set etc. all complete all as per specifications, drawings & as directed by Engineer in charge.</p>				
95	<p>Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge.</p>	SQM	1.00	4,500.00	4,500.00
96	<p>Providing and fixing aluminium die cast body tubular type universal hydraulic door closer of approved make conforming to IS: 3564 with ISI mark including necessary accessories and screws etc for fixing with alumnium/ wooden/ steel doors with necessary bolts & nuts, labour, scaffolding etc complete all as per specifications and as directed by the Engineer-in-charge.</p>	NOS	207.00	1,250.00	2,58,750.00

97	Providing, fixing & Supplying at site of work approved quality and manufacturer, confirmed & marked with relevant IS (wherever applicable), Stainless steel (SS-304) fittings, fixtures and fastenings along with Stainless steel screws/concealed SS screws, bolts, nuts, washers, wooden packing pieces if necessary etc. and other accessories etc complete all as per specifications and as directed by the Engineer-in-Charge. SS But hinges (Heavy Weight) of size (100 X 75 X 3.0 mm) , ball bearing type, (Two / Three leaf Hinges)	NOS	621.00	220.00	1,36,620.00
98	Providing, fixing & Supplying at site of work approved quality and manufacturer, confirmed & marked with relevant IS (wherever applicable), Stainless steel (SS-304) fittings, fixtures and fastenings along with Stainless steel screws/concealed SS screws, bolts, nuts, washers, wooden packing pieces if necessary etc. and other accessories etc complete all as per specifications and as directed by the Engineer-in-Charge. S. S. Tower bolt 300 mm long x 12 mm barrel	NOS	381.00	330.00	1,25,730.00
99	Providing, supplying, fixing approved make back to back stainless steel Handle-450 mm long (Set including a pair of handles), of minimum 25 mm dia, including accessories for fixing it to glass, aluminium, wood shutter, brackets etc. complete as directed by EIC. (Note:- Cost is for one set consists of two nos of handles to fix on shutter both side (Inside & Outside))	NOS	174.00	3,400.00	5,91,600.00
100	GRAB HANDLE FOR ADA TOILETS: Providing & fixing 25 mm diameter (1.5mm thick) SS 304 satin (brush) finish Grab handle for disabled toilet door of 600mm long of approved make with necessary SS 304 grade screws etc. complete as per drawing as sample approved by Engineer-in-charge	NOS	18.00	1,000.00	18,000.00
101	Providing & Fixing 6- lever Mortice lock of chromium plated SS-304 parts & body of approved brand & make, 200 mm Mortice latch & lock (without Handle Set) Lock Body CK mortice lock with chromium plated SS screws, with duplicate keys etc. lock shall be fitted as per manufacturer specification and as directed by Engineer in charge.	NOS	10.00	600.00	6,000.00
102	Providing and fixing Mortise shaft dead bolt with key (Alen Key lock) with 57mm backset and 25mm square forend in stainless steel satin finish of approved make including all labour, material etc complete all as per specifications and as directed by the Engineer-in-Charge.	NOS	207.00	400.00	82,800.00
103	Providing, supplying, fixing glass to glass 6 lever SS patch lock (Round type) of approved make on glass for doors complete as per drawing. Frameless Swing Doors (Patch Fitting Doors)	NOS	1.00	750.00	750.00
104	Providing and fixing double action hydraulic floor spring of approved brand and manufacture having ISI mark as IS : 6315, having brand logo embossed on the body / plate with double spring mechanism for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and having minimum 1.25 mm thickness stainless steel cover plates with brass pivot and single piece M.S. sheet outer box with slide plate, and other accessories required for the works to facilitate smooth operation of the door shutter etc complete all as per specifications and as directed by the Engineer-in-charge.	NOS	1.00	4,350.00	4,350.00

105	<p>Sliding Windows: Providing, supply, fabrication, installing, fixing, testing, cleaning, protection and handing over the Sliding window system, at all levels, locations, floors as per approved drawings including all labour, material, wastage, transportation, fixing in position, scaffolding etc complete all as per specifications, drawings and as directed by the Engineer-in-Charge.</p> <p>The Sliding Window system shall with stand the wind pressure of confirming to IS -875 part III. The sliding window system shall have SS-304 grade mesh Net shutter panel, drainage gutter profile at bottom track, wool pile with film for weather protection and complete sir sealing. The shutter engagement shall be minimum of 15 mm at top and bottom track to ensure stability under deflection of vertical mullions. Including providing & fixing ball bearing rollers smooth movement of shutters, flush type lock with manual opeartion, microwave cured EPDM gasket, non staining weather sealant, SS-304 grade pan head screws etc complete.</p>				
105.1	<p>Supplying and fixing in position at all floors, levels & locations, aluminium section [extruded] for aluminium sliding windows sliding as per drawing of approved manufactures with extruded sections of Jindal / Indal / Aluminax or other approved equivalent sections with size and weights as shown in the drawing, for frames and shutters [including wastages if any] conforming to relevant I.S specifications, with all approved shade & colour anodised aluminium fittings and accessories, locking arrangements, 2 / 3 rollers with ball bearings for sliding shutters of approved quality all as shown in the drawing, including providing and fixing aluminium channel beading / glazing clips fixed with necessary matching anodised screws, grouting the gap with thermocole & polysulphide sealant etc. all complete generally as per drawings, specifications etc., all as directed by Engineer in charge, but excluding the cost of glazing, which will be paid separately. (The aluminium system consist of the extruded aluminium sections of alloy 6063 T5/T6 & tolerances confirming to DIN / EN standards from approved make and manufacturer.The aluminium sections shall have approved shade and colour super durable powder coating with minimum 50 micron thickness. The non visible aluminium sections shall have approved chromatizing treatment. {The weight of extruded aluminium sections only will be mesured for payment}). The quoted rate shall be inclusive for providing & fixing built in handle with locking nib/hook, dummy handle, SS locking closure plate (on frame), adjustable single roller, nylon roller, shutter end PVC cap, anti dust plugs, screw hole cap, drain cap, wool pile etc of approved make and design as per drawings.</p>	KG	30.00	620.00	18,600.00
105.2	<p>Providing and fixing following type of approved quality glass panes for aluminium sliding windows, of approved manufacturer and fixing with aluminium frame work including providing and fixing with 2 way EPDM gasketing , to ensure water and air tightness and neoprene cushions/ gasket accommodated in grooves, necessary SS-304 screws etc all complete generally as per drawings specifications and as directed by the Engineer-in-charge.</p> <p>Note:- Only clear opening of glass shall be measured for payment. (6 mm thick Single Glass Unit (SGU) using heat strengthened (HS) clear float glass of M/s. Saint Gobain ET/ST series or approved equivalent)</p>	Sqm	10.00	1,847.46	18,474.58
SUB TOTAL					2,66,89,158.58

Railing					
106	Providing & fixing stainless steel work for pipe hand rail at staircase, Entrance Ramp and other stainless works such as spool pieces, pipe sleeves etc, at all floors, levels & location conforming to SS-304 grade of steel preferably schedule-10, using SS pipe in horizontal at top, vertical, inclined including solid pipes as per drawing or as per pattern & design approved by EIC and including necessary S.S bend, tees, Embedded plates, nuts, SS bolt,necessary welding, anchoring with SS anchor fastner of M/s Hilti, grinding, buffing, polishing and fixing in concrete / wall with S.S lugs, making pockets, concreting, making good the surfaces etc. as per specifications, drawings and as directed by Engineer-in-Charge. (Note:- For payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	KG	17,289.41	650.00	1,12,38,116.50
107	Frameless Glass Railing				
	Design, Fabrication, Supply, Installation, Testing, Protection, Cleaning & Handover 1200mm height glass (Above RCC) Railing designed to with stand the wind pressure confirming IS 875 Part III and Live load of 105 Kg/ m uniformly distributed load as per IS 875 Part II.				
	The system shall be support the glass at bottom continuous U-channel fixed on the finished floor level and vertical glass to glass open joint with top Alum. Rail. 100mm Min. Glass In-built in the U-Channel. The weather sealant of approved make, baker rod, SS 316 grade fasteners & hard setting blocks of EPDM, all in complete required to perform as per specification and drawing in conjunction with BOQ. Complete system shall be warranted for minimum 10 yrs against design & workmanship defects.				
	The extruded aluminium sections of Alloy 6063 T5 / T6 & tolerances confirming to DIN / EN standard from approved extruder. All visible surfaces shall have Anodized finish with minimum 22 micron.				
	All Material Make / Vendor list / Supplier list shall be as per tender specification.				
	All shade approval shall be as per Architect's Approval.				
	The quote rate shall include all design & shop drawing approval from architect & consultant.				
107.1	Quote rate for complete system as mentioned above under (C). Including glass For Straight Railing.				
	RAILING GLASS : 17.52mm Laminated glass (8 mm Clear HS Glass + 1.52mm thk SGP Kuraray Lamination + 8mm thk Clear HS Glass)	Sqm	1,172.00	12,500.00	1,46,50,000.00
107.2	Quote rate for complete system as mentioned above under (C). Including glass For Curved Railing.				
	RAILING GLASS : 17.52mm Laminated glass (8 mm Clear HS Glass + 1.52mm thk SGP Kuraray Lamination + 8mm thk Clear HS Glass)	Sqm	145.00	28,000.00	40,60,000.00

108	Fabricating, supply and erecting in position Standard Structural steel sections conforming to IS 2062 for all structural steel works using ISMB, ISA, ISMC, MS plate, flat, square bars, pipe, square pipe ,etc. including welding, cutting, wastage, etc. complete. The rate is inclusive of welding road, supply & fixing of correct size nut, bolts, washers, paint, with all contractor's materials, labour, tools & plants, in bolted / welded construction as directed by Engineer-in-Charge. Anticorrosive paint must be applied before applied any paint. The rate shall inclusive of providing and applying Epoxy Coating of approved shade, brand and manufacture on new structural steel work with one coat of 30 micron (DFT) of Epilux 4 Zinc Rich primer of Berger Paint India Ltd or equivalent as primer and Two coat each of 35 micron (DFT) of Epilux 84 High Gloss CR enamel of Berger Paint India Ltd or equivalent at all levels. (Total DFT is 30+35+35=100 microns). The waste cut pieces shall not be included in the paying quantity. The work shall be done as per drawing and specification. The work shall be carried out as per IS:800, IS:816 with its latest amendments.	KG	30,000.00	117.35	35,20,500.00
SUB TOTAL					3,34,68,616.50
Façade					
109	Sleek Curtain wall system With Fins At (Ground To Second Floor)				
	Design, Fabrication, Supply, Installation, Testing, protection, cleaning & handover of Conventional toggle curtainwall Sleek Blick / Lilli / Reynaers & VS1 system designed to withstand the wind pressure of confirming to IS-875 part III. (The system must pass the proof test at 1.5 times the design wind pressure without any failure). The profile system is based on capped curtainwall design and glass is held all around by mechanical pressure plate and cap with microwave cured EPDM gaskets in all four sides of glazing, with necessary brackets of Aluminium alloy of 6005 T5 / MS with HDG with three dimensional adjustment with serrations and serrated washers to arrest the wind load movement, Anchor Fasteners, screws and fasteners with non staining weather sealant and Aluminium flashing sealed all around parameter inside and outside to seal the gaps between curtain wall and the building structure all complete required to perform as per specification and drawing in conjunction with BOQ.				
	The system design shall be based on Open joint system & design shall include pressure equalization with minimum 2 barrier gaskets for improved weather performance, drainage at all floor levels, spandrel panel shall have pressure release slots on vertical side of profile system to avoid condensation. Transom shall be overlap with mullion to have proper drainage to mullion. The design to accommodate building movements, thermal expansions & the seismic movements. The system shall be designed considering surface temperatures of 80-90 deg Cel & temperature differential of 25 deg cel without creating excess stress in the system. All metal joints in the wet area shall be small joint sealant applied to ensure water tightness.				
	The system shall be designed of floor height units spanning between the floors with Dead load & wind load brackets with provision to accommodate movement at all floor levels and at every grid panel horizontally. The system shall lbe designed to accommodate vision/spandrel panel. The system shall accommodate an openable panel as per the architectural requirements in the system. All fixed vision glass and openable shall look similar in the elevation. Aluminium Edge Guard with black Anodised shall be fixed at all vertical & Horizontal grooves. Each glass panel shall be supported for dead load at the bottom of the glass with black anodised glass retainers, two per panel.				

	Flashing / Trim / Floor Closure at Parapet level, floor level, beam bottom level and required flashings shall be provided continuously with the required GI / Aluminium sheet. Internal & External cancelled Flashings shall be 1.0mm thick GI sheet. All exposed flashing shall be 1.5mm thick. Aluminium sheet with SDF coated, matching with external Aluminium profiles.				
	The extruded aluminium sections of Alloy 6063 T5 / T6 & tolerances confirming to DIN / EN standard from an approved extruder. All the visible surfaces shall have high Durability (Akzonobel) / Super durable (Jotun) Powder coating of 60 - 80 micron confirming to AAMA 2604. The non-visible aluminium surfaces shall have a minimum chromating treatment.				
	All Material Make / Vendor list / Supplier list shall be as per tender specification. .				
	All shade approval shall be as per Architect's Approval.				
	The quote rate shall include all design & shop drawing approval from architect & consultant.				
a.1	Sleek Curtain wall system				
	Quote rate for complete system as mentioned above under (A)	Sqm	9,856.87	11,000.00	10,84,25,570.00
a.1.1	Vision Glass Straight: 19mm Thk. Sentry laminated glass providing & fixing the vision glass on the system				
	8mm Thk. Clear HS Glass +3mm PVB Lamination + 8mm Thk.Reflective ET Series HS Glass (As per Client / Architect Approval sample)	Sqm	7,356.00	4,500.00	3,31,02,000.00
a.1.2	Vision Glass Curved : 19mm Thk. Laminated Glass Providing & fixing the vision glass on the system				
	8mm Thk. Clear HS Glass + 3mm PVB Lamination + 8mm Thk.Reflective ET Series HS Glass (As per Client / Architect Approval sample)	Sqm	2,241.00	11,000.00	2,46,51,000.00
a.2	Operable vent : Extra over a.1				
	Providing and fixing Top Hung Open Out (operable) vent accessories with heavy-duty self-balancing stainless steel friction hinges with provision to hold open at 250 mm. Vent locking accessories with a cremone lock and handle with a 6-point locking mechanism to keep the vent weather-tight. The vent shall comprise of Aluminium outer frame with drainage provisions and crimped corners, and a shutter frame with Euro grooves and crimped corners; all joints shall be sealed with small joint sealant. The outer frame is fixed to the unitised profile system with necessary SS screws and weather sealant applied at the outside and inside of the profile duly Super Durable Powder coating finish of 60-80 micron thickness as per the approved shade by the Architect. The stepped glass design vent shall have ceramic frit in black / colour to match the glass at the portion of the stepped unit in case of high light transmission glass to reduce banding effect in the glazing.	Sqm	216.00	6,500.00	14,04,000.00
SUB TOTAL					16,75,82,570.00
MISCELLANEOUS					
110	Providing and fixing 5mm thick various size of glass mirror on wall over 6mm thick plywood or plastic fibre base, round up mirror edge and corner from the approved make as per selection of architect and engineer in charge having basic rate as following - (Basic sqmt rate: 1940 Rs.) (This item shall be procured / provided from selection as per approved make list, data sheet and technical specifications.) (Selection as per soft furniture data sheet)	Sqm	105.46	4,496.00	4,74,148.16

111	Providing and fixing at all levels, locations and at all floors, 50 mm thick Reinforced precast Jali in C.C 1:2:4 of approved pattern, design and shape including pointing and proper joining of junctions with ready mix cement mortar including all formwork, reinforcement, finishing the surface, curing, scaffolding, hoisting, erecting & fixing in position etc complete all as per specifications and as directed by EIC.	Sqm	705.08	1,600.00	11,28,128.00
112	Providing and installing the speed breaker of PVC material with size of 250x350x50mm and/or 250x450x60mm on the cement concrete surface of the road with labour and all the necessary accessories, hexacore design, oil resistance, chemical resistance, water resistance, UV stabilized, non fading colors, with reflector tape.	NOS	15.00	1,568.53	23,527.95
113	Providing and fixing shock absorbing rubber corner guard having size 115x115mm, height 1000mm and thickness 10mm, manufactured from flexible high strength rubber, embedded with highly reflective weather resistance reflective material, tamper resistant, with black base and tape color options in yellow, white and lime.	Nos	233.00	569.00	1,32,577.00
114	Road marking with hot applied thermoplastic paints with reflectorising glass beads on bitumen surface providing and laying a hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250gms per sqm area, thickness of 2.5mm is excluding of surface applied glass beds as per IRC:35-2015. The finished surface to be level, uniform and free from streaks and holes. zebra patta /bump patta lane/center line/ edge line/cut patta. The white color marking should provide luminance coefficient on cement road shall be min 130 mcd/m2/lux and Asphalt road shall be min 100 mcd/m2/lux during the service life during the day time. The marking should meet the performance criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section-15 of IRC 35-2015. Warranty for the Retro reflectivity should be two years.	Sqm	417.30	307.38	1,28,269.67
115	Providing and installing outdoor convex mirror of size 600mm diameter, 130 degree viewing angle, polycarbonate construction, vandal resistant with and without MS pole.	NOS	8.00	4,242.00	33,936.00
116	Supply, Installation, Testing, Commissioning of- Electromechanical boom barrier with a 3-meter boom arm for car and 1.5mtr boom arm for bike lane, And a 0.6-second opening/closing time. Key features include a corrosion-resistant powder-coated cabinet, die-cast aluminium motor with thermal radiating and cooling fan, and 100% duty cycle with an MTBF of 10 million cycles. Safety features include manual release, obstacle reversal, auto-closing, and support for external photocell and vehicle loop detectors. The system operates on 220V/110V at 50/60Hz, with IP54 protection, a motor torque of 300Nm, and a working temperature range of 0°C to 65°C.	NOS	8.00	1,77,750.90	14,22,007.20
117	Supply, Installation, Testing, Commissioning of-Portable Cabin for the pay booth will be a compact, mobile structure with dimensions of 6 feet length, 4 feet width, and 8 feet height. It will feature a robust MS square pipe frame, sliding aluminium powder-coated windows with tinted glass, and a rainwater protection guard. Insulated with 50mm glass wool for both the ceiling and side walls, the cabin will be electrically equipped with AC 220-240V fittings, including sockets, tube lights, and a wall fan. A wooden counter with locked drawers for storage will be included, along with safety features such as earthing and synthetic primer/epoxy paint finishes. The cabin will also have special lifting hooks, vinyl flooring, along with 1-ton Split Air Conditioning unit fitted (1075 Watt) and all necessary accessories for installation and commissioning.	Nos	2.00	2,84,143.50	5,68,287.00

118	Providing and fixing in Stainless steel Floor Mounted Dustbin with dimensions and design as per Architect selection, in SS 316, Dual bins with 50 liters each having Matt / Mirror Finish including required foundation, anchor bolts and fixing details etc. completed as directed by EIC. Including Minimum 2 mockups for approval complete as per instruction of engineer in charge.	NOS	25.00	15,208.00	3,80,200.00
119	<p>SS Support For Green Wall With SS String Design, Fabrication, Supply, Installation, Testing, Protection, Cleaning & Handover of SS 304 grade provision support for green wall as per design intent. The entire assembly shall be fixed on SS 304 grade Support grid as per design drawings. The brackets shall be SS 304 grade fixed to the building structure with necessary fasteners & anchor bolts in SS 316.</p> <p>Prefabricated grid SS 304 grade Support are fixed on to the RCC and concrete masonry walls with SS 316 anchor bolts as recommended by approved supplier to support given design loads. The brackets shall have provision movement to accommodate the construction tolerances with + 35mm plumb in case of RCC structure and + 20mm plumb in case of steel structure.</p> <p>Provision main SS 304 grade support for vertical Garden system shall be installed in line with drawing.</p> <p>All Material Make - Jacob.</p> <p>All shade approval shall be as per Architect's & EIC Approval.</p> <p>The quote rate shall include all design, engineering & shop drawing approval from architect, consultant & EIC.</p>				
119.1	Rate as mentioned above under above item With 4mm thick. SS 304 grade String Vertical & Horizontal 900 c/c or as mentioned in drawings.	RMT	10,500.00	400.00	42,00,000.00
120	<p>Entry Exit Totem Providing and fixing at location a signs I sign -display signage with 100 mm depth Aluminium extrusion Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with Premium grade Anodizing (Thickness 15- 20 microns) Flatness & Twist of profile within 1.5 mm / meter length, with 10 years warranty under normal working conditions. Media accomodation depth of 8 mm avialble for pasting on dual lock or strong two way adhesive. M.S fabrication slot of 65 mm depth for internal M.S structure.Media upto 6 mm thickness can be pasted or mounted with help of dual lock tape .assembled totem can be edge lite with help of edge lite modules or back lite with help of back lite modules.CosignTotem profiles screwed fixed with internal M.S structure are installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge. Graphics to be done using printed retro reflective material.</p> <p>Size - 750mm * 1800mm * 100mm</p> <p>Mounting Type - Ground/RCC</p> <p>Signage - Lite/Nonlite (As per approved drawing)</p>	NOS	2.00	97,750.00	1,95,500.00

121	<p>Speed Limit/Info sign Providing and fixing at location a sign using Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminiumhomogeneous billet) with Premium grade Anodizing (Thickness 15-20 microns) International standards, with10 years warranty under normal working conditions. Silver anodised aluminium 80 x 80 mm outer size (octagonal shaped) cover list anodised profile to hide screw fittings of pole and M.S structure . M.S structure of 'C' channel made by joining two 'L' angles 35x35x3 mm Pole to be screw fitted into fabrication, actthted to with 50mm depth aluminium frame for media signage mounting , with media accomodation depth of 6mm , frame screw fitted at multiple position along vertical and horizontal side facing the octagonal pole. (size as per drawing) with in built slots to accomodate media (ACP,ACRYLIC,PLY etc) cover list profile used to specify left out below portion for display installed with fixbox aluminium component provided with system for Text panel fixing with pole sign to be installedat site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge. Graphics to be done using printed retro reflective material. Size - 460mm * 600mm (Frame) * 2400mm Pole Height Mounting Type - Ground/RCC Signage - Lite/Nonlite (As per approved drawing)</p>	NOS	2.00	28,750.00	57,500.00
122	<p>Parking Suspended Signs Providing a signs made as using Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with Premium grade Anodizing (Thickness 15-20 microns) as per International standards, with 10 years warranty under normal working conditions.Sign is double sided 50 mm depth profile with media accomodation depth of 6 mm media of ACP acrylic upto 3 mm thickness can be pasted directly on frames or attched on frame with help of dual lock tape.Sign can be edge lite with help of edge lite led modules ,led of LUCOLED make EL31 ,Sign to be fitted and installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge. Graphics to be done using printed retro reflective material. Size - 1200mm * 300mm * 50mm Mounting Type - Ceiling Suspended Signage - Lite/Nonlite (As per approved drawing)</p>	NOS	5.00	21,965.00	1,09,825.00

123	<p>Door Nameplate Sign Providing a signs made as using Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with Premium grade Anodizing (Thickness 15-20 microns) as per International standards, with 10 years warranty under normal working conditions.Sign is single sided with 1 aluminium profile click fitted on 2 plastic moulded endcaps.Sign is including all plastic injection moulded end caps black in shade which are directly press fitted ,media can be flat bed UV printed on panels/ profiles.Cosign make MPI panels fitted and installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge. Graphics to be done using printed retro reflective material. Size - 300mm * 156mm * 12mm Mounting Type - Door/Wall Signage - Nonlite</p>	NOS	20.00	776.25	15,525.00
124	<p>Building Directory Sign Providing a signs made as using Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with Premium grade Anodizing (Thickness 15-20 microns) as per International standards, with 10 years warranty under normal working conditions.Sign is single sided with aluminium side tracks and common click clips for panel fitting. a.Sign is including all plastic injection moulded clips black in shade which are slided in side tracks ,media can be flat bed UV printed on panels/ profiles.Cosign make MPI panels fitted and installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge. Size - As per Drawing Mounting Type - Wall Signage - Nonlite</p>	Sqft	9.00	2,070.00	18,630.00
125	<p>Floor Directory Sign Providing a signs made as using Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with Premium grade Anodizing (Thickness 15-20 microns) as per International standards, with 10 years warranty under normal working conditions.Sign is single sided with aluminium side tracks and common click clips for panel fitting. a.Sign is including all plastic injection moulded clips black in shade which are slided in side tracks ,media can be flat bed UV printed on panels/ profiles.Cosign make MPI panels fitted and installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge. Size - As per Drawing Mounting Type - Wall Signage - Nonlite</p>	Sqft	30.00	2,070.00	62,100.00

126	<p>Staricase ID Sign</p> <p>Providing a signs made as using Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with Premium grade Anodizing (Thickness 15-20 microns) as per International standards, with 10 years warranty under normal working conditions. Sign is single sided with 1 aluminium profile click fitted on 2 plastic moulded endcaps. Sign is including all plastic injection moulded end caps black in shade which are directly press fitted ,media can be flat bed UV printed on panels/ profiles. Cosign make MPI panels fitted and installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge.</p> <p>Size - 300mm * 156mm * 12mm Mounting Type - Door/Wall Signage - Nonlite</p>	NOS	18.00	776.25	13,972.50
127	<p>Washroom Sign</p> <p>Providing a signs made as using Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with Premium grade Anodizing (Thickness 15-20 microns) as per International standards, with 10 years warranty under normal working conditions. Sign is single sided with 1 aluminium profile click fitted on 2 plastic moulded endcaps. Sign is including all plastic injection moulded end caps black in shade which are directly press fitted ,media can be flat bed UV printed on panels/ profiles. Cosign make MPI panels fitted and installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge. Graphics to be done using printed retro reflective material.</p> <p>Size - 200mm * 156mm * 12mm Mounting Type - Wall/Door Signage - Nonlite</p>	NOS	72.00	592.25	42,642.00
128	<p>Duct Sign</p> <p>Providing a signs made as using Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with Premium grade Anodizing (Thickness 15-20 microns) as per International standards, with 10 years warranty under normal working conditions. Sign is single sided with 1 aluminium profile click fitted on 2 plastic moulded endcaps. Sign is including all plastic injection moulded end caps black in shade which are directly press fitted ,media can be flat bed UV printed on panels/ profiles. Cosign make MPI panels fitted and installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge.</p> <p>Size - 156mm * 156mm * 12mm Mounting Type - Wall/Door Signage - Nonlite</p>	NOS	180.00	476.10	85,698.00

129	<p>Lift Number Sign</p> <p>Providing a signs made as using Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with Premium grade Anodizing (Thickness 15-20 microns) as per International standards, with 10 years warranty under normal working conditions. Sign is single sided with 1 aluminium profile click fitted on 2 plastic moulded endcaps. Sign is including all plastic injection moulded end caps black in shade which are directly press fitted ,media can be flat bed UV printed on panels/ profiles. Cosign make MPI panels fitted and installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge. Graphics to be done using printed retro reflective material.</p> <p>Size - 200mm * 156mm * 12mm Mounting Type - Wall/Door Signage - Nonlite</p>	NOS	60.00	592.25	35,535.00
130	<p>Lift in case of fire use stair</p> <p>Providing sign of Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with premium grade anodizing (Thickness 15-20 microns) as peinternational standards, with 10 years warranty under normal working conditions. Profile to form frame with overall depth of 10 mm with media of thickness upto 3mm. 2 mm thick acrylic/ACP . I-sign Fix profile of Cosign make with M.S zinc coated corners with grub screws. Installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge. Graphics to be done using printed auto glow material.</p> <p>Size - 250mm * 150mm * 10mm Mounting Type - Wall Signage - Photoluminescent</p>	NOS	48.00	807.30	38,750.40
131	<p>Fire extinguisher Sign</p> <p>Providing sign of Modular Aluminium extrusions (Alloy 6060 as per European standards EN755-2-2008 tensile strength 190 MPa typical BHN is 70 from virgin aluminium homogeneous billet) with premium grade anodizing (Thickness 15-20 microns) as peinternational standards, with 10 years warranty under normal working conditions. Profile to form frame with overall depth of 10 mm with media of thickness upto 3mm. 2 mm thick acrylic/ACP . I-sign Fix profile of Cosign make with M.S zinc coated corners with grub screws. Installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge. Graphics to be done using printed auto glow material.</p> <p>Size - 300mm * 150mm * 10mm Mounting Type - Wall Signage - Photoluminescent</p>	NOS	100.00	917.70	91,770.00

132	<p>Emergency Exit Sign</p> <p>Providing ready sign & fixing at location a Cosign make emergency exit sign- illuminated, surface mount (wall or ceiling) Dual sided made up of plastic material , battery backup of 3 hours (180 mins) .Battery life of 300 cycles of charge & discharge Li- ion battery 3.7 Volt, 100 mA, Charge time of 24 hours. Input voltage 220-240 Volt A.C, 50/60 Hz. Viewing distance 30 meter, degree of protection IP20 (rating for protection against solid object upto 12 mm) white light colour full back (white colour) LED illumination with green white coloured graphic inserted on both sides on 0.4 mm PC (sizes, texts, symbols or graphics as per standard safety norms & regulations) graphic options of - left ,right, up staircase down staircase. Test facility button self test plus auto self test, operation in maintained and non maintained mode (power saver mode).Sign with 12 months warranty for electric circuit & 6 months warranty for battery. Sign provided with dual mounting arrangement of mounting on wall & celing both (with flat rigid support/base).Sign is including all connection wires (upto 1 mtr) & high tensile strength zinc coated self tapering screws (4 nos with screw wall plastic packing), installed at site in plumb and level at specified location as per drawing to the satisfaction of the engineer-in-charge.</p> <p>Size - 310mm * 225mm * 55mm Mounting Type - Ceiling Signage - Lite</p>	NOS	15.00	3,783.50	56,752.50
133	<p>Providing & fixing in position heavy quality FRP bucket (UV resistant) of below mentioned size, at all floors, levels & location having approved colour & shade, including labour, material, fixing arrangements, screw, washer, scaffolding etc complete all as per specifications, drawings & as directed by the Engineer-in-Charge.</p>				
133.1	<p>1200mm L x 400mm B x 600 mm H, wall thickness minimum 4 mm.</p>	NOS	435.00	8,237.29	35,83,220.34
134	<p>Aluminium Louvers (Box Type Louvers) System: Providing, supply, fabrication, installing, fixing, testing, cleaning, protection and handing over the Aluminium box type louvers system, at all levels, locations, floors as per approved drawings including all labour, material, wastage, transportation, fixing in position, scaffolding etc complete all as per specifications, drawings and as directed by the Engineer-in-Charge.</p> <p>The Aluminium box type louver system shall with stand the wind pressure of confirming to IS -875 part III. The Aluminium box type louver system shall have louvers of size 100 mm X 50 mm X 2 mm thickness vertical box louvers at 100 mm c/c. Including providing & fixing Aluminium frame to support aluminium louvers, Louver profile shall be fixed at an angle (as per drawing) to form a frame, necessary MS brackets with SS-316 fastners, EPDM gasket, non staining weather sealant, SS-304 grade pan head screws etc complete.</p>				
134.1	<p>Supplying and fixing in position at all floors, levels & locations, aluminium section [extruded] for aluminium box type louver system as per drawing of approved manufactures with extruded sections of Jindal / Indal / Aluminax or other approved equivalent sections with size and weights as shown in the drawing [including wastages if any] conforming to relevant I.S specifications, including grouting the gap with thermocole & polysulphide sealant, providing & fixing MS brackets etc. all complete generally as per drawings, specifications etc., all as directed by Engineer in charge. (The aluminium system consist of the extruded aluminium sections of alloy 6063 T5/T6 & tolerances confirming to DIN / EN standards from approved make and manufacturer. The aluminium sections shall have approved shade and colour super durable powder coating with minimum 50 micron thickness. The non visible aluminium sections shall have approved chromatizing treatment. {The weight of extruded aluminium sections only will be mesured for payment}).</p>	KG	5,520.00	450.00	24,84,000.00

135	<p>Providing, supply, fabrication, installing, fixing, testing, cleaning, protection and handing over the Aluminium (Z-Type) louvers system, at all floors, levels & locations, aluminium section [extruded] for aluminium Z type louver system as per drawing of approved manufactures with extruded sections of Jindal / Indal / Aluminax or other approved equivalent sections with size and weights as shown in the drawing [including wastages if any] conforming to relevant I.S specifications, including grouting the gap with thermocole & polysulphide sealant, providing & fixing MS brackets etc. all complete generally as per drawings, specifications etc., all as directed by Engineer in charge. (The aluminium system consist of the extruded aluminium sections of alloy 6063 T5/T6 & tolerances confirming to DIN / EN standards from approved make and manufacturer. The aluminium sections shall have approved shade and colour super durable powder coating with minimum 50 micron thickness. The non visible aluminium sections shall have approved chromatizing treatment. {The weight of extruded aluminium sections only will be mesured for payment}).</p> <p>The Aluminium Z type louver system shall with stand the wind pressure of confirming to IS -875 part III. The Aluminium Z type louver system shall have louvers of size as per drawing and thickness of Z shape louvers, fixed at fixed distance (as per drwing) to alumnium frame, louver profile to be fixed on 3 mm thick aluminium flat to form a frame, the louver frame is supported on the aluminium box frame including providing & fixing SS-316 fastners, necessary MS brackets with SS-316 fastners, EPDM gasket, non staining weather sealant, SS-304 grade pan head screws etc complete.</p>	KG	7,619.69	450.00	34,28,860.50
136	<p>FOOD Kiosk Container – Providing, fabricating, supplying and installing in True line & level on specified level as per detailed drawings for Pre-fab Factory Made Portable Container type Food Kiosk Counter in Hot dip Galvanised Structural members and GI Sheet having size of 20' x 8' x 8' with following facilities inside of each compartment as per specifications:</p> <p>(1) Work table (Type 1) in one number of size 3910 x 600 x 925 mm or as per drawing and provision for 2 nos. under counter refrigerator to be made as per specification</p> <p>(2) Work table (Type 2) in one number of size 2340 x 600 x 925 mm or as per drawing and to be provided with 250mm height shelf under the counter top with SS supports & partitions.</p> <p>(3) 2 no's SS Sink unit & bottom pipe shelf as per drawing & 1 no SS pipe shelf mounted above sink unit on wall with SS 316; size: 1370x300 mm at 600mm from top of sink.The unit shall be fabricated with 3 openable shutter as shown in drawing.</p> <p>(4) All the preparation tables & sink tables should have 16 GA fabrication sheet at the top and the grade of steel used should be SS 316(Jindal Make).</p> <p>(5) Side wall ventilation (type-1) in one number of size 755 x 158 mm to be provided horizontally as per drawing. Unit to consist of 03 such vents separated by the structural frame of the container as indicated in drawings.</p> <p>(6) Side wall ventilation (type-2) in two numbers of size 755 x 158 mm with exhaust fan (outer size 158x158mm)of preferred make and model as per drawing.</p> <p>(7) Back wall ventilation (type -1) in three number of size 1175 x 158 mm to be provided horizontally as per drawing. Vents shall be provided from the center of the wall and separated by the structural frame of the container.</p> <p>(8) Back wall ventilation (type-2) in two numbers of size 1150 x 158 mm with exhaust fan (outer size 158 X 158 mm)of preferred make and model as per drawing. All vents to be provided from the centre of the wall separated by structural frame of the drawing. Each ventilation opening to have 50 mm wide MS plate frame projecting from the outer surface of the container on all 4 sides.</p>	NOS	12.00	17,50,000.00	2,10,00,000.00

	<p>(9) Two service windows with flap door of size 1360 x 1025 mm at the front longer side on container. Window sill to be at 925 mm height from the container floor finish level. Each window to be fitted with 900mm height flap shutter foldable to 500mm, where the 500 mm portion serves as a counter top when open and the remaining 400 mm folds back anchored to the container. Features include a 125 mm height perforated panel at the top, 03 hooks on the outside for counter anchoring, and 04 nos. hook and stopper for internal closing.</p> <p>(10) Main Door of size as per specification and drawing. Outside handle to be vertical D Type (minimum 450mm high and 25mm diameter) with the top fixed at 1200mm from the door bottom. Entry shall include 01 No. aldrop installed on the adjoining part and a door closer provided at a level of 900mm from the door bottom. Inside shall be provided with a mortise handle set with lever mortise lock (horizontal lock). Door must be fixed at a proper level to avoid obstruction while closing.</p> <p>(11) Flooring to be covered with PVC vinyl sheet with proper drainage for water.</p> <p>(12) Inner wall & ceiling shall be finished with Cement board including painting.</p> <p>(13) 1 no Waste Bin Trolley below Sink with size of 375mm dia & 650mm Height with wheels.</p> <p>(14) Three fans of 1200mm dia</p> <p>(15) Electrification: It is provided with 6 Nos. of LED light (15Watt) & 6 No. 25Amp. Switch & socket & on/off switch for commercial kitchen equipment, Points.</p> <p>(16) To be provided with 1 no of water tank (Sintex/equivalent Make) made of Plastic having capacity of 500 ltr. All welding joint should be TIG welded. The supplier should have manufacturing set up should be certified with EN-15085 and ISO 9001:2015 from a recognized third party agency.</p> <p>17) Supply and Fixing of mechanical foam type Fire Extinguisher conforming to IS 15683:2018 as per the required capacity of 6 liters to 9 liters.</p>				
	<p>Notes: 1) Contractor shall provide 10 years guarantee for container materials & facility inside material & accessories including 1 year defect liabilities period & 4-years M&R scope.</p> <p>2) Refer Container specifications attached in Specification Volume.</p> <p>3) Contractor shall connect all water supply and drainage services to the given point in external water and drainage network system as directed by EIC.</p> <p>4) All the ironmongery shall be as approved by architect.</p> <p>5) All structural members must be hot dip galvanised.</p> <p>6) All Furniture shall have edge banding</p> <p>7) All structural members shall be painted with 300-500 micron of Epoxy paint system with PU top coat of 50-60 micron as per manufacturer specification with 10 years guarantee.</p> <p>8) Container shall be fire proof & shock proof.</p>				
137	<p>Providing and fixing in position, at all levels & location, stainless steel (SS-304) Mosquito Net/ Wire Mesh/ Wire gauze made with 0.5 mm dia wire and 1.4 mm aperture (on both directions) including fixing, cutting, wastage, scaffolding etc. complete all as per specifications and as directed by the Engineer-in-Charge. Note:- 1) For aluminium work with aluminium beading channel. (Aluminium beading channel will be paid under relevant item).</p>	Sqm	21.00	957.00	20,097.00

138	<p>Supplying, providing, placing, installing and fixing in position in true line and level as per detail drawing approved by EIC, MODULAR TOILET PARTITIONS along with specified brand or approved equivalent of size as per detail drawings, Floor mounted including providing and fixing all accessories, fixtures, fastenings, hinges, anchorages, all hardware with approved locking arrangement as recommended by manufacturer and as approved by EIC etc. complete as directed, at all levels. Item description:</p> <p>Cubicle size - 900mm x 1550mm x 2100 mm (height is including 150 mm gap from bottom).</p> <p>Colour of Boards : As per the Shade card - approved by EIC. Thickness of Compact Sheet : 12mm (min.). Material: Compact Laminate in panels. Made from solid grade compact high-pressure laminate as per IS:2046 and EN438- manufactured under high specific pressure > 5 MPa and temperature 120° C with bunch of kraft papers impregnated with thermosetting phenolic resin and decorative papers made of cellulose fibre impregnated with thermosetting melamine resin which provide superior scratch, abrasion, heat, chemical, impact, graffiti & moisture resistance along with anti-bacterial properties. Panels have a black core that when machined, presents a distinctive black edge. Size of panels to be as per drawing.</p> <p>Door size - 1750 x 600(H X W)</p> <p>All doors will be of single colour and made of 12 mm thick HPL compact panel. The doors will have chamfered edges. Each door will be supported by 3 stainless steel made hinges affixed to the pilasters. Stainless steel made coat hook and Lock set (comprised of Thumb turn and occupancy indicator) are provided with each door. All the doors will be routed at the vertical ends and the rubber sponge lining will be incorporated at the routed ends.</p> <p>Pilaster dimension - 1830 x 300 (H X W).</p>	NOS	112.00	34,200.00	38,30,400.00
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	<p>All pilasters will be made of 12 mm thick HPL compact panel with chamfered edge and completed with stainless steel made thumb turn lock set. Pilasters will be anchored to the floor using stainless steel made adjustable legs. All pilasters will be routed at their vertical ends to facilitate closure of doors. The bottom gap is 150-100 mm. Dividers - 1775 x 1550 (H X W)</p> <p>All intermediate partitions or dividers will be made of 12 mm thick HPL compact laminate panels. They are affixed with stainless steel made U-channel at their ends for ultimate stability of the system. Hardware and Accessories Details : below mentioned all accessories – Stainless Steel - 304 Grade</p> <p>a) Adjustable Pedestal Footing of base diameter 60 mm made from Stainless steel grade 316 giving an adjustable height of 100mm to 150mm. Surface finish to be matt type. b) SS U -Channel c) SS F Channel d) SS Door Stopper Channel e) SS Top Rail with circular cross section (Diameter 32mm). Surface finish will be mirror type. f) SS Coat Hook with rubber stopper made from Stainless steel grade 304. Surface finish to be lacquer type. g) SS Privacy Thumb turn c/w Occupancy Indicator made from Stainless steel grade 304. Surface finish to be lacquer type. h) Round Door knob diameter 30 mm with grooves for better hand grip made from Stainless steel grade 304. Surface finish to be matt type. i) SS Spring Loaded Butt Hinges with Cover j) Anti-noise rubber padding of thickness 2 mm and width 10 mm k) Screws & Wall Plugs. Stainless steel grade 304 screws. l) Tubular panel holder made of stainless steel grade 304. Surface finish will be lacquer type. m) Corner joinery section made from Stainless steel grade 304. Surface finish to be brush type. A thin plastic film pasted for surface protection. Size to be 35mm x 16.4mm x 0.8 mm. n) Wall joinery section with hamming profile made from Stainless steel grade 304. Surface finish to be brush type. A thin plastic film is pasted for surface protection. Size to be 21mm x 16mm x 0.8 mm.</p>				
139	<p>Supplying, providing, placing, installing and fixing in position in true line and level as per detail drawing and approved EIC, Modular Toilet Urinal partition UMP along with specified brand or approved equivalent of size as per detail drawings, Colour of Boards : As per the Shade card - approved by EIC.</p> <p>Item description: The Urinary Panel has a 12 mm thick High Pressure Laminates (HPL) Compact Board, with a recommended panel width dimensions of 400-500 mm. The size of the panel is 500 mm (W-Top) X 400 mm (W-Bottom) X 1200 mm (H), with the overall height of 1200 mm. Final Size of Partitions : As per drawing given - shop drawings approved by EIC. Accessories Details : below mentioned all accessories – Stainless Steel - 304 Grade made 2 brackets used to fix each urinal panels to the walls.</p>	NOS	58.00	5,750.00	3,33,500.00

140	Supplying and fixing in position various dia GI pipe for sleeves, using 'B' class (medium duty) GI pipes of any diameter as per requirement and as per drawing for sleeves etc. including cutting, placing in position, bending, welding, in line and level, at all levels & location including painting with one coat of approved zinc chromate primer, scaffolding, labour, wastage etc. complete all as per specifications, drawings and as directed by the Engineer in charge	KG	2,000.00	165.00	3,30,000.00
141	Providing and fixing PVC rungs of Thickness 25mm, Length 170mm, Usage/Application Rungs, Stairs, Standards IS Features. Anchor type fixing at all levels as directed by EIC.	NOS	152.00	64.40	9,788.80
142	Providing, supplying, and fixing modular welded mesh fencing system of approved make comprising of galvanized MS wire mesh panels, pre-galvanized H-profile posts, anchors, and all necessary accessories, complete in all respects. Panel Material: Galvanised MS wire with min. 40 GSM coating and tensile strength > 65 kg/mm ² , Panel Coating: Pure Polyester Powder Coating (PPC), thickness > 65 microns, tested for 1000 hrs in salt spray (ASTM B117), Mesh Aperture Tolerance: ± 2 mm, Welding Specification: Electrical Resistance Welding, Weld strength of 4 random welds ≥ 50% of vertical wire tensile strength, Panel Width: 2500 mm, Post C-C Distance: 2515 mm, Post Type: Pre-galvanized MS, H-profile with 80 GSM zinc coating, Post Cap and Anchor Cap: PVC, Anchors: GI anchor bolts M12 × 150 mm, Fixings per Post: 6 fixings for Mini, Regular, Panel Size Options (as per site requirements): Mini: 1260 mm height, Post Lengths: 1300 mm Installation Details: Posts fixed using M12 × 150 mm anchor bolts over concrete/paved surfaces. Panels secured using anti-vandal tamper-proof fixings and brackets. Complete system installed plumb, aligned, and in straight lines as per site drawing/layout. Rate to include supply, transportation, all hardware (posts, panels, fasteners, caps, anchors), labour, equipment, layout marking, drilling, surface preparation, fixing, finishing, and disposal of debris, etc., complete as per manufacturer's specification and direction of Engineer-in-Charge.	RMT	115.50	3,800.00	4,38,900.00
143	Providing and fixing rolling shutters of approved make made of 80 mm wide M.S. laths inter-locked together through their entire length and jointed together at the ends by end locks mounted on specially designed pipe shaft with bracket plates, guide channels and arrangements for inside and outside locking with push-pull operation including the cost of hood cover and spring etc. complete.(A)Shutters having width below 3.5 M.	Sqm	8.82	3,468.72	30,594.11

144	<p>WALL MOUNTED LED - Outdoor</p> <p>The scope of work includes the design, supply, installation, testing, and commissioning of a wall-mounted digital screen. The exposed surface of the niche excluding the LED display area to be finished in ACP powder coated sheet with necessary ply backing. The work also involves necessary staging, testing of all functionalities, and commissioning to ensure full compliance requirements of Project-In-Charge (PIC).</p> <p>Finish Fascia: 3mm thick ACP sheet powder coated in black (RAL 9005) with 8mm thick commercial plywood backing WALL MOUNT DIGITAL SCREEN of mentioned size</p> <p>The video system shall consist of active indoor Direct LED based seamless large screen video wall system with front service access LED technology to reproduce excellent colors (up to 110% NTSC). Contrast ratio Minimum 4000 :1, color processing depth of 24 bit, viewing angle 160°±5 degrees (Horizontal & Vertical) . It will be necessary that the videowall along with controller can reproduce excellent color reproduction with HDR10 and HLG. The LED cabinet/modules to be enclosed with 10mm MS profile powder coated in RAL 9005 (black), LED pixel P3</p> <p>Adequate number of power/data cables and necessary controllers need to be considered by the vendor for internal looping. Installation of this screen will be on the wall, the fabrication of mounts/ installation etc. shall be in vendor's scope.</p>				
144.1	WALL MOUNT DIGITAL SCREEN 2M x 2.4M	Sqft	57.75	10,500.00	6,06,375.00
144.2	WALL MOUNT DIGITAL SCREEN 2M x 9M	Sqft	203.36	10,500.00	21,35,322.00
145	<p>WALL MOUNTED LED - Indoor</p> <p>The scope of work includes the design, supply, installation, testing, and commissioning of a wall-mounted digital screen. The exposed surface of the niche excluding the LED display area to be finished in ACP powder coated sheet with necessary ply backing. The work also involves necessary staging, testing of all functionalities, and commissioning to ensure full compliance requirements of Project-In-Charge (PIC).</p> <p>Finish Fascia: 3mm thick ACP sheet powder coated in black (RAL 9005) with 8mm thick commercial plywood backing WALL MOUNT DIGITAL SCREEN of mentioned size</p> <p>The video system shall consist of active indoor Direct LED based seamless large screen video wall system with front service access LED technology to reproduce excellent colors (up to 110% NTSC). Contrast ratio Minimum 4000 :1, color processing depth of 24 bit, viewing angle 160°±5 degrees (Horizontal & Vertical) . It will be necessary that the videowall along with controller can reproduce excellent color reproduction with HDR10 and HLG. The LED cabinet/modules to be enclosed with 10mm MS profile powder coated in RAL 9005 (black), LED pixel P3</p> <p>Adequate number of power/data cables and necessary controllers need to be considered by the vendor for internal looping. Installation of this screen will be on the wall, the fabrication of mounts/ installation etc. shall be in vendor's scope.</p>				
145.1	WALL MOUNT DIGITAL SCREEN 1.2M x 1.5M	Sqft	20.34	10,500.00	2,13,532.20

146	<p>Sanitary Napkin vending machine</p> <p>Supply and installation of a fully automatic electronic sanitary napkin vending machine fabricated from a durable stainless steel chassis with a powder-coated finish suitable for wall-mounted applications. The unit shall feature a storage capacity of 50 napkins and utilize a heavy-duty coin-operated mechanism designed to accept multiple denominations for immediate dispensing. The machine, with approximate dimensions of 50cm x 15cm x 30cm and a unit weight of 7kg, shall include an integrated electronic display for user instructions, a secure locking system for coin and stock protection, and a reinforced collection tray. The scope of work involves providing all necessary mounting hardware, wall fixings, and electrical connections to ensure a fully functional and secure installation.</p>	NOS	18.00	10,000.00	1,80,000.00
147	<p>Drinking water fountain</p> <p>Supply and installation of a wall-mounted drinking fountain manufactured from heavy-duty, corrosion and stain-resistant stainless steel suitable for indoor and outdoor environments. The unit shall feature a 280 mm (11.02") diameter basin with rounded safety edges, a 2.3 kg (5.1 lb.) chassis weight, and a push-button valve for single-finger operation. The installation includes the secure mounting of the 224 mm H x 323 mm W x 356 mm D (8.8" H x 12.7" W x 14" D) unit to the wall structure to ensure a total weight capacity of 45 kg (100 lbs). Work is to be complete with the provision and connection of all necessary plumbing attachments, internal fittings, and hardware required for a fully operational water dispensing system.</p>	NOS	54.00	46,000.00	24,84,000.00
148	<p>60L open top dustbin stainless steel silver 14x24 inch</p> <p>Supply and placement of a heavy-duty, cylindrical open-top dustbin fabricated from 0.5 mm thick SS202 grade stainless steel with a polished silver finish. The unit shall have a storage capacity of 70 liters and measure approximately 355.6 mm in diameter by 609.6 mm in height (14x24 inch). The design shall feature a reinforced swing-open top for hygienic waste disposal and a durable body suitable for high-traffic indoor and outdoor environments. The scope of work includes the delivery of the finished product to the site, ensuring all units are provided with compatible internal liners and ready for immediate operational use.</p>	Nos	36.00	2,300.00	82,800.00
149	<p>35L open top dustbin stainless steel silver 10x28 inch</p> <p>Supply and placement of a heavy-duty, cylindrical open-top dustbin fabricated from 0.5 mm thick SS202 grade stainless steel with a polished silver finish. The unit shall have a storage capacity of 35 liters and measure approximately 254 mm in diameter by 711.2 mm in height (10x28 inch). The design shall feature a reinforced swing-open top for hygienic waste disposal and a durable body suitable for high-traffic indoor and outdoor environments. The scope of work includes the delivery of the finished product to the site, ensuring all units are provided with compatible internal liners and are ready for immediate operational use.</p>	Nos	126.00	1,600.00	2,01,600.00

150	<p>External Illuminated Metal Letter Signage</p> <p>Providing, fabricating, and fixing individual 3D letters for the signage "Riverside Savories" in SS-316 grade stainless steel (minimum 1.6 mm thick), in English/Gujarati as per approved architectural design and drawings.</p> <p>The letters shall be of size, depth, and profile as per detailed design and as approved by the Engineer-in-Charge (EIC). Each letter shall be fabricated with necessary internal stiffeners and rigid SS back ties to maintain true shape and alignment. The work includes providing and fixing all required components such as SS plates, brackets, nuts, bolts, washers, studs, welding, and chemical anchor fasteners of same or compatible material for firm and durable fixing to wall/tower structure, ensuring stability, durability, and performance for a minimum period of 10 years.</p> <p>The signage shall be provided with concealed waterproof LED backlighting/halo lighting system, including routing and fixing of LED modules as per letter profile and curves to achieve uniform illumination. LED colour and illumination effect shall be as approved by the Architect/EIC, ensuring clear legibility and visibility from a long distance. The item includes supply and installation of all necessary drivers, boosters, transformers, wiring, conduits, connectors, and allied accessories, properly concealed within letters or structure.</p> <p>Where required as per design, provision of suitable external lighting fixtures such as spot lights, LED fixtures, bollards, etc., shall be included to achieve the desired lighting effect.</p> <p>The contractor shall submit the proposed font style, artwork (PDF format), and detailed shop drawings including fixing methodology, LED layout, driver arrangement, and mounting details for prior approval. A mock-up of minimum three letters with approved lighting effect shall be prepared for review and approval before full-scale execution.</p> <p>The rate shall include all materials, labour, fabrication, transportation, scaffolding, lifting arrangements, safety measures as per applicable guidelines, testing, commissioning, and complete installation at all heights. No extra payment shall be made for any component required to complete the work in all respects.</p>	NOS	1.00	5,50,000.00	5,50,000.00
151	Providing and laying weep hole in abutments, and returns by using PVC pipe of 100mm diameter including laying in proper grade and jointing the completed as per detailed specification.	NOS	50.00	552.77	27,638.50
152	Providing and installing sculptures from the below list as per architecture/vendor/artist design including all necessary hardware, accessories, etc, as per the satisfaction of design intent provided by architect/vendor/artist and approval of engineer in charge (EIC)	NOS	6.00	20,00,000.00	1,20,00,000.00
SUB TOTAL					6,32,85,909.83

TENSILE WORK

153	Supplying, Providing, Fabricating, Assembling, hoisting, erecting and placing in position MS Built-up section/Tubular Structure (MS built-up section :-Rolled section & plates confirming to IS 2062 Grade Yst 350,Tubular Structure:- made from Steel hollow sections, ISI marked from SAIL / RINL / TATA/JINDAL, conforming to IS 1161/4923/1239, Minimum Yst 240 thickness upto 10mm) in the profile shape as per drawings with special plate connector, pinion joints, Plates, hollow sections etc. With special plate connectors, pinion joints, plates, hollow sections including Preparation of detailed fabrication and erection drawings of Structural steel work from design drawings issued by Engineer-In-Charge and incorporation of Engineer-In-Charge's comments on same, ransportation from fabrication yard, cutting , threading, machining, leads and lifts upto all heights, tools and plants and necessary scaffolding etc. required for all operations involved to make structure of Tensile Membrane shade. The tubular structure system with plate connectors, pinion joints, etc. is to be provided. The structure has to be provided as per conceptual drawings of Tensile fabric profile , including all arch beam, curved lateral beams and bracings, vertical support columns, nodal joints, ,bases of columns and high tensile bolts of grade not less than 10.9 having black phosphate coating. The complete structure to be Hot Dip Galvanized along with one coat of epoxy primer and two coats of Polyurethane paint on steel work at all locations prepared by sand blasting in required minimum 210 micron DFT (dry film thickness) for each coat as specified in particular specification. The work is to be executed as per technical specification and direction of Engineer-In-Charge.	KG	19,000.00	220.00	41,80,000.00
154	Supply and Installation of membrane shall be PVC, Both side PVDF coating with HT Polyester Yarns of 1100 Dtex . Fabric Type 2 with minimum weight of 950 g/m2, minimum Tensile Strength (Warp/ Weft) - 4200/ 4000 N/5cm, minimum Tear Strength (Warp/ Weft) - 550/500 N. Fabric Flame Retadancy Rating to be Euro Class - Bs2, d0, Micro Organism Resistance and minimum Warranty of 15 years. The design complies with the requirements of BS and, EU Standards. The tensioned membrane structure shall include engineering design of structural members and accessory parts. Membrane system shall include PVC/ PVDF coated Membrane Fabric, Wire Ropes and Cables, Shackles, Rigging Screws, Clamps and tensioning hardware as per specification, drawings and engineers approval. Cost including Scaffolding and cranes.Make- Serge Ferrari/Verseidag/Mehler	SQM	1,236.00	4,025.00	49,74,900.00

155	<p>Design, Supply, Fabrication and Installation of Membrane Panels. Membrane shall be Fiberglass fabric EC 6 filaments and Both sides multi-layer Polytetrafluoroethylene reinforced coating having minimum Weight of 670 g/m2. The Fabric shall have minimum 21% openness porosity for Maximum Light Visibility with minimum Tensile Strength (Warp/ Weft) - 6000/ 6000 N/5cm, minimum Tear Strength (Warp/ Weft) -500/500 N/5 cm. Fabric Flame Retardancy Rating to be Non combustible class A2/DIN 4102 — A2-s1,d0/EN 13501 — ASTM E136 — ASTM E84 — NFPA 701 — Cal T19. Warranty of 10 years and Life span of 35 plus years with proven track record. The applicator to submit the fabric load analysis for approval of fabric. Cost shall include the supply of fabric/SS Cables with end terminals minimum 25mm thickness for main grid and minimum 10mm thickness for edge cable alongwith all the accessories. Fabric Flame Retardancy Rating to be Euro Class - Bs2, d0, Micro Organism Resistance-Degree 0 Excellent – EN ISO 846-A and Warranty of 10 years and Life span of 30 plus years with proven track record. The design complies with the requirements of BS and, EU Standards. The tension membrane structure shall include engineering design of structural members and accessory parts. Membrane systems shall include PVC/ PVDF coated Membrane Fabric, Clamps and tensioning hardware as per specification, drawings and engineers' approval. Vendor to provide an OEM certificate for authorisation. The Mesh must withstand its Self-load and windspeed resistance of up to 180-200kmph. All the accessories like GI Cables, Turnbuckles, Brackets to be fixed to the substructure/Civil work considering the weathering effects (windspeed/loadbearing capacity/Structural strength).</p>	SQFT	38,750.00	1,150.00	4,45,62,500.00
	<p>Fabric analysis report shall be provided by vendor to understand the load calculation. Steel consumption to be provided by vendor. The entire system has to be backed up by a structural stability report. MS Built-up section/Tubular Structure (MS built-up section :-Rolled section & plates conforming to IS 2062 Grade Yst 350, Tubular Structure:- made from Steel hollow sections, ISI marked from SAIL / RINL / TATA/JINDAL, conforming to IS 1161/4923/1239, Minimum Yst 240 thickness upto 10mm) in the profile shape as per drawings with special plate connector, pinion joints, Plates, hollow sections etc. with special plate connectors, pinion joints, plates, hollow sections including Preparation of detailed fabrication and erection drawings of Structural steel work from design drawings issued by Engineer-In-Charge and incorporation of Engineer-In-Charge's comments on same, transportation from fabrication yard, cutting , threading, machining, leads and lifts upto all heights, tools and plants and necessary scaffolding etc. required for all operations involved to make structure of Tensile Membrane shade. The tubular structure system with plate connectors, pinion joints, etc. is to be provided. The structure has to be provided as per conceptual drawings of Tensile fabric profile , including all arch beam, curved lateral beams and bracings, vertical support columns, nodal joints, ,bases of columns and high tensile bolts of grade not less than 10.9 having black phosphate coating. The complete structure to be Hot Dip Galvanized along with one coat of epoxy primer and two coats of Polyurethane paint on steel work at all locations prepared by sand blasting in required minimum 210 micron DFT (dry film thickness) for each coat as specified in particular specification. Required detailed shop drawing and sample is needs to get approved from the project Architect before execution on site. Work shall be carried out as directed by the Engineer-In-Charge. Make List-Serge Ferrari/Sherfil /Chucko/F.I.T/Fibertech</p>				
SUB TOTAL					5,37,17,400.00

ELECTRICAL & ELV CHAMBER					
156	Construction of ELECTRICAL & ELV chamber of size 750x750x1200 mm including excavation, backfilling, watering, soling, compaction, Reinforcement, Rungs etc. complete. It includes R.C.C work of M-30 for walls, top and bottom slabs, also having 100mm thick PCC in M-15 at bottom level. It shall be plastered with 15mm thick Plaster with neat coat in CM 1:3 on internal including water proofing and outside of chamber with 20mm thick sand faced cement plaster in two coat at all sides. making core cuts/providing sleeves for cables incoming and outgoing Top shall be covered with FRP Recessed MH cover with clear opening of 600x600mm with frame and cover bearing load min. 25 T and size as Mentioned in Drawing. It shall be completed with all respect in true line level, plumb with neat & clean surface as per coordinated infrastructure detail drawing up to the level of satisfaction.	NOS	18.00	24,000.00	4,32,000.00
157	Construction of ELECTRICAL & ELV chamber of size 600x600x1000 mm including excavation, backfilling, watering, soling, compaction, Reinforcement, Rungs etc. complete. It includes R.C.C work of M-30 for walls, top and bottom slabs, also having 100mm thick PCC in M-15 at bottom level. It shall be plastered with 15mm thick Plaster with neat coat in CM 1:3 on internal including water proofing and outside of chamber with 20mm thick sand faced cement plaster in two coat at all sides. making core cuts/providing sleeves for cables incoming and outgoing Top shall be covered with FRP Recessed MH cover with clear opening of 600x600mm with frame and cover bearing load min. 25 T and size as Mentioned in Drawing. It shall be completed with all respect in true line level, plumb with neat & clean surface as per coordinated infrastructure detail drawing up to the level of satisfaction.	NOS	1.00	21,000.00	21,000.00
158	Construction of ELECTRICAL & ELV chamber of size 450x450x900 mm including excavation, backfilling, watering, soling, compaction, Reinforcement, Rungs etc. complete. It includes R.C.C work of M-30 for walls, top and bottom slabs, also having 100mm thick PCC in M-15 at bottom level. It shall be plastered with 15mm thick Plaster with neat coat in CM 1:3 on internal including water proofing and outside of chamber with 20mm thick sand faced cement plaster in two coat at all sides. making core cuts/providing sleeves for cables incoming and outgoing Top shall be covered with FRP Recessed MH cover with clear opening of 600x600mm with frame and cover bearing load min. 25 T and size as Mentioned in Drawing. It shall be completed with all respect in true line level, plumb with neat & clean surface as per coordinated infrastructure detail drawing up to the level of satisfaction.	NOS	4.00	17,500.00	70,000.00
SUB TOTAL					5,23,000.00
LANDSCAPING WORK					
159	Excavation for foundation by mechanical / manual means in all kind of soils & soft rock up to 0.9mtx 0.9 mt x 1.5mt. depth including backfilling, shoring, strutting dewatering as necessary, sorting out and stacking of useful materials and disposing of the surplus excavated material within campus etc complete all as per specifications and as directed by EIC.	cum	540.00	198.00	1,06,920.00
160	Supplying and filling of tree pits, shrub bed & lawn beds with Fertile Soil Mix with Farm Yard Manure on datum level in the following percentage - 15% Farm yard Manure, 20% river sand or locally available "Dhaap", and 65% Black Cotton Soil by volume graded towards the drains & chambers located at site with a minimum slope of 1%. (Black cotton soil to be taken from the Emcure site) etc. complete as directed by EIC. Recommended fill of the beds are as follows: 1. Tree/ Palm Pits - 900x900x900mm; 2. Shrub beds/ground cover - To a depth of 300mm; 3. Lawn beds - To a depth of 200mm.	cum	1,500.00	475.00	7,12,500.00

161	Providing and planting (as directed by the consultants / Engineer in charge) well grown saplings of big trees species (as listed below) and planting the same as directed and maintained till well established. (About 45 Days)				
161.1	Bauhinia purpurea	NOS	53.00	282.00	14,946.00
161.2	Erythrina variegata	NOS	25.00	225.00	5,625.00
161.3	Plumeria obtusa	NOS	18.00	1,350.00	24,300.00
161.4	Plumeria rubra	NOS	4.00	1,350.00	5,400.00
161.5	Terminalia mantaly	NOS	13.00	450.00	5,850.00
161.6	Lagerstroemia speciosa	NOS	33.00	282.00	9,306.00
161.7	Cassia fistula	NOS	17.00	338.00	5,746.00
161.8	Alstonia scholaris	NOS	33.00	282.00	9,306.00
162	Supplying and planting Saplings (as directed by the Consultants / Engineer in Charge) of shrubs				
162.1	Alpinia purpurata	Nos	750.00	394.00	2,95,500.00
162.2	Alpinia zerumbet variegata	Nos	2,143.00	394.00	8,44,342.00
162.3	Angelonia angustifolia dwarf	Nos	1,091.00	113.00	1,23,283.00
162.4	Canna indica	Nos	664.00	169.00	1,12,216.00
162.5	Dieffenbachia wilson's delight	Nos	750.00	169.00	1,26,750.00
162.6	Eranthemum purpureum	Nos	750.00	169.00	1,26,750.00
162.7	Leucophyllum frutescens	Nos	750.00	169.00	1,26,750.00
162.8	Murraya paniculata	Nos	1,285.00	79.00	1,01,515.00
162.9	Mussaenda philippica rosea	Nos	3,267.00	169.00	5,52,123.00
173.10	Pandanus variegated	Nos	1,081.00	34.00	36,754.00
173.11	Pseudoeranthemum reticulatum	Nos	950.00	113.00	1,07,350.00
173.12	Schefflera arboricola green	Nos	490.00	169.00	82,810.00
173.13	Hymenocallis littoralis	Nos	5,657.00	250.00	14,14,250.00
173.14	Russelia equisetiformis	Nos	1,944.00	250.00	4,86,000.00
173.15	Bougainvillea	Nos	2,686.00	20.00	53,720.00
173.16	Tecomaria capensis	Nos	4,178.00	100.00	4,17,800.00
173.17	Liriope muscari	Nos	6,798.00	250.00	16,99,500.00
173.27	Allamanda cathartica 'Compacta'	Nos	3,397.00	250.00	8,49,250.00
163	Supplying and planting (as directed by the Consultants / Engineer in Charge) of Climbers				
163.1	Ipomoea palmata	Nos	176.00	500.00	88,000.00
163.2	Ipomoea horsfalliae	Nos	80.00	500.00	40,000.00
163.3	Bignonia gracillis	Nos	109.00	500.00	54,500.00
163.4	Antigonon leptopus	Nos	109.00	500.00	54,500.00
163.5	Philodendron Oxycardium Brasil	Nos	424.00	800.00	3,39,200.00
163.6	Philodendron hederaceum	Nos	581.00	900.00	5,22,900.00
163.7	Epipremnum aureum	Nos	148.00	500.00	74,000.00
163.8	Syngonium	Nos	132.00	800.00	1,05,600.00
163.9	Trachelospermum jasminoides	Nos	148.00	800.00	1,18,400.00
164	Supplying and planting Saplings (as directed by the Consultants / Engineer in Charge) of Ground Cover				

164.1	Wedelia trilobata	Nos	17,140.00	50.00	8,57,000.00
164.2	Cuphea hyssopifolia	Nos	5,280.00	300.00	15,84,000.00
165	Supplying and planting Saplings (as directed by the Consultants / Engineer in Charge) of Grasses				
165.1	Pennisetum rubra	NOS	500.00	400.00	2,00,000.00
165.2	Pennisetum setaceum	NOS	500.00	400.00	2,00,000.00
SUB TOTAL					1,26,94,662.00
TOTAL CIVIL AMOUNT					1,08,84,89,422.42

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
PLUMBING WORKS					
SANITARY FIXTURES AND FITTINGS					
1.01	<p>SPECIAL NEED FOR DISABLED TOILET Providing and Fixing EWC wall hung, Wash basin, Grab bar, Hinged rail & special faucet with spachula including seat cover, and flush valve, fittings, nuts, bolts and gasket etc complete for disabled toilet of approved make and conforming to IS Standards. Wash basin with one pair mounting brackets, Waste coupling 32 mm size full thread with 80 mm height.Jaquar make with 7 years warranty: Chrome plated, Bottle trap Jaquar make with 7 years warranty: Chrome plated etc., EWC S Trap & Cistern complete with fittings & seat cover, one no. hinged rail 750 mm & Two nos of grab rails 600 mm ,etc. complete as per directed by the Engineer's Representative.</p> <p>EWC : KOHLER : S1013200 SOFT CLOSE SEAT COVER : CERA :B1520118 WASH BASIN : CERA : S2040159 SINGLE LEVER CLINICAL FAUCET: CERA :F9030453 600 MM LONG WALL MOUNTED GRAB BAR : CERA :B2210106 WALL MOUNTED HINGED HAND RAIL 750 X 100 : CERA : B2210108</p>	Set.	18.00	69000.00	12,42,000
1.02	<p>Providing and fixing wash down wall mounting EWC-P of approved shade, conforming to Pattern 2 of IS: 2556 (Part -II), with SWR Self it Soil PVC pipe and plug bend as per specifications; glazed vitreous / Coloured European Water Closet with Metropole flush valve, connecting PVC 110mm dia soil pipe with PVC coupling, nuts, mounting cistern on WC., Ragbolt, Gasket Fitiing and solid verity heavy duty plastic seat cover as per IS-2548, of approved make; hole in walls/slab/beam and making good etc. complete as per directed by the Engineer's Representative.</p> <p>EWC-P with PP Soft close Seat cover, Cistern with cistern fittings: W.C Wall Hung : Jaquar : SLS-WHT-6953BIPPSM/CERA : S1043144/KOHLER : K-20217IN-S-0 Concealed Cistern : HINDWARE : Hindware Cat No 525063/CERA : Cera Cat No B1110111</p>	Set.	128.00	38000.00	48,64,000
1.03	<p>Providing and fixing in position 15 mm C.P. brass 2 way bib cock of best quality including cutting and making good the wall where required etc. complete as per directed by the Engineer's Representative.</p> <p>2 WAY BIB COCK CERA : F1007151 KOHLER : K-16093IN-4-CP</p>	Nos.	128.00	3270.00	4,18,560
1.04	<p>Providing and fixing 15mm C.P. brass angle valve with wall flange complete, including cutting and making good the wall where required etc. complete as per directed by the Engineer's Representative.</p> <p>Angle Valve Jaquar, Model No. :OPP-15053PM CERA : F1019251 KOHLER : K-80154IN-4-CP</p>	Nos.	146.00	1305.00	1,90,530
1.05	<p>Providing and fixing of Hand Shower (Health Faucet), with 8mm Dia,1Rmt Long pvc Tube and Wall Hook accessories to .complete the item etc. complete as per directed by the Engineer's Representative.</p> <p>Health Faucet Jaquar:ALD-CHR-563 GA CERA : F8030106AB KOHLER : K-98100IN-CP</p>	Nos.	128.00	1450.00	1,85,600

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
1.06	<p>Providing and fixing White glazed vitreous Oval Wash Basin Under-Counter, size 560x430x195 mm., with supporting M.S. or C.I. Brackets, necessary pipe connection up to the outside face of the wall, having Telephonic Black / Colour Granite of 180 mm thick fixed on Black Kadappa Framework, Waste coupling 32 mm size full thread with 80 mm height Chrome plated, Bottle trap Chrome plated , Pressmatic Pillar Cock including necessary fittings with wall Flange etc. complete in all respects including cutting and making good the walls etc. complete as per directed by the Engineer's Representative.</p> <p>Wash basin : Jaquar : FLS-WHT-570/CERA : OVAL- S2030102/KOHLER : K-2211IN-0 Waste coupling : Jaquar : ALD-CHR-705/CERA : F8050101/KOHLER : K-45432IN-BV Bottle trap : Jaquar : ALD-CHR-769L300X190/CERA : CM 104B/KOHLER : K-75823IN-BN</p>	Nos.	110.00	7450.00	8,19,500
1.07	<p>Providing and fixing of C.P. copper connecting pipe 450 mm long and nuts, washer and brass flange complete, including cutting and making good the wall where required etc. complete as per directed by the Engineer's Representative.</p> <p>Braided Hose Copper Pipe Jaquar : ALD-CHR-805B CERA : F8070402</p>	Nos.	110.00	460.00	50,600
1.08	<p>Providing and fixing Pillar Cock of best quality necessary fittings with wall Flange etc. complete in all respects including cutting and making good the walls etc. complete as per directed by the Engineer's Representative.</p> <p>Pillar Cock Jaquar : PRS-001 CERA : F9020101 KOHLER : K-20747IN-8-CP</p>	Nos.	110.00	2950.00	3,24,500
1.09	<p>Providing and fixing white vitreous china flat back Urinal of size 385x325x635mm as per IS-2556 (Part-2) with C.I. hangers and pipe to wall with C.P. flange with Sensotronic Sensor Type Urinal flush valve with installation box with control valve Battery / Electric operated automatic flushes of approved make. System provided with a solenoid valve and valve connected to a 6 volts lithium battery. Unit automatically serves (the range in about 40 cms) and flushes in two steps. The pre flush is for 2 seconds duration and the final flushing is for 7 seconds duration. The outlet from the flusher shall be connected to urinal with required braided pipes from sensor to urinal flush connection in fixture. complete including cutting and making good the walls wherever required etc. complete as per directed by the Engineer's Representative.</p> <p>Urinal :Jaquar : URS-WHT-13253N/CERA : S4020107/KOHLER : K-26474IN-ER-0 Urinal Sensor ,Jaquar, SNR-51097 /KOHLER : K-24199IN-C03-CP</p>	Nos.	72.00	8500.00	6,12,000
1.10	<p>Providing and fixing in position best Indian make toilet recessed type paper holder complete in all respects including cutting and making good the walls etc. complete as per directed by the Engineer's Representative.</p> <p>Toilet Paper Holder Jaquar, Model no. ACN-CHR-1551 CERA : CA 106</p>	Nos.	128.00	2800.00	3,58,400
1.11	<p>Providing and fixing electrical hand dryer, fully automatic type etc. complete as per directed by the Engineer's Representative.</p> <p>Hand Dryer Orchid: OR/HD/9KV P Dolphy : DAHD0081</p>	Nos.	73.00	15300.00	11,16,900

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
1.12	Providing and fixing of Automatic Fragrance Dispenser fixed to wooden cleats with C.P. brass screws etc. complete as per directed by the Engineer's Representative. Fragrance Dispenser: EURONICS, Model No.: EA44	Nos.	55.00	1750.00	96,250
1.13	Providing and fixing C.P. brass liquid soap container of best quality etc. complete as per directed by the Engineer's Representative. Liquid Soap Container Jaquar : K-5487K-CP KOHLER : SDR-WHT-DJ0010F	Nos.	73.00	11500.00	8,39,500
1.14	Providing and fixing Urinal partition with frosted glass approx. size 900 MM (H) X 450 MM (W) having 10 MM of glass thickness, including fixing to wall with suitable brackets all as per manufacturers specification etc. complete as per directed by the Engineer's Representative. Urinal Partfition: Jaquar, Model No. JSE-CHR-110US450X	Nos.	54.00	2198.00	1,18,692
Sub total					1,12,37,032
INTERNAL DRAINAGE AND RAIN WATER WORKS					
2.01	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.	265.00	146.65	38,862
2.02	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.	99.00	193.73	19,179
2.03	Providing and fixing unplasticized polyvinyl chloride (UPVC) pipes with all the engineered support as per detail technical specification, having thermal stability for water supply including all UPVC plain and brass threaded fitting. This includes jointing of pipes and fittings with one step UPVC solvent cement and testing of joints complete as per direction of engineer in charge. Scope shall also including cutting, chasing the wall/beam by grinder cutter and making good the same. Pipe Dia upto 50MM: UPVC (SCH 40) Pipe Diameter above 50MM: UPVC (SCH 80) The rate shall be including all the engineered support (support, hanger, nuts/bolts, anchor fasteners, fixing clamp/channels with U-bolts, etc) as per detail technical specification etc. complete the job. Product to compliance with occupational safety standards. 75 mm dia.	Rmt.	1017.00	1110.00	11,28,870
2.04	Providing, laying and jointing in true line and level 110 mm diametre 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 jointed with eachother with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diametre x 149 mm length x 145 mm heigh at every 2000 mm center to center 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.	710.00	826.88	5,87,085
2.05	Providing and fixing in position cowel went topipes. (c) 100mm dia.	Nos.	60.00	496.90	29,814
2.06	Providing & fixing PVC SWR TYPE B P Trap of 110 X 110 mm diameter with Height riser/ necessary 110MM Diameter of distance piece for wash basin/ sink drain connection with cockroach trap - square flat cut, Satin-matt finish - 150mm x 150mm of approved Make, making necessary slab/ wall/ beam holes and cutting walls, etc. complete.	Nos.	292.00	1700.00	4,96,400

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
2.07	Making Khurras 45x45cm with average minimum thickness of 50 mm. cement concrete 1:2:4 (1 cement:2 coarse sand :4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement: 3 coarse sand) and a QUOTE of neat cement rounding the edge sand making and finishing the outlet complete depth as per site requirement.	Nos.	36.00	785.00	28,260
2.08	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter not less than 440grams.	Nos.	36.00	480.00	17,280
2.09	Providing fixing, testing and commissioning in position 110 mm dia Polypropylene pipe ring fit conforming to EN: 1329, including all fittings such as bends, junctions, inspection doors, offsets, cowl, access pieces/plugs etc. including cutting holes in walls, slab and beam and making good the same. (For Basement ceiling)	Rmt.	1620.00	1300.00	21,06,000
2.10	Providing fixing, testing and commissioning in position 160 mm dia Polypropylene pipe ring fit conforming to EN: 1329, including all fittings such as bends, junctions, inspection doors, offsets, cowl, access pieces/plugs etc. including cutting holes in walls, slab and beam and making good the same. (For Basement ceiling)	Rmt.	525.00	1600.00	8,40,000
2.11	Providing fixing, testing and commissioning in position 200 mm dia Polypropylene pipe ring fit conforming to EN: 1329, including all fittings such as bends, junctions, inspection doors, offsets, cowl, access pieces/plugs etc. including cutting holes in walls, slab and beam and making good the same. (For Basement ceiling)	Rmt.	921.00	1850.00	17,03,850
	Sub total				69,95,600

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
INTERNAL/EXTERNAL WATER SUPPLY NETWORK					
3.01	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [A] 20 mm.	Rmt.	362.00	202.97	73,475
3.02	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [A] 25 mm.	Rmt.	410.00	247.25	1,01,373
3.03	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [A] 32 mm.	Rmt.	322.00	330.36	1,06,376
3.04	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [A] 40 mm.	Rmt.	260.00	437.66	1,13,792
3.05	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [A] 50 mm.	Rmt.	80.00	647.30	51,784
3.06	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.	40.00	71.93	2,877
3.07	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.	157.00	117.97	18,521
3.08	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.	246.00	146.65	36,076
3.09	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.	373.00	193.73	72,261
3.09	Providing and fixing unplasticized polyvinyl chloride (UPVC) pipes with all the engineered support as per detail technical specification, having thermal stability for water supply including all UPVC plain and brass threaded fitting. This includes jointing of pipes and fittings with one step UPVC solvent cement and testing of joints complete as per direction of engineer in charge. Scope shall also including cutting, chasing the wall/beam by grinder cutter and making good the same. Pipe Dia upto 50MM: UPVC (SCH 40) Pipe Diameter above 50MM: UPVC (SCH 80) The rate shall be including all the engineered support (support, hanger, nuts/bolts, anchor fasteners, fixing clamp/channels with U-bolts, etc) as per detail technical specification etc. complete the job. Product to compliance with occupational safety standards. 65 mm dia.	Rmt.	225.00	920.00	2,07,000

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
3.10	<p>Providing and fixing unplasticized polyvinyl chloride (UPVC) pipes with all the engineered support as per detail technical specification, having thermal stability for water supply including all UPVC plain and brass threaded fitting. This includes jointing of pipes and fittings with one step UPVC solvent cement and testing of joints complete as per direction of engineer in charge. Scope shall also including cutting, chasing the wall/beam by grinder cutter and making good the same.</p> <p>Pipe Dia upto 50MM: UPVC (SCH 40) Pipe Diameter above 50MM: UPVC (SCH 80)</p> <p>The rate shall be including all the engineered support (support, hanger, nuts/bolts, anchor fasteners, fixing clamp/channels with U-bolts, etc) as per detail technical specification etc. complete the job.</p> <p>Product to compliance with occupational safety standards.</p> <p>80 mm dia.</p>	Rmt.	15.00	1110.00	16,650
3.11	<p>Providing and fixing unplasticized polyvinyl chloride (UPVC) pipes with all the engineered support as per detail technical specification, having thermal stability for water supply including all UPVC plain and brass threaded fitting. This includes jointing of pipes and fittings with one step UPVC solvent cement and testing of joints complete as per direction of engineer in charge. Scope shall also including cutting, chasing the wall/beam by grinder cutter and making good the same.</p> <p>Pipe Dia upto 50MM: UPVC (SCH 40) Pipe Diameter above 50MM: UPVC (SCH 80)</p> <p>The rate shall be including all the engineered support (support, hanger, nuts/bolts, anchor fasteners, fixing clamp/channels with U-bolts, etc) as per detail technical specification etc. complete the job.</p> <p>Product to compliance with occupational safety standards.</p> <p>100 mm dia.</p>	Rmt.	486.00	1270.00	6,17,220
3.12	<p>Providing and fixing male/ female screw ended full way lever operated forged ISI marked brass ball valves with brass body with forged brass hard chrome plated ball / stem, union.Rated to temperature of 85 Deg C, The valves to be PN 10kgm class on CPVC or GI pipe lines. (For cold water supply lines)</p> <p>20 mm dia.</p>	Nos.	1.00	1181.00	1,181
3.13	<p>Providing and fixing male/ female screw ended full way lever operated forged ISI marked brass ball valves with brass body with forged brass hard chrome plated ball / stem, union.Rated to temperature of 85 Deg C, The valves to be PN 10kgm class on CPVC or GI pipe lines. (For cold water supply lines)</p> <p>25 mm dia.</p>	Nos.	18.00	1770.00	31,860
3.14	<p>Providing and fixing male/ female screw ended full way lever operated forged ISI marked brass ball valves with brass body with forged brass hard chrome plated ball / stem, union.Rated to temperature of 85 Deg C, The valves to be PN 10kgm class on CPVC or GI pipe lines. (For cold water supply lines)</p> <p>32 mm dia.</p>	Nos.	19.00	2630.00	49,970
3.15	<p>Providing and fixing male/ female screw ended full way lever operated forged ISI marked brass ball valves with brass body with forged brass hard chrome plated ball / stem, union.Rated to temperature of 85 Deg C, The valves to be PN 10kgm class on CPVC or GI pipe lines. (For cold water supply lines)</p> <p>40 mm dia.</p>	Nos.	32.00	3510.00	1,12,320

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
3.16	Providing and supplying ISI mark CI D/F Butterfly Valves as per IS:13095 (Latest Edition) of class PN 10, including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. Lowering, laying and jointing in position C. I. D/F Butterfly valves including cost of all labour, jointing material, including nut bolts and giving satisfactory hydraulic testing, etc. complete. 50 mm dia.	Nos.	33.00	1958.00	64,614
3.17	Providing and supplying ISI mark CI D/F Butterfly Valves as per IS:13095 (Latest Edition) of class PN 10, including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. Lowering, laying and jointing in position C. I. D/F Butterfly valves including cost of all labour, jointing material, including nut bolts and giving satisfactory hydraulic testing, etc. complete. 65 mm dia.	Nos.	13.00	2098.00	27,274
3.18	Providing and supplying ISI mark CI D/F Butterfly Valves as per IS:13095 (Latest Edition) of class PN 10, including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. Lowering, laying and jointing in position C. I. D/F Butterfly valves including cost of all labour, jointing material, including nut bolts and giving satisfactory hydraulic testing, etc. complete. 80 mm dia.	Nos.	6.00	2784.00	16,704
3.19	Providing and supplying ISI mark CI D/F Butterfly Valves as per IS:13095 (Latest Edition) of class PN 10, including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. Lowering, laying and jointing in position C. I. D/F Butterfly valves including cost of all labour, jointing material, including nut bolts and giving satisfactory hydraulic testing, etc. complete. 100 mm dia.	Nos.	1.00	3002.00	3,002
3.20	Supply, Installation, Testing and Commissioning of Gun metal 25 mm dia. air release valve.	Nos.	30.00	2000.00	60,000
3.21	Supplying, fitting and fixing of SS 316, Solenoid Valve , confirming to latest IS 8935, PN 16.0, with IP 67 logic controller, float switch, IP 67 Battery, with all accessories viz. power and control cables, cabinets, hardwares specials, union, flange, cable upto tank, lower & upper level floats with, 3 Nos. brass ball valves screwed ends, etc., to complete the job. 50 mm dia.	Nos.	6.00	35450.00	2,12,700

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
3.22	Supplying, installation, testing and commissioning of 50 mm dia. Heavy Quality Gun metal Pressure Reducing Valve with set of best quality having by-pass arrangement consisting of the following : 1 No. pressure reducing valve screwed ends, 3 Nos. brass ball valve screwed ends.	Nos.	3.00	35110.00	1,05,330
3.23	Woltman Type Bulk Water Meter- AMR Based: Water Meter: 65 mm Design, Supply, Installation, Testing, Commissioning of Woltman type Bulk Water Meter, CI/ Brass/ Bronze body material, totalizer made of copper can/ suitable anti corrosive metallic material, totaliser metallic shall have 5 mm thick glass cover suitable against antifraud attempts, Flange End process connection, IP 68 protection class, AMR Woltman Type Water Meter with removable mechanism, magnetic drive, dry dial, and be fitted with a low mass rotor which is parallel to the direction of water flow and exhibits dynamic thrust relief, water meters complete with T Type strainer, ISO 4064 : 2005 with valid CE mark mentioning notified body number along with MID / OIML / ISO certification from a recognized International laboratory. AMR System : AMR System shall be Walk By / Drive By mode, Wireless AMR trans-receivers shall be directly fitted on meter or inbuilt, IP 68 protection class, water meter & AMR Module shall be of same brand, Single Command based AMR Reading and Minimum 90 days historical data retrieve facility, alarm indication/ recording (for Reverse Flow, back flow, Peak Flow, Minimum Flow, Low Battery Alarm, Volume below threshold, Volume above threshold, Reverse Meter, Meter Stopped), Minimum 10 years of AMR module battery life considering one no. communication per day.	Nos.	1.00	19888.00	19,888
3.24	Construction of valve chambers in brick or bell stone masonry, locally available in CM 1:6. Foundation concrete 150 mm thick in C.C. 1:4:8 of trap metal size 25 mm to 40 mm thick, inside cement plaster in C.M. 1:3 and cement pointing outside in C.M. 1:3 and top cover of precast RCC slab 100 mm thick (with key hole in two parts, each with handles or MS bar etc. complete as given size) Upto 1M. depth from G.L. to pipe invert incl. complete civil works but excl. cost of excavation and refilling, with cast in situ RCC slab in one single piece with fixing of CI-MH frame and cover (excl. cost of CI-MH Frame and cover) with 23 mm thick brick masonry wall in C.M.:1:6 Size of chamber 0.60M X 0.60M and 1M depth	Nos.	1.00	5138.00	5,138
3.25	Making point of new connection from Existing/ Municipal water supply line with all support, clamps, civil work, etc. required, providing suitable fittings, to connect to Existing line and good the same as per engineer in charge. Work to be done including Liasoning cost.	Nos.	1.00	50000.00	50,000
	Sub total				21,77,386
IRRIGATION WATER SUPPLY NETWORK					
4.01	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.	275.00	90.93	25,006
4.02	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.	1196.00	146.65	1,75,393
4.03	Supply, installation, testing and commissioning of 20mm diameter Garden Hydrant with gun metal Ball Valve, Flexible hose Connection Provision and all required accessories etc.	Nos.	36.00	3250.00	1,17,000
4.04	Supply, installation, testing and commissioning of Large dome type landscape drain is suitable for large planter areas and flower beds, where a thin layer of gravel is used. It consists of a cast iron body, membrane clamp and a dome covered with a stainless-steel mesh. This product covers a greater drainage area and prevents the soil and stones from entering the drainage line	Nos.	12.00	3000.00	36,000
	Sub total				3,53,399

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
EXTERNAL SEWAGE NETWORK					
5.01	<p>Providing and supplying 100 mm Inner Dia. Pipe of Class SN8 Structured Wall polyethelene Piping systems (Pipe with online/offline coupler and elastomeric sealing ring) with non-smooth External Annular Corrugated and Smooth Internal Surfaces (Double Wall) for non-pressure underground Sewerage & Drainage application as per EN:13476-3 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores etc. complete.(ID Dia)</p> <p>Lowering, laying and jointing of class SN 8 structured wall (External Annular Corrugated & Smooth Internal surface) Polyethylene Piping and fittings with the help of coupler (on line / off line) attached with one end of pipes, sliding over the elastomeric sealing rubber ring placed on the specified valley of the corrugation at the spigot end, lowering the same into the trench at all level, laying on the lower bedding (constructed at bottom of trenches) at prescribed gradient,depth & alignment ,testing the water tightness of the joints, ensuring the continuity tests of specified pipe segments etc. complete as per drawing, specifications & detailed engineering, including carriage of pipes & fittings from site stacks to the place of laying etc. as per direction of Engineer-in-charge. (From GT to First Chamber)</p>	Rmt.	3.00	229.00	687
5.02	<p>Providing and supplying 200 mm Inner Dia. Pipe of Class SN8 Structured Wall polyethelene Piping systems (Pipe with online/offline coupler and elastomeric sealing ring) with non-smooth External Annular Corrugated and Smooth Internal Surfaces (Double Wall) for non-pressure underground Sewerage & Drainage application as per EN:13476-3 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores etc. complete.(ID Dia)</p> <p>Lowering, laying and jointing of class SN 8 structured wall (External Annular Corrugated & Smooth Internal surface) Polyethylene Piping and fittings with the help of coupler (on line / off line) attached with one end of pipes, sliding over the elastomeric sealing rubber ring placed on the specified valley of the corrugation at the spigot end, lowering the same into the trench at all level, laying on the lower bedding (constructed at bottom of trenches) at prescribed gradient,depth & alignment ,testing the water tightness of the joints, ensuring the continuity tests of specified pipe segments etc. complete as per drawing, specifications & detailed engineering, including carriage of pipes & fittings from site stacks to the place of laying etc. as per direction of Engineer-in-charge.</p>	Rmt.	100.00	771.00	77,100
5.03	<p>Providing and supplying 250 mm Inner Dia. Pipe of Class SN8 Structured Wall polyethelene Piping systems (Pipe with online/offline coupler and elastomeric sealing ring) with non-smooth External Annular Corrugated and Smooth Internal Surfaces (Double Wall) for non-pressure underground Sewerage & Drainage application as per EN:13476-3 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores etc. complete.(ID Dia)</p> <p>Lowering, laying and jointing of class SN 8 structured wall (External Annular Corrugated & Smooth Internal surface) Polyethylene Piping and fittings with the help of coupler (on line / off line) attached with one end of pipes, sliding over the elastomeric sealing rubber ring placed on the specified valley of the corrugation at the spigot end, lowering the same into the trench at all level, laying on the lower bedding (constructed at bottom of trenches) at prescribed gradient,depth & alignment ,testing the water tightness of the joints, ensuring the continuity tests of specified pipe segments etc. complete as per drawing, specifications & detailed engineering, including carriage of pipes & fittings from site stacks to the place of laying etc. as per direction of Engineer-in-charge.</p>	Rmt.	430.00	1046.00	4,49,780
5.04	<p>Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight. (i) Square mouth traps. A)100mm x 100mm size P type</p>	Nos.	1.00	1280	1,280

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
5.05	Manufacture,supply and delivery of chemical fabricated RCC precast chambers with top cover as per specification and drawing attached with the tender documents of sizes as mentioned below The delivery of chambers with clamps, nuts, bolts, and locking arrangement(without lock)is to be made to GWSSB store and sites anywhere in Gujrat.The rates include all taxes, loading, carting, unloading, stacking including all taxes. Sewage chamber of size 900x900 depth 0.90m.	Nos.	9.00	11087.00	99,783
5.06	Constructing Manhole with R.C.C. top slab in 1:2:4 mix (1-cement :2-coarse sand : 4-graded stone aggregate 20mm nominal size) foundation concrete 1:3:6 mix (1-cement : 3- coarse sand :6-Brick bats 40 + 50mm size) inside plastering 15mm thick with Cement Mortar 1:5 (1-Cement : 5-coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 mix (1- Cement :2-Coarse sand :4-stone aggregate 20mm nominal size) finished smooth complete including curing and festing (1) Inside size 900mm x 1500mm and 1.5M. deep including C.I. cover with frame size 560mm diameter total weight of cover and frame to be not less than 128 kgs. (Wt. of cover 64 Kg. and Wt. of frame 64 Kg.)(A) With 230mm thick walls of brick msonry using brick having crushing strength not less than 35Kg. / Sq.cm. in Cement Mortar 1:5 (1- Cement: 5-Coarse sand) (3) B type depth 1.5 Metre	Nos.	8.00	23209.64	1,85,677
5.07	Providing and constructing Sewer manhole ,scraper manholes and untill house connection chamber , as per the type design in brick masonry in C.M. 1:5 and inside amd outside 20mm thick plastering in C.M. 1:3 necessary 100 mm capping with reinforcement in R.C.C.M. 200 fixing C.I. steps and fixing manhole fram and cover (But excluding supplng of manhole cover)over manholes and house connection chambers and fixing manhole covers (But excluding supplng of manhole cover) over scraper manhole etc.complete providing and fixing safety chain wherever necessary as per the stipulation in the type design complete as per latest CPHEEO manul.(excl.excavation) Manhole type "B" circular type having inside diameter of minimum 1500mm and for depth from1.5m to 4.0m(for 150 mm to 600 mm dia sewers)	Nos.	13.00	33429.00	4,34,577
5.08	Making connection to Municipal storm water line/ existing drain including breaking them in a systematic way with suitable excavation, dewatering, dismantling of the RCC or masonry wall or pipe line, passing the plumbing storm water line in the existing structure either through masonry or RCC and providing suitable "Y" tee to the connect to existing pipe line, Reconstructions of dismantled existing structure according to the original one to bring to the working conditions testing etc. work to be done in the presence of municipal eng. including Liasoning cost. complete as per standard as directed by Engineer-in-charge to complete the job.	Nos.	1.00	50000.00	50,000
Sub total					12,98,884
EXTERNAL STORM NETWORK					
6.01	Providing and supplying 150 mm Inner Dia. Pipe of Class SN8 Structured Wall polyethelene Piping systems (Pipe with online/offline coupler and elastomeric sealing ring) with non-smooth External Annular Corrugated and Smooth Internal Surfaces (Double Wall) for non-pressure underground Sewerage & Drainage application as per EN:13476-3 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores etc. complete.(ID Dia) Lowering, laying and jointing of class SN 8 structured wall (External Annular Corrugated & Smooth Internal surface) Polyethylene Piping and fittings with the help of coupler (on line / off line) attached with one end of pipes, sliding over the elastomeric sealing rubber ring placed on the specified valley of the corrugation at the spigot end, lowering the same into the trench at all level, laying on the lower bedding (constructed at bottom of trenches) at prescribed gradient,depth & alignment ,testing the water tightness of the joints, ensuring the continuity tests of specified pipe segments etc. complete as per drawing, specifications & detailed engineering, including carriage of pipes & fittings from site stacks to the place of laying etc. as per direction of Engineer-in-charge.	Rmt.	125.00	396.00	49,500

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
6.02	<p>Providing and supplying 200 mm Inner Dia. Pipe of Class SN8 Structured Wall polyethelene Piping systems (Pipe with online/offline coupler and elastomeric sealing ring) with non-smooth External Annular Corrugated and Smooth Internal Surfaces (Double Wall) for non-pressure underground Sewerage & Drainage application as per EN:13476-3 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores etc. complete.(ID Dia)</p> <p>Lowering, laying and jointing of class SN 8 structured wall (External Annular Corrugated & Smooth Internal surface) Polyethylene Piping and fittings with the help of coupler (on line / off line) attached with one end of pipes, sliding over the elastomeric sealing rubber ring placed on the specified valley of the corrugation at the spigot end, lowering the same into the trench at all level, laying on the lower bedding (constructed at bottom of trenches) at prescribed gradient,depth & alignment ,testing the water tightness of the joints, ensuring the continuity tests of specified pipe segments etc. complete as per drawing, specifications & detailed engineering, including carriage of pipes & fittings from site stacks to the place of laying etc. as per direction of Engineer-in-charge.</p>	Rmt.	540.00	771.00	4,16,340
6.03	<p>Providing and supplying 300 mm Inner Dia. Pipe of Class SN8 Structured Wall polyethelene Piping systems (Pipe with online/offline coupler and elastomeric sealing ring) with non-smooth External Annular Corrugated and Smooth Internal Surfaces (Double Wall) for non-pressure underground Sewerage & Drainage application as per EN:13476-3 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores etc. complete.(ID Dia)</p> <p>Lowering, laying and jointing of class SN 8 structured wall (External Annular Corrugated & Smooth Internal surface) Polyethylene Piping and fittings with the help of coupler (on line / off line) attached with one end of pipes, sliding over the elastomeric sealing rubber ring placed on the specified valley of the corrugation at the spigot end, lowering the same into the trench at all level, laying on the lower bedding (constructed at bottom of trenches) at prescribed gradient,depth & alignment ,testing the water tightness of the joints, ensuring the continuity tests of specified pipe segments etc. complete as per drawing, specifications & detailed engineering, including carriage of pipes & fittings from site stacks to the place of laying etc. as per direction of Engineer-in-charge.</p>	Rmt.	385.00	1401.00	5,39,385
6.04	<p>Providing and supplying 400 mm Inner Dia. Pipe of Class SN8 Structured Wall polyethelene Piping systems (Pipe with online/offline coupler and elastomeric sealing ring) with non-smooth External Annular Corrugated and Smooth Internal Surfaces (Double Wall) for non-pressure underground Sewerage & Drainage application as per EN:13476-3 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores etc. complete.(ID Dia)</p> <p>Lowering, laying and jointing of class SN 8 structured wall (External Annular Corrugated & Smooth Internal surface) Polyethylene Piping and fittings with the help of coupler (on line / off line) attached with one end of pipes, sliding over the elastomeric sealing rubber ring placed on the specified valley of the corrugation at the spigot end, lowering the same into the trench at all level, laying on the lower bedding (constructed at bottom of trenches) at prescribed gradient,depth & alignment ,testing the water tightness of the joints, ensuring the continuity tests of specified pipe segments etc. complete as per drawing, specifications & detailed engineering, including carriage of pipes & fittings from site stacks to the place of laying etc. as per direction of Engineer-in-charge.</p>	Rmt.	355.00	2153.00	7,64,315
6.05	<p>Construction of Storm water chamber of size 450x450x600 mm (internal clear) making of RCC including excavation, backfilling, watering, soling, compaction, Reinforcement etc. complete. It includes M 30 RCC work for walls , top slab and bottom slab as per the drawing, having Rubble soling and 100mm thick PCC in M-15 at bottom level. It shall be plastered with 20mm thick Plaster with neat coat in CM 1:3 on internal and outside of chamber with adquate goliya at all sides. Top shall be covered with FRP recessed Heavy Duty cover with Frame(450MMX450MM Clear Opening). It shall be completed with all respect in ture line level, plumb with neat & clean surface as per coordinated infrastructure detail drawing up to the level of satisfaction</p>	Nos.	18.00	14000.00	252000.00

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
6.06	Construction of Storm water chamber of size 600x600x1000 mm (internal clear) making of RCC including excavation, backfilling, watering, soling, compaction, Reinforcement etc. complete. It includes M 30 RCC work for walls , top slab and bottom slab as per the drawing, having Rubble soiling and 100mm thick PCC in M-15 at bottom level. It shall be plastered with 20mm thick Plaster with neat coat in CM 1:3 on internal and outside of chamber with adquate goliya at all sides. Top shall be covered with FRP recessed Heavy Duty cover with Frame(600MMX600MM Clear Opening). It shall be completed with all respect in ture line level, plumb with neat & clean surface as per coordinated infrastructure detail drawing up to the level of satisfaction	Nos.	27.00	16000.00	4,32,000
6.07	Construction of Storm water chamber of size 900x900x1500 mm (internal clear) making of RCC including excavation, backfilling, watering, soling, compaction, Reinforcement etc. complete. It includes M 30 RCC work for walls , top slab and bottom slab as per the drawing, having Rubble soiling and 100mm thick PCC in M-15 at bottom level. It shall be plastered with 20mm thick Plaster with neat coat in CM 1:3 on internal and outside of chamber with adquate goliya at all sides. Top shall be covered with FRP recessed Heavy Duty cover with Frame(600MMX600MM Clear Opening). It shall be completed with all respect in ture line level, plumb with neat & clean surface as per coordinated infrastructure detail drawing up to the level of satisfaction	Nos.	25.00	19500.00	4,87,500
6.08	Construction of Storm water chamber of size 1200x1200x2000 mm (internal clear) making of RCC including excavation, backfilling, watering, soling, compaction, Reinforcement etc. complete. It includes M 30 RCC work for walls , top slab and bottom slab as per the drawing, having Rubble soiling and 100mm thick PCC in M-15 at bottom level. It shall be plastered with 20mm thick Plaster with neat coat in CM 1:3 on internal and outside of chamber with adquate goliya at all sides. Top shall be covered with FRP recessed Heavy Duty cover with Frame(600MMX600MM Clear Opening). It shall be completed with all respect in ture line level, plumb with neat & clean surface as per coordinated infrastructure detail drawing up to the level of satisfaction	Nos.	25.00	24500.00	6,12,500
6.09	Making connection to Municipal storm water line/ existing drain including breaking them in a systematic way with suitable excavation, dewatering, dismantling of the RCC or masonry wall or pipe line, passing the plumbing storm water line in the existing structure either through masonry or RCC and providing suitable "Y" tee to the connect to existing pipe line. Reconstructions of dismantled existing structure according to the original one to bring to the working conditions testing etc. work to be done in the presence of municipal eng. including Liasoning cost. complete as per standard as directed by Engineer-in-charge to complete the job.	Nos.	1.00	50000.00	50,000
Sub total					36,03,540

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
PUMP AND EQUIPMENT WORKS					
7.01	Providing and fixing S.S. water cooler of 80ltr storage capacity with 60ltr per hr. cooling capacity. Including inbuilt R.O.Plant consisting of considering the inbuilt booster pump,dry run protection, water purification filters, piping, isolation valves, instruments supports, etc. complete & Medium Penetration UV. Including all Inter connection piping and valve all comp. System as per drinking water IS stadard requirement. it is recommendate to provide blending system of water at attain TDS level between 250-300 ppm. The suppliear has to also supply and installation of SS-316 storage tank - 80 ltr. capacity.	Nos.	18.00	96495	17,36,910
7.02	WATER TRANSFER PUMP (For Domestic Water Supply) Centrifugal Monoblock Transfer pump Supplying, installing, testing and commissioning of Horizontal / vertial multistage, centrifugal clear water pumps with SS-304 casing, S.S 304 impeller and SS-304 shaft, SS-304/C.I. Base CED coating & head TEFC IE3 motor (with mechanical seal) with Company fitted with company compliance certificate. Vendor to submit performance curves and technical catalogue with all GA Drawing of the proposed model for review and information. Panel mounted PLC and HMI Based multi pump contoller with large graphical display with VGA 240 x 320 pixels and variable frequency drive (VFD) integrated in a Panel with IP55 class with pressure sensor transmitter (each pump each VFD), diodes to indicate pump ready, pump running and fault and capable to communicate with other controllers following MODBUS-RTU or BACNET Class-2 protocol through RS485 port. All alarms should be displayed in the controller. System should be equipped with dry running protection. Indication of all type of faults / on-off status / electrical parameters shall be available on panel. Set of accessories such as G.I headers for suction and discharge, control valves, non return valves, pressure transducers, pressure gauge, inter connecting power and control cabling etc. complete. Capacity per pump - 20.0 m3/hour, Head - 50 mt, 1 Set = 3 Nos. Pump (2 Working +1 Asist - cascade operation)	Set	1.00	1400000	14,00,000
7.03	IRRIGATION PUMP Centrifugal Monoblock Transfer pump Supplying, installing, testing and commissioning of Horizontal / vertial multistage, centrifugal clear water pumps with SS-304 casing, S.S 304 impeller and SS-304 shaft, SS-304/C.I. Base CED coating & head TEFC IE3 motor (with mechanical seal) with Company fitted with company compliance certificate. Vendor to submit performance curves and technical catalogue with all GA Drawing of the proposed model for review and information. Panel mounted PLC and HMI Based multi pump controller with large graphical display with VGA 240 x 320 pixels and variable frequency drive (VFD) integrated in a Panel with IP55 class with pressure sensor transmitter (each pump each VFD), diodes to indicate pump ready, pump running and fault and capable to communicate with other controllers following MODBUS-RTU or BACNET Class-2 protocol through RS485 port. All alarms should be displayed in the controller. System should be equipped with dry running protection. Indication of all type of faults / on-off status / electrical parameters shall be available on panel. Set of accessories such as G.I headers for suction and discharge, control valves, non return valves, pressure transducers, pressure gauge, inter connecting power and control cabling etc. complete. Capacity per pump - 7.5 m3/hour, Head -45 mt, 1 Set = 2 Nos. Pump (1 Working + 1 Standby).	Set	1.00	520000	5,20,000

PLUMBING WORKS -RIVERSIDE,AHMEDABAD

Item No.	Description	Unit	Total Qty.	Rate	Amount
7.04	<p>Sump Drain Pump (For Basement Drain, Pump Room Drain) Supply, installation, testing & commissioning of Submersible Non Clog, single stage, single entry pumps connected to TEFC submersible motor for 415 + 10% volts, 3 phase, 50 cycles A.C. power supply with mechanical seal, pump connector unit with rubber diaphragm and bend, vertical discharge pipe. (Pumps suitable to handle solids upto 50 mm size with C.I. body, SS304 shaft, SS impeller). Pump Outlet shall be individual for both pumps and shall be connected to main drain line individually. Electrical Starter panels complete with O/L Relay with Single phasing preventer feature, earth leakage relay, ON-OFF and Trip Indicating lamps, contactors Potential free contacts for Building Automation System, interlocking, level controller with operational mode as one pump working at low level, both pumps at high level with a hooter alarm and cut off at dry level, cascade operation, working / standby selection, etc. suitable for the motor H.P. as specified below. The operations data for all pumps shall be available on central BMS system Capacity per pump - 15.0 m3/hour, Head -20 mt, 1 Set = 2 Nos. Pump (1 Working + 1 Assist - cascade operation)</p>	Set	3.00	150000	4,50,000
7.05	<p>Sump Drain Pump (For Tunnel Drain) Supply, installation, testing & commissioning of Submersible Non Clog, single stage, single entry pumps connected to TEFC submersible motor for 415 + 10% volts, 3 phase, 50 cycles A.C. power supply with mechanical seal, pump connector unit with rubber diaphragm and bend, vertical discharge pipe. (Pumps suitable to handle solids upto 50 mm size with C.I. body, SS304 shaft, SS impeller). Pump Outlet shall be individual for both pumps and shall be connected to main drain line individually. Electrical Starter panels complete with O/L Relay with Single phasing preventer feature, earth leakage relay, ON-OFF and Trip Indicating lamps, contactors Potential free contacts for Building Automation System, interlocking, level controller with operational mode as one pump working at low level, both pumps at high level with a hooter alarm and cut off at dry level, cascade operation, working / standby selection, etc. suitable for the motor H.P. as specified below. The operations data for all pumps shall be available on central BMS system Capacity per pump - 45.0 m3/hour, Head -10 mt, 1 Set = 2 Nos. Pump (1 Working + 1 Assist - cascade operation)</p>	Set	4.00	450000	18,00,000
	Sub total				59,06,910
	TOTAL PLUMBING AMOUNT				3,15,72,751