

BILL OF QUANTITY-CUM-PRICE SCHEDULE**Annexure - I****Name of Project****: 400kV Substation at BARH****Name of Work**

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
1	Earthwork in excavation over areas (exceeding 30cm in depth 1.5m in width as well as 10sqm on plan) including disposal of excavated earth upto 100m and lift upto 3.5m, disposed earth to be levelled and neatly dressed.				
	All kinds of soil.	21500	cum	91.50	1967250.00
2	Earthwork in excavation in foundation trenches or drains (not exceeding 1.5m in width as well as 10sqm on plan) including dressing of sides and ramming of bottoms, lift upto 3.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 100m.				
	All kinds of soil.	200	cum	93.55	18710.00
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations, etc., in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 100m and lift upto 3.5m.				
		17200	cum	30.25	520300.00
4	Extra for every additional lift of 1.5m/ lead of 50m or part thereof in:				
	All kinds of soil.	400	cum	12.45	4980.00
5	Supplying and filling in plinth with Jamuna/local sand under floors including watering, ramming, consolidating and dressing complete.				
		120	cum	213.30	25596.00
6	Supplying chemical emulsion in sealed containers including delivery as specified.				
	Chloropyriphos emulsifiable concentrate of 20%	100	litre	133.35	13335.00
7	Carriage & disposal of surplus excavated earth beyond initial lead by mechanical means not necessarily all the times on pucca roads, including loading, unloading, dressing of excavated material, etc., complete as per specifications - Lead upto 1km.				
		5200	cum	34.77	180804.00

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
8	Diluting & injecting chemical emulsion for PRE-CONSTRUCTIONAL ANTI-TERMITE treatment and creating a continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall & floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surroundings of pipes and conduits, etc complete as per specifications (Plinth area of the building at ground floor only shall be measured for payment)	1400	sqm	50.00	70000.00
9	Providing and laying damp proof course 50mm thick cement concrete 1:1.5:3 (1 Cement:1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) .	100	sqm	103.80	10380.00
10	Applying two layers of residual petroleum bitumen of penetration 85/25 of approved quality using 1.7 kg per sqm on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	100	sqm	29.25	2925.00
11	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.				
(a)	1:2:4 (1 cement : 2coarse sand : 4 graded stone aggregate 20mm nominal size)	5	cum	1843.00	9215.00
(b)	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	10	cum	1588.35	15883.50
(c)	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	850	cum	1404.70	1193995.00
12	Extra for providing and mixing water proofing material in cement concrete work in the proportion recommended by the manufacturers.	600	per bag of 50kg of cement used in the mix	19.25	11550.00
13	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for RCC structural elements excluding the cost of centering, shuttering, finishing and reinforcement including admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability. - M25 grade				
(a)	All works (rafts, columns & plinth beams) upto plinth level.	5100	cum	2368.05	12077055.00
(b)	All works from plinth level upto floor V level.				
(i)	Walls, columns, pillars, posts and struts.	200	cum	2495.40	499080.00
(ii)	Beams, cantilevers, suspended floors, lintels, roofs, staircases, etc.	500	cum	2602.25	1301125.00
14	Centering and shuttering including strutting, propping, etc., and removal of form for:				

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
(a)	Foundations, footings, bases of columns, etc., for mass concrete.	12200	sqm	61.10	745420.00
(b)	Suspended floors, roofs, landings, balconies and access platform.	2500	sqm	111.20	278000.00
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	1500	sqm	87.95	131925.00
(d)	Columns, pillars, piers, abutments, posts and struts,	800	sqm	135.80	108640.00
(e)	Stairs (excluding landings)except spiral-staircases.	200	sqm	106.40	21280.00
(f)	Weather shades, chajjas, corbels etc., including edges.	100	sqm	134.45	13445.00
15	Extra for additional height in centring, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentring at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)				
	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	2000	sqm	45.90	91800.00
16	Reinforcement for RCC work including straightening, cutting, bending, placing in position and binding complete.	Reinforcement steel shall be provided by BHEL. Therefore,vendor should quote only the labour rates for cutting bending,binding,placing in position,straightening etc.			
	Cold twisted bars/TMT	735000	kg		
17	Brickwork with F.P.S.bricks of class designation 75 in foundation and plinth in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	500	cum	1384.50	692250.00
18	Extra for brickwork in superstructure above plinth level	350	cum	206.40	72240.00
19	Half brick masonry with bricks of class designation 75 in foundation and plinth in:				
	Cement mortar 1:4 (1 cement : 4 coarse sand)	150	sqm	174.85	26227.50
20	Extra for half brick masonry in superstructure above plinth level upto floor V level.	150	sqm	22.00	3300.00
21	Extra for providing and placing in position 2 Nos 6mm dia MS bars at every third course of half brick masonry (with FPS bricks)	150	sqm	23.65	3547.50
22	Providing and fixing 20mm thick mirror polished, machine cut for column facia, kitchen platforms, vanity counters and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement: 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing etc. complete at all levels. (over 1sqm but upto 2sqm)				
	Granite black.	24	sqm	2597.80	62347.20

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
23	Providing and fixing ISI marked flush door shutters decorative type ,core of block board construction with frame of Ist class hard wood and well matched reak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	35 mm thick including ISI marked Stainless Steel butt hinges with nessary screws.	50	sqm	1249.20	62460.00
24	Providing and fixing aluminium sliding door bolts anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc., complete.				
	300 X 16mm	15	each	90.70	1360.50
25	Providing and fixing aluminium tower bolts anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc., complete.				
	300 X 10mm	30	each	45.55	1366.50
26	Providing and fixing aluminium handles anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc., complete.				
	125mm	15	each	33.05	495.75
27	Providing and fixing IS:3564 marked aluminium die cast body tubular type universal door closer of approved quality and make with accessories and screws complete.	15	each	517.10	7756.50
28	Structural steelwork welded in built up sections like edge protection angles/insert plates with lugs & framed work including providing, cutting, hoisting, fixing in position/ embedding in concrete and applying a priming coat of approved steel primer all complete.	20400	kg	24.30	495720.00
29	Supplying and fixing rolling shutters of approved make, made of required size MS laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs grade no. 2 and MS top cover of required thickness for rolling shutters.				
	80 X 1.20mm MS laths with 1.20mm thick top cover.	7	sqm	620.75	4345.25
30	Providing and fixing ball bearing for rolling shutters.	2	each	241.30	482.60

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
31	Providing and fixing pressed steel door frames manufactured from commercial mild steel sheet of 1.25mm thickness including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50X25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with spit end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-Charge:				
	Profile A	100	RM	166.35	16635.00
32	Providing & fixing M.S fan clamp type I of 16mm dia MS bar bent to shape with hooked ends in R.C.C slabs during laying including painting the exposed portion of loop,all as per standard design complete.	10	each	40.15	401.50
33	Steelwork welded in built up sections/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc., as required.				
(a)	In covering of floors/trenches of control room building with chequered plates, stringers, treads, landings etc of staircases involving use of chequered plates, wherever required, all complete.	1000	kg	25.85	25850.00
(b)	In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works.	500	kg	29.15	14575.00
34	Providing and fixing hand rail by welding etc. to steel ladder railing ,balcony railing& staircase railing including applying priming coat of approved steel primer .				
	M.S. Tube (medium) 40mm dia	1000	kg	32.10	32100.00
35	52mm thick CC flooring with " Hardcrete" concrete hardner topping under layer 40mm thick CC 1:2:4 (1cement:2 coarse sand: 4 stone aggregate 20mm nominal size) and top layer 12 mm thick Hardcrete cement hardner consisting of mix 1:2 (1 cement hardner mix: 2 stone aggregate 6mm nominal size) by volume with which Hradcrete hardening compound of approved quality is mixed @ 2 liter Hardcrete per 50 Kg of cement including cement slurry, but excluding the cost of nosing of steps etc., complete.	750	sqm	172.40	129300.00
36	Cement plaster skirting (upto 30cm height) with cement mortar 1:3 (1cement: 3 coarse sand) finished with a floating coat of neat cement.				
	18mm thick	50	sqm	104.00	5200.00

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
37	Providing and fixing 20mm thick acid and or alkali resistant tiles of approved make and colour using acid and or alkali resistant mortar, bedding and joints filled with acid and or alkali resistant cement as per IS: 4457 complete as per directions of Engineer-in-charge.				
(a)	In flooring on a bed of 10mm thick mortar 1:4 (1 cement ; 4 coarse sand)				
(i)	Acid and alkali resistant tile.	140	sqm	650.25	91035.00
(b)	In dado/skirting on 12mm thick mortar 1:4 (1 cement ; 4 coarse sand)				
(i)	Acid and alkali resistant tile.	110	sqm	685.70	75427.00
38	Kota stone slab flooring over 20mm(average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with:				
	25mm thick (Base 1:4 (1 cement: 4 coarse sand)	350	sqm	493.10	172585.00
39	Kota stone slabs 25mm thick in risers of steps, skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1 cement: 3 Coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs including rubbing and polishing complete.	150	sqm	503.00	75450.00
40	Providing and fixing 1st quality ceramic glazed tiles conforming to IS:13753 of minimum thickness 5 mm of approved make and colours in skirting,risers of steps and dados over 12 mm thick bed of Cement mortar 1:3 (1 Cement:3 coarse sand) and jointing with grey cement slurry @3.3 kg/sqm including pointing in white cement mixed with pigment of matching shade complete.	60	sqm	373.30	22398.00
41	Providing and laying 1st quality ceramic glazed tiles 300X300 mm (thickness to be specified by manufacturer) conforming to IS:13755 of minimum thickness 7 mm of approved make and colours laid over 20 mm thick bed of Cement mortar 1:4 (1 Cement:4 coarse sand) including pointing in white cement mixed with pigment of matching shade complete.	100	sqm	478.90	47890.00
42	Making khurras 45X45cm with average minimum thickness of 5cm cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate of 20mm nominal size) over PVC sheet 1mX1mX400micron, finished with 12mm cement plaster 1:3 (1 cement: 3 coarse sand) and a coat of neat cement rounding the edges and making and finishing the outlet complete.	6	Each	68.50	411.00

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
43	Providing and fixing thermal insulation with Resin Bonded mineral wool conforming to IS:1883 ,density 16kg/cum,50mm thick,wrapped in 200G Virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.	600	sqm	129.70	77820.00
					0.00
44	Providing and fixing MS holder bat clamps of approved design to CI or SCI rain water pipes embedded in and including cement concrete blocks 10X10X10cm of 1:2:4 (1 cement:2 coarse sand: 4 graded stone aggregate 20mm nominal size) and cost of cutting holes and making good the walls, etc.				
	150mm dia.	60	each	57.70	3462.00
45	12mm cement plaster of mix				
	1:6 (1cement : 6coarse sand)	1550	sqm	46.60	72230.00
46	18mm cement plaster in two coats under layer 12mm thick cement plasterc1:5 (1 cement :5 coarse sand) finished with a top layer of 6mm thick 1:6 (1cement:6 fine sand)	1550	sqm	71.45	110747.50
47	6mm cement plaster to ceiling of mix				
	1:3 (1 cement : 3 fine sand)	1000	sqm	40.00	40000.00
48	Whitewashing with lime to give an even shade				
	New work (3 or more coats)	1000	sqm	4.65	4650.00
49	Distempering with oil bound washable distemper of approved brand and manufacture two or more coats over and including priming coat wioth cement primer	920	sqm	29.70	27324.00
50	Finishing walls with textured exterior paint"Sandtex Matt" of M/s Snowcem India Ltd.,or equivalent of required shade:				
	New work (Two or more coats applied @ 3.28ltr/10sqm)over and including base coat of water proofing paint applied @2.2kg/10sqm.	1000	sqm	80.00	80000.00
51	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming of ready mixed zinc chromate yellow primer on new work.				
	150mm diameter pipes	144	RM	15.35	2210.40
52	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade.				
	Two or more coats on new work.	900	sqm	30.80	27720.00
53	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:				
	Two or more coats on new work.	150	sqm	24.25	3637.50
	1.7				

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
54	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade.				
	Two or more coats on new work.	310	sqm	23.40	7254.00
55	Forming groove of uniform size from 12X12mm and upto 25X15mm in plastered surface and joints of ceiling and wall as per approved pattern using wooden battens, nailed to the underlayer including removal of wooden battens, repairs to the edges of plaster panel and finishing the groove complete as per specifications and directions of the Engineer-in-charge.	1000	RM	9.50	9500.00
56	Making plinth protection 50mm thick of CC 1:3:6 (1 cement:3 coarse sand: 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	85	sqm	131.20	11152.00
57	Brick edging 7 cm wide 11.4 cm deep to plinth protection with bricks of class designation 75 including grouting with cement mortar 1:4 (1 Cement :4 fine sand)	113	metre	11.05	1248.65
58	Providing and fixing white vitreous china water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast iron P or S trap, 10 litre low level P.V.C. (Photo voltaic control) flushing cistern (of approved make) with fittings, C.I./M.S. brackets, 32 mm diameter flush pipe with fittings and clamps, overflow arrangement with specials and mosquito proof coupling of approved municipal design including painting of fittings and brackets, cutting and making good the walls and floors wherever required.				
	Orissa pattern W.C. Pan of size 580 x 440 mm with integral type foot rests flush pipe and overflow arrangement.	2	each	1767.45	3534.90
59	Providing and fixing white vitreous china pedestal type water closet (European type W.C. Pan) with seat and lid, C.P. Brass hinges and rubber buffers, 10 litre low level flushing cistern with fittings & CI/MS brackets 40mm dia flush bend , overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design compete including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
	W.C. pan with black solid plastic seat and lid with white vitreous china flushing cistern and CP flush bend.	2	each	2655.70	5311.40

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
60	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430 x260x 350 mm and 340 x 410 x 265 mm sizes respectively with automatic flushing cistern with C.I./ M.S brackets standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:				
	Range of two urinal basins with 5 litre P.V.C (Photo voltaic control) automatic flushing cistern .	4	each	2344.15	9376.60
61	Providing and fixing white vitreous china wash basin (with PVC control system) with C.I./M.S. Brackets, 15 mm C.P. Brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required:				
	Flat back wash basin size 550 x 400 mm with a pair of 15 mm C.P. brass pillar taps.	2	each	2000	4000.00
62	Providing and fixing stainless steel kitchen sink as per I.S. 13983 with C.I. Brackets and stainless plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required.				
	610X510X200 mm	1	each	1265.45	1265.45
63	Providing and fixing white vitreous china laboratory sink with C.I. Brackets CP brass chain and rubber plug 40 mm CP brass waste and 40mm CP brass trap with necessary brass unions complete including painting of fittings and brackets, cutting and making good the walls wherever required.				
	Size 600 X 450 X 200 mm	1	each	1668.95	1668.95
64	Providing and fixing 100 mm sand cast iron grating for gully, floor or Nahani trap.	3	each	9.65	28.95
65	Providing and fixing 600 x 450 x5.5 mm bevelled edge mirror of float glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. Brass screws and washers complete.	2	each	385.90	771.80
66	Providing and fixing 600 x 120 x 5 mm glass shelf with edges rounded off supported on anodised aluminium angle frame with C.P. Brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc. complete.	2	each	146.65	293.30

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
67	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with C.P. Brass screws with concealed fitting arrangement of approved quality and make.				
68	600 mm long towel rail with total length of 645mm,width 78mm and effective height 88mm,weing not less than 190gms.	2	each	244.55	489.10
69	Providing and fixing PTMT liquid soap container 109mm wide,125mm high and 112mm distance from wall of standard shape with bracket of same materials with snap fittings of approved quality ,colour and make ,weighing not less than 105 gm (Prayag or equivalent).	2	each	113.65	227.30
70	Providing and fixing Hand drier electrically operated with photo voltaic control with all fittings etc.	2	each	6000.00	12000.00
71	Providing and fixing toilet paper holder. CP brass.	2	each	83.65	167.30
72	Providing and fixing soil, waste and vent pipes: 100 mm dia. Sand cast iron S & S pipe.	15	RM	258.95	3884.25
73	Providing and fixing M.S holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10 x 10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of cutting holes and making good the walls etc. For 100 mm dia pipe	10	each	44.35	443.50
74	Providing lead caulked joints to SCI pipes and fittings of diameter 100mm	10	each	78.45	784.50
75	Providing and fixing SCI trap of self cleansing design with SCI screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 100mm inlet and 100mm outlet.	6	each	359.80	2158.80
76	Providing and fixing G.I. Pipes complete with G.I. Fitting and clamps , including cutting and making good the walls etc. (internal work).				
(a)	15 mm dia nominal bore.	150	RM	62.65	9397.50
(b)	20 mm dia nominal bore.	100	RM	78.65	7865.00
(c)	25 mm dia nominal bore.	80	RM	103.85	8308.00
77	Providing and fixing G.I. Pipes complete with G.I. Fitting and clamps , including trenching and refilling, etc. (external work).				
(a)	15 mm dia nominal bore.	200	RM	54.25	10850.00
(b)	20 mm dia nominal bore.	200	RM	66.75	13350.00

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
©	40 mm dia nominal bore.	20	RM	116.50	2330.00
78	Making connection of GI distribution branch with GI main of following sizes by providing and fixing tee, including cutting and threading the pipe etc., complete.				
	25 to 40mm nominal bore.	1	each	117.75	117.75
79	Providing and fixing brass bib cock of approved quality				
80	15mm nominal bore	4	each	100.15	400.60
81	Providing and fixing brass stop cock of approved quality				
	15mm nominal bore	4	each	100.15	400.60
82	Providing and fixing brass gate valve with CI wheel of approved quality (screwed end)				
(a)	25mm nominal bore	2	each	168.75	337.50
83	Providing and fixing ball valve brass of approved quality complete.				
	High or low pressure with plastic floats				
	15mm nominal bore	2	each	109.75	219.50
84	Providing and placing on terrace (at all floor levels) polyethylene water storage tank of approved brand and manufacture with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. The tank should be ISI marked .	3000	per litre capacity	3.95	11850.00
85	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:3 (1 cement : 3 fine sand) including testing of joints etc. complete.				
(a)	100 mm diameter.	50	RM	77.05	3852.50
(b)	150 mm diameter.	50	RM	110.35	5517.50
86	Providing and fixing square-mouth S.W. Gully trap grade 'A' complete with C.I. Grating brick masonry chamber with bricks of class designation 75 and water tight C.I. Cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as standard design.:				
	100 x 100 mm size P type				
	With F.P.S bricks	2	each	489.20	978.40

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
87	Constructing brick masonry manhole with 75 class designation bricks in cement mortar 1:4 (1 cement: 4 coarse sand) RCC top slab with 1:2:4 mix(1 cement:2 coarse sand: 4 graded stone aggregate 20mm nominal size) foundation concrete 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 mix(1 cement:2 coarse sand: 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design.				
	Inside size 90X80cm and 45cm deep including CI cover with frame (light duty) 455X610mm internal dimensions total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg)				
	With FPS bricks	2	each	2740.85	5481.70
88	Extra for depth for manholes				
	Size 90X80cm				
	With FPS bricks	1	RM	1702.15	1702.15
89	Making soak pit 2.5m diameter 3m deep with 45X45cm dry brick honeycomb shaft with bricks of class designation 75 and SW drain pipe 100mm diameter, 1.8m long complete as per standard design.				
	With FPS bricks	1	each	6396.25	6396.25
90	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded builtup standard tubular and other sections of approved make conforming to IS: 733 and IS:1285, anodised transparent or dyed to required shade according to IS: 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips or with expansion fasteners including necessary filling up of gaps at junctions at top, bottom and sides with required PVC/neoprene felt, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing/panelling, CP brass/stainless steel screws, all complete as per architectural drawings and direction of Engineer-in-charge. (Glazing and panelling to be paid for separately).				
(a)	For fixed portion	800	kg	188.20	150560.00
(b)	For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and fittings wherever required including the cost of PVC/neoprene gasket required	1600	kg	189.50	303200.00

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
91	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions, etc., with PVC/neoprene gasket, etc., complete as per the architectural drawings and directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item).				
	With glass panes of 5.5mm thickness (weight not less than 13.75kg/sqm)	300	sqm	525.75	157725.00
92	Providing and fixing double action hydraulic floor spring of approved brand and manufacture (conforming to IS:6315) for aluminium door including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece MS sheet outer box with slide plate etc., complete as per the directions of Engineer-in-charge. : SS cover plate.	16	each	1626.85	26029.60
93	Providing and laying roof water proofing treatment including preparation of surface as supply of materials,labour etc. required for treatment of roofs, balconies, terraces, etc.as per Customer's Specification Doc. No. CS-9558-572-2 Clause 4.00 complete.	1350	sqm	282.80	381780.00
94	Providing & fixing in position precast cement concrete trench covers, coping, roof units, fascia, RCC grills, etc., at various elevations in all kinds of work including moulding, formwork, mixing, laying out, compacting and curing, storing, transportation, erection without damage, setting in position with cement and sand mortar, grouting etc all as per specs, drawings and directions of Engr-in-Charge but excluding the cost of reinforcement, inserts, edge angles, etc, and of following grade:				
	M25	15	cum	3500.00	52500.00
95	Providing and laying of 7 mm minimum thick pre-polished vitrified tiles 600X600 mm of approved make and colours laid over 20 mm thick bed of Cement mortar 1:4 (1 Cement:4 coarse sand) including pointing in white cement mixed with pigment of matching shade complete as per direction of Engineer-in charge.	900	sqm	800.00	720000.00
96	Providing and fixing on wall face CI rain water pipes as per IS 1729 including filling the joints with spun yarn, soaked in neat cement slurry and cement mortar 1:2 (1 cement: 2 fine sand).				
	150mm dia.	144	RM	500.00	72000.00
97	Providing and fixing on wall face CI accessories for rain water pipes including filling the joints with spun yarn soaked in neat cement slurry and cement mortar 1:2 (1 cement: 2 fine sand)				

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
(a)	CI plain bend : 150mm dia.	12	each	156.00	1872.00
(b)	CI plain shoes :150mm dia	12	each	156.00	1872.00
98	Providing & fixing 0.5mm thick precast Al-Lineal false ceiling in approved pattern all complete as per Customer's specification (Clause no: 8.03 Doc No: CS9558-572-2)	170	sqm	1000.00	170000.00
99	Providing & applying resin bonded granular textured finish on external surfaces (Vineratex or equivalent) consisting of crushed stone /quartz chips of 0.5mm to 2.5mm size of approved colour bonded with synthetic resins, adhesive and additive all mixed in a single pack mix all complete.It shall be applied externally on cured and dried plasterd surface ,with a dry film thickness of min. 2 mm.The final finish shall have UV -Resistant, fungus/bacterial resistant properties.	350	sqm	200.00	70000.00
100	Providing & fixing Gypsum board false ceiling in approved pattern all complete as per Customer's specification (Clause no: 8.02 Doc No: CS 9558-572-2 .)	600	sqm	650.00	390000.00
101	Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter and length with rotary hydraulic drilling rig below pile cap in M25 cement concrete, to carry safe working load not less than 140 MT ,excluding the cost of steel reinforcement but including the cost of boring with casing and/or bentonite solution and the length of the pile to be embeded in the pile cap including breaking of pile head as necessary. (Length of pile for payment shall be measured upto bottom of pile cap).				
	600 mm dia piles.	21000	meter	1380	28980000.00
102	Conducting load test on pile including provision and erection of kentledge, anchor piles, load cells for measurement and submission of test result (Excluding cost of installation of piles)				
	a) Initial vertical (cyclic) load test on pile upto 3 times safe vertical load carrying capacity. - 600 mm dia and 140 Ton capacity	4	EACH	42627	170508.00
	b) Initial lateral load test on pile upto 3 times safe lateral load carrying capacity. - 600 mm dia and 140 Ton capacity	4	EACH	42627	170508.00
	c) Initial pullout load test on pile upto 3 times safe pullout load carrying capacity. - 600 mm dia and 140 Ton capacity	4	EACH	42627	170508.00

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
	d) Routine vertical load test on pile for 1.5 times safe vertical load carrying capacity - 600 mm dia and 140 Ton capacity	3	EACH	29189	87567.00
	e) Routine lateral load test on pile for 1.5 times safe lateral load carrying capacity - 600 mm dia and 140 Ton capacity	3	EACH	29189	87567.00
103	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	1400	100 sqm	173.6	243040.00
104	Felling of trees of girth (measured at a height of 1m above ground) including cutting of trunks and branches removing the roots and disposal of above as per direction of Engineer -in- Charge.				
	Beyond 30 cm girth upto and including 60cm girth	5	each	53.6	268.00
	Beyond 60 cm girth upto and including 120cm girth	5	each	236.35	1181.75
	Beyond 120 cm girth upto and including 240cm girth	5	each	1090.6	5453.00
	Above 240 cm girth	1	each	2188.85	2188.85
105	Providing and fixing (all dia & length) foundation bolts in position with help of proper templates including nuts and washers all complete as per specs, drawings & directions of Engr-in-Charge	80000	kg	40.15	3212000.00
106	Extra over Item above for providing galvanised bolts (Mass of zinc coating = 610gms/sqm), nuts & washer	80000	kg	5	400000.00
43	For item of works which are required for successful completion of work but not covered in above BOQ items, but are covered under DSR-2002, the quoted figure at serial no "a" of price schedule format shall be applicable and binding to the bidder .	--			

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