

BILL OF QUANTITY CUM PRICE SCHEDULE

Name of Project:

765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU

Name of Work:

CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
1	Earth work excavation and depositing on bank with initial lead of 10m and initial lift of 2m in hard stiff clay, stiff black cotton soil, hard red earth, shales, murram, gravel, stoney earth and earth mixed with small size boulders as per standard specification including dewatering etc, complete.	2				
(a)	In Hard stiff clay and gravelly soil	2a.	56227	cum	130.64	7345495.28
(b)	In soft disintegrated rock not requiring blasting	2b.	22375	cum	199.73	4468958.75
(c)	In medium & dense medium rock not requiring blasting	2c.	11237	cum	347.37	3903396.69
(d)	In medium & dense medium rock requiring blasting	2d.	11357	cum	275.51	3128967.07
(e)	Removal of hard rock by blasting	2e.	9062	cum	351.28	3183299.36
(f)	Removal of hard rock by wedging & chiselling/using compressor and jack hammer	2f.	2205	cum	495.00	1091475.00
2	Refilling the foundation and basement with excavated earth including ramming as per specification, leads and lifts etc., complete.	3	112995	cum	84.64	9563896.80
3	Filling the foundation, basement and yard area with quarry dust including ramming, leads and lifts, cost of materials, etc. complete as per standard specification	4	4391	cum	1255.37	5512329.67
4	Filling the foundation and basement with river sand including watering, ramming, lead and lifts, cost of materials, etc. complete as per standard specification	5	1878	cum	756.79	1421251.62
5	Providing anti termite treatment in 4 stages (I) immediate after excavation and before laying foundation concrete (II) after refilling for sides of foundation (III) Before laying of flooring concrete (IV) outside of basement upto 1m around the building using termite 250ml for 5lit of water etc. complete as per standard specification (Supply of Chemical shall be paid in Item No.6)	6	1775	Sqm	89.13	158205.75
6	Supplying chemical emulsion in sealed containers including delivery as specified.					
	Chloropyriphos emulsifiable concentrate of 20%	6	555	litre	187.81	104175.86
7	Plain cement concrete 1:3:6 using 20mm (machine crushed) hard broken stone including cost of all materials, labour, curing, leads and lifts etc; complete. Without formwork as per standard specification	7	10123	Cum	4064.24	41142301.52
8 a)	RCC 1: 1.5 : 3 using 12 to 20mm size HBG stone including cost of all materials, form work, centering and curing all leads, lifts etc., complete but excluding cost of reinforcement. For foundation	8a	19986	cum	5398.65	107897418.90
b)	RCC 1:1.5:3 mix using 12 to 20mm size hard broken stone including cost of all materials, form work, centering and all leads, lifts etc., complete but excluding cost of reinforcement. For columns below ground level	8b	152	cum	5699.68	866351.36
9	RCC 1:1.5:3 mix using 12 to 20mm size HBG including cost of all materials, form work, centering, curing and all leads, lifts etc., complete as per specification but excluding cost of reinforcement. For Plinth Beam/Grade Beam	9	289	Cum	7264.78	2099521.42
10	RCC 1:1.5:3 mix using 12 mm to 20mm size HBG stone including cost of all materials, form work, centering,vibrating, curing and all leads, lifts etc., complete as per specification but excluding cost of reinforcement. For columns				0.00	0.00

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
a	Ground floor	10a)	264	Cum	6346.99	1675605.36
b	First floor	10b)	51	Cum	6346.99	323696.49
c	Second floor	10c)	5	Cum	6346.99	31734.95
11	RCC 1:1.5:3 mix using 12 mm to 20mm size HBG stone including cost of all materials, form work, centering,vibrating, curing and all leads, lifts etc., complete as per specification but excluding cost of steel reinforcement. For beams (rib portion only) in all floors	11	580	Cum	7264.78	4213572.40
12	RCC 1:1.5:3 mix using 12 mm to 20mm size hard broken granite stone including cost of all materials, form work, centering, curing and all leads, lifts etc., complete as per specification but excluding cost of reinforcement. For slab	12				
a	Slab 150 mm thick over ground floor	12a)	270	Cum	7992.53	2157983.10
b	Slab 100 mm thick over porch	12b)	19	Cum	8935.47	169773.93
c	Slab 130 mm thick over first floor	12c)	70	Cum	8306.85	581479.50
d	Slab 130 mm thick over second floor	12d)	10	Cum	8306.85	83068.50
13	RCC 1:1.5:3 using 12mm to 20mm HBG stone including cost of all materials, form work, centering, curing and all leads, lifts etc., complete but excluding cost of reinforcement. For Lintel as per standard specification	13				0.00
a	Ground floor	13a)	56	Cum	7912.09	443077.04
b	First floor	13b)	6	Cum	7912.09	47472.54
c	Second floor	13c)	2	Cum	7912.09	15824.18
14	Plain cement concrete 1:4:8, 100mm thick using 20mm hard broken granite stone including cost of all materials, form work for leveling course of floor finished to receive granolithic floor etc., complete as per standard specification	14	158	Cum	3834.69	605881.02
15	RCC 1:1.5:3 using 12mm to 20mm hard broken granite stone including cost of all materials, form work, centering, curing etc but excluding cost of reinforcement. For sunshade including the front (chajja)	15	23	Cum	8306.85	191057.55
16	Supplying and fixing PVC downfall pipes 100/110 mm dia with working pressure 6kg/cm ² necessary couplings, grating shoes,bends, clamps etc complete including cost of all materials and making holes in masonry / concrete and restoring affected surface to original condition.	16	430	RM	208.97	89857.10
17	Brick work in CM 1:5 using II Class chamber burnt bricks for basement & super structure including cost of all materials, scaffolding, leads, lift and curing etc., complete.	17				
a	For ground floor	a	566	Cum	3446.52	1950730.32
b	For first floor	b	370	Cum	4011.72	1484336.40
c	For Second Floor	c	10	Cum	4011.72	40117.20
18	Brick work in CM 1:3 using II Class chamber burnt bricks including cost of material, scaffolding all labour, leads and lifts, etc, complete as per standard specification .	18				
a	For Ground Floor	a	145	Cum	3736.93	541854.85
b	For First Floor	b	51	Cum	4302.11	219407.61
c	Second floor	c	5	Cum	4302.11	21510.55

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
19	Granolithic cement concrete PCC 1:2:4 for floor finish 20 mm thick using stone chippings of 10 mm size and below including cost of all materials, labour, lead, lift etc., complete as per standard specification .	19	265	Sqm	141.43	37478.95
20	Supply and fixing in position of double leaf anodised aluminium glazed main door using door outer frame 101.60 x 44.45 x 2.10mm @ 1.608Kg/M and door inner frame side and vertical 53.70 x 44.45 x 2.30mm @ 1.238 Kg/M, door bottom section 83.50 x 44.45 x2.40mm@ 1.679Kg/m and divider and top of door frame 47.62 x 44.45x 2.17 mm@ 1.072 Kg /M glazing clips of 17.30 x 19.0 x 0.60mm @ 0.083 Kg/M with std.quality hydraulic floor spring, automatic door closure, rubber beedings, hinges, handle, etc., with 5.50mm thick sun cool glass, etc., complete. Double leaf main door complete as per standard specification .	20	10	Sqm	4500.00	45000.00
21	Supply and fixing of steel door using 50x50x6mm for outer frame 25x25x6mm for shutter frame with MS flat 25x6mm 3 nos and for panels with 12mm thick one side laminated MDF duratuff exterior quality with bolts, washer, hinges 12mm dia tower bolt of 200x38x2.4mm at top and 150x38x2.4mm at bottom 1 No 250x16mm aldrop etc., complete as per standard drawing and specn as well as per approval of Engineer at site (Size of the door D1 1500 X 2500mm single leaf)	21	4	Sqm	4500.00	18000.00
22	Supply and fixing in position of anodised aluminium partially glazed double leaf door using outer frame 101.60 x 44.45 x 2.10mm @ 1.608Kg/M and door inner frame side and vertical 53.70 x 44.45 x 2.30mm @ 1.238 Kg/M, door bottom section 83.50 x 44.45 x2.40mm@ 1.679Kg/m and divider and top of door frame 47.62 x 44.45x 2.17 mm@ 1.072 Kg /M glazing clips of 17.30 x 19.0 x 0.60mm @ 0.083 Kg/M, rubber beedings, hinges, handle, hydraulic floor spring, automatic door closer etc, and with 12mm tk. one side laminated board at bottom half portion and top half portion with 5.50mm thick sun cool glass including cost of all materials, lead, lift, etc, complete, as per standard specification for double leaf	22	41	Sqm	4500.00	184500.00
23	Supply and fixing in position of anodised aluminium partially glazed single leaf door using outer frame 101.60 x 44.45 x 2.10mm @ 1.608Kg/M and door inner frame side and vertical 53.70 x 44.45 x 2.30mm @ 1.238 Kg/M, door bottom section 83.50 x 44.45 x2.40mm@ 1.679Kg/m and divider and top of door frame 47.62 x 44.45x 2.17 mm@ 1.072 Kg /M glazing clips of 17.30 x 19.0 x 0.60mm @ 0.083 Kg/M, rubber beedings, hinges, handle, hydraulic floor spring, automatic door closer etc, and with 12mm tk. one side laminated board at bottom half portion and top half portion with 5.50mm thick sun cool glass including cost of all materials, lead, lift, etc, complete as per standard specification. single leaf door	23	144	Sqm	4500.00	648000.00

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
24	Supply and fixing of solid PVC door with frame made out of rigid thermo vinyl polymer extruded section of size 62mmx51mm with 2mm wall thickness, shall be reinforced with special polymeric rods of size 255mmx30mmx25mm and with EPDM gaskets along the frame. The door shutter frame of 40mm thick made out of one piece moulded rigid thermo vinyl polymer extruded section of size 25mmx40mm with 2mm wall thickness is mitred and joined at corners by stainless steel/ aluminium screws. The infill of the door shutter consists of a seamless one piece multichamber hollow rigid thermo vinyl polymer section of size 762mmx35mm with 1mm wall thickness and with prelaminated glossy finish on either side of door shutter of suitable size including cost of all materials lead lift etc., complete as per standard specification	24	21	Sqm	4040.00	84840.00
25	Supplying and fixing of steel window partly openable, partly fixed with grill (Size of the window W2 1475 X 1475 mm as per IS 1038- 1958 (1245 IS) using 50x50x2mm and 25x25x2mm section glazing clips rubber beadings hinges handle 5 mm thick sun cool glass panning including cost of materials, lead, lift etc complete as per standard specification	25	7	Sqm	4545.00	31815.00
26	Supply and fixing in position of anodized aluminium glazed sliding window as per ISS 1038 1958 (1245 ISS) using aluminium sections window frame bottom two track sliding 61.85 x 31.75 x 1.50mm @ 0.909 Kg / m, top & side 61.85 x 31.75 x 1.50mm @ 0.784 Kg / m shutter plain out side 40 x 18 x 1.55mm @ 0.547 Kg /m shutter inner lock 40 x 18 x 1.45 mm @ 0.607 Kg /m shutter runner top & bottom 40 x 18 x 1.55mm @ 0.547 Kg / m with glazing clips rubber gaskets sliding wheel & 5.50mm thick sun cool glass panelling including cost of all materials, locking arrangements labour, lead, lift, etc., complete. as per standard specification.	26	457	Sqm	2775.82	1268549.74
27	Supplying and fixing fire rated (two Houres) door as approved make including cost of all materials lead lift etc., complete as per standard specification	27	9	Sqm	12470.63	112235.67
28	Supply and fixing of Aluminium ventilator with glazed louvers as per the direction of the department Engineer size 1575 X 975 mm including the cost of all materials, labour, lead, lift, T&P, all fittings etc complete complete as per standard specification (sample to be approved by dept Engineer at site)	28	21	Sqm	4500.00	94500.00
29	Supply and fixing of Aluminium ventilator with glazed louvers as per the direction of the site engineer size 750 X 450mm including the cost of all materials, labour, lead, lift, T&P, all fittings etc., complete (sample to be approved by dept Engr at site) complete as per standard specification.	29	18	Sqm	4500.00	81000.00
30	Supplying and fixing rolling shutter mechanically operated with gear box crank handle top cover of 18 gauge thick MS sheet anchoring rod, hasp & shackle to details including labour and materials for providing pockets to guides of rolling shutters making necessary holes in masonry or concrete 1:2:4 and making good, including one shop coat of anit-corrosive primer erectd in position (size 2500x2500mm) with high tension coils, type spring arrangements as directed by department Engineer at site (SR.102 b) complete as per standard specification.	30	6	Sqm	3535.00	22093.75

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
31	Supplying and fixing in position of Chromium coated hand rail of 75mm pipe to fix at a height of 1000 mm with support of 25mm above square / round box including cost of all materials, labour, lead, lift, T&P etc. complete as directed by dept Engineer at site complete as per standard specification.	31	50	RM	949.40	47470.00
32	Fabricating and placing in position of MS/RTS steel reinforcement for RCC works including labour for cutting, bending, tying and fixing in position as per specification including cost of all materials, lead, lift, labour including cost of binding wire, etc., complete. complete as per standard specification.					
a	Including Supply of MS/RTS Steel Reinforcement	32	100	MT	50323.45	5032345.00
b	Excluding Supply of MS/RTS Steel Reinforcement (Refer to Note No. 1)		2043	MT	7353.51	15023220.93
33	Flooring with approved joint free verified tiles 600x 600mm of approved quality, design & colour (Johnson or equivalent make) laid in cement mortar 1:3 -20mm thick including pointing with same coloured cement using 0.4kg/sqm, finishing the joints, including cost of all materials, labour, lead, lift, etc. complete. complete as per standard specification.	33	2031	Sqm	1350.47	2742804.57
34	Dadoing walls with approved quality of glazed tiles, size and design (Johnson or equivalent make) laid in cement mortar 1:2 -10mm thick including pointing with same coloured cement using 0.4kg/sqm, finishing the joints and pointing flush with the surface , including cost of all materials, labour, lead, lift, etc., complete.as per standard specification.	34	617	Sqm	731.49	451329.33
35	Providing and laying in position of ceramic acid resistant tiles over a bed of 20mm thick CM1:3 including painting with acid resistant C.M for flooring in battery room, including cost of all materials, labour, lead, & lift, etc., complete. as per standard specification.	35	47	Sqm	1086.36	51058.92
36	Flooring with Eurocon tiles 20mm Tk. Of approved quality embedded in CM 1:3, and painting with same coloured grout powder For portico including cost of cement, all materials,curing, labour, lead and lift etc., complete. as per standard specification.	36	50	Sqm	962.73	48136.50
37	Supply and fixing granite stone colour including cost of all materials labour lead lift etc. complete. as per standard specification.	37	375	Sqm	1622.77	608538.75
38	Plastering with CM 1:5, 12mm thick for interior faces of walls in all floors including cost of all materials and scaffolding etc. complete. as per standard specification.	38	3213	Sqm	122.26	392821.38
39	Plastering with CM 1:3, 12 mm thick for AC Exhaust Fan supports outside including cost of all materials , scaffolding etc. complete. as per standard specification.	39	748	Sqm	133.42	99798.16
40	Plastering with CM 1:3, 12mm thick to the exposed faces of RCC slabs, sides and soffits of beams in all floors with out chicken mesh including cost of all materials and scaffolding etc. complete. as per standard specification.	40	5199	Sqm	133.42	693650.58

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
41	Plastering with CM 1:3, 12mm thick to the exposed faces of RCC slabs, sides and soffits of beams in all floors with chicken mesh including cost of all materials and scaffolding etc.complete,as per standard specification.	41	500	Sqm	178.87	89435.00
42	White washing two coats with white cement for ceiling in all floors and exposed faces of beams including cost of all materials and scaffolding etc. complete. as per standard specification.	42	3933	Sqm	45.40	178558.20
43	Painting the inside walls with two coats of interior emulsion over a primer coat of approved colour and quality including putty finishing, cost of all materials, lead and lift etc., complete as per standard specification.	43	1240	Sqm	173.32	214916.80
44	Painting two coats acid proof paint of approved colour over a priming coat of white cement for battery room including putty finish, cost of all materials, labour, lead, lift etc., complete for interior walls as per standard specification	44	83	Sqm	163.47	13568.01
45	Painting the outside walls with two coats of exterior emulsion over a primer coat of approved colour and quality including cost of all materials, lead and lift etc., complete as per standard specification	45	2029	Sqm	60.85	123464.65
46	Weathering course over roof slab with brick jelly 20 mm size and lime mortar in the ratio of 32:12.5 to an average thickness of 80mm and to required slope and providing one course of pressed tiles of size 230x230x20 mm set in C.M 1:3 mixed with crude oil 10% by weight of cement and pointing with CM 1:3 mixed with crude oil etc as per standard specification (including water proofing treatment over roof to prevent leakage)		663	Sqm	950.00	629850.00
47	Plinth Protection all round the building for one metre width and 100mm thick with M10 concrete using 40 mm HGS and finishing surface with CM 1:3, 12mm thick as directed by department Engineer at site , including cost of all materials and scaffolding etc., complete as per standard specification.	47	130	RM	616.23	80109.90
48	Damp proof course with cement mortar 1:3,20mm thick with water proofing compound including cost of all materials lead lift etc. complete as per standard specification	48	25	Sqm	200.23	5005.75
49	Painting with two coats of approved synthetic enamel paint over a primer coat to doors, windows , ventilators and rolling shutters including cost of all materials and scaffolding etc complete as per standard specification.	49	58	Sqm	54.39	3154.62
50	Providing & fixing one mono-rail of length 3m with 2 Nos. chain pulley block of 5 tonnes capacity each as directed by Department Engineer at site including cost of all materials and scaffolding etc complete as per standard specification.	50	1	Set	237764.16	237764.16
51	Supply & fixing of 50 mm dia PVC pipes to sunshades,porch, roof slabs etc including cost of all materials ,all leads & lifts etc., complete as per standard specification.	51	50	RM	519.49	25974.50

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
52	Supplying and fixing in position aluminium partition partly glazed & partly panelled above 12mm thick both side prelaminated boards [MDF exterior grade] and 5mm thick machine frosted float glass 9 modi, Saint gobine or Equivalent using aluminium box section of not less than 63x38.4x2mm x 1.174kg/m for vertical@ 955mm c/c approx and horizontals[4Nos] including cost of all materials, labour, lead, lift,T&P etc., complete as per standard specification	52	50	Sqm	1818.00	90900.00
53	Supply ,fabrication, galvanising and erection of cable rack supports and ladder made of ISMB 150 RSJ and 50x50x6 / 5 mm angles which are to be welded to 10/8 mm plates including cost of all materials, lead, lift etc., complete as directed by department Engineer at site as per standard specification	53	10	MT	70700.00	707000.00
54	Supplying and fixing musical quartz type wall clock of size 30x30cm of approved quality such as Ajantha/Seiko/Citizen etc including cost of transport fixing charges etc complete. as per standard specification	54	4	No	503.01	2012.04
55	Supplying and fixing in position of sun control polyester flim, reflective type 75 microns thick (gareware or equivalent) including the cost of all materials, labour, lead, lift, T&P, etc.,complete as per standard specification	55	750	Sqm	239.76	179820.00
56	Supplying and fixing black granite stone Engraved foundation detail and year of construction fixing in wall at entrance, Digital wall clock 2 Nos, floor coir mat 2000x600 for entrance 1000x500 - 2 Nos. for office of approved make and quality including the cost of all materials, leads, lifts etc., complete as per standard specification	56	1	set	125752.50	125752.50
57	Providing gypsum board false ceiling including supplying and fixing of Gypsum board 12.5 mm thick using required size of Anodized Aluminium section, perforated gypsum board with all materials, labour, lift, T&Ps etc, including providing opening, out holes for fixing light and fan fittings wherever necssary all including cost of all materials , leads, lift, etc., as directed by the Engineer in charge complete as per standard specification	57	750	Sqm	698.31	523732.50
58	Providing gypsum board false ceiling with deck insulation using 50 mm thick including supplying and fixing of Gypsum board 12.5 mm thick using required size of Anodized Aluminium section, perforated gypsum board with all materials, labour, lift, T&Ps etc, including providing opening, out holes for fixing light and fan fittings wherever necssary all including cost of all materials leads, lift, etc., as directed by the Engineer in charge complete as per standard specification	58	200	Sqm	1134.33	226866.00
59	Supply of steel furniture manufacture by 'TANSI' or any other ISI mark including cost of all materials, labour, lead and lift etc., complete. sample to be approved by department Engineer (Main C. Room Building).	59				
a	S Type chair (Local rate)	a	10	Nos	838.35	8383.50
b	Three drawer steel table	b	15	Nos	8383.5	125752.50
c	Steel side rack open type 4 self	c	10	Nos	4191.75	41917.50
d	Steel half bench	d	10	Nos	838.35	8383.50
e	Revolving Chair	e	15	Nos	6706.8	100602.00
f	Operator Table 6'x5'	f	5	Nos	4191.75	20958.75

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
g	PVC Chair of reputed make	g	15	Nos	838.35	12575.25
60	Providing rain water recharge bore holes by drilling of 300 mm dia bore hole 6.00 m depth and filling the holes with hard broken stone of size 40 mm as directed by Engineer at site including the cost of all materials, lead, lift, labour, T&P etc., complete as per standard specification.	60	60	RM	685.16	41109.60
61	Supply, Fabrication & fixing of Name Board of vinyl sticker laminated in alco panel using 18 gauge M.S. sheet with outer in suitable angle and stiffener including cost of all materials, leads & lifts etc., complete. As per standard specification.	61	10	Sqm	553.04	5530.40
62	Supplying and fixing the chequered plate of 8 mm thick for platform in Mono Rail area in the control room including the cost of all materials, labour charges, leads, lifts, etc., complete as per standard specification.	62	2750	Kg	67.87	186642.50
63	Supplying and fixing the name / designation stickers in doors identifying the rooms including cost of material, labour etc. complete as per standard specification.	63	75	Nos	423.78	31783.50
64	Supply and fixing 110mm PVC down fall pipe 6kg/cm ² avonplast or Finolex make with required bend, tee and GI wall clamp at 90cm intervals including cost of materials, labour, lead and lift etc., complete. as per standard specification.	64	150	RM	208.97	31345.50
65	Supplying and fixing of 100mm dia. stoneware pipe with open joint and covered with pan tiles including all cost of materials lead lift etc complete. as per standard specification.	65	7	RM	151.60	1061.20
66	Supplying and fixing 110mm dia PVC bend including cost of materials, labour lead lift, etc., complete as per standard specification.	66	4	No	158.52	634.08
67	Supplying and fixing 110mm dia PVC TEE including cost of materials, labour lead lift, etc. Complete as per standard specification.	67	4	No	305.07	1220.28
68	Supplying and fixing at 110mm dia, best quality ventilating shaft 3.65m height with PVC cowl at top and fixing in position including cost of all materials, curing labour, leads and lifts etc., complete as per standard specification.	68	2	Set	762.74	1525.48
69	Supplying and fixing in position of best quality mirror (22" x 16") with aluminium frame over wash basin including cost of all materials labour, lead, lift, etc. complete as directed by the Engineer at site and as per standard specification.	69	2	Nos	680.79	1361.58
70	Supply and fixing of wash basin of size 560x410mm white colour and of approved quality and make [Parryware or equivalent] with 12/15mm dia brass CP pillar tap [waterman], 32mm PVC waste pipe [Kohinoor], 12/15mm CP angle cock [ISI], 15mm brass nipple, 15mm nylon connection [Kohinoor] etc. fixing the basin in the wall with GI/Alu. brackets and rag bolt and nut, giving necessary water connection etc., and mirror with beveled edge fixed with suitable CP brass screws etc., complete as per standard specification.	70	9	Set	1696.30	15266.70

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
71	Supplying and fixing of European type water closet with flushing cistern of Neycer/Parry ware with "P" or "S" trap ,seat cover 15 mm dia connecting hose 2 nos 15 mm dia CP angle valve,hand shower -1 No. including cost of all materials ,lead lift etc., complete as directed by department Engineer at site and as per standard specification.	71	4	Set	2913.95	11655.80
72	Supplying and fixing in position IWC ORISSA PAN of size 580X420mm white glazed earthen ware of approved make & quality with 'P' or 'S' trap conforming to IS - 2556 Part XII [Parryware or Equivalent] with sand cushion and forming flooring around the closet using 40mm broken brick jelly in lime concrete 1:2:5 [1/lime, 2/sand & 5/brick jelly] 100mm thick and finishing the top to required slope and giving connection to sewer line including the cost of all materials, labour, lead, lift, T&P, etc. complete as per standard specification.	72	4	Set	2993.74	11974.96
73	Supplying and fixing in position PVC Multi Floor Trap of approved make and quality and size 110X75mm or 63mm fixed over a bed of brick jelly lime concrete and finished with CM 1:3, and fixed stainless steel grating including the cost of all materials, labour, lead, lift, T&P etc. complete.as directed by department Engineer at site as per standard specification.	73	10	Nos	2350.00	23500.00
74	Supplying and fixing of approved quality of aluminium towel rod with powder coating of size (2 ft) and fixing the same over teak wood round block and soap tray (PVC) in bath room including cost of all materials lead lift labour etc., complete as directed by department Engineer at site as per standard specification.	74	5	Nos	601.25	3006.25
75	Supplying and filling with 40mm metal as per standard specification including all cost of materials, lead, lift etc complete for dispersion trench as per standard specification.	75	27	Cum	1205.17	32539.59
76	Supplying ,laying and fixing in position of PVC high density 10 kg/cm2 pipe of best quality from approved manufacturer confirming to IS 4985-1968, 4984-1970 including cutting threading joining with necessary PVC specials including cost of all materials lead lift labour etc complete. as directed by department Engineer at site as per standard specification.	76				
a	32mm dia pipe.	a	3200	RM	362.49	1159968.00
b	25mm dia pipe	b	4250	RM	300.93	1278952.50
77	Supplying and fixing in position of gun metal gate valve leader make of best quality including cost of materials lead lift labour etc complete as directed by department Engineer at site as per standard specification.	77				
a	32mm dia	a	45	No	455.41	20493.45
b	25mm dia	b	42	No	376.68	15820.56
78	Providing and fixing of long body chromium plated heavy duty metal tap of 12mm size including cost of all materials, labour, etc., complete as per standard specification.	78	40	No	303.00	12120.00
79	Supplying and fixing of PVC shower and Nickle control valve complete as per standard specification.	79	24	Set	404.00	9696.00

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
80	Supplying and fixing in position of ready made PVC water tank 1000 litre capacity, Sintex or equivalent make including cost of cover, with opening for inlet, outlet & over flow pipe, transporting and cost of all materials, labour, lead, lift, etc., complete as per standard specification.	80	5	No	6161.00	30805.00
81	Supplying and fixing in position of 40mm GI pipe B class including cost of materials labour lead lift etc complete as per standard specification.	81	32	RM	367.74	11767.68
82	Supplying and fixing in position White glazed Flat back urinal - Size 455 x 350mm of approved make and quality [Parryware -Aquaseal urinal or equivalent] and with PVC pipe connection [Kohinoor], 32mm PVC waste pipe [Kohinoor], 12/15mm GM wheel valve ISI, fixing the urinal to the valve with necessary TW plugs, brass screws etc, connecting to the water main including the cost of all materials labour, lead, lift, T&P etc. complete. as directed by department Engineer at site and as per standard specification.	82	4	Set	4699.33	18797.32
83	Supply & fixing marble partition of 25 mm thick 600 mm wide and 1200 mm high including necessary cement mortar with white cement concrete for urinals as directed by department Engineer at site and as per standard specification.	83	2	Nos	2697.46	5394.92
84	Providing inspection chamber with manhole cover including all cost of materials lead lift etc complete as per standard specification.	84				
a)	Cast Iron 0.45x 0.45	a	5	Nos	4602.12	23010.60
b)	Concrete (FRC) 0.60 x 0.60 m	b	5	Nos	5311.69	26558.45
85	Supplying and fixing Precast RCC slab in CM 1:1.5:3 mix concrete using 12mm to 20mm HBS metal for cover slab, manhole cover baffle wall, precast kerb stone, etc.,including the cost of all materials, lead, lift etc., complete as per standard specification.	85	9	Cum	6136.00	55224.00
86	Supplying and fixing of stainless steel hand rails for stair case using square rod for support and grill and top position with suitable anodised aluminium hand rail including cost of all materials, fixing charges, transport welding if necessary, painting with suitable colour lead lift etc., complete for 1.00 m as per standard specification	117	50	RM	11985.47	599273.50
87	Supplying and fixing of Name Board letter in brass including cost of all materials lead lift etc as directed by Engineer and approval as per standard specification	118	15	Sqm	4626.15	69392.25
88	Suppling and fixing of vertical Blinds for all window with accesseries including cost of all materials , labour, lead & lift etc., complete. as per standard specification	119	63	Sqm	567.76	35768.88
89	Supply and fixing of weld mesh (22SWG Steel Wire) on brick wall for earthing purpose in bay control room including cost of all materials lead lift etc., complete. as per standard specification.	120	4086	Sqm	267.15	1091574.90

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
90	Supplying and fixing in position aluminium partition fully glazed with 10mm thick plain glass using aluminium box section of not less than 63x38.4x2mm x 1.174kg/m for vertical @ 955mm c/c approx and horizontal including cost of all materials, labour, lead, lift&P etc. complete (for control room) as per standard specification.	121	45	Sqm	6690.59	301076.55
91	Drilling of borewell including transportation from one place to another place within (Villupuram) Villupuram districts in alluvial soil sedimentary strata of clay and sand or sand stone shale, pebbles, boulders, etc. and in rocky strata by first taking a pilot of 140mm/150mm dia and the enlarging to required dia. by direct or reverse rotary mud and circulation method using contractors rig fuel, labour, drilling bentonite, mud and water, required for drilling at the shown by the TNEB officers including construction mud pit only calyx drills are to be used etc. complete as per standard specification .	126				
a	Drilling of 140/150mm dia. Pilot bore upto 60m depth ending below ground level etc complete as per standarad specification	a	240	RM	805.88	193411.20
b	Drilling of 140/150mm dia. Pilot bore from 60m to 90m depth ending below ground level etc complete as per standarad specification	b	120	RM	805.88	96705.60
c	Drilling of 140/150mm dia. Pilot bore from 90m to 120m depth ending below ground level etc complete as per standarad specification	c	120	RM	859.71	103165.20
92	Labour charges for reaming from 150/140mm dia. Pilot bore to 300mm dia. Bore as directed by the TNEB engineer etc. complete as per standarad specification.	127				
a	Pilot bore upto 60m depth ending below ground level etc complete as per standarad specification	a	240	RM	268.63	64471.20
b	Pilot bore from 60m to 90m depth ending below ground level etc complete as per standarad specification	b	120	RM	268.63	32235.60
c	Pilot bore from 90m to 120m depth ending below ground level etc complete as per standarad specification	c	120	RM	286.57	34388.40
93	Supplying and fixing for PVC casing pipe (with slots or without slots) in the drilled hole including jointing the pipes with paste etc. complete, including supplying and packing the annular space with pebbles of size and quality approved by the Engineer at site as per standard specification.	128				
a	165/168mm OD PVC pipe with slot holes	a	120	RM	550.40	66048.00
b	165/168mm OD PVC pipe without slot holes	b	120	RM	544.54	65344.80
94	Labour charges for developing the Bore well with air compressor of 600 CFM capacity (Minimum 8 Hour) including transportation labour and fuel charges for compressor as directed by TNEB officers and conducting yield test by V.NOTCH method as per standard specification.	129	32	hr	410.31	13129.92
	For road work					
95	Providing 1/18 multistrand copper wire for water level indicator quality including cost of all materials, labour, lead, lift etc. complete.	131	300	RM	11.45	3435.00

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
96	Cutting in all soils except hard rock requiring blasting and and Filling in low lying area with in a lead of 1.0 km by deploying earth moving machinery and tippers including benching,formation of level surface, breaking clods, sectioning, consolidation as per specification with power roller including all labour lead and lift etc complete as per standard specification	132	2812	CUM	235.46	662113.52
97	Supplying and filling with 1:1 quarry dust and 40mm metal for consolidated by power roller 10 T for road and bell mouth including cost of all materials, labour, well consolidation with power roller, lead, lift etc. complete as per standard specification.	134	5106	CUM	1250.15	6383265.90
98	PCC 1:2:4 mix for foundation using 12 to 20mm size HBG stone including cost of all materials, form work, centering and all leads, lifts etc., complete	135	1869	CUM	4559.19	8521126.11
99	RCC 1: 1.5 : 3 using 12 to 20mm size HBG stone including cost of all materials, form work, centering and all leads, lifts etc., complete as per standard specification but excluding cost of reinforcement. For cable duct wall, structure plinth/ pedestal ,column,rcc beam,cast in situ slab and precast slab.	136				
a	Cable duct wall	a	1423	CUM	8025.81	11420727.63
b	Structure plinth/pedestal	b	4600	CUM	7264.78	33417988.00
c	Column	c	581	CUM	5699.68	3311514.08
d	RCC beam	d	386	CUM	7264.78	2804205.08
e	Cast in situ slab	e	129	CUM	7345.98	947631.42
f	Pre cast slab	f	129	CUM	7345.98	947631.42
100	Providing expansion joint for road concrete as per specification in both direction using prevalid asphaltics pad 20 mm thick to full width and depth of 150mm thick plastering with CM 1:3, 20 mm thick including cost of cement, all materials, labour, curing, all leads, and lifts, etc., complete as per standard specification.	137	2125	RM	111.87	237723.75
101	Providing RCC heavy duty pipe (NP3) hume pipe including cost of collar pipe as directed by department Engineer at site including all materials leads and lifts etc. for cable crossing and stormwater drainage as per standard specification.					0.00
a	600 mm dia		900	RM	1164.71	1048239.00
b	300 mm dia		1050	RM	609.18	639639.00
102	Earthwork excavation for 765 & 400 kv yard area in hard rock by drilling with jack hammer using compressor, all labour lead and lift etc. complete as per standard specification.	139	100	Cum	495.00	49500.00
103	Hire charges for JCB for levelling the site and uprooting and removing eucalyptus/palmyrah stumps including cost of hire charges, fuel charges, all labour lead and lift etc. complete. as per standard specification	140	10	Hr	946.88	9468.80
Retaining and cable duct work						
104	Supplying, fabricating and fixing in position of G.I angles for cable duct including cost of steel labour lead and lift and hot tip of galvanizing charges etc., complete	141	10	MT	51600.00	516000.00

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
105	Drilling suitable holes using power drilling machine to the required depth to fix the angle without disturbing the strength of the concrete including hire charges for drilling machine cable lead lift etc., complete as per standard specification.	142	7750	No	90.00	697500.00
106	R R masonry in CM 1:6 using random rough stone and bond stone including cost of all materials, leads ,lift and curing etc complete.For compound wall and retaining wall as per standard specification.	143	500	ÇUM	3552.68	1776340.00
107	Flush Pointing with CM 1:3 including cost of all materials lead lift etc complete. as per standard specification.	144	200	sqm	43.99	8798.00
108	Supplying & fabricating and fixing in position of GI angle including cost of materials labour, lead,lift etc., complete	145	5	MT	51600.00	258000.00
109	Colour washing with two coats of approved colour cement paint over priming coat of white cement including cost including cost of all materials, labour, lead, lift etc., complete for exterior faces of walls as per standard specification	147	7943	sqm	45.40	360612.20
110	Supply with gravel complying with standard specification for filling in foundation, basement including cost of labour, lead, lift, watering consolidation etc., complete as per standard specification.	148	2225	cum	1205.17	2681503.25
111	Removal of excavated boulders away from site with in alead of 1.0 km and spreading wherever necessary as per standard specification etc. Complete	149	50	CUM	133.77	6688.50
112	Providing opening for cable, Exhaust fan AC duct, water pipe line etc in brick work/RCC in building and retaining wall& cable duct including cost of machinaries ,labour etc complete as per standard specification.	151				
a	For brick wall/RR masonry	a	30	No	52.99	1589.70
b	For RCC wall	b	30	No	72.14	2164.20
113	Supplying and fixing PVC pipes of 6kg/cm² to a length of 300 to 450 mm for the cable entry in cable duct including cost of PVC pipes fixing charges etc., complete as per standard specification.	152				
a	75mm pvc pipe	a	250	RM	69.00	17250.00
b	110mm PVC pipe	b	250	RM	118.10	29525.00
114	Providing recharge pits for rain water harvesting including cost of excavation 1m to 2.m wide 2m depth back filled with boulders / gravel /coarse sand / etc as directed by department officials as per standard specification.	153	20	nos	10793.17	215863.40
115	Supply,Fabricating and fixing of M.S Gate by using angles, square rods, M.S Plates including cost of all materials, labour charges for cutting, welding,and providing anchor cleats /flats and placing in position, transport charges from work shop to site including painting with red oxide one coat and enamel paint two coats as per standard specification.	154	2100	KG	72.72	152712.00

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
116	Supply and fixing GI sheet in position of building all material including labour, lead, lift etc. complete as per standard specification.	155	200	SQM	887.23	177446.00
117	supply and erection of 3 HP submergible pump` 3 phase electrical motor of approved brand with all related accessories as per ISI in all respect including auto start, autoshutdown and volt meters, ammeters, condenser etc., cost of conveyance at items and cost of motor panel starers capacity and switch indication lamp and connector equipmemnts and service connection arrangement etc., complete as directed by the Engineer at site	156	5	SETS	41917.50	209587.50
118	Supplying and erection of 2HP mono block 3 phase electrical motor of approved brand with all related accessories as per ISI in all respect including oil level indicator switch board with 3 Nos. test lamp, 3 Nos. fuse carrier, 1 No. 15AMPS DPIC swithch with L&T make starter with guard and providing earthing to main with no. 8 tinned copper wire rod and 6' long 40mm dia GI pipe for earthing and earth pit filled with charcoal and salt as per standard spectification and laying motor bed by concrete with placing motor over bed, labour charge for placing motor over bed including cost of all materilas lead and lift etc, complete as drieved by the department engineer at site.	157	10	sets	29342.25	293422.50
119	Supplying and erection of 3HP air compressor 3 phase electrical motor of approved brand with all related accessories as per ISI in all respect including oil level indicator switch board with 3Nos. test lamp, 3 Nos. fuse carrier, 1 No. 15AMPS DPIC swithch with L&T make starter with guard and providing earthing to main with no. 8 tinned copper rod and 6' long 40mm dia GI pipe for earthing and earth pit filled with charcoal and salt as per standard spectification and laying motor bed by concrete and placing motor over bed, labour charge for placing motor over bed including cost of all materilas lead and lift etc, complete as drieved by the department engineer at site.	158	4	sets	41917.50	167670.00
	Structure Plinth					
120	Fixing (all dia & length) foundation bolts in position with help of proper templates (template to be supplied by contractor) including nuts and washers without any tilt until completion of concrete, checking the alignment for various structures including cost of template, labour, lead lifts etc., all complete as per specs, drawings & directions of Engr-in-Charge. (Foundation bolts shall be supplied by BHEL.)	159, 160 & 161	208132	KG	7.59	1579721.88
121	Fabricating, galvanising & supplying of foundation bolts manufactured with steel of various sizes as per drawing with 3 Nos GI nuts including welding a plate of size 100x100x12mm thick at the bottom of bolt including cost of materials, labour, lead, lift etc.complete (sample to be approved by Department Engineer at site) as per standard specification.	162	6	MT	74316.20	445897.20
122	Transporting and levelling of excavated earth to low lying area and consolidation with power roller within sub station premises including cost of labour, lead (within substation boundary), lift etc., complete as per standard specification.	166	122899	CUM	104.82	12882273.18
123	Providing necessary pocket holes in transformer plinth for fixing accessories supports etc., complete as per standard specification.	167	36	Nos	62.20	2239.20

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project:****765/400 KV SUB-STATION AT ARIYALUR, TAMILNADU****Name of Work:****CIVIL WORKS FOR SUB-STATION & BUILDINGS
EXCLUDING COMPOUND WALL & GRAVELLING**

S. No.	Description of Item	Customer Item No.	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
124	Supply and fixing of rails in transformer plinth as per design including cost of materials,fabrication,transporting and fixing charges etc., complete as per standard specification.	168	39936	KG	67.17	2682501.12
125	Supply and filling of pebbles of size 60 mm to 40 mm in soak pit around transformer plinth including cost of all materials,transporting , all labour charges, lead and lift etc. complete as per standard specification.	169	1860	CUM	1155.95	2150067.00
126	Supply and Labour charges for Transport and erection of gratings for reactor including cutting welding, tightening of bolts and nuts with washers final checking before loading the metals cost of all labour T&P, lead and lift etc., complete as per standard specification.	170	50	MT	67165.00	3358250.00
127	Providing shoring and shuttering using CW planks and scantlings including cost of all materials labour lead lift etc. complete as per standard specification.	171	1020	Sqm	168.57	171941.40
128	Supplying and fixing the paver block of 65 mm thick to the foot path of the operational switches inside the yard including the cost of all materials, leads, fixing charges, lifts etc., complete as per standard specification.	172	500	SQM	542.02	271010.00

TOTAL VALUE (Rs) =	345726264.34
---------------------------	---------------------

Note:-

- 1) Reinforcement steel shall be issued by BHEL free of cost and transported upto the site by BHEL. Unloading, storage and watch & ward is in the scope of the contractor.
- 2) Bidder to quote considering river sand only for all items of BOQ related with sand, However, in case of non-availability of the river sand and subject to approval by customer, good quality crushed stone sand/ M-sand conforming to the grading limits and other requirements set in IS:383 may be used. If crushed stone /M-sand is used in place of river sand, net rebate of Rs.100/- per cum of concrete on final amount shall be given by the bidder for all concreting items.
- 3) Bidder to quote the gratings considering MS Steel painted with synthetic enamel paint (02 or more coat) over ready mixed red oxide zinc chromate primer. Paint and primer shall be of approved brand.

ANNEXURE-II

BILL OF QUANTITIES CUM PRICE SCHEDULE

Name of Project :765kV/400kV substation at Ariyalur					
Name of Work: Under Ground Earthing and Electrodes					
S. No	Description	Unit	Quantities	Unit Rate (Rs.)	Total Amount (Rs.)
1	<p>Laying of 40 mm dia MS Rods for earthing as per drawing , technical specification and direction of site engineer incharge, <u>includes the following</u> .</p> <p>(1) Excavation and refilling upto average width of 0.3 m and average depth of 0.8 m.</p> <p>(2) Laying of 40mm dia MS rods for main earthmat grids at a minimum depth of 800 mm measured from the top of FGL(finished ground level).Including cutting, bending, welding , fixing as per site requirements.</p> <p>(3) Bringing out 40mm dia MS rod risers(Tentative quantities of risers are approximately 7000 nos.) from main earthmat grid upto 150mm below the FGL near the equipment /tower foundations. Including cutting, bending, welding , fixing as per site requirements.</p> <p>(4) The welding should be treated with red lead and afterwards coated with two layer bitumen compound to prevent corrosion before backfilling.</p> <p>(5) Any other work necessary to complete the laying of earthmat deemed to included in the scope.</p> <p>40 mm Dia MS Rod shall be provided by BHEL.</p>	MT	850	6329.24	5379854.18
2	<p>Fabrication & laying of Auxiliary Mat of 40 mm Dia MS Rods at a depth of 300 mm from top of FGL as per enclosed drawing, <u>including</u> following works as mentioned below.</p> <p>(1) Excavation and refilling .</p> <p>(2) connection with main earthmat through riser and bringing riser to near by Isolator and earth switch mechanism box(Riser shall be paid under above item sl. no. -1 above) .</p> <p>(3) The welding should be treated with red lead and afterwards coated with two layer bitumen compound to prevent corrosion.</p> <p>(4) Any other work necessary to complete the laying of Auxiliary earthmat deemed to included in the scope.</p> <p>40 mm Dia MS Rod shall be provided by BHEL.</p>	Nos.	582	1932.38	1124643.00
3	<p>Rod electrode with treated earth pit complete including</p> <ol style="list-style-type: none"> 1. boring of 150mm dia using power rig in all types of soil, 2. supply and laying mixture of bentonite powder, salt & red earth, 3. supplying and fixing of Reinforced cement collar 4. identification board <p>including all labour, material, hardwrae (nut, bolts, washers) etc. as per attached drawing, specification and direction of engineer in charge.</p> <p>40 mm Dia MS Rod & 75x12mm MS Flat shall be provided by BHEL.</p>	Nos.	580	8000.00	4640000.00
	Total Amount (Rs.)				11144497.18
<p>Note 1- 40mm Dia MS rod and 75x12 mm MS flat will be supplied by BHEL. <u>However unloading , storing , watch and ward shall be in the scope of contractor.</u></p> <p>Note -2 - Refer attached Annexure-1 for technical specification and Annexure -2 for earthing drawings.</p>					

ANNEXURE-III

BILL OF QUANTITIES CUM PRICE SCHEDULE

Name of Project :765kV/400kV substation at Ariyalur					
Name of Work: Construction of Stores					
Sl No.	Description	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
1	Open stores of size 5000 Sqm (as per specification enclosed).	Sqm	5000	488.00	24,40,000.00
2	Covered store of size 200 sqm (As per specification enclosed).	Nos.	3	12,63,430.00	37,90,290.00
	Total Amount (Rs.)				62,30,290.00
Notes:					
1	The quoted rate is inclusive of all materials, tools & plants etc. required for above works.				
2	Decision of store location and execution of above items shall be taken by site incharge as per site requirement.				

ANNEXURE-IV

**TRANSMISSION BUSINESS GROUP
(SUB- CONTRACTS MANAGEMENT)
TBG - NOIDA**

PRICE SCHEDULE FORMAT

SUB: EXECUTION AND HANDING OVER OF CIVIL WORKS OF YARD AND BUILDINGS (EXCLUDING GRAVEL SPREADING AND COMPOUND WALL WORK) OF 765/400KV SUBSTATION AT ARIYALUR IN TAMILNADU.

- (a) I/ We hereby agree to execute the above work at ----- % (in figure).....
----- (in words) Above / Below/ At Par the rates of items given in BOQ
(Annexure-I, II & III) of subject tender.

NOTE:

1. In this annexure the tenderer shall quote a percentage above or below or at par the rates shown in the Bill of Quantities (Annexure-I, II & III) of subject tender. The percentage quoted shall be clearly written both in words and figures In case of discrepancy in rates in figure and words, the minimum will be taken into account by BHEL.
2. The quoted percentage will apply to the individual items uniformly.

Date:

Place

Signature of tenderer
Name & Designation of authorized person(s) with seal

ANNEXURE-V

EXECUTION AND HANDING OVER OF CIVIL WORKS OF YARD AND BUILDINGS (EXCLUDING GRAVEL SPREADING AND COMPOUND WALL WORK) OF 765/400KV SUBSTATION AT ARIYALUR IN TAMILNADU

Sl No.	Description	Amount (Rs.)
1 (a)	Total amount as per the rates in BOQ for civil works of yard & building (excluding compound wall & gravelling) (Annexure-I)	3457,26,264.34
1 (b)	Total amount as per the rates in BOQ for underground earthing works (Annexure-II)	111,44,497.18
1 (c)	Total amount as per the rates in BOQ for construction of stores (Annexure-III)	62,30,290.00
1	Total Amount (Annexure- I, II & III)	3631,01,051.52
2	Value of percentage above/below/at par (As indicated in Price Schedule Format, Annexure-IV) applicable to the total amount of civil work (Sl. no. 1 above)% above/below/at par
3	Total amount after consideration of percentage above/below/ at par.	