



**BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM:: HYDERABAD::32
FACTORY CIVIL ENGINEERING DEPARTMENT**

SCHEDULE- A

PRICE BID

Tender Notice No:

HY/FCD/OT-9/2008-09 , Dt:23.09.08

Item no: 1

Name of work: Civil works for extension of 132 KV Sub Station building and Switch Yard.

S.No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
1	Earth work in excavation by mechanical means (Hydraulic Excavtors) / manual means in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.m on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50m.	1553.00	Cu.m	103.40	160580.20
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size).	127.00	Cu.M	2449.00	311023.00
3a	Providing and laying in position specified grade of reinforced cement concrete including consolidation by vibrations excluding the cost of centering ,shuttering and reinforcement for all works up to plinth level with 1:1½ :3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	120.00	Cu.M	3732.00	447840.00
3b	Reinforced cement concrete work in walls (any thickness) including attached pilasters, buttresses, plinth and string courses,fillets, columns,pillars,piers,abutments,posts and struts, lintels ,beams,roofs,chajjas,staircase etc., above ground level and up to floor five level including consolidation by vibrations excluding the cost of centering ,shuttering and reinforcement , for all works with 1:1½ :3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	460.00	Cu.M	4092.35	1882481.00
4	Centering and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, peirs, abutments, posts ,struts, beams, lintels, chajjas,roof etc	2840.00	Sq.M	177.60	504384.00
5	Reinforcement for R.C.C. work including straightening , cutting , bending , placing in position and binding grills with binding wire all complete with cold twisted deformed bars.	44.78	M.T	42700.00	1912106.00
6	Coursed rubble masonry (second sort) with hard stone in foundations & plinth with cement mortar 1:6 (1 Cement : 6 Coarse sand).	80.00	One Cu.M	1913.10	153048.00

S.No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
7	Brick work with FPS bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6.	30.00	Cu.M	2357.40	70722.00
8	Plastering in CM 1:6 , 20 mm thick to internal and external surfaces of walls including the cost of all materials , labour , curing etc, complete - Upto 10.00 m height	280.00	Sq.m	102.90	28812.00
9	Cement Plaster to ceiling with 12mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) . Upto 10.00 m height	190.00	Sq.m	107.80	20482.00
10	Plastering over roof slab in CM 1:4, 20mm thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate quoted shall include finishing, cost of all materials and labour etc., complete. (Cement =7.69 kgs/sq.m x3% WP@ Rs 20.00 per kg=Rs 4.61) upto 10 m height.	100.00	Sq.m	115.06	11506.00
11	Flooring in 25mm thick using 1 cement and 3 parts of granite stone chips of 3 to 10mm gauge (no sand) ellis pattern first sort including neat finishing , curing,cost of materials etc; complete.	120.00	Sq.m	185.39	22246.80
12	Finishing walls with acrylic smooth exterior paint of required shade for new work with two or more coat applied @ 1.67 ltr/ 10 Sq.m over and including base coat of water proofing cement paint applied @ 2.20 Kg/10 Sq.m	470.00	Sq.m	50.40	23688.00
13	Supply & Fixing steel windows of approved make including supplying and fixing 4 mm thick plain glass with best quality putty, MS handles and peg stays including painting two coats of synthetic enamel paint over one coat of red oxide paint including S&F weldmesh 50x50 mm (8 g x8g) etc. complete.The window section and fabrication shall confirm to IS 1038.	18.00	Sq.M	2120.00	38160.00
14	Supply and Fixing door,frame made out of 100 X 75 mm teak wood scantlings including supply and fixing in position single leaf flush shutters of 30 mm thick commercial ply of approved make , supply and fixing anodised aluminium fixtures and fittings , 3 Nos of MS hinges 4" long , 6 Nos of MS hold fasts of 150 X 150 mm made out of 200 X 50 X 6 mm fixed to the frame with suitable screws and painting the sides of the frame coming into contact with, masonry with on coat of bitumen paint etc, complete .(The fixtures and fittings shall consist of 16 mm dia 30 cm long aldrops 1 No. 1 No. of 12mm dia 230 mm long tower bolt and 150 mm long plate handles 2 No.s door stoppers - 1 No.) Bottom 300 mm height is to be fixed with decolam on both sides of the shutters as kick plate.	10.00	Sq.M	2040.00	20400.00

S.No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
15	Grass cutting including light jungle, removal of stones of all sizes disposing the cut grass and light jungle to places as directed by Engineer in Charge.The rate quoted shall include cost of all labour, loading, unloading and disposing upto a lead of 2 KM distance as directed. etc. complete.	300.00	Ten Sq.m	6.72	201.60
16	Felling trees of girth (Measured at a height of 1.00 Mtr above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable wood, including transportation from site to garbage yard / wood storage yard within 2KMs inside the plant. Trees of girth upto 120 Cm	15.00	Each	359.80	5397.00
17	Dismantaling Carefully the existing Chain Link mesh along with MS angular iron posts and handling over the same to BHEL stores.	120.00	Sq.m	11.55	1386.00
18	Providing and fixing GI chain link fabric fencing of required width in mesh size 50x50 mm made of GI wire of dia 4mm including strengthening with 2mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer in-charge.	375.00	Sq.m	373.45	140043.75
19	Collection, supply, stacking and filling the foundations with the best quality murrum in layers of 150mm(6"), watering /ramming /rolling etc complete - Degree of compaction should be 85% to 90% proctor density .(payment will be made after deducting 1/7th towards voids on stack measurements).	340.00	Cu.M	467.55	158967.00
20	Supply, stacking and spreading of graded stone aggregate at site of size range of 63 mm to 45 mm in two layers of 100 mm thick including cost of materials and labour etc; complete(payment will be made after decudting 1/13th towards voids on stack measurements).	65.00	Cu.m	768.45	49949.25
21	Demolishing R.C.C. work manually / by mechanically means including stacking of steel bars and disposal of unserviceable materials within 50 metres lead as per direction of Engineer - in - charge .	1.00	Cu.M	537.55	537.55
22	Dismantaling brick masonry / CRS walls for all heights, removing and clearing the debries and carting away upto to a lead of 2KM including loading, unloading and spreading segregating useful materials as directed by Engineer-in-charge including the cost of all labour scaffolding etc;complete.	20.00	Cu.M	340.75	6815.00
23	Supplying and fixing plain PVC pipe of 200 mm dia of approved quality with specials, accessories and approved sealing /jointing compound on the exterior of the inserted portion of the fitting and fixing in position and joing to MS gutters , including cost of all materials ,sealing compound ,labour etc., for all heights complete	12.00	RM	567.00	6804.00

S.No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
24	Fencing with RCC post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire 9.38 kg per 100 metres (min) between the two posts fitted and fixed with G.I staples on wooden plugs or G.I binding wire tied to 6mm bar nibs fixed while casting the post (cost of RCC posts, struts, earth work and concrete to be paid for separately): - payment to be made per metre cost of total length of barbed wire used - with G.I barbed wire.	240.00	RM	5.85	1404.00
25(a)	Fabrication of structural steel work including all materials going into the process of fabrication and forming an integral part of steel work together with all shop and site rivets and electrodes for site welding as necessary and all site connections comprising sag rods, floor beams, girders, bracings, trusses and frame work for fixed false ceiling and for movable false ceiling, purlins with channel / angles, MS flat supports including all connections as per detailed drawings connected steel works etc., cleats, gusset plates, all bolts, nuts, washers, base plates, anchor bolts as per detailed drawings, cutting, welding and painting 2 coats of red-oxide primer before erection etc., complete. The rate shall include painting 2 coat of Red oxide as per IS specifications and all charges for handling, leading and loading at the fabrication yard. (The raw structural steel sections, electrodes, gas only will be issued on free of cost by B.H.E.L at their stores)	0.60	One MT	11150.00	6690.00
25(b)	Erection of structural Steel work out lined in item No.25a above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site rivetting, bolting, jointing and site welding where ever required.	0.60	MT	Rate included in the above item	
25(c)	Fabrication and fixing M.S. Inserts/ M.S.Angles in the concrete with 10mm dia lugs welded to the M.S.Inserts / M.S.Angles (Strl. Steel, electrodes and gases required for the work will be issued on free of cost by BHEL at their stores).	24.15	One MT	3500.00	84525.00
26	Casting and placing in position of R.C.C cable trench covers of 75 mm thick in mix of 1:1.5:3 using 20 mm down graded metal including cutting, welding of Angle iron frame, cost of MS reinforcement as specified including cutting bending, binding wire, spreading of Ironite powder at 2 Kg / Sq.m, neat finishing, cost of labour, etc complete as directed. (MS angles, electrodes only will be issued on free of cost by BHEL at their stores).	441.00	Sq.m	1002.00	441882.00
27	Filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidation each deposited layer by ramming and watering, lead upto 50 m.	595.00	Cu.M	45.70	27191.50

S.No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
28	Conveyance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge.	770.00	Cu.M	56.41	43435.70
29	Fixing of MS bolts of 24mm dia and 500mm long in position in concrete foundations including cost of labour etc; complete MS bolts will be issued on free of cost by BHEL at their stores.	0.20	MT	9050.00	1810.00
Total:					6584518.35

Total: Rupees Sixty five lakhs eighty four thousand five hundred and eighteen only.

I / We have quoted% above [] / below [] (tick the relevant) for the rates given above.
% in words:

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer