



BHARAT HEAVY ELECTRICALS LIMITED
 RAMACHANDRAPURAM, HYDERABAD-32
 FACTORY CIVIL ENGINEERING DEPARTMENT

Issued to agency:

PRICE BID

SCHEDULE- A

Tender Notice No:
 HY/FCD/OT-12/2009-10 , Dt:05.10.2009
 Item no : 01

Name of work : Civil Works for establishing of Oxygen and Nitrogen Gas Storage Plant.

Sl. No.	Description of the item	Qty	Unit	Rate in Rs	Amount Rs.
1a	Earth work in excavation in all soils 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.	196.00	Cu.m	103.40	20266.40
b	----do---- up to First additional depth of 1.50 M to 3.00 M.	8.00	Cu.m	122.30	978.40
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).	23.10	Cu.M	2449.00	56571.90
3	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering ,shuttering, finishing and reinforcement ,including consolidation by vibrations 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).	111.30	Cu.m	3732.00	415371.60
4	Providing and laying in position specified grade, of Reinforced cement concrete excluding the cost of centering,shuttering, finishing and reinforcement - all work up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) -	44.00	cu.m	3359.60	147822.40
5	Centering and shuttering including strutting, propping etc; and removal of form work, for columns, pillars,peirs,abutments,machine foundations, posts and struts.	147.60	Sq.m	180.40	26627.04

Sl. No.	Description of the item	Qty	Unit	Rate in Rs	Amount Rs.
6	Reinforcement for R.C.C. work including straightening , cutting , bending , placing in position and binding grills with binding wire all complete by cold twisted bars.	5.92	M.T	42700.00	252784.00
7	Conveyance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in-charge.	945.50	Cu.M	56.41	53335.66
8	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 50.00 m and lift upto 1.50 m.	50.50	Cu.m	45.70	2307.85
9	Cement Plaster to ceiling /walls with 12mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) .	110.00	Sq.m	107.80	11858.00
10	Grouting with Fos Rock to Bolt Pockets , as per the manufactures specification .(Only Fos Rock will be issued free of cost at BHEL Stores).	0.50	Cu.m	444.00	222.00
11	Granolithic topping of 25 mm thick using 1 cement 1 granite chips of 10mm down graded laid over base concrete when it is green conditions and ironite finishing 12mm thick using a mix of 50Kg of ironite , 200 Kg of cement and 0.30 Cu.m of granite metal 6mm down graded including cost of form work , curing etc. complete.	130.00	Sq.m	428.50	55705.00
12	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufactures specifications including appropriate priming coat , preparation of surface , cost of all materials etc; complete on concrete work.	60.00	Sq.m	77.75	4665.00
13	Preparation of subgrade by excavation earth to an average of 22.5 cm, dressing to camber and consolidation with road roller including making good the undulations etc. and disposal of surplus earth lead upto 50 m .	3600.00	Sq.m	33.90	122040.00

Sl. No.	Description of the item	Qty	Unit	Rate in Rs	Amount Rs.
14	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, gasses will be issued by BHEL on FREE of cost at their stores	4.20	MT	8805.00	36981.00
15	Erection of Steel work out lined in item No.1 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.	4.20	MT	3774.00	15850.80
16	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade to trusses, columns, girders, bracings etc., with aluminium paint or synthetic enamel paint as required etc., complete. The required paint only will be issued free of cost by B.H.E.L at their stores.	4.20	MT	596.50	2505.30
17	Fencing with G.I barbed wire with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal wires, of barbed wire 9.38 kg per 100 m (minimum) between the two posts fitted and fixed with G.I staples, turn buckles etc. complete. (Cost of posts, struts, earthwork and concrete work to be paid separately) : payment to be made per metre cost of total length barbed wire used.	2400.00	RM	8.45	20280.00
18	Fabrication and fixing M.S. Angles in the concrete with 10mm dia lugs welded to the M.S. Angle (Strl. Steel, electrodes and gases required for the work will be issued on free of cost by BHEL at their stores).	0.05	MT	3500.00	175.00

Sl. No.	Description of the item	Qty	Unit	Rate in Rs	Amount Rs.
19	Casting and placing in position of R.C.C cable trench covers of 75 mm thick of mix 1:1.5:3 with 20 mm down graded metal including cutting, welding of Angle iron frame, spreading of Ironite powder at 2 Kg / Sq.m, neat finishing etc. (Fabrication of Angle iron frame and reinforcement will be paid separately under different items).	0.65	Sq.m	353.00	229.45
				Total : Rs	1,246,576.80

Rupees : Twelve Lakhs Forty Six Thousand Five hundred Seventy seven Only.

Service Tax:- The Service tax as applicable is extra which will be paid by BHEL to the agency after submission of necessary valid documents by the agency.

Note : The Tenders are required to quote the tender value on percentage (%) basis at excess or less or on as per estimate value

Tender %	In figure	In words
Excess		
Less		
Estimated Rate only		

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer