



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT- 29/2010-11 , Dt:- 07.03.2011

PRICE BID

Item no : 5

**Name of work: Construction of foundation for CNC VTL's & 3.5 m Lathe in
GT Block.**

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
1	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	1.00	Cu.m	582.68	582.68
2	Dismantling steel work in built up sections in angles tees, flats and channels including all guesst plates, bolts, cutting rivets, welding etc., including dismembering and stacking within 50 metres lead.(Clamping Bars, May Pole etc).	1.00	MT	890.11	890.11
3a	fabrication of structural steel work including all materials going into the process of fabrication and forming and integral form of steel work together with all shop & 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 3 coats of red oxide as per IS specifications and all charges for handling, leading & loading at the fabrication yard.The rate includes cost of electrodes ,gases etc., the raw structural steel sections will be issued free of cost at BHEL stores.	3.10	MT	7563.80	23447.78
3b	Erection of Steel work outlined in item no 3a 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 required.	3.10	MT	3241.60	10048.96
3c	Fixing of AC sheets for barication purpose with J bolts, nuts. (AC sheets will be issued free of cost by BHEL at their stores).	1.00	Sq.m	20.95	20.95

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
3d	Fabrication and erection of structural steel for temporary barrication purpose of 2.0 mtrs height at floor level with one coat of red oxide primer. All materials required will be issued free of cost by BHEL at their stores	1.00	MT	4972.00	4972.00
4a	Earth work in excavation in all soils by mechanical means (Hydraulic Excavators) / 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.	592.00	Cu.m	103.40	61212.80
4b	----do---- upto First additional depth of 1.50 M to 3.00 M.	224.00	Cu.m	122.30	27395.20
4c	----do---- upto second additional depth of 3.01 M to 4.50 M.	10.00	Cu.m	141.20	1412.00
5	Earth work in excavation by mechanical means (Hydraulic Excavators) / manual means over areas (exceeding 30 cm in depth , 1.5 m in width as well as 10 Sq.m on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposing earth to be levelled and neatly dressed for Hard Rock (Blasting prohibited).	166.00	Cu.M	325.25	53991.50
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works upto plinth level with 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size).	53.00	Cu.M	2449.00	129797.00
7a	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 upto plinth level with 1:1½ :3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	99.00	Cu.M	3732.00	369468.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
7b	Providing and laying in position ready mix concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead upto 25 KM having continuous agitated mixer, manufactured as per design of specified grade for reinforced cement concrete work including pumping of R.M.C from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixures in recommended proportions as per ID: 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. M 25 grade Reinforced cement concrete by using 380 kgs of cement per cu.m of concrete. All works upto floor V level. as per IS 456: 2000 for all concrete works upto all levels.(Cement cost considered for this item only in the estimate is Rs 211.00 per bag). BHEL will not issue cement for this item.	462.00	Cu.m	4070.40	1880524.80
8	Providing & laying in position specified grade of Reinforced Cement concrete excluding the cost of centering, shuttering, finishing & reinforcement - all works upto plinth level with 1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size)	27.00	Cu.m.	3359.00	90693.00
9	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.	45.20	M.T	42700.00	1930040.00
10	Centering and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, piers, abutments, machine foundations, posts and struts.	720.00	Sq.M	180.40	129888.00
11 a	Grouting with cement mortar 1:1 including cost of all materials, labour, curing for all leads & lifts etc: complete. For pockets	1.00	cum	6016.56	6016.56
11 b	Grouting of bolt pockets with FOS rock of specified proportion by the manufacturer, including cost of labour and incidentals etc. (The FOS rock will be supplied free of cost by BHEL at their stores)	7.50	cum	618.10	4635.75
12 a	Supplying and fixing position 40 mm thick fibre glass covered by cotton cloth (netted) fixed in position and covered with aluminium perforated sheet above the insulation for the foundation including fixtures and accessories and cost of all materials, labour etc., complete. Rock wool shall be of standard quality.	235.00	Sq.M	580.00	136300.00
12 b	Supply and fixing in position 60 mm thick / 30 mm thick in two layers thermocoal including cost of materials, labour etc., complete.	235.00	Sq.M	426.00	100110.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
13	Finishing with Epoxy paint (two or more coats) of ASIAN or BERGER make 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.	425.00	Sq.M	77.75	33043.75
14	Fabrication and fixing inserts in concrete wall with lugs of required dia welded to the insert plates.(St. Steel,electrodes and gas required for work will be issued on free of cost by BHEI at their stores)	1.50	MT	3500.00	5250.00
15	Supplying and fixing plain PVC pipe of 150mm dia of 6 kg's/cm² 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 joining to MS gutters, including cost of all materials, sealing compound, labour etc., for all heights complete	1.00	RM	286.00	286.00
16	Brick work with FPS bricks of class designation 75 in superstructure above plinth level up to floor five level in all shapes and sizes in cement mortar 1:6.	33.00	Cu.M	2463.60	81298.80
17	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 level.	117.00	Sq.m	95.10	11126.70
18	Conveyance of excavated spoil upto a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer in- charge.	689.00	Cu.M	56.41	38866.49
19	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.	243.00	Cu.M	45.70	11105.10
20	Applying protective coating to isolation joint on top side with bitumen of 30/40 grade including cost of all materials, labour etc., complete.	19.00	Sq.m	600.00	11400.00
21	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.	3.10	MT	596.50	1849.15

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
22	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.	205.00	Sq.m	485.00	99425.00
Total Value of work				Total Rs:	52,55,098.08
Total : Rs.Fifty two lakhs fifty five thousand ninty eight 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 bidders are required to quote the tender value on percentage (%) basis at excess or less on par with estimate value

Tender %	In figure	In words
Excess		
Less		
Estimated value		

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer