



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

Issued to agency:

## SCHEDULE- A

Tender Notice No:

PRICE BID

HY/FCD/OT-20/2009-10 , Dt:- 22.01.2010

Item no : 02

**Name of work : - Machine Foundations in New Blade Shop And Misc. Machine Foundations for Capital Equipments.**

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
1	Demolishing R.C.C. work manually / by mechanically means including stacking of steel bars and disposal of unserviceable materials upto a lead of 2.00 KM as per direction of Engineer - in - charge .	35.00	Cu.M	582.68	20393.8
2a	Making pockets in cement concrete in factory floors including transporting all tools etc., and cleaning the site, disposing off all the broken concrete debries etc., complete as directed by Engineer-in-charge.	5.00	Cu.M	582.68	2913.4
2b	Extra for cutting reinforcement bars manually / by mechanical means in R.C.C. or RB work ( payment shall be made on the cross sectional area of R.C.C. or RB work) as per directions of Engineer - in - Charge for pockets and laying cable lines.	115.00	Sq.m	176.35	20280.25
3a	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 bottams, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50m.	436.00	Cu.m	103.40	45082.4
3b	----do---- up to First additional depth of 1.50 M to 3.00 M.	27.00	Cu.M	122.30	3302.1

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
4	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 <b>Hard Rock</b> ( Blasting prohibited).	30.00	Cu.M	325.25	9757.5
5	<b>Filling</b> available eacavated earth (excluding rock) intrenches , 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 lift upto 1.5 m .	10.00	Cu.M	45.70	457.00
6	Coneyance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge.	463.00	Cu.M	56.41	26117.83
7	Providing and laying in position cement concrete of specified garde excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with <b>1:4:8</b> (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size ).	103.80	Cu.M	2449.00	254206.20
8	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 ( machine foundations) <b>up to plinth level</b> with <b>1:2:4</b> (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size ).	24.00	Cu.M	3359.60	80630.40
9	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 ( machine foundations) <b>up to plinth level</b> with <b>1:1½ :3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size ).	265.30	Cu.M	3732.00	990099.60

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
10	<b>Reinforcement</b> for R.C.C. work including straightening , cutting , bending , placing in position and binding all complete by cold twisted bars.(BHEL will issue Torsteel on cost recovery basis at Rs 31,750.00 per MT at BHEL stores)	21.08	M.T	42700.00	899902.50
11	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form for walls(any thickness) including attached pillasters, buttresses, plinth and string courses etc.,.	759.40	Sq.M	180.40	136995.76
12	Providing structural steel works in single section fixed with or without connecting plate including cutting , hoisting , fixing in position and applying a priming coat of approved steel primer all complete and dismantling steel work in single sections including dismembering and stacking within 50 m lead in channels, angles, tees and flats. (for temporary barricade/enclosure) <b>(Only Raw structural steel , electrodes, gases will be issued by BHEL at their stores)</b>	5.50	MT	8729.80	48013.90
13	Fixing the old/ used A.C. sheets for barricading the foundation works and removing the same after the work is over for side walls in the Factory blocks and sheds and at all height including transportation of A.C. sheets and disposing off old sheets to a lead of 2 K.Ms. Etc., complete as directed. (Required consumable materials will be supplied by BHEL free of cost at their stores).	340.00	Sq.M	39.50	13430.00
14	Grouting of bolt pockets in <b>C.M. 1:1</b> including the cost of all materials, labour, curing etc., complete.	52.00	Cu.M	6016.56	312861.12
15	Grouting of bolt pockets with grout mix of specified proportion by the manufacturer, including cost of labour and incidentals etc.( The grout mix will be supplied free of cost by BHEL at their stores)	153.53	Cu.M	485.00	74462.05
16	Finishing with <b>Epoxy paint ( two or more coats)</b> 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.	540.00	Sq.M	77.75	41985.00

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
17a	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.	110.00	Sq.M	580.00	63800.00
b	Supply and fixing in position 60 mm thick / 30 mm thick in two layers <b>thermocoal</b> including cost of materials, labour etc., complete.	110.00	Sq.M	426.00	46860.00
18	Applying protective coating to isolation joint on top side with bituman of 30/40 grade including cost of all materials, labour etc., complete.	30.00	One Sq.m	600.00	18000.00
19a	<b>Fabrication of structural steel</b> work including all materials going into the process of fabrication and forming and integral form 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 includes painting 2 coat of Red-oxide as per IS specifications and all charges for handling, leading and loading at the fabrication yard. The rate excludes the cost of electrodes, gases and raw structural steel sections which will be issued FREE of cost at BHEL stores.	4.00	MT	7596.00	30384.00
b	<b>Erection</b> of Steel work out lined in item No.19a 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.	4.00	MT	3255.00	13020.00

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
20	<b>Painting</b> 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.	4.00	MT	596.50	2386.00
<b>Total Rs.</b>					<b>3,155,340.81</b>
<b>Total : Rs. Thirty One Lakhs Fifty Five Thousand and Three Hundred Forty only.</b>					

**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

Tender %	In figure	In words
Excess		
Less		
Estimated Rate only		

**Note:**

- The Soil Investigation tests are to be carried out by the Contractor if required as per site condition. The agency should bear the above expenditure.

**Name of the Contractor :**

**Signature of the Contractor**

**Accounts Representative**

**Opening officer**