



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

**SCHEDULE- A**

Tender Notice No:

HY/FCD/OT-09/2013-14, Dt: 26.09.2013

**PRICE BID**

Item no 1

**Name of work: Machine foundation for CNC Hydraulic Press machine in EM Shop (Civil works).**

| S. No. | Description of the item                                                                                                                                                                                                                                                                                                                                                                                                                             | Qty   | Unit | Rate (₹) | Amount (₹)  |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------|-------------|
| 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.                                                                                                                                                                                                                                          | 58.00 | Cu.m | 582.68   | 33,795.44   |
| 2      | Demolishing cement concrete 1:4:8 manually/mechanical means, including disposal of material within 50mtrs lead as directed by Engineer-in-charge.                                                                                                                                                                                                                                                                                                   | 6.00  | Cu.m | 226.90   | 1,361.40    |
| 3      | <b>Earth work in excavation in all soils</b> 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 etc. complete as directed by Engineer-in-charge.                   | 70.00 | Cu.m | 103.40   | 7,238.00    |
| 4      | 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 <b>1:4:8</b> (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge. <b>(Cement only will be issued on free of cost by BHEL)</b>                                                | 7.00  | Cu.m | 1,560.50 | 10,923.50   |
| 5      | 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 <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) etc. complete as directed by Engineer-in-charge. <b>(Cement only will be issued on free of cost by BHEL)</b> | 87.00 | Cu.m | 1,641.30 | 1,42,793.10 |
| 6a     | <b>Centering</b> and shuttering including strutting, propping etc.; and removal of form work, for foundations, footings, bases of columns etc. for mass concrete- up to plinth level etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                                               | 42.00 | Sq.m | 119.25   | 5,008.50    |
| b      | -----Do-----For Pockets .                                                                                                                                                                                                                                                                                                                                                                                                                           | 15.00 | Sq.m | 119.25   | 1,788.75    |

| S. No. | Description of the item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Qty   | Unit | Rate (₹) | Amount (₹) |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------|------------|
| 7      | 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 <b>ironite finishing</b> 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 as directed by Engineer-in-charge. <b>(Cement only will be issued on free of cost by BHEL)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 52.00 | Sq.m | 295.50   | 15,366.00  |
| 8      | Grouting with cement mortar 1:1 including cost of all materials, labour, curing, for all leads and lifts etc.; complete, for pockets etc. complete as directed by Engineer-in-charge. <b>(Cement only will be issued on free of cost by BHEL)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.10  | Cu.m | 412.00   | 453.20     |
| 9      | <b>Reinforcement for R.C.C. work</b> including straightening, cutting, bending, placing in position and binding grills with binding wire all complete by cold twisted bars etc. complete as directed by Engineer-in-charge. <b>(Reinforcement will be issued on free of cost by BHEL)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.16  | M.T  | 4,003.00 | 8,646.48   |
| 10     | <b>Conveyance</b> of excavated soil up to a lead of 2 Kms, including loading, unloading and spreading etc. complete as directed by Engineer- in- charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 45.00 | Cu.M | 56.41    | 2,538.45   |
| 11     | <b>Filling</b> 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 etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 21.00 | Cu.M | 45.70    | 959.70     |
| 12     | Supply and fixing in position 60 mm thick / 30 mm thick in two layers <b>thermocoal</b> including cost of materials, labour etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 39.00 | Sq.M | 300.00   | 11,700.00  |
| 13     | 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 etc. complete as directed by Engineer-in-charge. <b>The raw structural steel sections, electrodes, gasses only will be issued by BHEL on FREE of cost at their stores</b> | 2.80  | MT   | 7,563.80 | 21,178.64  |

| S. No. | Description of the item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Qty   | Unit | Rate (₹) | Amount (₹) |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------|------------|
| b      | Erection of Steel work out lined in item No.13 (a) 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 etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                                    | 2.80  | MT   | 3,241.60 | 9,076.48   |
| c      | 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 as directed by Engineer-in-charge. <b>The required synthetic enamel paint only will be issued free of cost by B.H.E.L at their stores.</b>                                                                                                                  | 1.30  | MT   | 596.50   | 775.45     |
| 14     | Fabrication, Erection of structural support and Fixing old/used A.C sheets for barricading of foundation work etc. complete as directed by Engineer-in-charge. <b>(Structural steel, AC Sheet will be issued free of cost by BHEL at their stores).</b>                                                                                                                                                                                                                                                    | 90.00 | Sq.m | 108.00   | 9,720.00   |
| 15     | Supply & fixing 15 mm dia Nominal Bore GI pipe medium Grade properties and weight as per IS 1239 ISI mark with GI fittings including the cost of GI pipe & its fittings, chasing brick work/concrete and making good the same, cost of labour, all materials etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                              | 30.00 | RM   | 131.00   | 3,930.00   |
| 16     | .. Do... 20mm dia (3/4")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 35.00 | RM   | 146.00   | 5,110.00   |
| 17     | Providing and placing on terrace (at all floor levels) of <b>polyethylene water storage tank of 500 ltrs capacity</b> with double layer approved brand and manufacture as per ISI 12701 with cover and suitable locking arrangement and making necessary holes for inlet and outlet and overflow pipes with fittings (ballcock, inlet and outlet nipples) without base support for tank etc. complete as directed by Engineer-in-charge. <b>(Brick work will be paid separately).</b><br>Make: Syntex/Aqua | 1.00  | Each | 3,000.00 | 3,000.00   |
| 18     | Polishing of the floor including grinding of the floor with floor grinding machine, removal of dirt, stains, oil patches etc. and washing and polishing in to a neat finish etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                                                                                                               | 16.50 | Sq.m | 145.00   | 2,392.50   |
| 19     | 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 etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                                           | 16.50 | Sq.M | 77.75    | 1,282.88   |

| S. No.                                                                        | Description of the item                                                                                                                                                                                                                                     | Qty  | Unit | Rate (₹) | Amount (₹)         |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|--------------------|
| 20                                                                            | Dismantling steel work in built up sections in angles tees, flats and channels including all gusset plates, bolts, cutting rivets, welding etc., including dismembering and stacking within 50 metres lead etc. complete as directed by Engineer-in-charge. | 2.00 | MT   | 890.11   | 1,780.22           |
|                                                                               | <b>Total value of work</b>                                                                                                                                                                                                                                  |      |      | <b>₹</b> | <b>3,00,818.69</b> |
| <b>Total : ₹ Three lakhs eight hundred eighteen and sixty nine paise only</b> |                                                                                                                                                                                                                                                             |      |      |          |                    |

**Note:**

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|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | A penalty of 0.5% of the gross value of work will be levied for every week's delay of work or part thereof subject to a maximum penalty of 10% of gross value of the total work executed.                                                                                                                                                                                                                                                                                                                                                          |
| 2 | The rates are inclusive of all taxes and duties except Service tax, which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.                                                                                                                                                                                                                                                                                                                                                            |
| 3 | If the offer quoted by the L1 agency is less than 10% of estimate value the agency shall submit the Bank guarantee for the difference amount between quoted value of L1 agency and (-)90% value of estimate value as Advance Security Deposit (ASD) to ensure that the agency to take up and complete the work awarded. This will be released after satisfactory completion of the work by the L1 agency at the time of final bill. The Advance Security Deposit is in addition to the Security Deposit (For Maintenance period) specified in NIT. |

**Note :** The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimate value in figures and words.

| Tender %        | In figure | In words |
|-----------------|-----------|----------|
| Excess          |           |          |
| Less            |           |          |
| Estimated value |           |          |