



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

## SCHEDULE- A

Tender Notice No:

HY/FCD/OT-39/15-16, Dt: 06.02.2016

## PRICE BID - I

Item no.: 2

**Name of work:- Providing assembly facilities for establishing Super critical Pumps assembly in AB bay of Pumps Shop.**

| S. No. | Description of the item                                                                                                                                                                                                                                                                                                                                                          | Qty    | Unit  | Rate (₹) | Amount (₹)  |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|----------|-------------|
| 1      | Dismantling reinforced cement concrete / plain cement concrete and disposing of debries upto a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.                                                                                                                                                                         | 46.00  | Cu.m  | 1,054.10 | 48,488.60   |
| 2      | <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. | 113.00 | Cu.m  | 130.80   | 14,780.40   |
| 3      | 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).                                                                                         | 15.00  | Cu.M  | 2,606.00 | 39,090.00   |
| 4      | 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).                                          | 121.00 | Cu.M  | 2,772.00 | 3,35,412.00 |
| 5      | <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.                                                                                                                                                                                                      | 11.00  | M.T   | 7,369.00 | 81,059.00   |
| 6      | Centering and shuttering including strutting, propping etc.                                                                                                                                                                                                                                                                                                                      | 219.00 | Sq. M | 166.90   | 36,551.10   |
| 7      | 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 BHEL stores)                                                                                                                                                                          | 10.00  | Cu.M  | 1,364.00 | 13,640.00   |

| S. No. | Description of the item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Qty    | Unit | Rate (₹) | Amount (₹)  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|----------|-------------|
| 8      | <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 136.00 | Cu.M | 93.94    | 12,775.84   |
| 9      | <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 23.00  | Cu.M | 83.80    | 1,927.40    |
| 10     | Fabrication and fixing of MS angles, plates etc., in the concrete with 10mm dia lugs welded to strl steel. (Structural steel, electrodes, and gases required for the work will be issued on free of cost by BHEL at BHEL stores)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.50   | M.T  | 8,871.00 | 13,306.50   |
| 11     | Fixing of 52 Kg to 120Kg crane rails for various gauges at floor level including fixing side guide angle etc., complete with necessary clamps required for fixing rail in position and alignment, levelling as per BIS 7215-1974. MS rail, MS angles, strl. steel will be issued free of cost at their stores)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.50   | M.T  | 8,871.00 | 31,048.50   |
| 12     | 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 | 23.00  | M.T  | 8,871.00 | 2,04,033.00 |
| 13     | Erection of Steel work out lined in item No.12 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 23.00  | M.T  | 3,802.00 | 87,446.00   |

| S. No.                     | Description of the item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Qty   | Unit | Rate (₹)  | Amount (₹)         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-----------|--------------------|
| 14                         | 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 will be issued free of cost by BHEL at BHEL store.                                                                                                                                                                                                                                                                                                                                                   | 23.00 | M.T  | 696.00    | 16,008.00          |
| 15                         | Erection and fixing to line, level and grade CR 52Kg/m to 120 crane rails including supplying and fixing of special clamps, nuts, washers etc., complete as per drawing. Only special clamps for 52 Kg rail and crane rail will be issued free of cost by BHEL at their stores. Special clamps and bases shall be welded at 450mm center to center to approximately to the crane girder after aligning the rail. Alignment of rail shall be as per BIS code of practice (7215/1974). The rail shall be welded with suitable electrodes and shall conform to BIS specification. The agency shall procure himself the electrodes specially required for welding the rail. | 3.50  | M.T  | 12,673.00 | 44,355.50          |
| <b>Total Value of work</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      | <b>₹</b>  | <b>9,79,921.84</b> |

**Note:**

|   |                                                                                                                                                                                                                     |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | A penalty of 0.5% of the gross value of work will be levied for every week's delay of work or part there of subject to a maximum penalty of 10% of the gross value of work executed after the period of completion. |
| 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.                             |

**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 |           |          |