



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT- 26 /2010-11, Dt:- 08.01.2011 Item No. 4

**PRICE BID****Name of the Work :- Modification & renovation of open storage yard for Compressors.**

| S No | Description of the item                                                                                                                                                                                                                                                                                                                                                            | Qty     | Unit | Rate (Rs) | Amount (Rs) |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----------|-------------|
| 1a   | <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. | 1520.00 | Cu.m | 103.40    | 157168.00   |
| b    | ----do---- up to First additional depth of 1.50 M to 3.00 M.                                                                                                                                                                                                                                                                                                                       | 38.00   | Cu.m | 122.30    | 4647.40     |
| 2    | 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).                                     | 156.00  | Cu.M | 325.25    | 50739.00    |
| 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 ).                                                                                          | 260.00  | Cu.M | 2449.00   | 636740.00   |
| 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 ).                                          | 36.00   | Cu.M | 3732.00   | 134352.00   |

| S No | Description of the item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Qty     | Unit | Rate (Rs) | Amount (Rs) |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----------|-------------|
| 5    | 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 mix design of specified grade for reinforced cement concrete work including pumping of <b>R.M.C</b> from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures 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. <b>M 25 grade</b> 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 in the estimate is Rs 225/- per bag. If there is increase or decrease proportionate reimbursement/recovery cost will be done by BHEL) | 142.00  | Cu.m | 4192.80   | 595377.60   |
| 6    | <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1276.00 | Cu.M | 45.70     | 58313.20    |
| 7 a) | <b>Conveyance</b> of excavated spoil up to a lead of 2 Kms, including loading, unloading and spreading etc. complete as directed by Engineer-in- charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 438.00  | Cu.M | 56.41     | 24707.58    |
| 7 b) | <b>Conveyance</b> for every additonal lead of 1 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 438.00  | Cu.m | 6.91      | 3026.58     |
| 8    | <b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, peirs, abutments, machine foundations, posts and struts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 570.00  | Sq.M | 180.40    | 102828.00   |

| S No | Description of the item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Qty     | Unit | Rate (Rs) | Amount (Rs) |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----------|-------------|
| 9    | <b>Reinforcment 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 45.00   | M.T  | 42700.00  | 1921500.00  |
| 10 a | 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 <b>1:2:4</b> (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 144.00  | Cu.m | 3257.45   | 469072.80   |
| 10 b | Providing and laying in position <b>ready mix concrete</b> manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 25 KM having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of <b>R.M.C</b> 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. <b>M 20 grade</b> Reinforced cement concrete by using 320 kgs of cement per cu.m of concrete. All works upto floor V level. (cement cost considered in the estimate is Rs 225/- per bag. If there is increase or decrease proportionate reimbursement/ recovery cost will be done by BHEL) | 576.00  | Cu.m | 3770.00   | 2171520.00  |
| 11   | <b>Granolithic topping</b> 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2600.00 | Sq.m | 485.00    | 1261000.00  |

| S No | Description of the item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Qty   | Unit     | Rate (Rs) | Amount (Rs) |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-----------|-------------|
| 12   | Casting and erection of precast <b>RCC DSL posts with 1:1.5:3</b> with 20 mm metal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16.00 | One Cu.m | 5243.25   | 83892.00    |
| 13   | Fixing <b>CR 120/52 Kg rails</b> for various gauges at floor level including fixing side guide angle etc., complete with necessary clamps required for fixing rails in position and alignment, leveling as per B.I.S 7215-1974. (M.S rails, M.S. Angles, Strl. steel will be issued free of cost by BHEL at their stores).Including cost of clamps,bolts & nuts etc.,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.00 | One MT   | 6000.00   | 66000.00    |
| 14   | <b>Fabrication and fixing inserts</b> 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 BHEL at their stores)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.00  | MT       | 3500.00   | 3500.00     |
| 15   | <b>Fabrication of structural steel work</b> 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 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 rate includes cost of electrodes, gasse etc., The raw structural steel sections will be issued FREE of cost at BHEL stores. | 3.00  | MT       | 7563.80   | 22691.40    |

| S No | Description of the item                                                                                                                                                                                                                                                                                                                                                                                                                         | Qty     | Unit   | Rate (Rs) | Amount (Rs) |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|-----------|-------------|
| 16   | <b>Erection of Steel work</b> out lined in <i>item No.15</i> 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.                                                                                                                                                                               | 3.00    | One MT | 3241.60   | 9724.80     |
| 17   | <b>Painting at site of all structural steel work</b> 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     |
| 18   | <b>Grass cutting / jungle clearence</b> including cutting the small trees / bushes / shrubs including, uprooting and cleaning the site etc., complete all as directed by Engineer-in-charge.                                                                                                                                                                                                                                                    | 3740.00 | sq m   | 1.49      | 5572.60     |
| 19   | <b>Felling trees</b> of the girth (measured at a height of 1m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable materials and disposal of unserviceable material - beyond 60cm girth upto and including 120cm girth                                                                                                                                                                   | 20.00   | Each   | 359.80    | 7196.00     |
| 20   | ---- do -----beyond 120cm girth upto and including 240cm girth                                                                                                                                                                                                                                                                                                                                                                                  | 5.00    | Each   | 1658.85   | 8294.25     |
| 21   | <b>Removal of waste product</b> loading into the vehicle and unloading the same at specified yards as directed by the Engineer-in-charge. The vehicle shall be weighed before and after loading for each trip at BHEL weigh bridge. The rate quoted shall include cost of hire charges of vehicle, labour, tools, safety equipment etc., complete. Payment will be made against the weight of the materials disposed:-<br><b>for wood scrap</b> | 50.00   | MT     | 508.00    | 25400.00    |

| S No                                                                              | Description of the item                                                                                                                                                                                                | Qty   | Unit     | Rate (Rs)        | Amount (Rs)         |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|------------------|---------------------|
| 22                                                                                | do - <b>for MS scrap</b> including MS packing strips etc.                                                                                                                                                              | 50.00 | MT       | 381.00           | 19050.00            |
| 23                                                                                | do- <b>for garbage</b> , including oil soaked cotton waste, dry packing grass, packing cartoons and waste papers etc.                                                                                                  | 50.00 | MT       | 655.00           | 32750.00            |
| 24                                                                                | <b>Dismantling</b> manually /by mechanical means including stacking of serviceable material and disposal of unserviceable material within a lead of 50 m as directed by Engineer-in-charge- <b>for bituminous road</b> | 20.00 | Sq.M     | 66.30            | 1326.00             |
| 25                                                                                | <b>Dismantling reinforced cement concrete / plain cement concrete</b> and disposing of debries upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.     | 10.00 | One Cu.m | 582.68           | 5826.80             |
|                                                                                   | <b>Under Contractor's Scope</b>                                                                                                                                                                                        |       |          | <b>Total Rs:</b> | <b>78,84,602.01</b> |
| <b>Total : Rs. Seventy eight lakhs eighty four thousand six hundred two only.</b> |                                                                                                                                                                                                                        |       |          |                  |                     |

**Service Tax:-** All taxes inclusive except 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 Tenderers 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 value |           |          |

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer