

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM :: HYDERABAD-502032
(TOWNSHIP ADMINISTRATION)

Tender Notice No: HY/TA/OT-01/2016-17
Dated: 13.06.2016, Item No. 01

Schedule - A - Bill of Quantities

Name of work: Repairs and Maintenance of External Water supply lines & Borewells in Township

| SI.No. | Description | Qty | Unit | Rate | Amount |
|--------|--|---------|---------------|----------|-----------|
| 1 | Maintenance by sweeping, cleaning the floor and side walls with coir brushes, removing the clay silt, scum etc, including cleaning the surfaces with bleaching powder and finally with fresh water till the full area is cleaned properly and writing the date of cleaning on the wall with paint neatly etc complete all as directed by Engineer - in - charge. | | | | |
| | a) underground reservoir of 5.00 lakhs gallons capacity. | 2.00 | One operation | 11187.50 | 22,375.00 |
| | b) underground reservoir of 1.35 lakhs / 2.50 lakhs / 3.30 lakhs gallons capacity. | 3.00 | One operation | 7343.75 | 22,031.25 |
| | c) Overhead tank of 0.50 lakh / 1.1 lakh gallons capacity (18 mtrs staging). | 4.00 | One operation | 5367.50 | 21,470.00 |
| 2 | Earth work excavation / road cutting in trenches for foundations and for pipes etc., for all depths including dressing and remming the sides and bottom, strutting, shoring if any, depositing the soil as directed within a lead of 10.00 M in all soils except rock requiring blasting. (while excavating care should be taken wherever cable etc. are met and inform the concerned in- charge ans also intimate to Electrical Department/ Telephones Department to take care of the cables). | 300.00 | One Cum | 129.35 | 38,805.00 |
| 3 | Removing the GI pipe line of different dia meters including stackih at site or handing over in BHEL stores etc complete all as directed by Engineer-in-charge. | | | | |
| | a) 100 mm to 65 mm dia | 1000.00 | One Rmt | 34.00 | 34,000.00 |
| | b) 50 mm to 40 mm dia | 900.00 | One Rmt | 15.00 | 13,500.00 |
| | c) 25 mm to 20 mm dia | 450.00 | One Rmt | 13.00 | 5,850.00 |
| 4 | Cutting, threading, laying and jointing of GI pipe, with necessary fittings including cost of jointing materials such as white lead, jute, conveying the pipes from stores etc, complete (labour charges) as directed by Engineer - in -charge | | | | |
| | a) 100mm to 65 mm dia | 700.00 | One Rmt | 77.50 | 54,250.00 |
| | b) 50mm dia | 110.00 | One Rmt | 47.50 | 5,225.00 |
| | c) 40mm dia | 700.00 | One Rmt | 31.25 | 21,875.00 |
| | d) 25mm dia | 150.00 | One Rmt | 28.75 | 4,312.50 |
| | e) 20 mm dia | 170.00 | One Rmt | 28.75 | 4,887.50 |
| 5 | Conveying, lowering and fixing of CI sluice/reflex valves in the existing water line, including the cost of jointing materials refilling such as rubber packing, bolts and nuts, white lead etc complete (labour charges) for | | | | |
| | a) 100mm dia | 5.00 | Each | 500.00 | 2,500.00 |
| | b) 80mm dia | 5.00 | Each | 375.00 | 1,875.00 |
| | c) 50mm dia | 5.00 | Each | 312.50 | 1,562.50 |
| 6 | Conveying, lowering and fixing of CI/ sluice valves in the existing CI/RCC water main including earth work excavation, cutting the CI line and jointing, caulking and fixing the valve along with CI fittings including cost of all jointing materials etc complete. | | | | |
| | a) 300 mm dia | 1.00 | Each | 2500.00 | 2,500.00 |
| | b) 250 mm / 225 mm dia | 3.00 | Each | 2250.00 | 6,750.00 |
| | c) 150 mm dia | 3.00 | Each | 1750.00 | 5,250.00 |
| 7 | Earth work excavation in all soils, cutting and removing the existing pipe line of cast iron, RCC line, GI line and taking necessary connections including jointing and lead caulking cement joint, refilling the line wherever necessary road cutting and refilling etc complete. (All necessary materials will be supplied departmentally free of cost, only labour charges) for(while excavating care should be taken wherever cables etc. are met with and inform the concerned in charge and intimate to Electrical Department/Telephones Department to take care of the cables). | | | | |
| | a) 200mm to 350mm dia pipe line | 2.00 | Each | 1125.00 | 2,250.00 |
| | b) 100mm to 150mm dia pipe line | 4.00 | Each | 1000.00 | 4,000.00 |
| 8 | Attending pipe line burst on CI water line including earth work excavation, wherever necessary road cutting, removing the water, transportation of pipe and other materials from stores to site, cutting to required length placing, aligning, jointing, caulking and refilling back the trench etc complete. | | | | |
| | a) 225mm to 350mm dia pipe line | 2.00 | Each | 8375.00 | 16,750.00 |
| 9 | Excavation in all soils at leaking joints of CI water lines, removing the water, caulking the lead joints and refilling back the excavated soil at the repaired joints, wherever necessary and cutting and refilling. | | | | |
| | a) 250mm to 500mm dia | 15.00 | Joint | 1050.00 | 15,750.00 |
| | b) 100mm to 225mm dia | 20.00 | Joint | 800.00 | 16,000.00 |

| Sl.No. | Description | Qty | Unit | Rate | Amount |
|--------|---|--------|---------------|---------|-------------|
| 10 | Changing and tying of indicator wire for overhead tanks of 18 meter, staging with Nylon wire to the float ball on one side and to the indicator on the other side (Rate includes the cost of Nylon wire and labour). Etc. complete all as directed by Engineer - in - charge. | 8.00 | One operation | 1520.63 | 12,165.00 |
| 11 | Filling available excavated earth (excluding rock) in trenches, plinth,sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. | 300.00 | One Cum | 83.80 | 25,140.00 |
| 12 | Supplying, lowering, aligning and fixing of (Non-return) reflex valve (heavy type) including a pair of steel flanges, cost of all jointing materials such as rubber packing, bolts and nuts etc, complete all as directed for (Sample must be approved by Engineer - in- charge) | | | | |
| | a) CI reflex valve 100 mm dia | 2.00 | Each | 4365.00 | 8,730.00 |
| | b) CI reflex valve 80mm dia | 4.00 | Each | 3750.00 | 15,000.00 |
| 13 | Supply and fixing of steel flanges suitable to GI line or valves including necessary threading of GI pipe etc complete. | | | | |
| | a) 100mm dia | 10.00 | Pair | 411.25 | 4,112.50 |
| | b) 80mm dia | 20.00 | Pair | 375.00 | 7,500.00 |
| | c) 50mm dia | 15.00 | Pair | 250.00 | 3,750.00 |
| 14 | Supply and fixing of copper float ball of 30 cm dia made with 1 mm thick copper sheet all as directed by the Engineer - in - charge. | 2.00 | Each | 1966.25 | 3,932.50 |
| 15 | Supplying and laying of G.I. pipes of medium class (Class-B) as per IS - 1239 including all fittings such as sockets, tees, bend, flanges etc, wherever required and jointing materials etc all complete. | | | | |
| | a) 100 mm dia. | 5.00 | One Rmt | 680.00 | 3,400.00 |
| | b) 80 mm dia. | 20.00 | One Rmt | 716.75 | 14,335.00 |
| | c) 50 mm dia. | 15.00 | One Rmt | 444.94 | 6,674.06 |
| | d) 40 mm dia. | 25.00 | One Rmt | 367.75 | 9,193.75 |
| | e) 25 mm dia. | 8.00 | One Rmt | 209.40 | 1,675.20 |
| 16 | Supplying and fixing of CI sluice valve, (with cap) complete with bolts, nuts rubber insertions etc complete all as directed by Engineer-in-charge. (Sample must be approved by the Engineer-in-charge). | | | | |
| | a) CI sluice valve 100 mm dia P.N.1.0. | 2.00 | Each | 5957.00 | 11,914.00 |
| | b) CI sluice valve 80 mm dia PN.1.6. | 2.00 | Each | 5360.00 | 10,720.00 |
| | c) CI sluice valve 50 mm dia P.N.1.0. | 2.00 | Each | 3822.00 | 7,644.00 |
| 17 | Changing and tying of indicator wire for U.G.R tanks of 1.00 to 2.50 lakhs with Nylon wire to the float ball on one side and to the indicator on the other side (only labour charges). | 8.00 | One operation | 709.38 | 5,675.00 |
| 18 | Removal and rectification of hand pumps from the borewells of 100 / 112mm dia upto all depths by applying necessary tools removal of GI pipe attached to the hand pump and installation of the unit after rectification to the satisfaction of the Engineer-in-charge. | 1.00 | Each | 625.00 | 625.00 |
| 19 | Removal / lowering of submersible pumpsets of 4.5 to 15 HP from the borewells carefully by holding with chain pully block removing the GI pipes attached to the pump without damaging the cable connection to motor placing the pumpset and pipe on ground and again lowering the sub-mersible pump set with same operation all as directed by the Engineer-in-charge and required tools to be arranged by the agency i.e., chain pully, pipe wrench etc., payment will be made seperately for lower one operation, removal one operation | 40.00 | One operation | 2833.13 | 1,13,325.00 |
| 20 | Supplying and fixing of brass spindle rod with brass nut suitable to the sluice valve of 80mm to 300 mm dia valves. (The payment will be made as per weight of raw material of required length before threading to spindle rod). | 120.00 | One Kg | 457.50 | 54,900.00 |
| 21 | Cleaning of fountain pools and water jets by removing water manually and applying bleaching powder minimum 5 kgs to the pool and cleaning with coir brushes etc., complete for fountains at Check post, Rock garden & Community centre. | 48.00 | Each | 2388.75 | 1,14,660.00 |
| 22 | Providing and fixing G.I. Union in existing G.I.Pipe Line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required. | | | | |
| | a G.I Union / 80 mm /65mm | 20.00 | Each | 847.10 | 16,942.00 |
| | b G.I Union /50 mm dia. | 20.00 | Each | 498.65 | 9,973.00 |
| | c G.I Union /40 mm dia. | 20.00 | Each | 370.00 | 7,400.00 |
| | d G.I Union /25 mm dia. | 15.00 | Each | 294.50 | 4,417.50 |
| | e Supply and fixing of 10 mm square gland packing rope of champion brand. | 25.00 | Kgs | 115.00 | 2,875.00 |
| | f Supply & fixing of 3 mm thick rubber packing for use on C.I/G.I lines. | 100.00 | Kgs | 42.19 | 4,218.75 |
| | g Supply and fixing of 300 x 300 x 10 mm thick leather packing including labour charges cost of all materials etc complete. | 10.00 | Each | 625.00 | 6,250.00 |
| | h Supply and delivery of bolts and nuts with double washers including taxes and conveyance etc., complete (1/2" to 1"). | 15.00 | One Kg | 102.00 | 1,530.00 |

| Sl.No. | Description | Qty | Unit | Rate | Amount |
|--|--|------|---------------|----------|--------------------|
| 23 | Cleaning of underground cylindrical raw sewage sump of 10 meters dia at STDP / 5 meters dia at NRSP by stopping the incoming flow removing the sand and other grit materials and dumping them within 100 M, cleaning the inside faces as directed to remove the scum and other foreign materials etc., complete. (Payment will be made for STDP Sump independently and NRSP Sump independently). | 1.00 | One operation | 39606.25 | 39,606.25 |
| Total (Rupees Eight lakhs fifty two thousand fifty two and paise twenty six only) | | | | | 8,52,052.26 |

Note: Cement will be free issue from BHEL store

| Tender % | In Words | In Figures |
|----------|----------|------------|
| Excess | | |
| Less | | |
| Estimate | | |

Notes:

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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 subject to a maximum penalty of 10% of the gross value of work. |
| 2 | The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than service tax as applicable from time to time. |
| 3 | Service tax if paid by the contractor with respect to this work will be reimbursed by BHEL on production of documentary evidence for having paid the service tax by the contractor. |
| 4 | All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL. |
| 5 | The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work. |
| 6 | The maintenance period of the work is 06 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill. |