

**BHARAT HEAVY ELECTRICALS LIMITED**  
**HPEP, RAMACHANDRAPURAM, HYDERABAD-32**  
**(Township Administration Department)**

**Schedule - A - Price bid**

Tender Notice No. HY/TA/OT-09/2019-20

Date: 27.11.2019

**Name of Work :- Supply & Laying of HDPE pipe line from STP to Nehru Udyan and STP to Sundaravanam Park inside BHEL Township.**

| Sl. no | Description  | Qty     | Unit | Rate (in Rs.) | Amount (in Rs) |
|--------|--|---------|------|---------------|----------------|
| 1      | Cutting road and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required for Bitumen portion  | 15.00   | Cum  | 1756.59       | 26348.85       |
| 2      | Earth work in excavation in all soils by mechanical means ( hydraulic excavtors ) / drains ( not exceeding 1.5m in width or 10 sq.m on plan ) including dressing of sides and ramming of bottoms, lift upto 3.00 metre, including getting out the excavated soil and disposal of surplus excavated soil etc all shall be as per the directions of Engineer-in-charge.    | 1132.00 | Cum  | 130.80        | 148065.60      |
| 3      | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means for hard rock (blasting prohibited) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed etc all as directed by the Engineer-in-charge.   | 23.00   | Cum  | 490.10        | 11272.30       |
| 4      | Filling with available excavated earth ( excluding rock ) in trenches,plinth,sides of foundation etc. in layers not exceeding 20cm in deoth, consolidation each deposited layer by ramming and watering, lead up to 50.00m and lift upto 3.00m   | 470.00  | Cum  | 83.80         | 39386.00       |
| 5      | Providing and laying in position cement concrete of specified garde excluding the cost of centering and shuttering including consolidation by vibrations for all work upto plinth level with 1:4:8 ( 1 cement : 4 coarse sand : 8 graded stone aggregate of 20mm nominal size). <b>(All the materials are in the contractor scope only and River sand shall be used)</b> | 7.00    | Cum  | 3202.00       | 22414.00       |
| 6      | Providing and laying in position specified grade of reinforced cement concrete 1:1.5:3(1cement 1.5 coarse sand 3 grade stone aggrigate 20mm nominal size) excluding the cost of centering shuttering finishing and reinforcement All work up to plinth level. <b>(All the materials are in the contractor scope only and River sand shall be used)</b>                   | 17.00   | Cum  | 4507.98       | 76635.66       |
| 7      | Reinforcement for RCC work including straightening, cutting bending placing in position and binding all complete. Cold twisted bars, Reinforcement Fe415 make of SAIL or JINDAL or TATA <b>(all the materials with necessary fittings are in contractor scope only)</b>  | 2550.00 | Kg   | 53.79         | 137164.50      |
| 8      | Brick work FPS brick of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6( 1cement :6 coarse sand) <b>(all the materials are in contractor scope only and River Sand shall be used)</b>   | 2.00    | Cum  | 3479.70       | 6959.40        |
| 9      | Cement Plastering of 12 mm cement plaster of mix:1:6(1 cement : 6 fine sand) <b>(all the materials are in contractor scope only and River Sand shall be used)</b>  | 500.00  | Sqm  | 104.30        | 52150.00       |
| 10     | Supply & Delivery of <b>90 mm dia HDPE Pipes</b> with 4.0kg/sq.cm of confirming to IS 4984-1995 including transportation of 90mm diamter as per the direction ofEngineer-in-charge <b>(All the necessary fittings and related materials are in contractor scope).</b>  | 3960.00 | Rmt  | 138.00        | 546480.00      |
| 11     | Laying and Jointing of <b>90 mm dai HDPE pipes</b> by butt fusion welding as per IS: 7634-partII/1975 as amended from time to time to the alignment and gradient and testing the pipe line to the required pressure, as per the direction of engineer-in-charge. <b>(All the necessary fittings and related materials are in contractor scope).</b>                      | 3960.00 | Rmt  | 36.00         | 142560.00      |

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| 12     | Supply & Fixing of <b>HDPE pipe of 90mm diameter</b> Fittings conforming to IS 4984-1995 including transportation, as per the direction of engineer-in-charge. <b>(All the necessary fittings and related materials are in contractor scope).</b>  |         |      |               |                |
|        | a) Pipe Ends Long Neck of required size  | 20.00   | Each | 121.00        | 2420.00        |
|        | b) MS flanges of required size   | 20.00   | Each | 189.00        | 3780.00        |
|        | c) Cap Ends of required size   | 20.00   | Each | 83.00         | 1660.00        |
|        | d) Reducer of required size  | 20.00   | Each | 188.00        | 3760.00        |
|        | e)TEES of required size  | 20.00   | Each | 269.00        | 5380.00        |
|        | f) Bends size of required size   | 30.00   | Each | 248.00        | 7440.00        |
| 13     | Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared   | 8400.00 | Sqm  | 4.82          | 40488.00       |
| 14     | Dry stone pitching of 15cm x 22.5 cm thick including supply of stones and preparing surface complete. <b>(All the materials are in the contractor scope only and River sand shall be</b>   | 300.00  | Sqm  | 313.2         | 93960.00       |
| 15     | Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 50 m and lift upto 1.5 m :All kinds of soil   | 40.00   | Cum  | 181.25        | 7250.00        |
| 16     | <b>Supplying and Erection of 3-phase, 5 HP submersible Monoblock horizontal Pump set</b> with ISI marked, 5-star rated and capable of total working head of min. 25 mtr to 30 mtrs complete with starter, pannel box , including all necessary fittings etc.<br>Basic material of construction:<br>Impeller : Bronze / SS/CI<br>Pump shaft : Stainless Steel<br>Motor shaft : stainless steel// SS/CI<br>Motor casing : stainless steel<br>make : Kirloskar/ Crompton Greaves/ CRI Pumps/ KSB Pumps/ Tormac Pumps/ Falcon.<br>all complete as directed by Engineer-in-charge.. <b>(all the materials with necessary fittings are in contractor scope</b> | 4.00    | Each | 20000         | 80000.00       |
| 17     | Supplying, lowering, aligning and fixing of <b>(Non-return)</b> 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) <b>90 mm dia (all the materials with necessary fittings are in contractor scope only)</b>  | 2.00    | Each | 3,763.94      | 7527.89        |
| 18     | Supplying and fixing of CI sluice valve( Gate 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). <b>90 mm dia (all the materials with necessary fittings are in contractor scope only and as specified by contract executing officer)</b>   | 4       | Each | 5,136.73      | 20546.92       |
| 19     | Supply and fixing pressure gauge 6kg/sqcm and jointing in Main line with all necessary fitting etc complete all as directed by Engineer-in-charge. (Sample must be approved by the Engineer-in-charge). <b>(all the materials with necessary fittings are in contractor scope only)</b>  | 4       | Each | 675.00        | 2700.00        |

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|--------|---|-----|-------|---------------|----------------|
| 20     | Supplying, installing, testing and commissioning approved make CI body Foot Valve with brass strainer with necessary flanges, nuts and bolts etc., complete on to the suction line. Rate as per the lowest quotation of Bharat Fire Safety Engineers. Makes: Norm <b>100 mm nominal dia (all the materials with necessary fittings are in contractor scope only)</b>  | 4   | Each  | 5,100.00      | 20400.00       |
| 21     | Supply and laying of 300mm dia NP2 RCC Hume pipe with Collars for Road crossings with all necessary fittings as directed by Engineer in Charge. <b>(all the materials with necessary fittings are in contractor scope only)</b>   | 50  | RMT   | 630.00        | 31500.00       |
| 22     | Supply & laying of one number PVC insulated PVC sheathed steel wire/strip armoured multi stranded Aluminium conductor cable, 4-core 16 sq.mm. 1100V grade conforming to IS, direct in ground including excavation, sand cushioning, protective covering (with shahabad stones) and refilling thr trench etc. as required; complete all as directed by Engineer-in-charge. <b>(all the materials with necessary fittings are in contractor scope only)</b>   | 765 | Metre | 248.6         | 190179.00      |
| 23     | Supply and making cable end termination with brass compression gland and aluminium lugs for 4 core - 16 sq. mm. PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 kV grade; complete all as directed by Engineer-in-charge. <b>(all the materials with necessary fittings are in contractor scope only)</b>   | 16  | Each  | 119           | 1904.00        |
| 24     | Supply, fabrication and erection of 1.6mm MS sheet enclosure for <b>power control cubicle panel / boxes</b> with hinges & mechanical locking arrangements etc., including cutting, bending, drilling, welding & reveting etc., complete and painting with 2 coats of red-oxide paint and finished with general purpose oil paint of suitable shade including cost and conveyance of all materials and labour charges; complete all as directed by Engineer-in-charge. <b>(all the materials with necessary fittings are in contractor scope only)</b> | 140 | Kg.   | 184           | 25760.00       |
| 25     | Supply & fixing of 40A, four pole, 415V isolator, complete with connections, testing & commissioning etc. as required. <b>(all the materials with necessary fittings are in contractor scope only and as specified by contract executing officer)</b>   | 4   | Each  | 554           | 2216.00        |
| 26     | Supply & connecting of 1.1 kV grade 3 core, 4.0 sq.mm. PVC insulated PVC outer sheathed flat flexible copper conductor cable conforming to IS 694/1990 (make : AVOCAB / FINOLEX / as supplied by pump manufacturer) for submersible pump motors including all incidental charges; complete all as directed by Engineer-in-charge. <b>(all the materials with necessary fittings are in contractor scope only)</b>   | 450 | Metre | 131           | 58950.00       |
| 27     | Supply & installation of <b>earthing</b> arrangement comprising of 40 mm dia, 3 mm thick GI pipe buried upto a minimum depth of 4.5 mtrs including excavation of pit and filling the pit with homogenous layers of coke/charcoal, salt & sand etc. as required conforming to IS Standards (IS:3043). The earth pit to be provided with brick masonry chamber with hinged cover and watering arrangement; complete in all respects, as directed by Engineer-in-charge. <b>(all the materials with necessary fittings are in contractor scope only)</b> | 2   | Each  | 3385          | 6770.00        |

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| 28               | Providing and fixing 4.00 mm dia annealed copper wire on surface or in recess for connection of earth pits as required; complete all as directed by Engineer-in-charge ( <b>all the materials with necessary fittings are in contractor scope only</b> )  | 110     | Metre | 87.5          | 9625.00        |
| 29               | Providing, installation, testing and commissioning of dual plate non - return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc as required Makes: Audco / Kirloskar / BDK / H-Shankar / Leader/ Zolotto / Intervolve. 90 mm dia ( <b>all the materials with necessary fittings are in contractor scope only</b> ) | 2       | Each  | 2030          | 4060.00        |
| Total amount Rs. |   |         |       |               | 1,837,713      |
| Tender %         | In words  | Figures |       |               |                |
| Excess           |   |         |       |               |                |
| Less             |   |         |       |               |                |
| Estimate         |   |         |       |               |                |
| Notes:           |   |         |       |               |                |
| 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. Please refer to the payment terms of technical bid. Penalty shall be applicable as per NIT terms.  |         |       |               |                |
| 2                | 10% of the amount of respective item shall be deducted if the agency is using crushed stone sand / robo sand / mechanical sand in place of river sand.  |         |       |               |                |
| 3                | Agency has to pay salary to his workers on or before 5th of every month, a penalty of 0.5% of the gross value of the work will be levied for every weeks delay.   |         |       |               |                |
| 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                | Contract Period of the work is <b>02 (Two) Months</b> . <b>The maintenance period of the work is 12 months</b> . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.   |         |       |               |                |
| 6                | All the terms & conditions of the contract with respect to Taxes & Duties are subject to the new taxation laws introduced from time to time (e.g., GST). The terms & conditions will be modified in accordance with the provisions of new laws (e.g., GST)  |         |       |               |                |
| 7                | All the materials are in contractor scope including all the necessary fittings. BHEL will not give any materials as a free issue. Only river sand shall be used. 10% of executed amount of particular item shall be recovered if stone dust / robo sand is used in place of river sand. M20 & Fe415 shall be ensured as per IS codes.                                     |         |       |               |                |
| 8                | Refer Special conditions of contract (7.0), NOTES (2.1.35), mentioned in NIT. all the NIT Terms and conditions will be applicable.  |         |       |               |                |
| 9                | Electricity , water charges will be recovered as per rules (refer schedule-C mentioned in NIT).   |         |       |               |                |
| 10               | M25 is the grade of concrete shall be used for reinforced concrete work as per the IS Code. Grade of steel having characteristic strength of 415 N/mm2 as per the IS Code.  |         |       |               |                |
| 11               | All related IS codes will be applicable.  |         |       |               |                |