



**BHARAT HEAVY ELECTRICALS LIMITED**  
**RAMACHANDRAPURAM, HYDERABAD-32**  
**FACTORY CIVIL & PROJECTS DEPARTMENT**

**SCHEDULE- A**

Tender Notice No:

HY/FCD/OT-06/2021-22 Dt:26.06.2021

**PRICE BID**

**Name of work: Mechanical works for Slurry test pump.**

| S. No.   | Description of the item  | Qty | Unit | Rate (₹) | Amount (₹) |
|----------|--|-----|------|----------|------------|
|          | The scope of work involves collection of materials / equipment from stores / yard, shifting, laying, erection of pipe lines, Equipments, tanks, valves, flanges , elbows, Tees, reducers etc and fabrication and erection of support structures/trussles, tee hangers etc, alignemnet of gear box and motor. Pipelines are to be aligned and joined as per directions of site engineer, by TIG root welding & arc welding / flange joint/arc welding with bolts, nuts, washers and gaskets and clamped on supports at a height of +12 Mtrs. to 0 Mtrs level as per drawing / BHEL Engineer's instructions. CS, SS pipe, pipe fittings, Valves Structural materails like angles and channels only will be provided by BHEL free of cost. The rates quoted includes all the above work with contractor's welding electrodes,consumables and equipments. The Contractor has to arrange own transportation for material shifting from BHEL stores to work site. Tools & tackles, welding rods & equipment are in the contractor's scope. All necessary safety precautions like usage of safety belts at height works, usage of relevant PPEs etc. have to be taken care off by the contractor. |     |      |          |            |
| <b>A</b> | <b>PIPE LINE</b>   |     |      |          |            |
| <b>1</b> | <b>Laying of Pipeline</b>  |     |      |          |            |
|          | CS Pipe 48 " 20#   | 51  | RM   | 5700     | 290700     |
|          | CS Pipe 6" 40#   | 100 | RM   | 1100     | 110000     |
|          | CS Pipe 4" 40#   | 30  | RM   | 500      | 15000      |
|          | CS Pipe 2" 40#   | 50  | RM   | 300      | 15000      |
|          | CS Pipe 1" 40#   | 30  | RM   | 100      | 3000       |
|          | CS Pipe 1/2" 40#   | 46  | RM   | 75       | 3450       |
|          | SS Pipe 3" 40#   | 60  | RM   | 400      | 24000      |
|          | SS Pipe 6" 40#   | 60  | RM   | 700      | 42000      |
| <b>2</b> | <b>Joints</b>  |     |      |          | 0          |
|          | Joints CS Pipe 48 " 20#  | 106 | Jts. | 8000     | 848000     |
|          | Joints CS Pipe 6" 40#  | 122 | Jts. | 1100     | 134200     |
|          | Joints CS Pipe 4" 40#  | 55  | Jts. | 900      | 49500      |
|          | Joints CS Pipe 2" 40#  | 82  | Jts. | 600      | 49200      |
|          | Joints CS Pipe 1" 40#  | 78  | Jts. | 300      | 23400      |
|          | Joints CS Pipe 1/2" 40#  | 36  | Jts. | 200      | 7200       |
|          | Joints SS Pipe 3" 40#  | 8   | Jts. | 1000     | 8000       |
|          | Joints SS Pipe 6" 40#  | 8   | Jts. | 1500     | 12000      |

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|--------|--|-----|------|----------|------------|
| 3      | Valves : Erection of Valves as per drawing/instructions of the site engineer.  |     |      |          | 0          |
|        | Gate Valve Dia 48"   | 2   | Nos. | 15000    | 30000.00   |
|        | Gate Valve Dia 6"  | 2   | Nos. | 1200     | 2400.00    |
|        | Gate Valve Dia 4"  | 1   | Nos. | 1200     | 1200.00    |
|        | Gate Valve Dia 2"  | 5   | Nos. | 600      | 3000.00    |
|        | Gate Valve Dia 1"  | 3   | Nos. | 500      | 1500.00    |
| B      | <b>Installation of Gear Box</b> and alignment with Motor Train : Gear Box to be installed as per the directions of the site engineer/ drawing in the specified location. The work also involves shifting of Gear Box from storage location to the installation site, levelling of Gear Box and alignment of the motor train and making necessary connections.  | 1   | LS   | 20000    | 20000.00   |
| C      | <b>Fabrication and Erection of pressure measurement ring on suction and discharge lines</b> : Pressure measurement ring to be fabricated and installed on suction and discharge lines as per the directions of the site engineer/ drawing in the specified location. The work also involves shifting of material from storage location and making necessary connections.   | 1   | LS   | 9000     | 9000.00    |
| D      | <b>Installation of Instrumentation skid</b> : Instrumentation skid to be installed as per the directions of the site engineer/ drawing in the specified location. The work also involves fabricating of base of instrumentation skid, shifting of Instrumentation skid from storage location to the installation site, making necessary pipeline & instrument connections. All works required for installation are in the scope of contractor including consumables. | 1   | LS   | 10000    | 10000.00   |
| E      | <b>Installation of Vacuum Pump &amp; Motor- 2 Nos</b> : Vacuum Pump & Motor- 2 Nos to be installed as per the directions of the site engineer/ drawing in the specified location. The work also involves shifting of Vacuum Pumps & Motors from storage location to the installation site, and making necessary pipeline connections. All works required for installation are in the scope of contractor including consumables.                                      | 1   | Tons | 25000    | 25000.00   |
| F      | <b>Fabrication</b> : The scope includes fabrication and erection of existing structures, fabrication of columns, pipe racks, hanger supports, pipe supporting brackets tee hangers etc. Contractor has to arrange for transport to shift the material from BHEL stores to site and has to hand over the balance material to stores. Required plates, channels, angles, valves, elbows, t joints and pipes will be supplied by BHEL free of cost.                     | 7   | Tons | 12500    | 87500.00   |
| G      | <b>Erection of Flow meter</b> : The scope includes lifting of 48" flowmeter from packaging, placing it in piping, aligning with end flanges and connection of bolts, as per direction of site engineer / drawing in specified location. Required bolts and nuts will be provided by BHEL free of cost.   | 1   | Tons | 11500    | 11500.00   |

| S. No. | Description of the item   | Qty    | Unit | Rate (₹) | Amount (₹)       |
|--------|---|--------|------|----------|------------------|
| H      | <b>Erection &amp; Commissioning of Water Tank</b> : Water tank, of size 16m x 4.5m x 4.5 m is to be erected on civil foundation as per directions of site engineer / drawing in the specified location. Work involves shifting of tank from transport vehicle to location, orientation and installation with foundation bolts at site. Work also involves connection of process pipes. Required plates, angles, valves, elbows, joints, pipes, bolts will be supplied by BHEL free of cost.   | 45     | Tons | 5000     | 225000.00        |
| I      | <b>Clamping Bars:</b>   |        |      |          |                  |
| 1a     | <p><b>Shifting Erection and Levelling of Clamping Bars</b> : Shifting, erection, alignment &amp; levelling of clamping bars including foundation bolts, taper wedges in location as indicated by site engineer/drawing. The levelling has to be done up to a minimum levelling accuracy of 0.1 mm/ mtr. The surface of the clamping bars should be cleaned with kerosene and oil stone and also foundation bolts threaded portion &amp; nuts cleaned before erection. The levelling should be carried out with spirit level of 0.1 mm / mtr. accuracy. Weight details of clamping bars, foundation bolts , taper wedges &amp; Packing plates are as given below: he Foundation bolts &amp; taper wedges mentioned above are to be supplied by the contractor (rates of material are given in below item).</p> <p>Foundation bolts spec: MS foundation bolts of size M42 X 4.5 X length 630 with Hex nut and washers as per attached Drawing</p> <p>Tapr wedges spec: Taper wedges of sizes : Length 150mm, width : 40 mm, Thickness 12 mm(max) to 3 mm (min),as per attached Drawing</p> <p>The clamping bars and Packing plates will be provided as free issue from BHEL stores.</p> <p>Required fabrication works to be done as directed by Engineer-in-charge.</p> | 15.70  | Tons | 3500     | 54950            |
|        | (a) 2.5 m Clamping Bars: 20 Nos. 20 x 650 Kg. =13000 Kg.  |        |      |          |                  |
|        | (b) Foundation Bolts(3 per clamping bar):60x 8 Kg/bolt= 480 Kg.   |        |      |          |                  |
|        | (c) Packing Plates(1 per clamping bar) :20 x108 Kg/bar= 2160 Kg.  |        |      |          |                  |
|        | (d) Taper Wedges (6 per clamping bar):120 x 0.6 Kg/taper wedge = 72.0Kg.  |        |      |          |                  |
| 1b     | Supply of Foundation bolts spec: MS foundation bolts of size M42 X 4.5 X length 630 with Hex nut and washers  | 60.00  | EA   | 763.78   | 45826.8          |
| 1c     | Supply of Taper wedges of sizes : Length 150mm, width : 40 mm, Thickness 12 mm(max) to 3 mm (min)   | 120.00 | EA   | 73.73    | 8847.6           |
| 2      | <p>Shifting of MS scrap plates from scrap yard or any other block to work site. The MS scrap should be made to size of 150 mm x150 mm or any other size as desired by site engineer from 5 mm to 60 mm thickness plates with Gas cutting ,edges to be chipped and grinded with hand drilling machine.</p> <p>Finished plates to be shifted to site/stores as per the instruction of site engineer.</p> <p>(Shifting of materials, equipments, gas cutting torch etc. are in the scope of contractor) . Only Acetylene Gas, Oxygen and MS scrap plates shall be of BHEL free issue.</p>  | 2      | Tons | 600      | 1200             |
| J      | <p>Painting : Supply of paints and painting materials; painting of pipes, pipe fittings, equipments and other structurals by thoroughly cleaning all the surfaces free from scales,dirt and other foreign matter. Each coat shall be applied in an even and uniform film free from lumps,streaks,runs and uncoated spots.</p> <p>Make : ASIAN/BURGER/SHALIMAR/NEROLAC. One coat of rust preventive oxide primer with 40 microns thick and one coat of Synthetic enamel paint as approved by BHEL.</p>   | 582    | Sq m | 130      | 75660.00         |
|        |   |        |      |          | <b>2247234.4</b> |

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|--------------|--|-----|------|----------|------------|
| <b>Note:</b> |  |     |      |          |            |
| 1            | <b>Risk Purchase :</b> In case the contractor fails to execute the work within the scheduled time or due to any other reasons, BHEL reserves the right to get the same completed through some other party at the risk & cost of the contractor and any additional expenditure incurred due to the same shall be charged to the contractor.   |     |      |          |            |
| 2            | The rates are excluding GST.   |     |      |          |            |
| 3            | The maintenance period is <b>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.  |     |      |          |            |
| 4            | <b>Penalty terms:</b><br>a) In the event of delay in supply of goods and or services beyond contractual delivery date, penalty of 0.5% per week or part there of shall be levied on the gross value of work done subject to a maximum of 10% of the gross value of the total work executed. Penalty amount so determined along with GST if applicable thereon shall be recovered.<br>b) If the contractor fails to deposit the required security deposit or commence the work within the period as per LOI/Contract. The EMD will be forfeited.<br>c) If the agency fails to commence the work as requested by the department penalty of 0.5% on the gross value of work for weeks delay will be applicable. Penalty amount so determined along with GST if applicable thereon shall be recovered. |     |      |          |            |
| 5            | <b>Taxes:</b> Bidders shall quote their Basic price exclusive of taxes. The applicable taxes on supply of material or services, as the case may be viz.GST shall be quoted separately, clearly showing the Service Code/Tariff Head, Rate of Tax and Amount of Tax in the Bid. The reimbursement of taxes to the contractor is contingent upon fulfilment by the contractor of all statutory provisions as stipulated in the relevant taxation statute enabling BHEL to avail the eligible input tax credits.<br>TDS at the rates prescribed under Income Tax Act shall be deducted from the payments due to Contractor and BHEL shall issue the necessary TDS Certificates for such deductions made.  |     |      |          |            |
| 6            | The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than GST as applicable from time to time.   |     |      |          |            |
| 7            | 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.  |     |      |          |            |
| 8            | 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.   |     |      |          |            |
| 9            | The agency has to pay the minimum wages to workers with statutory payments like ESI, PF etc., is as per BHEL notification and as per NIT. For USW= ₹ 550.38, SSW= ₹ 587.73, SW = ₹ 623.54 + ESI + PF + PPE's and other statutory if any increase in future DA is to be borne by the agency.  |     |      |          |            |
| 10           | The agency has to bring police clearance certificate for the work force.   |     |      |          |            |
| 11           | All the terms and 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 and conditions will be modified in accordance with the provisions of new laws (e.g. GST).  |     |      |          |            |
| 12           | Payment shall be made stage wise on approval from engineer in charge   |     |      |          |            |
| 13           | Vendor shall raise GST invoice on BHEL Hyd GSTIN.  |     |      |          |            |
| 14           | If BHEL is unable to avail the input tax credit, the same amount shall be recovered from the vendor bills.   |     |      |          |            |
|              | <b>GST CLAUSES</b>   |     |      |          |            |
|              | Following points to be complied with :   |     |      |          |            |
| 16           | In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied/leviable on BHEL.   |     |      |          |            |
| 17           | In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied / leviable on BHEL.   |     |      |          |            |
| 18           | The bidder shall arrange to send to BHEL, Hyderabad along with all the required documents as in Purchase Order, Tax Invoice (Original for Recipient) along with his bills.   |     |      |          |            |
| 19           | Vendor to ensure correct applicability of IGST/CGST/SGST/UTGST based on the Inter /Intra state movement Supply of goods and services or both.  |     |      |          |            |
| 20           | Taxes and duties prevalent on the contractual delivery date or the actual delivery date (in case of delay) whichever is lower shall be applicable paid. Composition Scheme to be addressed.  |     |      |          |            |
| 21           | Vendor shall note that the Invoice has to be raised quoting HSN Code of Goods or Accounting Code of Services or both wherever applicable.  |     |      |          |            |
| 22           | Invoice should mention BHEL-HPEP-HYDERABAD GSTIN: 36AAACB4146P1ZG or GSTIN of BHEL Nodal Agency as mentioned in PO.  |     |      |          |            |
| 23           | In case of any short supply of goods or service Vendor has to raise a credit note for short supplied quantity as per GST provisions.   |     |      |          |            |
| 24           | Any GST liability arising on BHEL under reverse charge before actual receipt of goods and or services and/or invoice thereof would be subject to recovery of interest leviable for the period between the date of such liability and actual date of eligibility of ITC based on receipt of goods, receipt of invoices and other conditions specified in GST law, as applicable.  |     |      |          |            |

| S. No. | Description of the item   | Qty | Unit | Rate (₹) | Amount (₹) |
|--------|---|-----|------|----------|------------|
| 25     | Supplier shall mention their GST registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc. |     |      |          |            |
| 26     | A declaration to the effect that all tax liability as per GST rules and regulations shall be discharged.  |     |      |          |            |

| Tender %                       | In figure | In words |
|--------------------------------|-----------|----------|
| Excess                         |           |          |
| Less                           |           |          |
| At par with<br>Estimated value |           |          |

|               |  |
|---------------|--|
| <b>Note :</b> | <b>The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimated value in figures and words. Bidders are requested to fill only one row.</b> |
|---------------|--|