



**Bharat Heavy Electrical Limited Bhopal**



OUR REF:  
DATE : 16-03-2020

**NIT No. ELX/GPX/20/01**

Dear Sir,

**Sub: -Electrical Maintenance of GPX Plants and assistance in Control room operation.**

Sealed Tender is invited for "**Electrical Maintenance of GPX Plant and Operation at Electrical control room**", as per particulars of the tender given below: -

- |                                       |  |
|---------------------------------------|--|
| 1.1 Last date of submission of tender | : 06/04/2020 upto 11.00 AM               |
| 1.2 Tender opening date and time      | : 06/04/2020 at 2.00 PM                  |
| 1.3 Contract Period                   | : Twelve Months from WO.                 |
| 1.4 Payment terms                     | : By Quarterly running & final bills     |
| 1.5 PVC/ORC                           | : Not applicable.                        |
| 1.6 Bonus Clause                      | : Clause 4.6 of Annexure-III             |
| 1.7 Penalty Clause                    | : Clause 30 of Annexure-I Sp. Condition. |

1. Bidders are advised to read and understand the tender document properly.
2. Scope of work and special conditions are given in Annexure-I, General Terms & Conditions in Annexure-II and Instructions to Contractor for statutory compliance for Works Contract in Annexure III & IV, General but obligatory instructions in Annexure-V, BHEL's terms and condition for HSE norms in Annexure-VI, Tentative tools list in Annexure-VII, and GST Terms in annexure-VIII.
3. Cost of tender documents enclosed herewith is Rs **500/-** (Rupees Five Hundred only), +GST, which is non-refundable.
4. The tender must be accompanied by Earnest Money deposit of Rs.30,670/- (Rs. Thirty Thousand Six Hundred Seventy only).
5. Tenderer may also submit one time EMD of Rs 5, 00,000 for exemption of payment EMD with each tender after taking permission from AGM (ELX).
6. Tenders received without remittance of earnest money are likely to be rejected.
7. The EMD / Tender fee shall be accepted through **electronic mode only** (NEFT/RTGS/Net Banking/POS/SB Collect etc.) Link to access SB (state bank) collect is <https://www.bhelbpl.co.in/gcins/iccs.htm>. Help for first time user is also available at the link.

Bhopal : Phone : 2500100 (7 Lines), Fax : 0755-2500425, Gram : BHARATELEC  
WEBSITE ADDRESS: [www. Bhelbhopal.com](http://www.Bhelbhopal.com)

Regd. Office : BHEL House, Siri Fort, New Delhi – 110049  
WEBSITE ADDRESS : [www.bhel.com](http://www.bhel.com)

8. Tenderer have to submit their offer in Two Bid (Technical bid & Price bid). Technical (all papers except schedule-A) & Price bid(only schedule-A) should be submitted in two different envelope separately and both the envelope should be kept in one envelop. On all envelopes, Tender's name, NIT no. and date of Tender opening must be mentioned. Else, tender submitted by the party will not acceptable.
- 10 Tenderer should dully fill and also submit all the documents as mentioned in DATA CHECK LIST along with the offer.
9. In case any terms and conditions are not acceptable to the tenderer, same should be clearly stated in the tender.
10. Tender should be valid for a period of 90 days from the date of opening.
11. Tenderer are requested to submit their lowest offer subject to BHEL's terms and conditions for the above work, so as to reach the Tender Room at Admn. Bldg. Ground Floor, BHEL, Piplani, Bhopal 462022 on or before the due date by 11.00 AM.
12. All tender papers duly filled in and signed by the tenderer must be enclosed with the tender, as proof of the acceptance of the conditions
13. Rates shall be quoted clearly mentioning the GST also.
14. All schedule A items are interrelated and L1 will be decided on overall price, and contract shall be awarded to single party only.
15. The Tenderers are required to quote for the complete scope of work with the lowest possible rate. The Tenderers quoting for part of the work or incomplete in any respect are likely to be rejected.
16. If rates quoted by party is less than the minimum wages of skilled and unskilled labour as declared by CLC (ref Schedule-B) their offer shall be rejected.
17. BHEL reserves the right to accept or reject any of the bid / all bids with or without deviation or cancel / withdraw the invitation for bid without assigning any reason whatsoever and in such case no bidder shall have any claim arising out of such action by BHEL.

Thanking you.  
Yours faithfully,  
for BHEL,BHOPAL

(Prateek Singh)  
(Sr.Engineer,ELX)

Encl:- PQC, Annexures I, II, III, IV, V, VI, VII,VIII, Schedule-A, Schedule-B & Data check list.

Scope of Work for GPX Maintenance

1. Repair/Replacement of Light fittings in GPX.
  - Repair/Replacement of
    - i. Tube light fittings (40W),
    - ii. Flame proof fittings, well glass fitting (70W),
    - iii. High bay fitting (150W),
    - iv. Flood light fitting or Street light fitting (250W), and
    - v. High mast fitting(400W) as required
    - vi. Lights in tunnel.
  - Electrical connection or reconnection or disconnection of light fittings, if required
  - Mounting or removable of light fitting, if required
  - Replacement of choke/igniter/tube of light fittings, if required
  - Shifting of Street light ladder (height min 25 feet) from store to site & vice versa
2. Repair/Replacement of Ceiling Fan and Wall Mounted Fan
  - Electrical connection or reconnection or disconnection of fan, if required
  - Mounting or removable of fan if required
  - Replacement of condenser/ bearing of fan
  - Oiling/greasing of fan etc.
3. Preventive & breakdown maintenance of Motors and control panels
  - Preventive Maintenance of motors as per schedule
  - Attending the starting problems of motors
  - Connection or reconnection or disconnection of power cables from stator panel of motor and/or from motor terminal end
  - Replacement of bearing of motor
  - Oiling/greasing of motor
  - Cleaning of starter panel of motor
  - Transportation of burnt motors from GPX to Motor repair shop and vice versa.
4. Laying or removable of 415V Power cable (LT cable on breakdown only)
  - Laying of power cable inside trench
  - Electrical connection of power cable from both of its end
  - Shifting of cable drum from store to site & vice versa
5. Preventive and breakdown maintenance of 3.3 kV compressors.
6. Preventive and breakdown maintenance of 11 kV capacitor bank in GPX.

Scope Of work for Control Room operation

1. Deployment of 01 no skilled manpower in three shifts ( Ist, IInd, and IIIrd) or as directed by engineer in charge.
2. Assist the BHEL Control room staff in 132 kV, 11 kV, DG and 415 V electrical distribution system operation.
3. Assist BHEL's staff in filling the operational log book.
4. Live/Online operation is not to be done.

**Special Conditions**

1. It must be clearly understood by contractor and duly confirmed that he shall bear full and final risk arising out of working with 415 V switchgear and working at Boiler (27 meter height), LPG, Acetylene & Compressor Plant, no claim shall be made by the contractor for damage to his tools or tackles and any injury, whatsoever, which may occur to any of his workmen during the execution of this work.
2. Height of Street light pole & High-Mast are approx. 20 feet & 75 feet respectively. Well glass fittings, High bay fittings are located at an approx. height of 35 feet from ground floor.
3. Cable and other items shall be handled with care. If any damaged is caused to any items, the cost plus an amount as decided by BHEL shall be recovered from the contractor's bill.
4. Contractor should be aware of risk while deputing skilled/unskilled labor in most critical & hazardous area inside Gas plant like Boiler, LPG, Acetylene & Compressor plant.
5. All the work shall be carried out as per code of practice and IE rules.
6. Contractor should ensure the compliance of all safety norms / regulation.
7. Contractor must fulfill all statutory requirements like minimum wages, additional wages, PF, ESI, Labor welfare fund, uniform, cloth, shoes, helmet & leave etc.as per annexure-III & IV.
8. For carrying out the maintenance work, minimum tools & tackles shall be as per annexure –VII & VIII.
9. Consumable items viz Contact cleaner, Rustoline, Thinner, Cotton waste, LT insulation tapes, HT tapes, Emery paper, Welding rods, grinding wheels, hexa blades, ladders, IR tester, HV tester etc shall be provided by BHEL free of cost.
10. Log book shall be maintained for all the activities on individual equipment/work wise. Formats of log book shall be given by BHEL.
11. Contractor shall deploy **five no's of skilled worker** having either ITI certificate & minimum one years of experience or five years of work experience in electrical trade and **two no's of semi-skilled workers** with two years of experience in electrical works on daily basis.
12. Skilled workers shall be assigned maintenance or operation duty as directed by Engineer Incharge.
13. For maintenance of GPX plant contractor shall arrange workers/staff who will be reporting to the engineer in-charge daily in first shift (7.00 AM to 4.00 PM), or as directed. In case of urgency / breakdown in plants contractor has to depute workers in 2<sup>nd</sup> / 3<sup>rd</sup> shift also. Workers to be deployed on Sundays & holidays also as per work requirement.
14. In case of major breakdown or preventive maintenance activity, the man power may be increased to get the work completed within the time frame.
15. Total man-days indicating in schedule 'A' is tentative and may deviate +/- 30 % as per requirement of work.
16. Supervision of the work will be in scope of contractor. He will depute **one Supervisor** having diploma in electrical with minimum one year of experience or ITI in electrical trade with minimum 5 years of experience exclusively for supervision of maintenance work.
17. Supervisor deputed for daily work shall be authorized by the supervisory license holder and contractor.
18. In case of absence of identified supervisor an acting supervisor shall be nominated by supervisory license holder to take up the supervision of work during absence of identified supervisor for short duration only.
19. Contractor shall provide the list of authorized person with worker category duly signed by supervisory license holder and contractor.

20. The contractor shall get approval from Engineer-in-charge before work execution. The decision of Engineer-in-charge regarding satisfactory work shall be final and binding on contractor.
21. Power shut down before start of work and power restoration after completion of work shall be done by BHEL only.
22. Permit shall be taken by contractor's supervisor/authorized person before start of work from BHEL's concerned supervisor / Engineer-in-charge before starting the work, where ever required.
23. Considering the fact that GPX is a hazardous & sensitive area, BHEL staff may be deployed for guidance and monitoring purpose during the execution of the work on need basis.
24. BHEL reserve the right to recover the cost of any damage done by contractor to BHEL's property during execution of work as it may deem fit without explanation to contractor.
25. Repeated failure to comply with condition as above may lead to termination of contract at the cost and risk of contractor.
26. Any activity which is not mentioned in scope of work shall also be carried out by the contractor, whenever required, to complete the work in all aspect.
27. In addition to above terms and conditions mentioned in Annexure-I, II, III, IV, V, and VI, VII, VIII and other terms and conditions issued from time to time shall also be applicable.
28. Worker compensation as per clause 9 of Annexure-V.
29. **Payment terms:-**
  - 29.1 The payment will be made by the Quarterly and/or Final Bill.
  - 29.2 Payment of the Supervisor shall be done under skilled category worker, any additional wages if required to engage supervisor shall be borne by contractor.
  - 29.3 Payment shall be made as per actual manpower deployed. As per Schedule-A.
  - 29.4 Contractor shall ensure the payment of latest revised statutory minimum wages and additional wages as per BHEL HR CLC for Contract workers, throughout the contract period. No compensation/payment will be made by BHEL against any wage revision during contract period.
  - 29.5 Contractor shall pay wages for government recognized gazetted holiday viz. 26<sup>th</sup> January, 15<sup>th</sup> August and 2<sup>nd</sup> October no claim shall be made by contractor to BHEL.
  - 29.6 Any disallowance of tax credit will be recovered with interest from contractors bill if disallowance is attributed to them.

30. **Penalty:-**

Payment to the contractor will be for actual attendance of manpower. In case, contractor fails to deploy required manpower as per agreed terms and conditions penalty shall be imposed and deducted from running/Final bills by Engineer in-charge for following rates GST will be extra:-

- 30.1 If contractor fails to deploy skilled technician/supervisor or he remains absent for consecutive 7 working days. Rs 1500/- per technician thereafter Rs 200 per day per technician maximum up to 5000 /- per month.
- 30.2 If contractor fails to deploy Semi-skilled worker or he remains absent for consecutive 7 working days. Rs 1200/- per worker thereafter Rs 180 per day per worker maximum upto 4500 / - per month.

**\*\*NOTE:** This penalty is over and above the deduction from running/final bill for absence of manpower

Signature of Issuing Officer  
Date

Signature of Contractor  
Date