

**Bharat Heavy Electrical Limited Bhopal**

OUR REF :

DATE : 27-10-2020

NIT No. ELX/GPX/20/03R

Sub:- Maintenance and housekeeping of solar power plants installed in factory premises BHEL Bhopal.

Sealed Tender is invited for " **Maintenance and housekeeping of solar power plants installed in factory premises BHEL Bhopal** ", as per particulars of the tender given below:

- | | |
|---------------------------------------|--|
| 1.1 Last date of submission of tender | : 20/11/2020 upto 11.00 AM |
| 1.2 Tender opening date and time | : 20/11/2020 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 21 of Annexure-I Sp. Condition. |

- Bidders are advised to read and understand the tender document properly.
- 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, Conciliation and arbitration clause Annexure-VI, BHEL's terms and condition for HSE norms in Annexure-VII, Tentative tools list in Annexure-VIII, and GST Terms in annexure-IX.
- Cost of tender documents enclosed herewith is Rs. **200/-** (Rupees Two Hundred only), +GST, which is non-refundable.
- The tender must be accompanied by Earnest Money deposit of Rs.10181. (Rs. Ten thousand One hundred and Eighty One only).
- 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).
- Tenders received without remittance of earnest money are likely to be rejected.
- 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

8. **EMD** may be deposited in following ways:-
 - a) Tax deposit as permissible under the extent IncomeTaxAct (before tender Opening)
 - b) Electronic fund transfer in BHEL's account (before tender opening).
 - c) Banker's cheque/Pay order/Demand draft in favour of BHEL. (before tender opening).
 - d) Fixed deposit receipt (FDR) issued by scheduled banks/Public Financial institutions as defined in the Companies Act (FDR should be in the name of contractor, c/c BHEL).
9. 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.
10. In case any terms and conditions are not acceptable to the tenderer, same should be clearly stated in the tender.
11. Tender should be valid for a period of 90 days from the date of opening.
12. 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.
13. 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
14. Rates shall be quoted clearly mentioning the GST also.
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 semi-skilled labour as declared by CLC (ref Schedule-B) their offer shall be rejected.
17. BHEL reserves the right to accept the offers in part or in full, cancel the Tender enquiry or short close the contract without assigning any reason whatsoever, 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)
(Dy Manager,ELX)

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

Annexure-I

Scope of Work for Solar Plant Maintenance

- 1) Up-keeping of solar plant area.
- 2) Dressing and maintenance/replacement of cables/wires and HDPE conduits of DC cables.
- 3) General cleaning of solar panels with water, cotton mops/wipers.
- 4) Trimming of vegetation/grass etc.
- 5) Measurement of Panel/String voltages.
- 6) Measurement of IR for DC and AC cables.
- 7) Replacement of MC4 connectors, Rusted hardware, Structure.
- 8) Replacement of fuse, SPDs, faulty panels, cables, JB, ACDB, DCDB, Inverters etc.
- 9) Terminal Tightness, making new terminations/lug crimping, laying of DC, AC cables etc.
- 10) Maintenance of Earth pits/strips of solar plants.
- 11) Maintenance of all solar plant related equipments viz. Inverter, ACDB, DCDB, DC and AC cables, LT ACB, LT Power boards, Battery charger and bank.
- 12) Maintenance of area lighting of solar plant.
- 13) Any other activity which is required to keep solar plant functional.
- 14) Record keeping of solar power generation, string voltage and current etc.

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 DC voltage above 600 V in Solar power plants.
2. 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.
3. All the work shall be carried out as per code of practice and IE rules.
4. Contractor should ensure the compliance of all safety norms / regulation.
5. Contractor must fulfill all statutory requirements like minimum wages, additional wages, PF, ESI, Labour welfare fund, uniform, cloth, shoes, helmet & leave etc. as per annexure-III & IV.
6. For carrying out the maintenance work, minimum tools & tackles shall be as per annexure –IX.
7. Consumable items viz Contact cleaner, Rustoline, Thinner, Cotton waste, LT insulation tapes, LT tapes, Emery paper, Welding rods, grinding wheels, hexa blades, ladders, IR tester, HV tester etc shall be provided by BHEL free of cost.
8. Log book shall be maintained for all the activities on individual equipment/work wise. Formats of log book shall be given by BHEL.
9. Contractor shall deploy **one 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 nos of semi-skilled worker** with two years of experience in electrical works on daily basis.
10. For maintenance of SPV 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 2nd / 3rd shift also. Workers to be deployed on Sundays & holidays also as per work requirement.
11. In case of major breakdown or preventive maintenance activity, the man power may be increased to get the work completed within the time frame.
12. Total man-days indicating in schedule 'A' is tentative and may deviate +/- 30 % as per requirement of work.

13. Contractor shall provide the list of authorized person with worker category duly signed by supervisory license holder and contractor.
14. 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.
15. 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.
16. Repeated failure to comply with condition as above may lead to termination of contract at the cost and risk of contractor.
17. 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.
18. 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.
19. Worker compensation as per clause 9 of annexure-V.

20. **Payment terms:-**

- 20.1 The payment will be made by the Quarterly and/or Final Bill.
- 20.2 Payment shall be made as per actual manpower deployed. As per Schedule-A.
- 20.3 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.
- 20.4 Contractor shall pay wages for government recognized gazetted holiday viz. 26th January, 15th August and 2nd October no claim shall be made by contractor to BHEL.
- 20.5 Payment for MSME vendors within 45 days and for non MSME vendors within 60 days.
- 20.5 Any disallowance of tax credit will be recovered with interest from contractors bill if disallowance is attributed to them.

21. **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:-

- 21.1 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.
- 21.2 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.

22. Penalty shall be limited upto 10% of WO value.

****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