

## Bharat Heavy Electrical Limited Bhopal



YOUR REF :

OUR REF : ELX/GPX/19/03

DATE : 21.10.2019

### **NIT NO. ELX/GPX/19/03**

#### **Sub: Replacement of 11kV Circuit Breaker at substations inside BHEL**

Sealed Tender is invited for " Replacement of 11kV Circuit Breaker at substations inside BHEL ", as per particulars of the tender given below:-

- 1.1 Last date of submission of tender : 11/11/2019 upto 11.00 AM
  - 1.2 Tender opening date and time : 11/11/2019 at 2.00 PM
  - 1.3 Contract Period : **Two Years**
  - 1.4 Payment terms : **After completion of work on each substations**
  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 and GST Terms in annexure-VII
  3. The Earnest money deposit of Rs 37,840.00 (Rupees Thirty-Seven Thousand eight hundred forty only) shall be deposited through e-Mode (NEFT/RTGS/Net Banking/POS/SB Collect etc.) in favor of "Bharat Heavy Electricals Ltd., Bhopal". Offer without EMD will be rejected. On acceptance of tender, this earnest money shall be treated as part of security deposit.
  4. The tenderer may also deposit one time EMD as Rs.5,00,000/- for exemption from payment of EMD with each tender after taking permission from AGM (ELX).
- Cost of tender documents enclosed herewith is **Rs.500/-** (Rupees Five Hundred only) + GST extra, shall be deposited through e-Mode (NEFT/RTGS/Net Banking/POS/SB Collect etc.), which is non-refundable.
5. Tenders received without remittance of earnest money are likely to be rejected.

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

- 110049

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

6. The BHEL, Bhopal does not bind themselves to accept the lowest or any tender or to give reason for their decision.
7. Tenderer should submit all the documents as mentioned in **DATA CHECK LIST** along with offer. Offer received without the documents are likely to be rejected.
8. Tenderer have to submit their offer in **Two Bid (Technical bid & Price bid)**. Technical & Price bid 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.
9. In case of 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 is requested to submit their lowest tender subject to BHEL's terms and conditions for the above work, so as to reach the Tender Room of **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 returned with the tender, as proof of the acceptance of the conditions.
13. Rates shall be quoted clearly mentioning the GST also.
14. All the activities mentioned in Schedule-A are inter-related and L1 will be decided on overall price and contract shall be awarded to single tenderer only.

Thanking you.

Yours faithfully,  
for BHEL,BHOPAL

(C.K.Jain )  
Dy.Manager (ELX)

Encl:- Annexures I to VII, Schedule-A, Schedule-B & Data check list

**SCOPE OF WORK & SPECIAL CONDITIONS**

**Name of work: Replacement of 11kV Circuit Breaker at substations inside BHEL**

1. Dismantling & shifting of old 11 kV CB
  - a. Removal of insulating compound, if any.
  - b. Disconnection of 11kV Power cables, 11kV Bus bar & Control Cables.
  - c. Handling of 11kV Power cable & Control cable as required.
  - d. Disconnection of Earth strip.
  - e. Dismantling of old 11kV Circuit breaker.
  - f. Shifting of old 11kV Circuit breaker (CB) from substation to scrap yard including loading & unloading of old 11kV CB.
  - g. Scope of work includes all other minor works not mentioned above for Dismantling & Shifting of old 11kV VCB.
2. Erection & commissioning of new 11kV VCB
  - a. Shifting of new 11kV Circuit Breaker (CB) from store to substation including loading & unloading of new 11kV CB.
  - b. 150 mm dia. core cutting of concrete basement (thickness approx. 10") for 11kv power cable & control cable entry as required.
  - c. Erection of 11kV CB inside substation.
  - d. Grouting/levelling of SS/MS frame and 11kV CB.
  - e. Welding between frame & housing of CB.
  - f. Laying of new control cables from new CB to Transformer.
  - g. Connection of 11kV Power cables, 11kV Bus bar & Control Cables.
  - h. Interconnection of AC & DC bus supply.
  - i. Earthing of VCB panel from both ends.
  - j. Checking the Alignment between truck & housing, Closing, Tripping, Opening of breaker, Indication Circuit, Heater Circuit, Transformer Interlock etc.
  - k. Measurement of Contact Resistance, Insulation Resistance, Heater circuit resistance etc.
  - l. Scope of work includes all other minor works not mentioned above for E&C of new 11kV VCB.
  - m.

**Special Conditions**

1. All the work shall be carried out as per code of practice and IE rules.
2. Contractor should ensure the compliance of all safety norms / regulation.
3. The above mentioned work will be carried out depending upon the availability of shutdown.
4. **Contractor shall arrange himself for transportation (Truck/ Crane/ loading/ Unloading) of old/new 11kV Circuit Breaker.**
5. Dismantling & Shifting of old CB, Erection & Commissioning of new CB has to be completed within the allotted time period on top priority & urgent basis.

6. For carrying out the maintenance work required tools & tackles i.e **Ring spanner, Open spanner, screw driver, multi-meter, test lamp, Drilling Machine, Machine for core concrete cutting, Vacuum Cleaner, welding machine, welding rods, Anchor Fastener (HDG), etc** and personnel protective equipment's i.e. **rubber hand globes, safety shoes, Helmet etc** shall be arranged by the contractor himself.
7. Only **Insulation Resistance Meter (5kV) & Contact Resistance Meter** will be provided by BHEL free of cost for measurement purpose only.
8. Contactor shall submit the **authorization letter** indicating the name of workers, supervisor deployed and their experience & qualification before the start of work.
9. It is essential condition of this contract that contractor shall depute **competent supervisor** to supervise the work to be carried out during the day.
10. After completion of work, **work completion report** is to be submitted duly signed by A class contractor & supervisor to the BHEL.
11. BHEL will provide MS / SS strips. Contractor shall carry welding & drilling on these strips to convert the strips into frame. Breaker housing will rest on this frame. Grouting of this frame will be done with the help of Anchor Fastener.
12. All the HT power cables should be connected in accordance with the phase sequence of existing electrical system, failure of which will lead to fault (short-circuit) condition.
13. All the activities mentioned in Schedule-A are inter-related and hence all the activities shall be done by one contractor only and they will not be awarded to different contractors
14. Minimum 2-3 days of electrical shutdown or mutually agreed between Contractor & Engineer-in-charge shall be provided on each substation to execute the work.
15. The Engineer-in-charge shall guide for deciding number of persons to be engaged, depending upon the site requirement and urgency of work, The contractor shall have to meet planned schedule for the work as may be advised by engineer-in-charge. If any person is found to be not competent for above mentioned work then contractor has to change him.
16. Contractor shall arrange workers/staff on Sundays & holidays to complete the above mentioned work within the time. Contractor has to attend the same in 2<sup>nd</sup> / 3<sup>rd</sup> shift also.
17. Safety permit to work must be strictly obtained from the concerned supervisor / Engineer-in-charge before starting the work.
18. It must be clearly understood by contractor and duly confirmed that he shall bear full and final risk arising out of working with 11 kV switchgear. 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.

19. BHEL reserve the right to recover the cost of any damage to the equipment as may deem fit without explanation to contractor.
20. The decision of Engineer-in-charge regarding satisfactory work shall be final and binding on contractor.
21. The payment of the Contractor will be made **as per the completion of work on each substations.**
22. Debris etc. shall be cleaned from the site trenches of 11kV/415V substation. Trench cover shall be placed in position after work completion.
23. Any activity which is not mentioned but required for the execution of above work shall also be carried out by the contractor.
24. Quantity mentioned in Schedule-A is tentative & may vary either ways by upto 10%. The contractor shall be bound by the contract to satisfactorily complete the enhanced quantum of work at his quoted rates.

Signature of Issuing Officer  
Date

Signature of Contractor  
Date

## **DATA CHECK LIST**

### **To be fill up and submit all documents mentioned below along with Techno Commercial Bid**

1. Name of contractor / Firm :
2. Contrator's / Firm status : Proprietor / Partnership / Pvt. Ltd. / Public Ltd.
3. Contact Person :-  

Name :

Designation :

Phone No. :

Mobile No. :

E-mail :
4. 'A' class Electrical Contractor License No :
5. 'A' class Electrical Contractor License Validity date:
6. Name of Electrical Supervisory :
7. Age of Electrical Supervisory :
8. Central Labour license Number :
9. Central Labour license Validity date :
10. IT PAN :
11. GST No :

#### **Note:**

- Those Contractors, who do not have PF code number, may participate in bids and in case L1, they have to get PF code number before deploying contract labor( Ref letter no: AA/HR/LLX dated 02/05/2011).
- If age of Electrical Supervisory is more than 60 years, then contractor has to submit his medical fitness certificate.

Signature of Issuing Officer

Signature of Contractor

Date

Date

## **Schedule-A**

**Name of Work: Replacement of 11kV Circuit Breaker at Substations inside BHEL**

<b>S.No</b>	<b>Description</b>	<b>Qty</b>	<b>% Weightage</b>
1	Dismantling & Shifting of old 11kV CB panel as per sl.no 1 of Annexure-1	50 Nos	50.74
2	Shifting, installation of new 11kV CB panel as per sl.no 2 of Annexure-1	50 Nos	47.15
3	150mm diameter core cutting of concrete basement	40 Nos	2.11
4	Total		100
5	GST		Extra

**Note: Party has to quote only total amount. The amount of individual items will be distributed as per their weightage.**

Amount in Figure:

Amount in Words:

Signature of Issuing officer  
Date

Signature of Contractor  
Date

## **Schedule-B**

### **FREE ISSUE MATERIAL**

**Name of Work: Replacement of 11kV Circuit Breaker at Substations inside BHEL**

<b>S.No</b>	<b>Description</b>	<b>Qty</b>	<b>Rate</b>
1	New 11kV Circuit Breaker	50 Nos	Free of Cost
2	SS/MS Frame of CB	As required	Free of Cost
3	Control Cable	As required	Free of Cost
4	Insulation Resistance Meter & Contact Resistance Meter on returnable basis	One no each	Free of Cost
5	GI / CU Strip for Panel Earthing	As required	Free of Cost

Signature of Issuing officer  
Date

Signature of Contractor  
Date