

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

MAINTENANCE & SERVICES DEPARTMENT

☎: (0431) 2575916 Fax: (0431) 2521416 e-mail: paul@bheltry.co.in



NOTICE INVITING TENDER

Sub: **TESTING & CALIBRATION OF HT / LT PANEL MOUNTED PROTECTION RELAYS AND MEASURING INSTRUMENTS- reg**

Ref: **Enquiry no: 9251400079**, Dated 27/12/2014. Due date: 20/01/2015, 14.00 Hrs.

Tender of the following work should be submitted in a sealed cover consisting of three inner sealed covers such as 1) EMD cover, 2) Technical bid cover & 3) Price bid cover, all super-scribing the name of work, enquiry number etc.

- 1) EMD cover shall contain requisite EMD in the form of DD. Tenderers who had already remitted one time EMD should furnish a copy of the cash receipt of the remittance in the EMD cover. Tender without EMD / one time EMD reference will be summarily rejected and the Technical bid & price bid shall not be considered.
- 2) Technical bid cover shall contain duly filled in Technical bid document signed by the tenderer in all the pages with documentary evidences for pre-qualification such as experience, value of work executed in the similar nature of work etc. Any bid without proper documentary evidence for pre-qualification shall not be considered for further evaluation.
- 3) One set of unpriced bid of Contract Work Schedule duly signed by the tenderer for accepting the work content (BOM) should be submitted along with the Technical bid for technical evaluation.
- 4) The price bid cover shall contain price bid document duly filled in and signed by the tenderer in all the pages. The tenderer has to quote most competitive rates for all the items given in the Bill of Quantities in price bid.

The complete Technical bid and price bid along with requisite **EMD of Rs.20,000 /-** for this work in the form of **Demand Draft only in favour of M/s.BHEL, Trichy** shall reach the office of the undersigned on or before 20/01/2015 at 14.00 Hrs. Tenderers who had already remitted one time EMD should furnish a copy of the cash receipt of the remittance in the EMD cover. EMD in any other form will not be accepted.

Contractor

Accepting Officer

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The Technical bid will be opened on the same day at 14.30 hrs. In case of opening day falls on holiday or happened to be declared as a holiday the receipt and opening of the tender shall automatically fall on the same timing of the next working day. Date and time of opening of the Price Bid shall be intimated only to the bidders those who have qualified after evaluation of the Technical bid. You / Your authorized representative may participate in the tender opening.

Clarification if any can be obtained from the undersigned.

Kindly acknowledge the receipt of the entire set of tender document.

Thanking you,

Yours faithfully,

For Bharat Heavy Electricals Limited,
Sr. Manager
Planning & Contracts
Maintenance & Services Dept

Encl:

- 1) NIT – Notice Inviting tender (Consists of Preamble, Technical Bid & price bid)

Tender should be addressed to: **THE SENIOR MANAGER,**

MAINTENANCE & SERVICES/PLANNING,

2&4 BUILDING, BHARAT HEAVY ELECTRICALS LIMITED,

HIGH PRESSURE BOILER PLANT,

TIRUCHIRAPPALLI - 620014,

TAMILNADU

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NOTICE INVITING TENDER

01.	Name of work	TESTING & CALIBRATION OF HT / LT PANEL MOUNTED PROTECTION RELAYS AND MEASURING INSTRUMENTS
02.	Estimated Cost	Rs. 7 Lakhs
03.	Earnest Money Deposit	Rs. 20,000/-
04.	Duration of the contract	6 Months (From the date of commencement of the work)
05.	Last Date for Receipt of Tender	14.00 Hrs on 20/01/2015
06.	Date of Technical Bid Opening	14.30 Hrs on 20/01/2015
07.	Date of Price Bid Opening	Will be intimated to those who are qualified, separately.
08.	Guarantee Period	Not applicable

The Tender documents can be down loaded from BHEL website (www.bhel.com) / govt. website (www.tenders.gov.in) at free of cost.

Tender document contains 5 Pages.(Technical Bid – 4 Pages,Schedule for price bid – 1 page).

ISSUING OFFICER

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TECHNICAL BID

NAME OF THE WORK: TESTING & CALIBRATION OF HT / LT PANEL MOUNTED PROTECTION
RELAYS AND MEASURING INSTRUMENTS

Enquiry no: 9251400079, Dated 27/12/2014. Due date: 20/01/2015, 14.00 Hrs.

PRE-QUALIFICATION CRITERIA

The following eligibility criteria shall be complied to fulfill the Technical bid:-

Sl. No	Description	Vendor to confirm
1	Only those vendors who have carried out a minimum of TWO similar kind of calibration work of relays for the past Three Years only should quote. Work order copies pertaining to the same should be attached with the offer.	
2	List of organizations where the calibration work is conducted should be attached with the offer.	
3	Master calibration kits should be calibrated in NABL/ NABL accredited laboratories and the copy of the NABL certificate should be attached with the offer for traceability.	
4	Performance certificate from minimum one organization where similar kind of calibration work done in the past Three years should be attached.	
5	PAN & ITCC / IT Returns for the past three years to be submitted.	

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SCOPE OF WORK:

1. Testing & calibration of relays: Quantity: 800 Nos.

Testing & Calibration of over current / Earth fault/ transformer Protection auxiliary relays of analog / digital type relays at different substations of BHEL Trichy complex.

Testing & Calibration of all the relays with reference to different plug settings /time setting to the desired operation at our site. The secondary output of current transformers is 5A/1A and the trip voltage of the relay is 30 V / 24 V DC.

In case of the analog relays, each relay element consists of two numbers over current relay and one number of Earth fault relay. These relays are in operation in HT & LT panels of the respective substations. In the event of relay calibration, contractor should ensure the normal operation of the respective breakers shall not be affected.

Makes of relays available are as follows: English Electric/ Alstom/ Easun Reyrole/L&T/ C&S/ CDG 31/ CDD21/CDD11/ MC31A, P122, P127, etc. or equivalent type digital relays inbuilt with ACB.

Incase if any of the tripping coil is faulty in relays, necessary replacement of coil shall be in contractor scope. Supply of relay coil is in contractor scope. The supply of tripping coil subjected to the maximum of 10% of the relays calibrated shall be considered. The balance tripping coil shall be handedover to SS in-charge.

2. Testing & calibration of Transformer oil BDV kit: Quantity: 2 Nos.

Testing & Calibration of Transformer oil BDV test kit of make Siemens / prayog electricals with the measuring range of 0-60kV. Features of Break down voltage oil test Kit with auto / manual mode test facility available with drive and auto / step up transformer, detachable oil container with adjustable air cap of 2.0 to 4.0 mm etc.

3. Testing & calibration of multi-meter: Quantity: 8 Nos.

Testing & Calibration of digital multi-meters of make Motwane / Rishab / equivalent with the measuring range of 0-750V & 0-2000A.

4. Testing & calibration of insulation tester: Quantity: 6 Nos.

Testing & Calibration of analog 0-5000V insulation tester of makes Rishab / WACO instruments/ Equivalent with the measuring range varying from 0-1T Ohm.

5. Testing & calibration of earth tester: Quantity: 3 Nos.

Testing & Calibration of analog Earth tester of makes CIE/ Equivalent with the measuring range varying from 0-100Ohm.

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General Terms & Conditions:

- 1) All necessary Test/ master kits is under contractor scope. Necessary calibration certificate for the Primary equipment accuracy with due validity to be submitted.
- 2) Equipment other than relays can be calibrated inside our factory or at approved labs. Necessary Transportation and other charges if done outside are in the scope of contractor. Gate pass for Equipment shall be arranged by BHEL. Corresponding calibration certificate for the master equipment Shall be submitted along with the test reports.
- 3) Equipment under this contract will be issued on phased manner for external/ lab calibrations.
- 4) The relays and other meters are in different locations in HPBP, Unit -II, MHD, CCDP, FCB, WRI etc and BHEL will arrange to disconnect the relays and reconnect after completing the testing. The relays must be set to the original setting before reconnecting in the circuit. The operation features of the digital Relays and display shall be ensured after calibration.
- 5) Upon completion of the calibration, calibration test report in triplicate shall be submitted indicating The serial numbers of relays (within 15 days after completing calibration). Calibration sticker shall be Placed on the equipment front face indicating the vendor name and date of calibration.
- 6) Before submitting offer, the Vendor may visit BHEL, Trichy to understand the nature of work and the Requirement of BHEL. BHEL will not provide accommodation and conveyance during work execution. It's under vendor's scope.
- 7) Executing staff shall be covered under necessary ESI/PF as applicable and any other statutory Requirements.
- 8) Minor repairs if any shall be done for ensuring the normal operation of equipment under calibration.
- 9) The work shall be carried out as per the scope of work.
- 10) Security Deposit shall be furnished by the successful vendor to the total contract value before starting the work. The rate of Security Deposit will be 10% of the contract value up to 10 Lakhs. Above Rs. 10 lakhs up to Rs.50 lakhs will be Rs.1 lakh + 7.5% of the contract amount exceeding Rs. 10 lakhs. EMD of the successful vendor can be converted and adjusted against the security deposit.
- 11) The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
- 12) The contractor shall strictly adhere to various labour laws in force.
- 13) The contractor shall follow norms of BHEL security system for movement of men & materials Within the complex.

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- 14) Since the responsibility for the quality, workmanship and accuracy of any work being carried out Under this contract lies with the contractor, the contractor should ensure that no work is done Without the presence of contractor's representative at the work spot.
- 15) It shall be the responsibility of the contractor to see the workmen do not utilize the Departmental canteen facilities. Contractor has to make his own arrangement to provide Refreshment for the workmen.
- 16) The works contract to be entered into with the successful tenderer will be governed by the BHEL General Conditions of contract in force (as applicable).
- 17) Contractor's materials such as tools, testing equipments etc., shall have to be brought inside factory With proper documents /voucher and make necessary entry in the security gate. They should maintain Proper record for tools equipments, materials etc. brought inside the factory complex.
- 18) The contractor should extend fullest co-operation with the third party agencies engaged, if any by BHEL to adhere the statutory regulations.
- 19) The contractor should extend fullest co-operation to the other contractors who may be doing Other works in the same areas to enable them to execute their portions of work without any Delay or difficulty.
- 20) **LD CLAUSE:** If the work is not completed within the stipulated delivery date as per the work Order, then 0.5% of the order value will be deducted for each week of delay up to maximum of 15%.
- 21) The contractors who can fully comply to the tender specification, Scope of work will only be Considered.

SERVICE TAX:-

- 1) A copy of Service tax remittance challan for previous quarter should be submitted along with offer if the contractor is claiming service tax.
- 2) If Contractor is exempted from service tax then a declaration that they are within the threshold limit should be submitted along with the offer.

Contractor

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SCHEDULE FOR PRICE BID

NAME OF THE WORK: TESTING & CALIBRATION OF HT / LT PANEL MOUNTED PROTECTION RELAYS
AND MEASURING INSTRUMENTS

Enquiry no: **9251400079**, Dated 27/12/2014. Due date: 20/01/2015, 14.00 Hrs.

Sl. No	Description	Quantity in Nos	Rate	Value
1	Testing & calibration of relays	800		
2	Testing & calibration of Transformer oil BDV kit	2		
3	Testing & calibration of multi-meter	8		
4	Testing & calibration of insulation tester	6		
5	Testing & calibration of earth tester	3		
			TOTAL	

❖ **Taxes if any should be quoted Extra**

- 1) Payment terms: Payment will be made after completion of work on submission of invoice in triplicate duly certified by Engineer In Charge.
- 2) Tax deduction will be made from the every bill at the prevailing rate as per the Government rule and regulation from time to time.
- 3) L1 vendor will be arrived on Cumulative basis for the rate quoted for the above items. Hence the vendors are requested to quote for all the above items and offers of the vendor who has not quoted for all the above items will be rejected.
- 4) Detailed scope of work and other terms and conditions are specified in the Technical Bid of the Tender.
