

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

☎: (0431) 2575263 Fax: (0431) 2576805 e-mail: [gtraj@bheltry.co.in](mailto:gtraj@bheltry.co.in)



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## NOTICE INVITING TENDER

### **Sub: REDUNDANCY BACKUP FOR CDF AND HTF – Reg.**

Ref: Enquiry no: 9251600048/ Dated: 16/11/2016. Due date: 07/12/2016, 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 of ₹ 3,450/-** remitted in cash (as permissible under Income Tax Act)/Electronic Fund Transfer credited in BHEL account before tender opening or Banker's cheque/Pay order/Demand Draft in favour of M/S BHEL Trichy. Tender without EMD 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 ₹ 3,450/-** shall reach the office of the undersigned on or before **07/12/2016, 14.00 Hrs.**

MSE suppliers can avail EMD Waiver benefits only if they submit along with the offer, attested copies of either EM II Certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II Certificate along with attested copy of a CA Certificate (Format Enclosed). Tenders without EMD/MSME proof as detailed above will be summarily rejected.

Sign & Seal of Contractor

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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/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 / CONTRACTS,  
2&4 BUILDING, BHARAT HEAVY ELECTRICALS LIMITED,  
HIGH PRESSURE BOILER PLANT,  
TIRUCHIRAPPALLI - 620014,  
TAMILNADU**

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## **NOTICE INVITING TENDER**

<b>01.</b>	Name of work	<b>REDUNDANCY BACKUP FOR CDF AND HTF</b>
<b>02.</b>	Earnest Money Deposit	<b>₹ 3,450/-</b>
<b>03.</b>	Duration of the contract	<b>3 Months</b> (From the date of commencement of the work)
<b>04.</b>	Last Date for Receipt of Tender	14.00 Hrs on 07/12/2016
<b>05.</b>	Date of Technical Bid Opening	14.30 Hrs on 07/12/2016
<b>05.</b>	Date of Price Bid Opening	Will be intimated to those who are Qualified separately.
<b>07.</b>	Guarantee Period	Not applicable

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

Tender document contains **13** Pages (Technical Bid – **12** Pages, Schedule for price bid – **01** page).

ISSUING OFFICER

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## TECHNICAL BID

**NAME OF THE WORK: REDUNDANCY BACKUP FOR CDF AND HTF – Reg.**

Enquiry no: **ENQUIRY No.9251600048/ Dt: 16/11/2016 DUE On : 07/12/2016 14.00 hrs**

### PRE-QUALIFICATION CRITERIA

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

The BIDDER / VENDOR has to compulsorily meet all the following requirements to get qualified for consideration of the AMC of the battery operated trolleys in HPBP-Trichy. If the vendor does not qualify as per PRE- QUALIFICATION CRITERIA, the technical offer of such BIDDER(s) / VENDOR(s) offer will not be evaluated.

Sl. No	Description	Vendor to confirm
1	The bidder has to compulsorily meet all the following requirements to get qualified for consideration of the technical & commercial offer. If the bidder does not qualify as per PRE - QUALIFICATION CRITERIA, the technical & commercial offer of such bidder (s) will not be evaluated.	
2	1).Bidder has successfully commissioned Allen Bradley PLC/SCADA system in past 3 years. 2).Bidder has to submit at least one Purchase Order /Work Order to prove the point 1. 3).Bidder has to provide the following details regarding the point 2; I.Name & Designation of contact person II.Contact no (landline & mobile) III.Email id of the contact person 4).Bidder has to submit atleast one appreciation/ satisfactory letter for the commissioned PLC/SCADA based system for any make PLC. 5).BHEL will verify the information provided by the Bidder. In case the information provided by bidder is found to be false / incorrect, the offer shall be rejected.	
3	PAN Number (Copy to be Enclosed)	
4	Service tax Registration Number (If applicable) – Certificate copy to be enclosed	

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5	Acceptance for Scope of Work as per the Enquiry	
6	Acceptance for All Terms & Conditions as per the Enquiry	

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## SCOPE OF WORK:

**NAME OF WORK: REDUNDANCY BACKUP FOR CDF AND HTF**

Sl. No	SCOPE OF WORK	UOM	QTY
10	<p>Scope of Work:</p> <p>1. Rectification and restoration of PLC &amp; SCADA software at 5T/hr continuous discharge furnace (CDF) at Bldg.50/Bay2 as per "TDC:M&amp;S:INSTN:01:Rev0".</p> <p>=====</p> <p>2. Existing Allen Bradley PLC-SCADA systems specification:</p> <p>.</p> <p>2.1 Available Hardware Details:</p> <p>1. 1769-L32E compact logix Ethernet processor</p> <p>2. 1769-SDN (Devicenet scanner)</p> <p>3. 1734- ADN (Devicenet adapter)</p> <p>4. 1734-EP24VDC Power conversion module</p> <p>5. 49 point I/O including thermocouple module</p> <p>2.2 Available licensed Software Details:</p> <p>1. PC operating software: Windows 7(32 bit OS)</p> <p>2. PLC Software: RS Logix 5000 [V10.07.00]</p> <p>3. SCADA Software - 1: FTV Studio for FTV Enterprise 2: FT View SE Station 100 Disp [5.00]</p> <p>=====</p>	AU	1

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	<p>3. Technical Delivery Condition [TDC]:M&amp;S:INSTN:01:Rev0</p> <p>1. The PLC's hot redundancy is not working, it shall be restored. Restoration of hot redundancy already developed in the existing PLC and SCADA programs is in vendor scope.</p> <p>2. The function of report generation is not working, it shall be restored. Necessary software installation and making configuration for report generation with RSView Studio factory talk (SCADA) database in vendor scope.</p> <p>3. Cloning the existing systems CDF and HTF hard disks using the ghost backup tools and validating the cloned backup hard disks with the CDF/HTF PC.</p> <p>4. After restoration of the original PLC and SCADA programs, the vendor shall demonstrate and prove out the complete functioning of SCADA system with hot redundancy of PLC in the continuous discharge furnace.</p>		
<p>20</p>	<p>Scope of Work:</p> <p>1. Rectification and restoration of PLC &amp; SCADA software at 3.5T/hr continuous discharge furnace(CDF) at Bldg.50/Bay3 as per "TDC:M&amp;S:INSTN:02:Rev0".</p> <p>=====</p> <p>2. Existing Allen Bradley PLC-SCADA systems specification:</p> <p>2.1 Available Hardware Details:</p> <ol style="list-style-type: none"> <li>1. 1769-L32E compact logix Ethernet processor</li> <li>2. 1769-SDN (Devicenet scanner)</li> <li>3. 1734- ADN (Devicenet adapter)</li> <li>4. 1734-EP24VDC Power conversion module</li> <li>5. 53 point I/O including thermocouple module</li> </ol>	<p>AU</p>	<p>1</p>

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<p>2.2 Available licensed Software Details:</p> <ol style="list-style-type: none"><li>1. PC operating software: Windows 7(32 bit OS)</li><li>2. PLC Software: RS Logix 5000 [V10.07.00]</li><li>3. SCADA Software - 1: FTV Studio for FTV Enterprise 2: FT View SE Station 100 Disp [5.00]</li></ol> <p>===== =====</p> <p>3. Technical Delivery Condition [TDC]:M&amp;S:INSTN:02:Rev0</p> <ol style="list-style-type: none"><li>1. The PLC's hot redundancy is not working, it shall be restored. Restoration of hot redundancy already developed in the existing PLC and SCADA programs is in vendor scope.</li><li>2. Cloning the existing systems CDF and HTF hard disks using the ghost backup tools and validating the cloned backup hard disks with the CDF/HTF PC.</li><li>3. After restoration of the original PLC and SCADA programs, the vendor shall demonstrate and prove out the complete functioning of SCADA system with hot redundancy of PLC in the continuous discharge furnace.</li></ol> <p>===== =====</p> <p>Following points shall be demonstrated with documents after completion of the scope of works mentioned:</p> <ul style="list-style-type: none"><li>.</li><li>1. PLC I/O channel address changes.</li><li>2. Creation and edit function in PLC ladder logic and SCADA system.</li><li>3. Communication b/w the PLC and SCADA system.</li><li>4. Taking the back-up and restore of PLC-SCADA system.</li><li>5. Steps involve in installing the backup in new hard disc (in case hard disc crashed).</li><li>6. Switching over between PLCs for cold redundancy.</li></ul> <p>===== =====</p>		
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	<p>*Note: Any additional software requirement apart from the available software with BHEL (as above mentioned in PLC/SCADA system specification) is not envisaged. Prospective vendor have to confirm this point. Vendor may visit BHEL Trichy to understand and then quote. New software requirement will not be entertained after placing work order. =====</p>		
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## **GENERAL TERMS AND CONDITIONS FOR M&S CONTRACTS**

- 1) The workmen of contractor should be covered under PF/ESI, etc as per labour laws.
  - 2) An additional payment as per circular ref. BHE/HR/W/EW/08.04.2014 is to be paid to the contract workmen as below, over and above the minimum wages prescribed by the government of Tamilnadu:
    - Unskilled - Rs.3200/-
    - Semiskilled - Rs.3700/-
    - Skilled - Rs.4100/-
  - 3) Bonus @ 8.33 % to workmen to be paid.
  - 4) Safety precautions have to be ensured by the Contractor Depending on the work nature. Necessary work permit system and personal protective equipment (PPE) such as electrical resistance rubber gloves, helmet, spectacle goggles, safety shoes, safety belt etc. as applicable to Mechanical works should be adhered while carrying out the work.
  - 5) PPES for appropriate trade job has to be ensured by the contractor at the job site at all times.
  - 6) Attendance register should be maintained if applicable.
  - 7) Period of Contract is **One Year** from the date of commencement of work.
  - 8) EMD /SD shall also be paid to BHEL through e-collect feature offered by SBI.
  - 9) EMD is to be submitted and is to be remitted in cash (as permissible under Income Tax Act)/Electronic Fund Transfer credited in BHEL account before tender opening or Banker's cheque/Pay order/Demand Draft in favour of M/S BHEL Trichy along with offer. Offers without EMD shall be liable for rejection.
  - 10) Security Deposit shall be furnished by the successful vendor to the total contract value before starting the work. The total amount of Security Deposit will be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit. If in case vendor is requesting for SD waiver upon ordering it will be granted only if the vendor is falling under any of the following category for other vendors SD waiver is not applicable.
    - a) Joint Venture or Subsidiary companies of BHEL
    - b) Central/ State PSUs/ Government depts
    - c) Autonomous/ Educational/ Research institutions
    - d) Hiring of expert services
    - e) Repair/ Maintenance of equipments by OEMs/ OESs
    - f) Rental/ Lease/ Hiring of Premises/ Vehicles/ Office equipment etc. where owner's/ contractor's assets are being let out to/ used by BHEL
    - g) Catering, Horticulture, Sanitation and Courier services for contract value upto ₹ 5 lakhs;
- 11) Rate should be quoted as per price bid**
- 12) Taxes if any will be mentioned separately in the offer.
  - 13) The rate that is offered should be comprehensive and no separate charges will be made towards expenses like travel, boarding and lodging.
  - 14) The contractor should quote the validity of the offer.

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- 15) Payment terms : 100% payment will be made after completion of entire work on submission of invoice in triplicate duly certified by Area In – charge.**
- 16) The contractors may visit the area to assess the quantum of work before quoting.
- 17) If two or more vendors offer the same rate, negotiation will be conducted separately.
- 18) The contractor should mention the point to point confirmation.
- 19) Contractor should commit for Terms and Conditions of the enquiry otherwise the offer shall be liable for rejection.
- 20) **TWO PART BID SYSTEM:** Contractor should send their offer for two part bid system as below
- 21) Documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder.

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## TENDERING CONDITIONS:

- a. The Bidders shall submit the offer in TWO PART BID SYSTEM (Part -I & II) along with EMD as indicated below which shall be sealed in ONE OUTER ENVELOPE.
- b. Envelope I- This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "Part I - Technical and commercial bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder. Envelope I should contain sealed EMD cover indicating the enquiry detail.
- c. Envelope II - This sealed envelope should contain price details. This envelope should be clearly marked as - "Part -II Price bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder.
- d. Envelope III - This sealed envelope should contain requisite **EMD**. This envelope should be clearly marked as - "EMD COVER", indicating Enquiry No., Due Date and Address & Reference of the Bidder.
- e. All the three envelopes shall be put in one cover, duly sealed, super scribing as offer for Enquiry No., and due date of opening, Name of the work and the address and reference of the Bidder.
- f. The offer should reach this office on or before the due date by 14.00 Hrs. (IST). Late offers will not be considered.
- g. Tender should not be addressed to any Individual's name but only by designation to:

THE SENIOR MANAGER  
MAINTENANCE & SERVICES / CONTRACTS,  
2&4 BUILDING,  
BHARAT HEAVY ELECTRICALS LIMITED,  
HIGH PRESSURE BOILER PLANT,  
TIRUCHIRAPALLI - 620 014.  
TAMIL NADU, INDIA.

- h. Tenders should be free from CORRECTION AND ERASURES, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.
- i. Offers should be in ENGLISH and accompanied by detailed Point to point confirmation of the scope of work.

## OPENING OF TENDERS:

- a) The Part I - Technical & un-priced commercial bid alone would be opened on the Tender opening date(as mentioned in the enquiry) by 14.30Hrs(IST)
- b) The Part II - Price bid of technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the Price bid openingdate.
- c) Clarifications if any required by BHEL for Technical evaluation would be sought from Bidders before opening of Part II - price bid.

## 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.

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## **LD CLAUSE :**

If the contractor fails to complete the work as per terms & conditions of the order within the delivery schedule, 0.5% of the order value will be deducted for each week of delay or part thereof subject to a **maximum of 10% of the total contract value.**

**Individual L1 will be considered for ordering.**

**IMPORTANT NOTE:** IF THE CONTRACTOR PERFORMANCE NOT ABLE TO FULFILL AS PER ENQUIRY REQUIREMENT, THEN THE CONTRACT SHALL BE SHORT CLOSED AT ANY TIME.

## **BHEL fraud prevention policy**

The bidder along with its associate/collaborators/sub-contractors/sub-vendors/ consultants/ service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.

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Sign & Seal of Contractor

## Certificate by Chartered Accountant on Letter Head

This is to certify that M/s. \_\_\_\_\_ (hereinafter referred to as 'company') having its registered office at \_\_\_\_\_ is registered under MSMED Act 2006, (Entrepreneur Memorandum No (Part II)) \_\_\_\_\_ dt. \_\_\_\_\_, Category: (Micro/Small). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial year \_\_\_\_\_ as per MSMED Act 2006 is as follows:

**1. For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No. S.O.1722(E) dated October 5, 2006):

₹ \_\_\_\_\_ Lacs

**2. For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act 2006):

₹ \_\_\_\_\_ Lacs

**(Strike off whichever is not applicable)**

The above investment of ₹ \_\_\_\_\_ Lacs is within permissible limit of ₹ \_\_\_\_\_ Lacs for \_\_\_\_\_ Micro / Small (Strike off which is not applicable) Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro/Small) (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is ..... (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name:

Membership number:

Seal of Chartered Accountant

## SCHEDULE FOR PRICE BID

**Sub: REDUNDANCY BACKUP FOR CDF AND HTF**

Ref: Enquiry no: 9251600048 Dated 16/11/2016. Due date: 07/12/2016, 14.00 Hrs.

### **NAME OF WORK: REDUNDANCY BACKUP FOR CDF AND HTF**

Sl. No	Description	UOM	QTY	Rate	Value
10	Scope of Work: 1. Rectification and restoration of PLC & SCADA software at 5T/hr continuous discharge furnace (CDF) at Bldg.50/Bay 2 as per "TDC:M&S:INSTN:01:Rev0".	AU	1		
20	Scope of Work: 1. Rectification and restoration of PLC & SCADA software at 3.5T/hr continuous discharge furnace(CDF) at Bldg.50/Bay 3 as per "TDC:M&S:INSTN:02:Rev0".	AU	1		

**Note: All other texts are belongs to this price bid as applicable in the scope of work.**

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

- 1) Payment terms: Payment will be made after completion of work on pro rata basis 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) Detailed scope of work and other terms and conditions are specified in the Technical Bid of the Tender.

Sign & Seal of Contractor