

DETAIL	INFORMATION
Contact Person and Address	M.NALLATHAMBI SENIOR MANAGER / CCDP PURCHASE DEPARTMENT/R&D and CR UNIT – HPBP BHEL, TIRUCHY, INDIA PIN : 620 014
Email	mnthambi@bheltry.co.in
Telephone	0091-431-257 7558, 257 7152
Fax	0091-431-2520696, 2520193
Notification (Reference) No.	2821500017 – CR Dt. 20/07/2015
Tender Title	SUPPLY OF DATA ACQUISITION SYSTEM FOR 32 CHANNEL
Tender Type	BUY – Two Part
Brief Description	Supply of Data Acquisition System for 32 Channel as per the qualifying criteria, specification, commercial terms & conditions enclosed
Published in Newspaper	NO
Published On	--
Tender Value in Rs	--
EMD Value - Rs	NIL
Document Cost- Rs	NIL
Date of Issue of Notification -DD/MM/YY	
Date for Closure of Sale of Forms - DD/MM/YY	Not Applicable
Completed Forms to be submitted by - DD/MM/YY	25/08/2015 : 14.00 Hrs IST
Date of Opening for Technical Bids - DD/MM/YY	25/08/2015 : 14.30 Hrs IST

Note:

If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.

All clarification may be sought at least seven days prior to tender due date from the undersigned with due written request.

Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> (or) <http://tenders.gov.in>. You are requested to visit the website regularly for updates.

*The offer should reach this office on or before the due date & we are not responsible for any postal delay.
Late tender will not be considered.*



429-002/A

BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
 HIGH PRESSURE BOILER PLANT
 PURCHASE DEPARTMENT - FOSSIL BOILERS
 THIRUCHIRAPALLI - 620014
 TAMILNADU (INDIA)

2577152

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PHONE : ~~2577300~~
 GRAMS : BHARATELEC
 FAX NO: 2520696
 E-mail: ssraj@bheltry.co.in
 Web:

	Enquiry No	Enquiry Date	Due Date for Quotation
	2821500017 - CR	20.07.2015	25 24 .08.2015
<p>Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. Bid should be submitted in two parts. 1.Techno-commercial bid (Part-I) and 2.Price bid(Part-II) in a separate sealed cover and both covers must be placed in a third cover and sealed. Our Enquiry No., Enq. date & Enq. Due date must be written on all three covers.</p>			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	DATA ACQUISITION SYSTEM FOR 32 CHANNEL as per the enclosed specification	NO	1.000	1.00	15.10.15

General Note:


NOTE :

- 1) Offer will be invited in TWO PART BID only
(Technical bid and Price bid - Two separate covers- "TECHNICAL BID" Cover and "PRICE BID" Cover).
- 2) If regretted make mention on the top of the reply cover as "REGRETTED".
- 3) LD Clause for delivery has to be confirmed without fail. Otherwise we would assume that you have accepted our LD Clause.
- 4) BHEL preferred payment term is "100% direct Payment after 45 days from the date of receipt and acceptance of the material". This payment term acceptance is essential for consideration of your offer. Offer with advance payment or proforma invoice will not be considered.
- 5) Transport and Delivery at BHEL - shall be Vendor's scope.
- 6) Tender details are also hosted in BHEL Web : www.bhel.com.
- 7) No. Revision of prices will be entertained after the tenders are opened.
- 8) Offer validity should be minimum 60 days from the date of opening, otherwise we are not in a position to consider your offer.
- 9) Kindly submit point wise compliance to our commercial Terms & Condition. Otherwise it will presumed that you are accepting BHEL's terms and conditions.

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
 For BHARAT HEAVY ELECTRICALS LIMITED

S. SUBBURAJ
 Senior Manager
 Purchase / R&D and CR
 Bharat Heavy Electricals Limited
 Tiruchirappalli - 620 014.


 MANAGER / PURCHASE
 (FOSSIL BOILERS)
 Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

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2821500017 / 20.07.2015

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10) Test certificate and Guarantee certificate is required.

11) Technical specification format enclosed. Copy of filled and signed technical specification ~~format~~ confirmations to be submitted. Without this offer will not be considered.

12) Qualifying criteria format is enclosed. Copy of filled and signed Qualifying criteria format is to be submitted. Without this offer will not be considered.

Enclosures:

"LD clause has to be confirmed without fail."


**OFFER IS TO BE SENT TO THE
FOLLOWING ADDRESS**

**AGM / CCDP & MM
Purchase / R&D and CR
CCDP, BHEL
TIRUCHIRAPALLI - 620 014
TAMIL NADU, INDIA**

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The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

S. SUBBURAJ
Senior Manager
Purchase / R&D and CR
Bharat Heavy Electricals Limited
Tiruchirappalli - 620 014.


MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

Bharat Heavy Electricals Limited – Tiruchirapalli
COAL RESEARCH CENTRE

Qualifying Criteria For 32-Channel Data Acquisition System

The BIDDER has to compulsorily meet the following requirements to get qualified for considering the technical offer:

S.No.	REQUIREMENTS	VENDOR'S RESPONSE
1	Only those vendors (OEMs/Authorized Distributors), who have supplied and commissioned at least 5 DATA ACQUISITION SYSTEMS in the past 4 years (from the date of opening of Tender) and such equipment is presently working satisfactorily for more than one year after commissioning (from the date of opening of Tender) should quote.	
	The vendor should submit following information where similar equipment has been supplied for qualification of their offer.	
2	Name and postal address of the customer or company where similar equipment is installed.	
3	Name and designation of the contact details of the customer including phone number and email address	
4	Month and Year of commissioning of the equipment.	
5	Along with the Technical offer, the Vendor should submit one Performance certificate from the customer for the satisfactory performance of the equipment supplied to them.	
6	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	
7	DELIVERY - The bidder shall quote the best possible delivery, not exceed 3 months.	
8	The BIDDER/VENDOR to furnish Reference List of Customers, with full address, details of contact person, where DATA ACQUISITION SYSTEM similar to offered have been supplied in the past.	

**Bharat Heavy Electricals Limited – Tiruchirapalli
COAL RESEARCH CENTRE**

Technical Specifications For 32-Channel Data Acquisition System

Ref : BHE: CRC:CLC06

Dt: 17-07-2015

The “Technical Bid” shall have vendor’s responses along with Product Catalogue, Data Sheets in ORIGINAL and complete technical details.

All Technical terms can be here. **NO PRICE DETAIL IS ENTERTAINED HERE.**

Any deviation from the specifications may be brought-out clearly by the supplier in the technical bid

Sl.No	Description	BHEL’s Specification/requirement	Supplier’s Offer, Mention deviations if any
	Item	A portable bench top Analog Data Recorder with 32-Channel	
1.	Application	Acquisition of analog data from field sensors, processing and validation of the raw data from thermocouple, pressure transmitter, mass flow controller and storing the data in storage medium for future use The system should consist of the following items. <ul style="list-style-type: none">• 32 Channel PCI based Data Logger Module• Customized Software for acquiring, Processing, display and Storage.	
2.	PCI Based Data Acquisition Module	<ul style="list-style-type: none">• Number of Channels - 32 (Single Ended) / 16 Differential.• Signal Type - 4 to 20 mA and 0 to 20 mA and 0.1 to 5 V and 0 to 10 V• Resolution - 16 Bits• Acquisition speed - 100 K samples/sec. (min)	

**Bharat Heavy Electricals Limited – Tiruchirapalli
COAL RESEARCH CENTRE**

Technical Specifications For 32-Channel Data Acquisition System

		<ul style="list-style-type: none"> • Connection Block - DIN Rail Mountable Terminal Block • Mounting - Inside the client's PC, PCI Slot • Connection - Flat Cable connecting PCI card and terminal block with suitable end connectors. 	
3.	Memory	64 MB or more (or) provision for USB data storage	
4.	Computer interface	LAN, USB 2.0	
5.	Real-time clock/calendar	Set and read - Year, month, day, hour, minute	
6.	Real Time Clock	RTC with long life battery	
7.	Type of field instruments	<ul style="list-style-type: none"> • type 'K/J/T' thermocouples • type 'B/R/S' thermocouples • mass flow controllers/meter (4-20mA signal) • Pressure transmitter (4-20 mA signal) 	
8.	DAS Software	Customized Software Compatible to Micro Soft Windows 7/8/9/10	
9.	Scope of Supply	PCI based Data Acquisition Module	
		Laying and cable termination on both ends. Cables will be supplied by BHEL and cable specification to be mentioned by the supplier.	
		Development of Application software for data acquisition in VC++ and Windows OS, Display and storing the data. (Procedure will be given by BHEL Trichy)	

**Bharat Heavy Electricals Limited – Tiruchirapalli
COAL RESEARCH CENTRE**

Technical Specifications For 32-Channel Data Acquisition System

		Installation and testing the hardware and software at BHEL premises.	
		The Vendor shall provide the application program with source code in a CD.	
10.	Exclusions	a) Civil works (Trenches OR any) b) Computer and Operating System c) Cables	
11.	Power supply	230 V, 50 Hz supply will be made available at the installation site.	
		Adaptors or accessories required for delivering the required power supply to the unit to be supplied by the vendor.	
12.	Weight and dimensions	To be specified	
13.	Installation	Free installation at BHEL works by the supplier. In case the installation is chargeable, the cost for the same may be clearly indicated in the price bid.	
14.	Inspection	BHEL's inspection is applicable prior to dispatch	
15	Performance prove-out at BHEL	Application software developed will be cleared for dispatch after checking the system in simulation mode at Vendor's works	
		Supplier to demonstrate the performance as per the specification at BHEL's works.	

**Bharat Heavy Electricals Limited – Tiruchirapalli
COAL RESEARCH CENTRE**

Technical Specifications For 32-Channel Data Acquisition System

16	Manuals	Complete set of installation and O&M manuals in English language to be provided	
17	Documents to be furnished to BHEL along with the offer.	<ul style="list-style-type: none">• Scope of supply – 2 signed copies• Catalogs of models quoted• Drawings	
18	Onsite performance guarantee	The supplied items are to be guaranteed for its performance for a minimum period of 1 year from the date of performance acceptance at BHEL works.	



An ISO 9001 Company

Bharat Heavy Electricals Limited
Purchase Dept / R&D and CR
Tiruchirappalli-620014, Tamil Nadu, India

COMMERCIAL TERMS AND CONDITIONS FOR SUBMISSION OF OFFER

1.0 QUOTATIONS

Bidders shall submit the offer in **TWO INNER ENVELOPES** as indicated below which shall be sealed in one outer envelope.

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 II This sealed envelope should contain **price details**. This envelope should be clearly marked "**Part II - Price bid**", indicating Enquiry No., Due Date and Address & Reference of the Bidder.

Both the envelopes (Part I & II) shall be put in one cover, duly sealed, superscribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder.

The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered. We suggest you to send the offer by SPEED POST.

Tender should not be addressed to any Individual's name but only by designation to:

AGM / CCDP & MM
Purchase Department / R&D and CR
BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI - 620 014
TAMIL NADU, INDIA

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.

Offers should be in **ENGLISH** and accompanied by detailed technical literature, catalogue and details of process facility in **ENGLISH**.

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2.0 PART I (TECHNICAL & UNPRICED COMMERCIAL BID)

2.1 Technical

This part shall include / indicate the following:

Offer should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.

2.2 Commercial

This part shall include / indicate the following:

- 2.2.1. Port of shipment / Station of despatch
- 2.2.2. Terms of payment
- 2.2.3. Taxes & duties applicable.
- 2.2.4. Delivery Schedule
- 2.2.5. Offer validity
- 2.2.6. Country of origin
- 2.2.7. A copy of "Un-Priced Part II" i.e., a copy of the Price Bid **without the price details** to be enclosed.
(Incomplete offers shall be liable for rejection).

3.0 PART II (PRICE- BID)

This part should contain the schedule of price particulars and to be co-related to the technical details provided in Part I. Wherever required / possible break up price details are to be furnished. (Bidders shall quote only fixed rate / price only and not subject to any escalation whatsoever during the period of bid validity and execution of purchase order. Any bid with adjustable or price variation clause shall be treated as "non responsive" and liable for rejection).

4.0 OPENING OF TENDERS

The Part I - Technical & commercial bid alone would be opened on the Tender opening date at the pre-fixed time. In presence of responded tenderers / authorised representative, who may like to be present for tender opening.

The Part II - Price bid of Technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the tender opening date. Clarifications if any required by BHEL for Technical evaluation would be sought from Bidders before opening of Part II - price bid.

5.0 GENERAL

5.1. Incomplete offers will not be considered.

5.2. **Terms of Delivery:** Bidders are required to quote their best delivery period. Delivery shall be counted from the date of Letter of Intent.

Bharat Heavy Electricals Limited TIRUCHIRAPPALLI

5.3. Taxes and Duties : All Taxes and Duties if any payable extra over and above the quoted price should be specifically indicated in the un-priced bid along with CST & TIN No etc., failing which the purchaser will not be liable for payment of such Taxes and Duties (the quoted rates shall be considered as "all inclusive").

5.4. Validity of Offer : Offer shall be kept valid for acceptance for a period of 60 days (sixty days) from the date of opening of the price bid.

5.5. Payment terms : Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials. (Any deviation in the above payment term will attract loading as mentioned below.

"Base rate of SBI (as applicable on the date of Techno-commercial bid opening) + 6% will be loaded for the period of relaxation sought by bidders.

Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Stores with Consignee copy attached. In this case Loading will be 3% on the offered value.

5.6. Liquidated damages : It is clearly understood among the parties to the contract the **" Time is the essence of the contract "**. Therefore, the delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional penalty as below

a. Liquidated damages shall be 0.5% of the total order value per week or part there of subject to a maximum of 10% of the total order value.

b. For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part there of subject to a maximum of 10% of the total order value.

c. Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).

5.7. Risk purchase : Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefor. The supplier shall be liable for any loss, which the Purchaser may sustain by reason of such risk purchases.

5.8. Test certificates: The Bidders shall clearly mention in their offer that Test Certificates as called for in the Technical Specification, in the required number of copies will be provided at no extra cost.

5.9. Evaluation of the offers shall be on the basis of "To-Door Cost at BHEL, Trichy (Net Cash outflow to BHEL). BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.

BHARAT HEAVY ELECTRICALS LIMITED

Tiruchirapalli - 620 014

Purchase / R&D and CR

Enquiry No:

date :

COMMERCIAL TERMS CONFIRMATION

SI No	Description	BHEL Requirement	Supplier Confirmation
01	OFFER VALIDITY	60 days from the date of tender opening	YES
02	PRICE QUOTED	FOR Destination, BHEL Stores	YES / NO
03	PACKING & FORWARDING (Inclusive or extra. If extra clearly mention in % or lumpsum amount)	Supplier Option	Included / Extra
		% / Rs
04	EXCISE DUTY or CESS (Inclusive or extra. If extra clearly mention in %)	Supplier Option	Included / Extra
		% / Rs
05	VAT or CST (clearly mention in %)	Supplier Option	VAT %
			CST % (with C form)
			CST % (without C form)
06	FREIGHT & INSURANCE (Inclusive or extra. If extra clearly mention in % or lumpsum amount)	Supplier Option	Included / Extra
		% / Rs
07	DELIVERY SCHEDULE	Supplier Option	
08	PAYMENT TERM	100% direct payment after 45 days from the receipt and acceptance of materials at BHEL, Trichy	Accepted
09	LD CLAUSE	0.5% per week to a maximum of 10%	Accepted
10	GUARANTEE / TEST CERTIFICATE	Supplier Option	
11	MSME CERTIFICATE	To be attached	
12	CONTACT PERSON DETAILS	Name	
		Mobile Number	
		Email id	

Date :

Signature of Supplier with Seal