



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

ENQUIRY	Phone: +91 431 257 7360/7775 Fax : +91 431 252 0031 Email : ajay@bheltry.co.in viren@bheltry.co.in Web : www.bhel.com
NOTICE INVITING TENDER	

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two parts	2631700080	07.11.2017	08.12.2017

You are requested to quote the Enquiry number, date and due date in all your correspondences. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs. on the Date of tender opening.

Item	Description	Qty.
10	"36 Channels Digital Strip Chart Recorder" as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in)	01 No.

Important points to be taken care during submission of offer:

1. Delivery terms shall be FOR BHEL Stores, Trichy-620014.
2. Compliance Form No.:TRY/IND/08 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. Delivery required 2 months from the date of purchase order.
4. Erection and commissioning shall be done at BHEL, Trichy by the supplier.
5. Erection & Commissioning period required 2 Weeks from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.
6. EMD: Not Applicable.
7. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (Refer: MM/CE/GENL001), commercial Terms check list (Compliance Form) and Technical Specification can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender <https://eprocure.gov.in> under Enquiry reference "2631700080".

Tenders should reach us before 14:00 hours on the due date
Tenders will be opened at 14:30 hours on the due date
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

AJAY V. ASALKAR
Sr. MANAGER
MM / Capital Equipment
BHEL, Tiruchirappalli - 620 014.

PART - A
QUALIFYING CRITERIA FOR
36 Channels Digital Strip Chart Recorder

S.No	BHEL Specification	Vendor's Offer
1.0	QUALIFYING CRITERIA	
1.1	Only those vendors (OEMs), who have supplied and commissioned at least ONE number of Digital Strip Chart Recorder (24 channels or above) in the last FIVE years should quote.	
1.2	Vendor has to submit at least one Performance Certificate from their customers, for satisfactory performance of Digital Strip Chart Recorder as indicated in clause 1.1 , and is presently working satisfactorily for a minimum period of one year (as on original date of opening tender). For obtaining the Performance certificate, a suggestive format is provided.	
1.3	BHEL reserves the right to verify the information provided by the vendor. In case the information provided by the vendor is found to be false/ incorrect, The offer shall be rejected.	

2.0	INFORMATION TO BE PROVIDED BY VENDOR	
2.1	Number of Digital Strip Chart Recorder(24 channels or above) supplied and commissioned till date.	
2.2	The BIDDER/VENDOR to furnish Reference List of Customers with contact details	
2.3	BIDDER/VENDOR to furnish the PO details if supplied to any of the BHEL units till date	
2.4	Contact details(phone no & email id) including the Address of Agents / Service Centres in India to be provided	

Suggestive Format of Performance Certificate:

The performance certificate should be produced **on Customer's Letter Head.**

Date:

PERFORMANCE CERTIFICATE

- 1 Equipment Description
- 2 Supplier of the Equipment
- 3 Make and model of the equipment
- 4 Month and Year of commissioning
- 5 No.of Channels:
- 6 Performance of the equipment : Satisfactory / Not satisfactory
(Strike off whichever is not applicable)
- 7 Service after Sales: Satisfactory/Not satisfactory
(Strike off whichever is not applicable)
- 8 Any other remarks:

Signature & Seal of the Authority
Issuing the Performance Certificate

Date:
Name:
Designation:
Email ID:
Office No:

PART-B

36 Channels Digital Strip Chart Recorder

Sl.No	Feature	BHEL Requirement	Vendor offer with details
1.0	Instrument description	Micro processor based Digital Strip chart recorder	
1.1	Input type	Universal input (User selectable) suitable for inputs from Thermocouples, RTD, mA, mV etc.	
2.0	Important Features		
2.1	Scale and unit	Configurable	
2.2	No.of Channels	36 channels	
2.3	Accuracy	0.25 % of FSV or better	
2.4	Scanning rate	100 milli Sec / channel.	
2.5	Mounting	Panel mounting type	
3.0	Display and Chart recorder Features		
3.1	Display	Colour display	
3.2	Printing system	Sharp dot matrix print with multicolor disposable ribbon cartridge. The printed dots should be similar Sharp dot for all channels. The printing system should be an integral part of the recorder.	
3.3	Periodic text print output	User selectable.	
3.4	Sequential print	Channel Number with relevant colour should print at Intervals of 1Hr at 30 mm chart speed. Scale with unit should print at least every 60mm. Vendor to provide details	
3.5	Message print	Pre-configured 20 character message should print at start up time.	
3.6	Configuration and program entry	Through front panel key	
3.7	Calibration	Zero, span adjustment required for display & chart print.	
3.8	Paper transportation	Z-Fold /, 20 Mtr long	
3.9	Chart width	250 mm Calibrated	
3.10	Chart speed	1 to 1500 mm/Hr (Configurable)	
3.11	Illumination	Sufficient illumination must be provided to view trace on chart	
3.12	CJ Compensation	Off ,Internal, External (user selectable)	
3.13	Memory protection	To be provided for Configured data and real time.	
3.14	Broken sensor response	Upscale /Down scale Drive for each channel	
4.0	Communication and other Features		
4.1	Communication interface	Ethernet	
4.2	Protocol	TCP /IP.	
4.3	Software	Suitable software to view and edit recorder Program, and to take prints of the recorder trend chart through PC With XY strip chart background, and in Excel format to be provided.	
4.4	No of user for online viewing	Vendor to specify	
4.5	Pass code protection	To be provided.(Master pass code should be supplied)	

Sl.No	Feature	BHEL Requirement	Vendor offer with details
4.6	Keys	Soft touch type for programming parameters of Input & trace , message, periodic print etc.	
4.7	Termination	Terminal block.	
4.8	Power supply	100 to 240V/50 HZ	
4.9	Amb. temperature	up to 50 Deg.C	
5.0	Test Certificate	Supplier to provide the test certificate for BHEL approval prior to dispatch	
6.0	O & M Manual	Supplier to provide the O & M manual in English along with the equipment-1 Soft copy and 1 hardcopy	
7.0	Installation and training	Supplier to install and demonstrate the features of the equipment at BHEL Trichy works. Hands on training to be provided to BHEL persons during installation	
8.0	Guarantee	12 months from the date of commissioning Or 18 months from the date of dispatch whichever is earlier	