



# BHARAT HEAVY ELECTRICALS LIMITED

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

PHONE :2577645  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail: srchandran@bheltry.co.in  
Web:

429-002/A

	<b>Enquiry No</b>	<b>Enquiry Date</b>	<b>Due Date for Quotation</b>
	2691400139 - 41	02.12.2014	30.12.2014
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	<p>Specifications for IR Thermometer: All these specifications are minimum requirements for the instrument. A hand held portable IR instrument for temperature measurement with data logging and storage facility. Measurement range for Temperature: 0 deg C to 2000 deg C Measurement Accuracy: Maximum deviation of <math>\pm 3\%</math> of reading at highest measurement range. Display resolution: 0.1 deg C till 1000 deg C and 1 deg C &gt;1000 deg C measurements Spectral Resolution: 8<math>\mu</math>m to 14<math>\mu</math>m Distance to Spot (D:S): 50:1 ratio Response Time: = 150ms Emissivity: Adjustable from 0.1 to 1.0 Relative Humidity: Operable at 90% relative humidity Digital Camera: Minimum of 640 x 480 pixels Repeatability: 0.5 deg C till 1000 deg C and <math>\pm 1\%</math> for values greater than 1000 deg C Display: TFT LCD screen with backlit facility. Power: Battery operated with minimum back up time of 4 hours with laser and Display ON. Power Adapter to be provided as standard accessory. In case of in built rechargeable battery option, suitable cables and provisions for charging to be provided. In both the cases, the battery should have a backup time of at least 4 hours of operation. Mounting: Tripod option Standard Accessories: Tripod, Hard Case, Carry Bag, Battery, Battery charger, Instruction Manual (both hard and soft copy), K type thermocouple probe (2 Nos.), Software for data interpretation and analysis, USB storage device not less than 8GB capacity (2 Nos.). Any other item identified as accessory should be included in 2 Nos. by the manufacturer.</p>	NO	1.000	1.00	28.02.15

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.

**D. CHANDRAMOHAN**  
Senior Manager / MM / RM  
Purchase / CP & SP  
BHEL, TIRUCHY - 620 014.

Yours faithfully,  
For **BHARAT HEAVY ELECTRICALS LIMITED**

**MANAGER / PURCHASE**  
(FOSSIL BOILERS)  
Yours faithfully,



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2/3

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Software: Software CD, USB cable for interfacing with the equipment.  
Memory: In built SD Card memory, connectivity to be provided with cable for data transfer to PC  
Laser Power: Less than 1mW  
Operating Temperature: 0 deg C to 50 deg C  
Automatic Power off: Automatic programmable switch off function.  
Data logging: Data logging option to be a default option with the instrument.  
Measurement Modes: The instrument should enable camera, video modes for capturing images in addition to measurement of temperature.  
Calibration: Calibration certificate to be provided for the instrument with validity of one year. The instrument is to be demonstrated in a welding application at WRI, BHEL, Trichy for satisfactory working upon delivery for acceptance. One year onsite replacement warranty for the instrument to be provided.  
IR Thermometer

20

NO

1.000

1.00


28.02.15

Digital Tachometer:  
A multi-function Tachometer combining both contact and non-contact type measurement with measuring range of 0 to 10000 rpm housed in durable, rugged housing with maintenance free operation.  
Measurement Range: The instrument when used in non-contact mode should have a range of 5 to 99999 rpm. If it is used in contact mode, then the range is to be from 0.5 to 19999 rpm.  
Resolution: upto 0.1 rpm for less than 1000 rpm speeds and 1 rpm for speeds above 1000 rpm  
Operating humidity: less than 80% RH  
Memory: Last/ Max./Min value with hold function  
Power: battery operated functionality is to be provided. Spare set of batteries to be provided with instrument. In case of rechargeable batteries, charger is also to be provided with the instrument.  
Display: 5 digits, LCD with back lit option  
Accuracy:  $\pm 0.05\%$  + 1 digit  
Operating Temperature: 0 deg C to 50 deg C.  
Accessories: All the following accessories to be provided as standard  
supply as part of the quote in 2 Nos. each: (i) Carrying Case (ii) Reflecting tape marks (iii) RAM adapter (CONE) (iv) RPM adapter (Funnel)

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(v) Surface speed test wheel (vi) Operation Manual. Any other accessory identified and subjected to wear and tear is to be supplied in addition to the above in 2 numbers each. Calibration certificate to be provided for the instrument. One year warranty for replacement is to be provided.  
Digital Tachometer

### General Note:

#### Tender Conditions:

- 1.,,The instrument should be from a reputed manufacturer. In case of OEM, authorization certificate from OEM should be provided by the vendor.
- 2.,,It is preferred that the vendor has supplied similar equipments/instruments to different customers before this tender.
- 3.,,The vendor is to provide calibration certificate valid for the instrument at least one year from the date of commissioning/installation.
- 4.,,One year onsite replacement warranty for the product is to be provided

PL. SUBMIT YOUR OFFER ON F.O.R - BHEL, TRICHY (TAMILNADU) BASIS AND IN TWO PART (TECHNO-COMMERCIAL BID AND PRICE BID) IN A SEPARATE COVER.

IF THE OFFER IS SUBMITTED IN SIGNLE PART AND THE SAME WILL BE LIABLE FOR REJECTION.

ANNEXURE-III ENCLOSED HEREWITH MUST BE FILLED, SIGNED AND SUBMITTED ALONG WITH YOUR OFFER.

THIS TENDER IS HOSTED IN BHEL WEBSITE VIDE NIT REF. \_\_\_\_\_ DT. \_\_\_\_\_ AND ANY CORRIGENDUM MAY PL BE VIEWED IN THE BHEL WEBSITE (HTTP://WWW.BHEL.COM)

ENCLOSURE: ANNEXURE - III

MSME VENDOR GIDE LINES WILL BE FOLLWDED FOR THIS TENDER


### Enclosures:

"LD clause has to be confirmed without fail."

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