



An ISO 9001
Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirapalli – 620014, Tamil Nadu, India
CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

ENQUIRY		Phone: +91 431 257 7421/7775	
NOTICE INVITING TENDER		Fax :431 257 6826	
		Email : vkarna@bhel.in , kumar.virendra@bhel.in	
		Web : www.bhel.com	
TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two parts	2631900069	26.11.2019	20.12.2019
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.			
Sr. No.	Description	Qty.	(Indigenous Vendors) Matl. will be Delivered to
1	"Ultrasonic Thickness Measuring Gauge" as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site www.bhel.com and https://eprocure.gov.in/epublish/app)	06 Nos.	FOR, BHEL, Stores, High Pressure Boiler Plant, Tiruchirappalli - 620014
2	"Ultrasonic Thickness Measuring Gauge" as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site www.bhel.com and https://eprocure.gov.in/epublish/app)	01 No.	FOR BHEL Stores, Power Plant Piping Unit, Thirumayam 622507, Pudukottai Dist.
IMPORTANT POINTS TO BE TAKEN CARE DURING SUBMISSION OF OFFER: Material shall be delivered to (By indigenous vendors): As stated below. - Sr.No.1 for Qty. 6 Nos. shall be F.O.R BHEL, Stores, High Pressure Boiler Plant, Tiruchirappalli- 620014. - Sr.No.2 for Qty. 1 No. shall be F.O.R BHEL Stores, Power Plant Piping Unit, Thirumayam-622507, Pudukottai Dist. - By foreign vendors: CPT Chennai Airport OR CFR Chennai Seaport. - Delivery required 3 months from the date of purchase order. - Erection and commissioning shall be done at BHEL, Trichy by the supplier. - Erection & Commissioning period required 2 Weeks from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C. - EMD: INR 60,000.00 - Compliance Forms. TRY/IMP/02 & TRY/IND/02A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation. - 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 / GENL /001 - EMD), 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/epublish/app under Enquiry reference "2631900069". Note: this is not an E-tender, hence Vendors are requested to ensure that the offer is reaching physically at our office before 14:00 Hrs. on the date of tender opening.			
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 <i>V. Karunakaran</i> 26/11/19.	

V. KARUNAKARAN
Dy. General Manager
Capital Equipment / MM
BHEL / Tiruchirappalli - 620 014

HAND HELD ULTRASONIC THICKNESS MEASURING GAUGE, Qty. 7 nos.

PART - A

S.No	BHEL Specification	Vendor's Offer
1.0	QUALIFYING CRITERIA	
1.1	Only those vendors (OEMs), who have manufactured, supplied and commissioned at least ONE Hand Held Ultrasonic thickness measuring gauge of QUOTED SERIES , in the last Five years [as on the first date of this tender opening] should quote.	
1.2	Vendor has to submit at least ONE Performance Certificate from their customer, for satisfactory performance of Hand held Ultrasonic thickness measuring gauge specified in clause 1.1 supplied to them and such equipment is working satisfactorily for a minimum period of one year [as on the first date of this tender opening]. For obtaining the Performance certificate, a suggestive format is provided at the end of part-A.	
1.3	BHEL reserves the right to verify the information provided by the Vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	

2.0	INFORMATION TO BE PROVIDED BY VENDOR	
2.1	Vendor shall provide contact details(phone no & email id) including the address of his Agents / Service Centres in India	
2.2	Year of launch of the model quoted against this enquiry	
2.3	Number of "Handheld Ultrasonic Thickness gauges" supplied and commissioned till date in the quoted model (to quote thickness gauges supplied during the last three years only)	
2.4	The BIDDER/VENDOR to furnish Reference List of Customers(max 10 customers) including Contact details(phone no & email id).	



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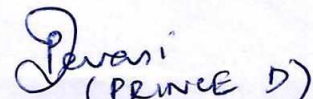
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Suggestive Format of Performance Certificate:

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

PERFORMANCE CERTIFICATE

- 1 Supplier of the equipment
- 2 Make & series of the equipment
- 3 Month & Year of Commissioning
- 4 a. Application for which equipment is used
b. Thickness range measured
- 5 Performance of the equipment Satisfactory / Not Satisfactory
(Strike off whichever is not applicable)
- 6 After sales service Satisfactory / Not Satisfactory
(Strike off whichever is not applicable)
- 7 Any Other remarks

Performance certificate issued date:

Signature & Seal of the Authority
Issuing the Performance Certificate

Contact details of issuing authority

Name & Designation:

Office No/ Mobile no:

Email ID:



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HAND HELD ULTRASONIC THICKNESS MEASURING GAUGE, Qty. 7 nos.

PART B - TECHNICAL SPECIFICATION

SL. NO	Description	BHEL REQUIREMENT	Vendor's offer with technical details
1.0 Purpose			
1.1	Purpose	Thickness measuring gauge is used to measure metal wall thickness of flat and cylindrical jobs like Tubes, Pipes etc and also flat plates of Boiler Pressure parts.at various locations in BHEL works	
1.2	Job details	Material: Ferritic steels, Martensitic steels, stainless steels etc Surface type: Painted/non painted as well as rough surface (shot blasted condition), & polished surface Tanks & Boilers rough surface (shot blasted)	
2.0 Principle of operation			
2.1	Basic Principle of operation	Ultrasonic Method.	
3.0 Machine Configuration			
3.1	Weight	Hand held, less than 600 gms	
3.2	Power Source	Battery should be rechargeable. One complete recharge should give minimum 8 Hrs of operation.	
3.3	Battery type and quantity	Vendor to Specify	
3.4	Measuring Range	1mm to 500 mm or higher to measure on flat plates and on higher outer diameter cylindrical jobs 3mm to 20mm for curved surfaces of Outer diameter 10mm to 120mm	
3.5	Thickness measurement	Equipment should be capable of measuring Metal thickness ignoring its coating thickness by the offered probe. Vendor to confirm and to provide the details of the technology used.	
3.6	Probes	Probes with integral cable capable of measuring thickness of the jobs mentioned above Connection of cable to main unit and connector pin should be robust. Vendor to confirm and provide the details of the probe-Head diameter, thickness range etc. Bidder to provide details of couplant being provided and sources of supply. Bidder to specify whether the offered probe shall be suitable for other couplants.	
3.7	Resolution	0.01mm or better	
3.8	Units of display	Interchangeable mm/Inch	
3.9	Data logger and memory	Capable to store readings / waveforms. Minimum 100000 thickness gauge readings storage capacity to be provided	
3.10	Scanning modes to be provided	- A scan mode (Wave form) - B scan mode Bidder to Confirm & provide details.	
3.11	Statistics of data	To display Min/ Max values etc	
3.12	Calibration	Vendor to specify and demonstrate mode of calibration at the time of commissioning.	
3.13	Operating temperature	0 to 50 Deg C	
4.0 User Interface			

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SL. NO	Description	BHEL REQUIREMENT	Vendor's offer with technical details
4.1	Display	LED or LCD. Backlight for use in poor lighting conditions. Backlight is selectable on/off/auto. Vendor to provide details	
4.2	Keypad	Keypad provided must be water proof, resistance to oil/grease, dust etc. Instrument Sealing should be IP 54 or superior. Vendor to Confirm and provide details.	
4.3	Interface	Communication from the equipment to PC to be provided via USB with required cables and software	
5.0	Calibration Block	Vendor has to provide a suitable range of stepped calibration block with calibration certificate for each instrument. Supplier to provide details.	
6.0 Accessories			
6.1	Vendor to provide the list of probes and catalogues/tech spec having probe range, dia, frequency etc compatible to the offered equipment.		
6.2	List of other accessories to be provided along with offer	The description, part number and specification of the following to be provided in the technical offer without price details. - Battery Charger (operating at single phase 230 V AC) - Removable Protective casing to the equipment and Carrying case for whole unit - Couplant - Other accessories recommended by the vendor The same list shall be quoted in the commercial offer with price break up in a sealed cover.	
7.0 Spares:			
7.1	List of essential spares	Vendor to provide the list of recommended spares if any	
8.0	Operating manual	Operators Manual (Hard copy as well as CD) 2 nos	
8.1	Service manual	One Hard copy and one soft copy per instrument to be provided	
9.0	Test certificate	The total assembly of equipment shall be tested for its performance by the supplier at supplier's work prior to dispatch of the equipment and test certificate shall be given clearly indicating the SI.No of the equipment	
10.0 Installation & Performance prove out			
10.1	Installation & performance prove out	Commissioning & Performance Prove out of the equipment with suitable probes at BHEL works on various jobs offered by BHEL as stated in this specification has to be done by the suppliers representative at BHEL works BHEL Trichy:- 6 nos. BHEL Thirumayam:- 1 no.	
11.0 Guarantee			
11.1	Guarantee	Minimum 12 months from the date of commissioning.	


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