



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 7421/7833 Fax :431 257 6826 Email : vkarna@bhel.in : vijayak@bhel.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	2622000009	08.06.2020	29.06.2020

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.

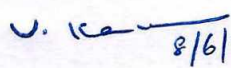
Item	Description	Qty.	(Indigenous Vendors) Matl. Will be Delivered to
10	Procurement of Handheld Ultrasonic Thickness Measuring Gauge as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site www.bhel.com and https://eprocure.gov.in)	4 Nos.	FOR, BHEL, Stores, High Pressure Boiler Plant, Trichirappalli - 620014

Important points to be taken care during submission of offer

1. Material shall be delivered to (By indigenous vendors): As stated above.
2. By foreign vendors: CFR - Chennai Seaport / Airport
3. Delivery required 2 Months (Including PDI) from the date purchase order.
4. Erection & Commissioning period required 1 Week from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.
5. EMD for this Tender will be (INR): 40,000.00.
6. Compliance Forms. ATP TRY/IMP/03 & ATP TRY/IMP/03A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
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 / GENL /001 – EMD) including bank guarantee formats and list of consortium banks & commercial Terms check list can be downloaded from BHEL web site <http://www.bhel.com> or from Central Public Procurement Portal website <https://eprocure.gov.in> under Enquiry reference "2622000009".

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  8/6/2020 V. KARUNAKARAN Dy. General Manager Capital Equipment / MM BHEL / Tiruchirappalli - 620 014
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HANDHELD ULTRASONIC THICKNESS MEASURING GAUGE, Qty. 4 nos.

PART A

S. No.	BHEL Requirement	Bidder's offer
1.0	QUALIFYING CRITERIA	
1.1	Only those Bidder / OEM who have manufactured, supplied and commissioned at least 2 nos. of HANDHELD ULTRASONIC THICKNESS MEASURING GAUGE in the last 5 years (as on the date of opening of this tender) are eligible to quote.	
1.2	Bidder has to submit at least ONE Performance Certificate from their customer (end user), for satisfactory performance of HANDHELD ULTRASONIC THICKNESS MEASURING GAUGE OF QUOTED SERIES meeting the following conditions: a) The Equipment must have been supplied within the last five years as on the first date of tender opening. b) The Equipment must have performed satisfactorily for at least one year during this period. For obtaining the Performance certificate, a suggestive format is provided at the end of part-A.	
1.3	PO document for the above mentioned supplied equipment to be enclosed	
1.4	BHEL reserves the right to verify the information provided by the Bidder. In case the information provided is found to be false/ incorrect, the offer is liable for rejection.	
2.0	INFORMATION TO BE PROVIDED BY BIDDER	
2.1	Bidder shall provide contact details (phone no & email id) including the address of his Agents / Service Centres in India	
2.2	Hand held Ultrasonic thickness gauge supplied to other BHEL units if any	
2.3	The BIDDER to furnish Reference List of Customers (max 10 customers) including Contact details (phone no & email id).	
3.0	The BIDDER to note:	
3.1	The BIDDER shall submit the offer in Two Parts – 1. Technical [with PART A & PART B] & 2. Commercial and Price Bid.	

S. No.	BHEL Requirement	Bidder's offer
3.2	The Bidder's offer against each clause in PART A & B of the offer should be filled by the BIDDER compulsorily with complete details.	
3.3	The BIDDER shall assure a continuous support for Spares and Service for Ten Years, from the date of commissioning of the equipment at BHEL Works.	
3.4	The Technical Offer shall be supported by Product Catalogue and Data Sheets in original and complete technical details / literature on the quoted model of equipment.	
3.5	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation.	

Suggestive Format of Performance Certificate:

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

PERFORMANCE CERTIFICATE

- | | | |
|---|--|---------------------------------|
| 1 | Make & Series of the equipment | |
| 2 | Month & Year of Commissioning | |
| 3 | Application for which the equipment is used | |
| 4 | Thickness Range measured | |
| 5 | Performance of the equipment
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 6 | Service support after sales
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 7 | Any Other remarks | |
| 8 | This performance certificate was issued on: (DD/MM/YYYY) | |

Authority

Signature & Seal of the

Issuing the Performance Certificate

Contact details of issuing authority

Name & Designation:

Office No/ Mobile no:

Email ID:

HANDHELD ULTRASONIC THICKNESS MEASURING GAUGE, Qty. 4 nos.

PART B - Technical Specification

SL. NO	Description	BHEL REQUIREMENT	Bidder's offer with technical details
1.0	Purpose	Thickness measuring gauge is required to measure metal wall thickness of flat and cylindrical jobs like Tubes, Pipes etc and also flat plates of Boiler Pressure parts and at various locations in Steam generator vessel.	
1.1	Job details	Material: Carbon steel, Alloy steel, Ferritic steels, Martensitic steels, stainless steels etc Surface type: Painted/non painted as well as rough surface (shot blasted condition) & polished surface . Shells, Pipes, Tube, Dish end, Nozzles and Plates.	
2.0	Machine specification		
2.1	Basic Principle of operation	Ultrasonic Method.	
2.2	Standard	Must be compliant to EN15317 (OR) ASTM E797 (OR) Equivalent standard. Vendor to specify	
2.3	Weight	Hand held, less than 600 gms	
2.4	Power Source	Battery should be rechargeable. One complete recharge should give minimum 8 Hrs of operation.	
2.5	Battery type and quantity	Bidder to Specify.	
2.6	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. 16 to 100 mm for Shells of Outer diameter up to 3.5 m and thickness up to 100 mm. Bidder to quote for suitable probes.	

SL. NO	Description	BHEL REQUIREMENT	Bidder's offer with technical details
2.7	Metal Thickness measurement	Equipment should be capable of measuring Metal thickness ignoring its coating thickness by the offered probe. Bidder to confirm and to provide the details of the technology used.	
2.8	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. Bidder to confirm and provide the details of the probe-Head diameter, thickness range, frequency 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.	
2.9	Resolution	0.01 mm or better.	
2.10	Units of display	Interchangeable mm/Inch. Numeric value of the thickness to be displayed on the screen	
2.11	Data logger and memory	Capable to store readings / waveforms. Minimum 100000 thickness gauge readings storage capacity to be provided.	
2.12	Scanning modes to be provided	• A scan mode (Wave form) • B scan mode Bidder to Confirm & provide details.	
2.13	Statistics of data	To display Min/ Max values etc	
2.14	Calibration	Bidder to specify and demonstrate mode of calibration at the time of commissioning.	
2.15	IP Protection	Sealing or Casing shall be of rating IP 54 or better. Bidder to confirm.	
2.16	Operating temperature	0 to 50 Deg C.	
3.0	User Interface		
3.1	Display	LED or LCD. Backlight for use in poor lighting conditions. Backlight is selectable on/off/auto. Bidder to provide details.	

SL. NO	Description	BHEL REQUIREMENT	Bidder's offer with technical details
3.2	Keypad	Keypad provided must be water proof, resistance to oil/grease, dust etc. Instrument Sealing should be IP 54 or superior. Bidder to Confirm and provide details.	
3.3	Interface	Communication from the equipment to PC to be provided via USB with required cables and software.	
4.0	Calibration Block	Bidder has to provide a suitable range of stepped calibration block with calibration certificate for each instrument. Supplier to provide details.	
5.0	Accessories		
5.1	Bidder to provide the list of probes and catalogues/tech spec having probe range, diameter, frequency etc. compatible to the offered equipment. The unit price of each probe shall be quoted separately by the bidder. Ordering of additional quantity of probes (if required) will be in the discretion of BHEL.		
5.2	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 - 500mg per set. • Other accessories recommended by the bidder. The same list shall be quoted in the commercial offer with price break up in a sealed cover.	
6.0	List of essential spares	Bidder to provide the list of recommended spares if any	
7.0	Operating & service manual	One Hard copy and one soft copy per instrument to be provided	
8.0	Test certificate – prior to despatch	The total assembly of equipment shall be tested for its performance by the supplier at supplier's work prior to dispatch of the equipment	

SL. NO	Description	BHEL REQUIREMENT	Bidder's offer with technical details
		and test certificate shall be given clearly indicating the Sl.No of the equipment	
9.0	Demonstration at BHEL Trichy	The bidder must demonstrate the equipment along with the offered probes at BHEL Trichy if requested by BHEL within 20 days of request to ensure the equipment suitability for the jobs specified.	
10.0	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 supplier's representative at BHEL works	
11.0	Performance Guarantee	Minimum 12 months from the date of commissioning or 18 months from dispatch whichever is earlier	