



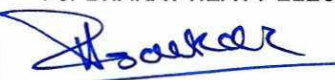
An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

ENQUIRY		Phone: +91 431 257 7360/7775	
NOTICE INVITING TENDER		Fax : +91 431 252 0031	
		Email : ajay@bheltry.co.in , viren@bheltry.co.in	
		Web : www.bhel.com	
TWO PART BID Tender to be submitted in two parts	Enquiry Number: 2631700079	Enquiry Date: 07.11.2017	Due date for submission of quotation: 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.	(Indigenous Vendors) Matl. Will be Delivered to
10	"Hand-Held Ultrasonic Thickness Measuring Gauge" as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in)	04 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 3 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 3 Weeks from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C. 6. EMD: Not Applicable. 7. Compliance Forms. TRY/IMP/04 & TRY/IND/04A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation. 8. 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 "2631700079". 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  AJAY V. ASALKAR Sr. MANAGER MM / Capital Equipment BHEL, Tiruchirappalli - 620 014.	

PART - A
QUALIFYING CRITERIA FOR
HAND HELD ULTRASONIC THICKNESS MEASURING GAUGE

S.No	BHEL Specification	Vendor's Offer
1.0	QUALIFYING CRITERIA	
1.1	The BIDDER / VENDOR (OEM) shall have atleast THREE Years of Experience in the Design, Manufacture & Supply of "HAND HELD THICKNESS MEASURING GAUGE". Vendor must indicate the actual no. of years of experience in the field	
1.2	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 date of this tender opening(first date)] should quote.	
1.3	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 1.2 supplied to them and such equipment is working satisfactorily for a minimum period of one year [as on date of this tender opening(first date)]. For obtaining the Performance certificate, a suggestive format is provided at the end of part-A.	
1.4	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).	

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
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 6 | After sales service
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 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:

PART-B**TECHNICAL SPECIFICATION FOR HAND HELD ULTRASONIC THICKNESS MEASURING GAUGE****BRIEF DESCRIPTION:**

Thickness measuring gauge is used to measure wall thickness of cylindrical jobs like Tubes, Pipes etc and also flat plates of Boiler Pressure parts.

TECHNICAL SPECIFICATION

SL. NO	Description	BHEL REQUIREMENT	Vendor offer
1.0 Purpose			
1.1	Purpose	Thickness measurement of metals at various locations in BHEL Trichy	
1.2	Jobs to be analyzed	(1) Pipes(Outer Dia. 30 to 2500mm), Tubes (Outer Dia. 10 to 30 mm), Plates (Thickness 1mm to 500mm) etc (2) Thickness of strained portions of: Bend Pipes and tubes (Outer Dia. 28.8mm to 114mm; thickness 4mm to 20mm and bend radius R100 to R230, Bend angles 45° to 90°) (3) Material grades: - Carbon steels (Viz. SA106GrC, SA350GrLF2, SA333Gr6 etc) - Low alloy steels (Viz. 16Mo3, 20MnMoNi55 etc) - High Alloy steels (Incoly 800, Stainless steels, 34CrNiMo6 etc.). - Titanium based materials.	
2.0 Principle of operation			
2.1	Basic Principle of operation	Ultrasonic	
3.0 Machine Configuration			
3.1	Weight	Hand held, less than 500 gms.	
3.2	Power Source	The equipment shall work with Alkaline/Ni MH and Rechargeable battery pack. 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 dia cylindrical jobs 3mm to 20mm for curved surfaces of Outer dia 10mm to 120mm Vendor to confirm	
3.5	Probes	Vendor to quote the probes meeting the above requirement. The probes offered should be such that they can cover the range of outer dia 10mm to 2500mm. Vendor to confirm and provide the details of the probe- Head dia, thickness range etc	
3.6	Resolution	0.01mm or better	
3.7	Units of display	Interchangeable mm/Inch	
3.8	Data logger and memory	Capable to store readings / waveforms. Minimum 100000 thickness gauge readings storage capacity to be provided	
3.9	Metal 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.	
3.10	Additional Scanning modes to be provided	- A scan mode(Wave form) - B scan mode	
3.11	Statistics of data	To display Min/ Max values etc	
4.0 User Interface			
4.1	Display	Digital colour display	
4.2	Keypad	Keypad provided must be water proof, resistance to oil/grease etc	
4.3	Interface	Communication from the equipment to PC to be provided via USB with required cables	
5.0	Calibration Block	Vendor has to provide a suitable range of stepped calibration block for each instrument. Supplier to provide details.	
6.0 Accessories			
6.1	Probes	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 accessories to be provided along with offer	Accessories like battery charger, couplant, Protective cover, Carrying case, etc with description, part number and specification to be provided in the technical offer without price details. 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	Service manual	One Hard copy and one soft copy per instrument to be provided	
9.0	Demonstration at BHEL Trichy	The supplier must demonstrate the equipment along with the offered probes at BHEL Trichy if requested by BHEL with in 20 days of request to ensure the equipment suitability for the jobs specified.	
10.0	Pre dispatch Inspection	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 has to be done at BHEL,Trichy by the supplier	
11.0 Guarantee			
11.1	Guarantee	12 months from the date of commissioning	