



Bharat Heavy Electricals Limited
Boiler Auxiliaries Plant
Ranipet - 632406, Tamilnadu (INDIA)

Enquiry No. 2790572E

Date: 25.07.2019

Specification cum Compliance Certificate for Ultrasonic Thickness Measuring Gauge (Qty: 2 Nos.)

Notes:-

1. The 'MAKE/ ORDER CODE Offered', 'OFFERED QTY' Columns and where applicable the 'Deviations' & 'Remarks' Column of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete, ambiguous or unsustainable information against any of the clauses of the specifications / requirements shall be treated as non-compliance.

2. The offer and all documents enclosed with offer should be in English language only.

Name & Address of the Supplier:

Tele. No. :

Fax No. :

E-mail :

Scope: Design, Supply, Installation & Commissioning of 2 Nos. of Ultrasonic Thickness Measuring Gauge complying with the following specification.

SL. NO.	DESCRIPTION: BHEL REQUIREMENT	BIDDER'S RESPONSE
1.0	PRE-QUALIFICATION CRITERIA :	
1.1	Only those bidders who have supplied atleast 1 No. of Ultrasonic Thickness Measuring Gauge in India of similar OR higher capacity OR offered model in last 5 Years (On the date of opening of tender) are eligible to quote. (Reference PO/ Proof must be submitted alongwith technical bid)	
1.2	Along with the technical offer the following information should be submitted by the vendor about the companies where similar Equipment has been supplied. a) Name of the customer / company where installed. b) Complete postal address Phone, FAX no. and email address of the contact person of the customer. c) Month & Year of supply d) Parameter of the equipment(s) supplied and application for which the machine is supplied.	
1.3	Authorization certificate: Only the original equipment manufacturer or their authorized Agents / distributors / dealers are eligible to quote. Along with the offer valid authorization certificate from the original equipment manufacturer should be submitted if the offer is submitted by an Agent / distributor / dealers.	
1.4	The Technical Offer shall be supported by Product Catalogue and Data Sheets and complete technical details / literature on the quoted models of the item/ equipment.	
2.0	TECHNICAL DETAILS:	
2.1	Description: 2 Nos. of Ultrasonic Thickness Measuring Gauge including 3 Sets of probes & cables and additional 3 Sets of probes & cables as spares with each UT measuring gauge.	Bidder to confirm.
2.2	Make :	Bidder to specify.
2.3	Model :	Bidder to specify.
2.4	Thickness Range	0.1mm to 50mm (for Titanium alloy: Ti6Al4V)
2.5	Resolution	0.001mm
2.6	Accuracy	+/- 0.01mm
2.7	Display	Color LCD / TFT
2.8	Materials	Ferrous and Non-ferrous
2.9	Weight / Size	Hand Held
2.10	Connectivity	USB / RS232
2.11	Power supply	AC/DC adapter and chargeable batteries

2.12	Data logger	Must store at least 5000 readings and transfer to MS office.	Bidder to confirm.
2.13	Features required	To perform the desired calibration, measuring, analysis and transfer the data to PC.	Bidder to confirm.
2.14	Software	Necessary high resolution software for analysis, data transfer shall be included.	Bidder to confirm.
2.15	Accessories with each UT Measuring Gauge	Battery charger for each UT measuring gauge	Bidder to confirm.
		Probes - 3 Sets as per below to measure full range a) 0.1 mm to 2.0 mm b) 2.0 mm to 10.0 mm c) 10.0 mm to 25.0 mm	Bidder to confirm.
		Cables for USB and RS232 (for each probes)	
2.16	Spares with each UT Measuring Gauge	Probes - 3 Sets as per below to measure full range a) 0.1 mm to 2.0 mm b) 2.0 mm to 10.0 mm c) 10.0 mm to 25.0 mm	Bidder to confirm.
		Cables for USB and RS232 (for each probes)	
2.17	Measurement Temperature	-10 degree to +50degree	Bidder to confirm.
2.18	V-Path correction	Custom V-path compensation curve should be available for customized dual transducer	Bidder to confirm.
2.19	Reliability of machine	a) IP54 Rating	Bidder to confirm.
		b) EXPLOSIVE ATMOSPHERES: MIL-STD-E,METHOD 511.4,PROCEDURE I	Bidder to confirm.
		c) SHOCK TESTED: MIL-STD-810F,SECTION 516.5, PROCEDURE I	Bidder to confirm.
		d) VIBRATION TESTED: MIL-STD-810F,SECTION 514.5, PROCEDURE I	Bidder to confirm.
		e) DROP TESTED: MIL-STD-810F,SECTION 516.5, PROCEDURE IV	Bidder to confirm.
2.20	Internal data logging systems	a) Equipment shall identify, stored, recall, clear and transmit thickness readings, waveform images, gauge setup information in the gauge itself for further analysis, the stored value shall be transferred to PC through the standard RS-232 or USB port.	Bidder to confirm.
		b) 32Character file name plus 20 character alphanumeric location code with 4 comments per location.	Bidder to confirm.
		c) Nine standard or custom application specific file structure	Bidder to confirm.
		d) On gauge reporting of summary with statistics, in/ Max with locations, file compensation of current and previous readings	Bidder to confirm.
2.21	Total weight of the equipment :		Bidder to specify.
3.0	INSTALLATION & COMMISSIONING		
3.1	Installation & Commissioning of all supplied equipments/ machines to be included in bidder's scope of supply. Installation, Commissioning and Performance prove out of the offered equipment at BHEL works, by the supplier's representative. Transport, Boarding & Lodging charges shall be taken care by the vendor.		Bidder to confirm.
3.2	Charges, Duration, Terms & Conditions for Installation & Commissioning should be furnished in detail separately by vendor along with offer.		Bidder to confirm.
3.3	Bidder to submit all relevant catalogue, General Arrangement Drawing and Electrical Circuit Drawing alongwith the offer.		Bidder to confirm.
3.4	O&M Manuals: 3 Sets (Hard Copy) of Operation & Maintenance manuals shall be supplied along with each item/ equipment/ machine.		Bidder to confirm.



Item Annexure for Enquiry no 2790572E/25.07.2019

Sl no	Material Code	Item Description	Quantity (No)	Quoted/ Not Quoted
1	IM8297840000	Supply of Ultrasonic Thickness Gauge as per Technical Specification	2	
2		Charges for Erection & Commissioning (Assembly and Demonstration) of Ultrasonic Thickness Gauge	2	

Sl no 01 to 02 will be procured as a set. Summation cost of all above sl nos. will be deciding factor for L1 (sl no. 01 to sl no. 02).

Signature and Office Seal of Vendor



Price Bid Format for Enquiry no 2790572E/25.07.2019

Sl no	Material Code	Item Description	Quantity (No)	<u>Unit Price in INR</u>
1	IM8297840000	Supply of Ultrasonic Thickness Gauge as per Technical Specification	2	
2		Charges for Erection & Commissioning (Assembly and Demonstration) of Ultrasonic Thickness Gauge	2	
3	GST on sl no. 01 (Supply) in percentage			
4	GST on sl no. 02 (E&C) in percentage			

Sl no 01 to 02 will be procured as a set. Summation cost of all above sl nos. will be deciding factor for L1 (sl no. 01 to sl no. 02).

Signature and Office Seal of Vendor