

ANNEXURE- C to Tender BAP/CAP/2014-15/OT-10



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

Specification cum Compliance Certificate for **ULTRA SONIC THICKNESS MEASUREMENT GAUGE**

Note:-

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.

Scope: Supply of **ULTRA SONIC THICKNESS MEASUREMENT GAUGE FOR 0.25-50MM** complying with the following specification

Sl. No.	SPECIFICATION	BHEL's Requirement	OFFERED	DEVIATION / REMARKS (If any)
1	Make	Vendor to specify		
2	Model	Vendor to specify		
3	Thickness Range	0.25 to 50mm (for TITANIUM ALLOY: Ti6Al4V)		
4	Resolution	0.001mm (lower resolution not acceptable)		
5	Accuracy & Repeatability	+/- 0.01mm		
6	Display	Color LCD		
7	Materials	Ferrous and nonferrous		
8	Weight / Size	Hand held		
9	Connectivity	USB / RS232		
10	Power supply	230V, 50Hz _ AC /DC adppter and chargeable batteries		
11	Data logger	Must store at least 5000 readings and transfer to MS office		
12	Software	To perform the desired calibration, measuring, analysis and transfer the data		
13.1	accessories	Battery charger		
13.2		Probes – 2 sets to measure full range		
13.3		Cables for USB and RS232		

Sl. No.	SPECIFICATION	BHEL's Requirement	OFFERED	DEVIATION / REMARKS (If any)
14	Measurement temperature	-10 degree to +50degree		
15	V-Path correction	Custom V-path compensation curve should be available for customized dual transducer		
16.1	Reliability of machine	1.IP54 / IP 67 RATINGS		
16.2		2.EXPLOSIVE ATMOSPHERES: MIL-STD-E,METHOD 511.4,PROCEDURE I		
16.3		3.SHOCK TESTED: MIL-STD-810F,SECTION 516.5,PROCEDURE I		
16.4		4.VIBRATION TESTED: MIL-STD-810F,SECTION 514.5,PROCEDURE I		
16.5		5.DROP TESTED: MIL-STD-810F,SECTION 516.5,PROCEDURE IV		
17.1	Internal data logger	1.Equipment shall identify ,store ,recall, clear and transmit thickness readings, waveform images, gauge setup information through the standard rs-232 or USB port		
17.2		2.32Character file name plus 20character alphanumeric location code with 4comments per location.		
17.3		3.Nine standard or custom application specific file structure		
17.4		4.On gauge reporting of summary with statistics, in/Max with locations, file compensation of current and previous readings		
18	Catalogue & Drawings:			
	Relevant catalogue copy & drawings to be submitted along with the offer.			
19	Prove Out			
	The equipment prove out at the specified pressure is required for the acceptance of supply. Demo and commissioning at BHEL works is in the scope of vendor.			
20	Performance Guarantee:			
	The Performance of the equipment shall be guaranteed for a minimum period of 12 months from the date of acceptance at BHEL Works.			

Vendor's signature with office seal