

**BHARAT HEAVY ELECTRICAL LIMITED****UNIT'S ADDRESS:****CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL
(FROM PURCHASE DEPTT.)****Enquiry No. :****Due Date :****Supplier Qtn. No.:****Date :****SPECIFICATION PAINT THICKNESS METER****NOTE:-**

1. The "Offered" Column and where applicable, the 'deviations' and '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 Specification/Requirement shall be treated as non compliance.
2. The offer and all document in enclosed with offer should be in English language only.
3. All the supplied accessories Shall supplied from OEM only

NAME & ADDRESS OF THE SUPPLIER :**TELEPHONE NOS.:****FAX NOS.:****E-MAIL ADDRESS :****SCOPE: Supply, erection and commissioning Paint Thickness Meter. Complying with specifications as below:**

SL. NO	DESCRIPTION OF BHEL REQUIREMENT	SPECIFIED/ TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKES	
1.0	<u>PURPOSE</u>					
1.1	Purpose: To measure the non ferrous paint thickness on Ferrous body.	Vendor to confirm				
2.0	<u>SPECIFICATION</u>					
2.1	Display information 2.4" (6cm) QVGA colour TFT display, 320 x 240 pixels, with back light and bright screen & sensor for auto brightness	Vendor confirm				
2.2	Operating temperature -10 to 50°C (14 to 122°F)	Vendor to confirm				
2.3	Accuracy : +/-1-3% or 2.5 micrometer	Vendor to confirm				
2.4	Tap Awake from sleep	Vendor to confirm				
2.5	Data Output : (1) USB to computer (2) bluetooth to computer	Vendor to confirm				
3	On screen statistics:					

3.1	(1) Number of readings; η (2) Mean (average); $\bar{x}$ (3) Standard deviation; σ (4) Highest reading; h_i (5) Lowest reading; l_o (6) Coefficient of variation; COV (7) σ meter index value ² ; EIV (8) Nominal dry film thickness; NDFT (9) Number of readings above high limit (10) Number of readings below low limit;	Vendor to confirm				
4	Multiple calibration methods					
4.1	(1) Factory; resets to the factory calibration (2) 2-point; for smooth and rough surfaces (3) 1-point; zero calibration (4) Zero offset 4; for calibration according to ISO19840	Vendor to confirm				
5	Predefined calibration & measurement methods					
5.1	(1) ISO, SSPC PA2, Swedish, Australian (2) Automatic calibration; for rapid calibration (3) Calibration memory type; gauge (g) or gauge & batch (gb) (4) Calibration memories; 3 user-programmable memories	Vendor to confirm				
6	Storage Memory for Batches & Reading	Vendor to confirm				
6.1	No. of batches : 2,500 No. of reading : 1,50,000.00	Vendor to confirm				
7	Packing List					
7.1	Gauge, calibration foils (integrals only), wrist harness, transit case , protective case , 1 x screen protectors , 2 x AA batteries, operating instructions, USB cable, software	Vendor to confirm				
8	Probe (Paint coating thickness gauge) :					
8.1	(1) Range : 0-1500 micrometer (2) Accuracy : +/- 1-3 % or 2.5 micrometer (2) Ultra scan probe with probe cap	Vendor to confirm				
9	Accessories to be supplied with machine					
9.1	Probe (Paint coating thickness gauge) as per clause 8.1	Vendor to confirm				
10.0	General					
10.1	Make & Model of paint thickness meter & Probe	Vendor to specify				
11.0	INSEPCION					

11.1	Inseption of ...meter at BHEL Bhopal. Complete demonstration of all feature of equipment to the entire satisfaction of BHEL is the sole responsibility of vendor at BHEL Bhopal work.	Vender to confirm				
12.0	GUARANTEE					
12.1	Suppliers Should Guarantee the machine performance 12 months from the date of acceptance of machine and shall provide spares and services during guarantee period to maintain the machine in working condition.	Vender to confirm				
13	DOCUMENTATION					
13.1	Operating manuals of machine - 1 set with each meter	Vender to confirm				
13.2	Test Certificate and calibration certificate	Vender to confirm				
14	PACKING :					
14.1	Sea worthy & rigid packing for all items of complete machine.	Vendor to confirm				
15.0	Scope of Supply: Each machine shall consist of					
15.1	Paint thickness meter	Vendor to confirm				
15.2	Probe (Paint coating thickness gauge)	Vendor to confirm				
16.00	QUALIFYING CONDITIONS :					
16.1	Offer of only those vendors will be considered who have supplied (either OEM or AUTHORIZED dealer of OEM) and installed at least 1 numbers of number of Paint thickness meter enquired size or more in last 5 years and it is working satisfactorily for at least one year after supply the machine. Supporting documents like copy of purchase order / original performance certificate from the customer, is to be submitted along with the former. 1 number meters are supplied can be in same PO of different PO.	Vendor to submit the details				
16.2	i) Name of the company / customer, where Paint thicknes meter of enquired size or more(s) is (are) installed	Vendor to submit the details				
16.3	ii) Complete postal address of the company / customer	Vendor to submit the details				
16.4	iii) Year of supply	Vendor to submit the details				
16.5	iv) Application for which the machine is installed	Vendor to submit the details				

16.6	v) Name and designation of the contact person of the company / customer	Vendor to submit the details				
16.7	VIII) BHEL has right to confirm the performance from the user , where such machine is supplied by either by OEM or its authroized dealer. In case of negative feedback , BHEL has right to Reject the technical bid of Vendor	Vendor to submit the details				