

PURCHASE DEPARTMENT			
NOTICE INVITING TENDER			
ANNEXURE-A			
Enquiry No. 2710157E			
DIGITAL COATING THICKNESS GAUGE , DIGITAL ULTRASONIC THICKNESS GAUGE as per BHEL Specification			
SNo	Name of Item	Specification	Tender Qty in piece
1.0	DIGITAL COATING THICKNESS GAUGE	BHEL Specification as attached	4
2.0	DIGITAL ULTRASONIC THICKNESS GAUGE	BHEL Specification as attached	4
Note:			
1. Quantity Tolerance: NIL			
2. Prices shall be quoted on number/piece basis.			
3. Delivery Terms: F.O.R. DESTINATION (Destination: BHEL Stores, Ranipet). Packing, Forwarding, Freight, Insurance charges, E&C charges and all applicable taxes to be included in quoted price.			
4. Supplier must mention Make and Model Number of quoted item in their quotation.			
5. Annexure-A, BHEL Specification attached should be submitted duly signed and stamped.			
Manager/Purchase			



TECHNICAL SPECIFICATION FOR COATING THICKNESS GAUGE

Sl. No.	Description	BHEL Requirement	Vendor's offer with technical details
1.0	Purpose		
1.1	Purpose	To measure Dry Film Thickness (DFT) on ferrous and Non-ferrous substrate.	
1.2	Jobs to be analyzed for paint coating thickness are	Pipes (Dia. 90 to 1000mm) Tubes (Dia. 40 mm to 80mm) Plates, Fittings, Castings, Forgings, Weldments.	
2.0	Principle of operation		
2.1	Basic principle of operation	Magnetic Induction & Eddy Current method	
3.0	Machine Configuration		
3.1	Weight	Hand held, around 500 grams	
3.2	Power Source	The equipment shall work with rechargeable battery pack. One complete recharge should give minimum 10 Hrs of operation.	
3.3	Battery type and quantity	Vendor to specify	
3.4	Measurement Range	0-1000 micron or more.	
3.5	Accuracy	1+2.5% micron of thickness (upto 100 micron) 2+2.5% micron of thickness (above 100 and upto 400 micron) 3+3.0% micron of thickness (above 400 and upto 1000 micron)	
3.6	Resolution	1 micron	
3.7	Memory	10 readings minimum	
3.8	Ambient Operating Temperature	0-50 Deg. C	



Sl. No.	Description	BHEL Requirement	Vendor's offer with technical details
3.9	Probes	Vendor to specify (suitable for ferrous and Non-ferrous substrate). 1 No./Set probe to be provided with each machine to check the ferrous and non-ferrous substrate.	
4.0	User Interface		
4.1	Display	Digital LED/LCD display	
4.2	Keypad	Keypad with navigation keys to be provided. Must be water proof, resistance to oil/grease.	
5.0	Master foils for calibration		
		Vendor has to provide one certified master foil calibration set (25, 50,100, 250,500,1000 micron) along with instrument.	
5.1	Calibration	Supplier should provide calibration certificate for the instrument and foils from ISO/IEC 17025 accredited laboratory.	
6.0	Accessories		
6.1	List of accessories to be provided along with offer	Vendor has to specify the entire list of accessories like probes, Battery charger, carry case, etc.	
7.0	Spares		
7.1	List of essential spares	Vendor has to provide the list. Essential spares to be quoted separately; moreover, it will not be considered for price bid.	
8.0	Service manual		
		One copy per instrument to be provided	
9.0	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 provided.	
10.0	Erection & Commissioning		
10.1	Erection & commissioning & performance prove out	Commissioning & Prove out has to be done by the supplier at BHEL, Ranipet on various components.	
11.0	Guarantee		
11.1	Guarantee	12 months from the date of commissioning.	



TECHNICAL SPECIFICATION FOR DIGITAL ULTRASONIC THICKNESS GAUGE

Sl. No.	Description	BHEL Requirement	Vendor's offer with technical details
1.0	Purpose		
1.1	Purpose	Thickness measurement Gauge is used to measure metal wall thickness of flat and cylindrical jobs like Tubes, pipes etc at various locations at BHEL works.	
1.2	Job details	Material: Steel and alloy steels. Surface Type: Machined, Painted / Non painted as well as rough surface. Machine shall measure the thickness of metal through paint coatings upto 1 mm or higher.	
2.0	Principle of Operation		
2.1	Basic principle of operation	Ultrasonic Method.	
3.0	Machine Configuration		
3.1	Weight	Hand held, less than 500 gms	
3.2	Battery	AA Type / AAA Type / Rechargeable Type. Vendor to specify.	
3.3	Battery Life	Minimum 10 Hours	
3.4	Measuring Range	1mm – 250mm or more	
3.5	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.	
3.6	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. Vendor to confirm and provide the details of the Probe-Head diameter, thickness range 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. 1 No./ Set Probe to be provided with each equipment.	
3.7	Resolution	0.1 mm or better	
3.8	Accuracy	±0.1 mm	
3.9	Velocity Range	1000-9999 m/s	
3.10	Response Time	Not more than 1 Sec.	



Sl. No.	Description	BHEL Requirement	Vendor's offer with technical details
3.11	Units of Display	Interchangeable mm /Inch	
3.12	Low battery Indication	Required	
3.13	Auto Power off	2-3 minutes after switching on / last reading	
3.14	To hold last reading	Required	
3.15	Calibration	Vendor to specify and demonstrate mode of calibration at the time of commissioning.	
3.16	Operating Temperature	0 to 50 Deg C	
4.0	User Interface		
4.1	Display	LED or LCD or TFT or graphical display. Backlight for use in poor lighting conditions. Backlight is selectable on/off/auto. Vendor to provide details	
4.2	Keypad	Keypad provided must be water proof, resistance to oil/grease, dust etc. Instrument Sealing should be IP 54 or superior. Vendor to Confirm and provide details.	
5.0	Calibration Block	1 to 10mm, 10 stepped Calibration block of Mild Steel. 1 No. calibration block to be provided with each equipment.	
6.0	Accessories		
6.1	Vendor to provide the list of probes and catalogues/tech spec having probe range, dia, frequency etc compatible to the offered equipment. Prices to be indicated along with the offer for required range of thickness.		
6.2	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 Other accessories recommended by the vendor The same list shall be quoted in the commercial offer with price break up.	
7.0	Spares		
7.1	List of essential spares	Vendor to provide the list of recommended spares if any, moreover, it will not be considered for price bid.	
8.0	Operating manual	Operators Manual (Hard copy in English Language as well as CD) 2 nos.	



Sl. No.	Description	BHEL Requirement	Vendor's offer with technical details
8.1	Service manual	One Hard copy and one soft copy per instrument to be provided.	
9.0	Test certificate	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 Sl.No of the equipment.	
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	Guarantee	Minimum 12 months from the date of commissioning.	

***(To be submitted In the company letter head by supplier)**

Subject: Public Procurement (Insertion of Rule 144 xi in the General Financial Rules 2017)

References:

<https://doe.gov.in/sites/default/files/OM%20dated%2023.07.2020.pdf>

<https://doe.gov.in/sites/default/files/Clarification%20to%20order%20public%20Procurement%20N%201%20dated%2023%20July%202020.pdf>

<https://doe.gov.in/sites/default/files/Exclusion%20from%20restrictions%20under%20Rule%20144%20xi%20of%20the%20General%20Financial%20Rules%202017.pdf>

From.

M/s _____

Address: _____

I/we are bidder from _____ (country). We does not belong to any of the below category mentioned.

1. Any of entity/office/workshop of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.
2. Any of subsidiary of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.
3. Any of entity/office/workshop of your organisation/incorporation, controlled in a country sharing land border with India, If yes, provide the full address of all such locations.
4. Any of entity whose beneficial owner is situated in a country sharing land border with India, If yes, provide the full name, address of all such locations.
5. Any Indian Agent available, If so, Provide details of address and contacts.
6. Any employee/directors who is/are citizen of country sharing land border with India, If yes, provide the full name, employee code and address of all such locations.
7. Any of consortium/joint venture of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.

***(To be submitted In the company letter head by supplier)**

Meaning of beneficial owner

- 1) In case of a company or limited liability partnership, beneficial owner is the natural person, who, whether acting alone or together, or through one or more judicial person, has a controlling ownership interest or who exercises control through other means.

Explanation

- a) Controlling ownership interest means ownership of or entitlement to more than twenty-five percent of shares or capital or profits of the company.
 - b) "control" shall include the right to appoint majority of the directors or to control the management rights or shareholder's agreement or voting agreement.
- 2) In case or a partnership firm the beneficial owner is the natural person (s) who whether acting alone or together or through one or more judicial person, has ownership of the entitlement to more than fifteen percent of capital or profits of the partnership.
 - 3) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together or through one or more judicial person, has ownership of the entitlement to more than fifteen percent of the property or capital or [profits of such association or body of individual.
 - 4) Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.
 - 5) In case of a trust, the identification of beneficial owner (s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust and any other natural person exercising the ultimate effective control over the trust through a chain of control of ownership.
 - 6) An agent is a person employed to do any act for another, or to represent another in dealing with third person.

We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India, we hereby declare that we do not belongs to any such country and are eligible to be considered.

In case, any of information is found to be false, even after bid acceptance, immediate termination may happen and action will be taken as per law.

Format is being filled without altering any of the clause mentioned in the given format**

Dated: _____

Authorised Sign and stamp_____

*(To be submitted In the company letter head by supplier)

Declaration of Local Content by Local supplier

Subject: Public Procurement (Preference to Make In India)

References:

Preference to Make in India including counter offering will be as per the Public Procurement (Preference to Make in India), Order 2017 available in the following links <https://dipp.gov.in/public-procurements>

http://dipp.nic.in/sites/default/files/publicProcurement_MakeinIndia_15June2017.pdf

http://dipp.nic.in/sites/default/files/Revised-PPP-MII-Order-2017_28052018.pdf

https://dipp.gov.in/sites/default/files/PPP-MII%20Order%20dt%2029th%20May%2019_0.pdf

<https://dipp.gov.in/sites/default/files/PPP%20MII%20Order%20dated%204th%20June%202020.pdf>

We hereby declare with reference to above subject and references that

M/s ----- (Tick whichever is applicable as below)

"Class-I local supplier" meeting the requirement of minimum local content equal to 50% (fifty percent) or more defined in the above government notification for the goods and services

(or)

"Class-II local Supplier" meeting the requirement of local content 20% to less than 50% (fifty percent) defined in the above government notification for the goods and services

(or)

Non Local supplier (If not belonging to Class-I & Class-II)

Please mention the details against the following:

Enquiry no:----- dated. -----

Type of Supplier (Class-I/Class-II)

Product:-----

Project:.....

Details of location at which local value addition will be made is as follows: _____

We also understand that the false declarations will be in breach of the code of Integrity under rule 175(1)(i)(h) of the General financial rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Authorized Signature M/s-----

(Signature and seal)

Place:.....

Date:.....