



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 4237

Email : spsy@bheltry.co.in

Web : www.bhel.com

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2631700043	28.09.2017	24.10.2017

You are requested to quote the Enquiry number date and due date in all your correspondence. 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	Quantity
10	Coating Thickness Measuring Instrument (10 mm) as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in and https://eprocure.gov.in	1 No.
20	Coating Thickness Measuring Instrument (13 mm) as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in and https://eprocure.gov.in	1 No.

Important points to be taken care during submission of offer

1. Delivery terms shall be FOR BHEL Stores, Trichy for indigenous vendors and CFR Chennai Airport / Seaport for foreign vendors.
2. Compliance Form No: TRY/IND/08 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. Delivery period required is 6 weeks including pre-despatch inspection.
4. Erection and commissioning shall be done at BHEL Trichy by the supplier
5. Time period required for Erection and Commissioning shall be 1 week from the date of intimation by BHEL
6. EMD Not applicable.
7. 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 compliance form and technical specification can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> and <https://eprocure.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "2631700043".

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

S.PARTHASARATHY
MANAGER
CAPITAL EQUIPMENT / MM
BHEL, TRICHY-620014.
Manager / Capital Equipment / MM

PART-A
QUALIFYING CRITERIA FOR
COATING THICKNESS MEASURING INSTRUMENT

S. NO	BHEL SPECIFICATION	VENDOR'S OFFER
1.0	QUALIFYING CRITERIA	
1.1	The BIDDER/VENDOR (OEM) shall have at least three years of Experience in the design, Manufacture & Supply of " COATING THICKNESS MEASURING INSTRUMENT ". Vendor must indicate the actual no. of year of experience the field.	
1.2	Only those vendors (OEMs). Who have manufactured, supplied and commissioned at least ONE no of COATING THICKNESS MEASURING INSTRUMENT , in the last five year [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 COATING THICKNESS MEASURING INSTRUMENT 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 " COATING THICKNESS MEASURING INSTRUMENT " supplied and commissioned till date in the quoted model	
2.4	The BIDDER/VENDOR to furnish Reference list of customer (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. PO reference no and date
3. Make & series of the equipment
4. Month & year of commissioning
5.
 - a. Application for which equipment is used
 - b. Thickness range measured
6. Performance of the equipment
(Strike off whichever is not applicable) Satisfactory/ Not satisfactory
7. After sales service
(Strike off whichever is not applicable) Satisfactory/ Not satisfactory
8. Any other remark

Performance certificate issued date:

Signature & seal of the Authority
Issuing the performance certificate

Part-B
TECHNICAL SPECIFICATION FOR COATING THICKNESS MEASURING INSTRUMENT

BRIEF DESCRIPTION:

Coating thickness measuring instrument is used to measure thickness of Stellite Cladding (Nonferrous metal) deposited on ferrous base metal components

SL. NO	DESCRIPTION	BHEL REQUIREMENT	VENDOR'S OFFER
1.0 Purpose			
1.1	Areas of application in BHEL/Trichy & Equipment Requirements	Coating thickness gauge is used to measure thickness of Stellite cladding (Nonferrous metal) deposited on Ferrous base metal on large curved regions and flat regions	
2.0 Principle of operation			
2.1	Principle of operation	Magnetic Induction principle	
3.0 Machine Configuration			
3.1	Instrument Weight	Less than 500 gms	
3.2	Instrument size (h x w x d)	Bidder to specify	
3.3	Battery type	Vendor to specify the type of batteries used in the equipment. The batteries shall be easily available in the market.	
3.4	Battery life in Hrs	Bidder to specify. Minimum 8 hr back up should be provided	
3.5	Coating to be measured	Nonferrous coating like stellite cladding deposited on Ferrous base material	
3.6	Measurement Range	0 - 10 mm or higher. Vendor to specify the probes suitable to measure this range	
3.7	Operating temperature	10 to 50 deg. C	
3.8	Resolution of equipment	0.1mm or better. Vendor to specify.	
3.9	Memory	10 readings minimum.	
3.10	Units to be displayed	Microns/mm	
3.11	Calibration and Master Foils	1) Calibration films/foils of range around 0.5mm; 1 mm; 2mm; 3.0mm; 5.00mm and 10.00mm shall be supplied. Also Ferrous flat Reference Plate of uniform surface to be provided for keeping the foils on it while calibrating. Total-3 Sets to be supplied along with equipment 2) The instrument shall have calibration facility for 'Zeroing' to the mode of scale selected with Reference plate and shall permit Calibration to nearer size being measured with the above supplied Test Foils. Vendor to explain the calibration procedure to be adopted for the offered instrument	
3.12	Probe	Vendor to offer required probes with description, range etc.	
4.0 USER INTERFACE			
4.1	Interface	Rugged keypad resistant to oil and grease to be provided	
4.2	Display	Digital display of readings to be provided	
4.3	Software	Vendor to preinstall the latest software in equipment	

5.0 ACCESSORIES			
5.1	List of accessories to be provided along with offer	Vendor to specify the list of recommended accessories with details if any	
6.0 Spares:			
6.1	List of spares to be provided along with offer	Vendor to specify the list of recommended spares with details if any	
7.0	Operator manual	Vendor to provide Operator manual- One hard copy and One soft copy along with equipment	
8.0	Packing list	Bidder to specify in detail as a list, the items that will be offered. (Including accessories, spares, transit case etc.)	
9.0 Installation & Prove Out			
9.1	Installation & performance prove out at BHEL	Vendor to install and prove out the equipment performance at BHEL Trichy	
10.0 Training			
10.1	Training on operation & maintenance for BHEL staff at BHEL-Trichy	Vendor to provide training at BHEL Trichy at the time of commissioning	
11	Guarantee	12 months from the date of commissioning OR 18 months from the date of dispatch whichever is earlier	

PART-A
QUALIFYING CRITERIA FOR
COATING THICKNESS MEASURING INSTRUMENT

S. NO	BHEL SPECIFICATION	VENDOR'S OFFER
1.0	QUALIFYING CRITERIA	
1.1	The BIDDER/VENDOR (OEM) shall have at least three years of Experience in the design, Manufacture & Supply of " COATING THICKNESS MEASURING INSTRUMENT ". Vendor must indicate the actual no. of year of experience the field.	
1.2	Only those vendors (OEMs). Who have manufactured, supplied and commissioned at least ONE no of COATING THICKNESS MEASURING INSTRUMENT , in the last five year [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 COATING THICKNESS MEASURING INSTRUMENT 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 " COATING THICKNESS MEASURING INSTRUMENT " supplied and commissioned till date in the quoted model	
2.4	The BIDDER/VENDOR to furnish Reference list of customer (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. PO reference no and date
3. Make & series of the equipment
4. Month & year of commissioning
5. a. Application for which equipment is used
b. Thickness range measured
6. Performance of the equipment Satisfactory/ Not satisfactory
(Strike off whichever is not applicable)
7. After sales service Satisfactory/ Not satisfactory
(Strike off whichever is not applicable)
8. Any other remark

Performance certificate issued date:

Signature & seal of the Authority
Issuing the performance certificate

TECHNICAL SPECIFICATION FOR COATING THICKNESS MEASURING INSTRUMENT

BRIEF DESCRIPTION:

Coating thickness gauge is used to measure thickness of Inconel cladding (Nonferrous metal) deposited on ferrous base metal components

SL. NO	DESCRIPTION	BHEL REQUIREMENT	VENDOR'S OFFER
Purpose			
1.1	Areas of application in BHEL/Trichy & Equipment Requirements	Coating thickness gauge is used to measure thickness of Inconel cladding (Nonferrous metal) deposited on Ferrous base metal on large curved regions and flat regions	
Principle of operation			
2.1	Principle of operation	Magnetic Induction principle	
Machine Configuration			
3.1	Instrument Weight	Less than 500 gms	
3.2	Instrument size (h x w x d)	Bidder to specify	
3.3	Battery type	Vendor to specify the type of batteries used in the equipment. The batteries shall be easily available in the market.	
3.4	Battery life in Hrs	Bidder to specify. Minimum 8 hr back up should be provided	
3.5	Coating to be measured	Nonferrous coating like Inconel cladding deposited on Ferrous base material	
3.6	Measurement Range	0 - 13 mm or higher. Vendor to specify the probes suitable to measure this range	
3.7	Operating temperature	10 to 50 deg C	
3.8	Resolution of equipment	0.1mm or better. Vendor to specify.	
3.9	Memory	10 readings minimum.	
3.10	Units to be displayed	Microns/mm	
3.11	Master Foils	Vendor to offer the master foils for setting / calibration. The master foil set (Or combination of foils) offered should be such that at least one calibration can be done for less than 5mm and another calibration for more than 7mm.	
3.12	Probe	Vendor to offer required probes with description, range etc.	
4.0 USER INTERFACE			
4.1	Interface	Rugged keypad resistant to oil and grease to be provided	
4.2	Display	Digital display of readings to be provided	
4.3	Software	Vendor to preinstall the latest software in equipment	
5.0 ACCESSORIES			
5.1	List of accessories to be provided along with offer	Vendor to specify the list of recommended accessories with details if any	
6.0 Spares:			
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7.0	Operator manual	Vendor to provide Operator manual- One hard copy and One soft copy along with equipment	
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9.1	Installation & performance prove out at BHEL	Vendor to install and prove out the equipment performance at BHEL Trichy	
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