



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY	Phone: +91 431 257 7653 Fax : Email : skaruna@bheltry.co.in spssy@bheltry.co.in kmk@bheltry.co.in Web : www.bhel.com
NOTICE INVITING TENDER	

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2601700029	26.06.2017	18.07.2017

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	(Indigenous Vendors) Matl. will be Delivered to
10	Valve Seat Flatness Testing Machine as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	1.00 No.	FOR, BHEL Stores, High Pressure Boiler Plant, Tiruchirappalli - 620014

Important points to be taken care during submission of offer

1. Material shall be delivered to: Indigenous Vendors: As stated above.
Foreign Vendors: CFR Chennai Seaport / Airport
2. Delivery required 3 Months including PDI from the date of purchase order.
3. Erection & Commissioning period required 2 Weeks from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.
4. Compliance Form Nos.: TRY/IMP/04 & TRY/IND/04A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
5. 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 (refer MM / CE / GENL / 001) including bank guarantee formats and list of consortium banks, commercial terms compliance forms can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under above Enquiry reference.

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
DGM / Capital Equipment / MM

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

SPECIFICATION FOR VALVE SEAT FLATNESS TESTING MACHINE

Part-A

Qualifying Criteria:

S.N.	Pre- Qualification Criteria	Vendor's compliance
1	The BIDDER shall be OEM (or) OEM Authorized dealers.	
2	In case if the BIDDER is an OEM Authorized dealer, then he has to submit a valid certificate/authorization letter from the Authorized Representative of the OEM/ Principal Manufacturer to quote exclusively for this specific tender.	
3	The vendor should also submit following details which are necessary for qualifying their offer.	
3.1	Documentary evidence of previous Purchase Order for any of the optical flatness testing machine that they have supplied in past 10 years. The PO copy should be on the name of the Bidder.	
3.2	Name and postal address of the customer or company where the item has been supplied (Ref. to point 3.1).	
3.3	Name, designation, contact phone number and email address of the contact person of the customer (Ref. to point 3.1).	
3.4	Month & year of supply.	
4	BHEL reserves the right to verify the information provided by the Bidder. In case the information provided by vendor is found to be false/incorrect, the offer shall be rejected.	

SPECIFICATION FOR VALVE SEAT FLATNESS TESTING MACHINE

Part – B: Technical Specification:

Purpose: To measure the flatness of AUSC safety valve components.

Max. Job details: Disc maximum size: 160 mm
Maximum Lapping plate size: 400 x 180 x 70 mm

Optical flat specification:

Sl. No.	Optical flat Specification Requirement																					
01)	Description: Optical Flats as per IS 5440 Type A <u>For plate flatness :</u> Size: Diameter 200mm Thickness: 25mm (min.) <u>For Disc flatness:</u> <table><tr><th>Sno</th><th>ID in mm</th><th>OD in mm</th></tr><tr><td>1</td><td>30</td><td>50</td></tr><tr><td>2</td><td>50</td><td>70</td></tr><tr><td>3</td><td>70</td><td>90</td></tr><tr><td>4</td><td>90</td><td>110</td></tr><tr><td>5</td><td>110</td><td>130</td></tr><tr><td>6</td><td>130</td><td>150</td></tr></table> Grade: i) Reference Grade or Grade I as per IS 5440 - 1 no. ii) Working Grade or Grade II as per IS 5440 - 1 no. Total Qty.: 2 nos.	Sno	ID in mm	OD in mm	1	30	50	2	50	70	3	70	90	4	90	110	5	110	130	6	130	150
Sno	ID in mm	OD in mm																				
1	30	50																				
2	50	70																				
3	70	90																				
4	90	110																				
5	110	130																				
6	130	150																				
02)	Application: Optical Flat, Grade II: To check the flatness of lapped components Optical Flat, Grade I: For the calibration of Grade II Optical Flats																					
03)	Material: The material of optical flats shall be fused quartz or borosilicate glass and it shall be as per IS 5440																					
04)	Calibration Certificate: Calibration Certificate(s) shall be issued for flatness measurements with traceability to National / International standards. Calibration Certificate shall be the latest one which shall be later than the date of ordering.																					
05)	Packing and Supply: Shall be packed safely in wooden case.																					

Monochromatic light specification:

Sl. No.	Monochromatic light Specification Requirement
01)	Description: Monochromatic Light Source with detachable power lead with on/off switch Power Supply Connection: $220 \pm V / 50 \text{ Hz}$ Details: <i>Light Source may be of either Sodium Light or Helium Light sufficiently powerful</i> Application: <i>Monochromatic light source shall provide highly diffused light for testing flatness of flat components with Optical flats</i>
02)	Size: i) It shall be suitable for use with 200mm diameter Optical Flat ii) Apparatus size shall not be less than Width 400 x Depth 500 x Height 400 mm in construction and vendor to specify the height suitable for the job details.
03)	Material: Monochromatic light source can be constructed with Teak Wood
04)	Spares and other requisites: i) One spare lamp shall be supplied along with main equipment ii) Flatness reading interpretation chart shall be provided for reference. iii) Two copies of instruction manual in English shall be give,
05)	Certificates: Compliance Certificate with minimum one year warranty shall be given.
06)	Packing and Supply: Shall be packed safely in wooden case.