



Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

An ISO 9001
Company

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

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	2631600074	26.09.2016	22.10.2016
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 tender should be submitted online on or before the due date by 14.00 Hrs (IST). Tenders received after 14.00 Hrs (IST) will not be considered for evaluation.			
Item	Description	Qty.	Delivery terms for Indigenous vendors
10	Hand Held Hardness Tester as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in or https://bheleps.buyjunction.in)	2 Nos.	FOR BHEL Stores, Power Plant Piping Unit, Thirumayam, Pudukkottai Dist
20	Hand Held Hardness Tester as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in or https://bheleps.buyjunction.in)	2 Nos.	FOR BHEL Stores, High Pressure Boiler Plant, Tiruchirappalli -14
Important points to be taken care during submission of offer 1. For foreign vendors delivery term shall be CFR Chennai Airport for all the four numbers 2. Delivery required 3 months 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. Checklist No: TRY/IMP/04 (for foreign vendors) and TRY/IND/04A (for indigenous vendors) 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 / EPROC / GENL / 001) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from https://bheleps.buyjunction.in or 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 be submitted online at our above indicated web portal before 14:00 hours on the due date Tenders will be opened online at 14:30 hours on the due date.		Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED  Manager / Capital Equipment / MM	

PART - A
QUALIFYING CRITERIA FOR
HAND HELD HARDNESS TESTER

S.No	BHEL Specification	Vendor's Offer
1.0	QUALIFYING CRITERIA	
1.1	The BIDDER / VENDOR (OEM) shall have at least FIVE Years of Experience in the Design, Manufacture & Supply of "HARDNESS TESTER". Vendor may indicate the actual no. of years of experience in the field	
1.2	Only those vendors (OEMs), who have Manufactured, supplied and commissioned at least ONE Hand Held Hardness Tester of Quoted Series , in the last FIVE years [(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 Quoted Series of Hand held hardness tester 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 the vendor is found to be false/ incorrect the offer will 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 series quoted against this enquiry	
2.3	Number of "Hand held hardness tester" supplied and commissioned till date in the quoted model. (to quote Hardness testers supplied during the last three years only)	
2.4	The BIDDER/VENDOR to furnish Reference List of Customers (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 instrument
- 2 Make & Series of the instrument
- 3 Month & Year of Commissioning
- 4
 - a. Application for which instrument is used
 - b. Hardness range measured
- 5 Performance of the instrument Satisfactory / Not Satisfactory
(Strike off whichever is not applicable)
- 6 After sales service Satisfactory / Not Satisfactory
(Strike off whichever is not applicable)
- 7 Any Other remarks

Performance certificate Issued date:

Signature & Seal of the Authority
Issuing the Performance Certificate

Contact details of issuing authority
Name & Designation:
Office No/ Mobile no:
Email ID:

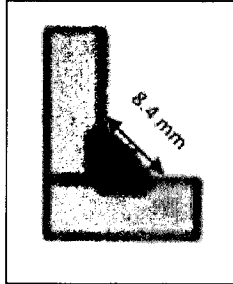
PART-B**TECHNICAL SPECIFICATION FOR HAND HELD HARDNESS TESTER**

Qty:4 Nos

BRIEF DESCRIPTION:

Hand held Hardness tester with Standard Accessories is required for finding the hardness of various materials.

TECHNICAL SPECIFICATION

SL.NO	Description	BHEL REQUIREMENT	Vendor offer
1.0 Purpose			
1.1	Purpose	Hardness testing of various metals and weldments, Valve Castings & Forgings and machined components.	
1.2	Jobs to be analyzed	Pipes(Dia 88.9 to 1000mm; Thickness:12.7mm to 150mm), Tubes(Dia 38.1 to 76.1mm ;thickness:3mm to 15mm) ,Plates, Fittings, Castings & Forgings, Machined components, Weldments of Carbon Steel, Alloy Steel, Stainless Steel & also stellite welding etc.	
1.3	Constrained job areas	Apart from conventional applications, the impact probe must be able to reach the constrained areas like the intersection area of 'L' shaped fillet with accessibility of 8.4mm and above to analyse. Vendor to offer and provide the details of the impact probes. 	
1.4	Accessories for cylindrical jobs (optional)	Accessories if any for holding the impact device in proper position on tubes and pipes of various dia mentioned above. Vendor to confirm and specify the details.	
2.0 Principle of operation			
2.1	Principle of operation	Leebs Principle-Rebound Hardness type	
3.0 Machine Configuration			
3.1	Weight	Handheld, less than 2000gms.	
3.2	Power Source	The equipment shall work with Ordinary Batteries / rechargeable battery pack. One complete recharge should give minimum 8 Hrs of operation, if it works on rechargeable battery.	
3.3	Battery type and quantity	Vendor to specify	
3.4	Minimum Job thickness	3 mm. Vendor to specify the method/procedure to measure hardness of these minimum thickness jobs	
3.5	Testing Range	200-850 HL OR Equivalent Brinell Hardness Number ranging 100 BHN to 500 BHN	
3.6	Converted hardness Scales	HV, HRB, HRC,BHN	
3.7	Accuracy & Variation	+/- 4 HL	
3.8	Memory	Minimum 100 Readings	
3.9	Statistics	Display of mean values	
4.0 User Interface			
4.1	Display	Digital display	
4.2	Keypad	Keypad provided must be water proof, resistance to oil/grease.	

SL.NO	Description	BHEL REQUIREMENT	Vendor offer
5.0	Impact devices	Vendor to offer the various impact devices and their spec along with the offer.	
6.0	Calibration Blocks with calibration	Vendor should offer ONE certified calibration block along with calibration certificate traceable to National/International standards	
7.0 Accessories			
7.1	List of accessories to be provided along with offer	Vendor has to specify the entire list of accessories like probes ,Battery charger etc	
8.0 Spares			
8.1	List of essential spares	Vendor has to provide the spares list.	
9.0	Service manual	One Hard copy and one soft copy per instrument has to be provided	
10.0	Basic Equipment set with standard accessories	Supply of Each equipment set must consist of i) ONE Basic equipment ii) ONE Indenting probe iii) ONE Certified calibration block of midrange of hardness having traceability to national/international standards	
11.0	The total Qty of 4 sets to be split as:	A=2 sets (for Trichy) – Category A	
		B=2 Sets (for Thirumayam)- Category B	
12.0	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.	
13.0 Installation & Commissioning			
13.1	Installation & commissioning & performance prove out	Commissioning & Prove out has to be done at BHEL works by the supplier [2 sets at BHEL Trichy Category(A) and 2 sets at BHEL Thirumayam Category (B)]	
14.0 Training			
14.1	Training on operation & maintenance	Vendor to provide training in operating the instrument at BHEL works during commissioning	
15.0 Guarantee			
15.1	Guarantee	12 months from the date of commissioning or 18 months from the date of dispatch whichever is earlier.	