ISO 9001:2000 &14001:2004 NAVARATNA COMPANY

#### सामग्री प्रबन्धन (क्रय विभाग)

#### MATERIAL MANAGEMENT (PURCHASE)

सेन्ट्रल फाऊन्ड्री फोर्ज प्लान्ट, भारत हैवी इलैक्ट्रिकल्स लिमिटेड

### CENTRAL FOUNDRY FORGE PLANT, BHEL HARDWAR

रानीपुर, हरिद्वार (भारत)

RANIPUR, HARIDWAR (INDIA) – 249403

Phone No. +91-1334-281639/284548, FAX No. 225892

e-mail:manoj26@bhelhwr.co.in

, ranjank@bhelhwr.co.in,shantanu@bhelhwr.co.in

**Sub:** Tender Enquiry No: 3058/P/371/9/7204P /1 due on 19.02.2010, at 2.00 PM

Dear Sir,

We are pleased to invite offer as per enclosed specifications, drawings with terms and conditions in sealed covers for the under mentioned items.

S No		Description of Material	Qty MR	Date & Time of Opening
01	3058/P/371/9/7204P /1	Ultra sonic testing machine	02 No.	19.02.2010. at 2.00 PM

# KINDLY READ TERMS AND CONDITIONS. OFFER NOT IN ACCORDANCE WITH THE INSTRUCTIONS IS LIABLE TO BE DISQUALIFIED AND OR IGNORED.

PLESAE VISIT www.bhel.in or www.bhelhwr.co.in for more details and tender documents.

Please also down load Vendor Registration Form and submit same dully filled.

Thanking You,

Yours Faithfully, For & On behalf of CFFP BHEL Hardwar

(Shantanu) AGM (MM)

**Note**: Corrigendum if any shall not be published, kindly refer web for any changes.



### निविदा सूचना TENDER ENQUIRY

### भारत हैवी इलैक्टिकल्स लिमिटेड Bharat Heavy Electricals Ltd

सेन्टल फाउन्डी फोर्ज प्लांट- हरिद्वार-249 403 (भारत)

Central Foundry Forge Plant, Hardwar-249 403 INDIA

Phone: (0091) (133) 485356, 485269

Telefax: (0091) (133) 425892
 Telex: 05909-213
 UPTT NO. HR-0041496 Dt. 01-04-199
 C S T NO. HR-5018287 Dt. 16-03-198

30-01-2010

निविदा सूचना सं. ENQUIRY NO.\*

3058 P/ 371/9/7204P1

दिनांक Date

क्पया निम्नलिखित के लिए निविदा दें। PLEASE QUOTE FOR THE FOLLOWING

M/S. ::

19-02-2010

INDIA

SL MATERIAL CODE ITEM DESCRIPTION

QUANTITY UNIT

LOTNO

LOT DELIVERY QTY SCHEDULE

1 FF4310619282

2 31/05/10

ULTRASONIK TESTING MACHINE AS PER SPECIFICATION NO -CFF/SFOC-04 REV 00 DT 21.10.09

\*\* IMPORTANT: This enquiry is 2 part tender. Techno-Commercial bid (Part-1) & Price Bids (Part-2) should be submitted in separate envelopes. These two envelopes should be submitted in a common sealed envelope. Techno-Commercial Bid shall contain detailed Technical Specification, Drawings Technical documents, Catalogues, taxes & duties, payment terms, delivery period, Validity of offer, Replica of Price Bid (Copy of price bid without price part) etc. The confirmation to the special terms & conditions must be submitted alongwith Techno-Commercial bid.

Standard Instructions:

GUARANTEE CERTIFICATE REQUIRED.

INSP AFTER RECPT AT CFFP.

ERECTION/COMM REQ AT SITE.

OPERATION/MAINT MANUAL ALONGWITH EQPT.

ATTACHMENT-

- ANNEXURE-1 OF COMMERCIAL TERMS AND CONDITION
- PROFARMA BANK GAURANTY.
- AUTHORISATION LETTER FOR E-PAYMENT.
- CONSORTIUM BANK LIST.
- TECHNICAL SPECIFICATION NO. CFF/SFQC-04 Dated 21/10/2009 FOR ULTRASONIK TESTING MACHINE
- ANNEXURE A OF GENERAL TERMS AND CONDITIONS.

CALIBERATION & GUARANTEE CERTIFICATE REQUIRED

#### General Instructions:

- 1. Please submit authorization letter (format enclosed) for facilitating e-payment/electronic transfer of funds
- 2. 100% payment within 30 days after receipt & acceptance of material at CFFP BHEL, Hardwar through e-payment.
- 3. CFFP/BHEL RESERVES THE RIGHT TO PRE-INSPECT THE MATERIAL AT VENDOR'S WORKS / GODOWN/ PREMISES BEFORE DESPATCH.

Page No

महत्वपूर्ण : कुपया कोटेशन देने से पूर्व पीछे दिए गये अनुदेशों को ध्यानपूर्वक पृद्धिये। MADODTANT - DI EACE DEAD CADEFULLY THE INC



### निविदा सूचना **TENDER ENQUIRY**

# **Bharat Heavy Electricals Ltd**

सेन्ट्रल फाउन्ड्री फोर्ज प्लांट- हरिद्वार-249 403 (भारत)

Central Foundry Forge Plant, Hardwar-249 403 INDIA

Phone: (0091) (133) 485356, 485269

Telefax: (0091) (133) 425892
 Telex: 05909-213
 UPTT NO. HR-0041496 Dt. D1-D4-1899
 C S T NO. HR-5018287 Dt. 16-03-1998

निविदा सूचना सं. ENQUIRY NO.\*

3058 P/ 371/9/7204P1

दिनांक Date

30-01-2010

कृपया निम्नलिखित के लिए निविदा दें। PLEASE QUOTE FOR THE FOLLOWING :

MATERIAL CODE ITEM DESCRIPTION QUANTITY UNIT

4. ORIGINAL MANUFACTURER'S TEST CERTIFICATE IS REQUIRED ALONG WITH DESPATCH DOCUMENTS. IN CASE SUPPLIES ARE FROM TRADERS, IT SHALL BE THE RESPONSIBILITY OF THE TRADER TO PROVIDE ORIGINAL MANUFACTURER'S TEST CERTIFICATE WITH LINKAGE TO TRADER'S INVOICE STATING BATCH NO.

5. CFFP/BHEL Reserves the right to procure from more than one vendor.

MANOJ KUMAR YADAVA ENGR

Page No



### SPECIFICATION FOR ULTRASONIC TESTING MACHINE

No: CFF/SFQC-04 Rev No.: 00 Date: 21.10.2009 Page 1 of 3

#### 1.0. OBJECTIVE:

This technical specification covers the supply & commissioning of Ultrasonic testing machine complete with accessories for UT testing of steel castings and forgings.

#### 2.0. TECHNICAL REQUIREMENTS:

- 2.1 The equipment should be ultrasonic, pulsed, reflection type and should be capable of generating, receiving, and amplifying frequencies of at least 0.5 to 15 MHz with adequate number of narrow band and broad band filter option.
- 2.2 The ultrasonic instrument should provide linear presentation (within 95 %) for at least 90 % of the screen height (sweep line to top of screen). Linearity shall be determined in accordance with Practice E 317 or equivalent electronic means.
- 2.3 The electronic apparatus shall contain a signal attenuator or calibrated gain control that shall be accurate over its useful range to 610 % of the nominal attenuation or gain ratio to allow measurement of signals beyond the linear range of the instrument.
- 2.4 The equipment should be capable of testing in pulse echo mode and dual mode.
- 2.5 The equipment should have capacity to test 2.5 mm to 10 mtrs adjustable in 1mm and 10 mm step in steel.
- 2.6 The equipment should be capable to generate sound velocity from 1000 m/s to 9999 m/s with fine mode adjustable to 1 m/s. The equipment should have option to select different material velocity coupled with material.
- 2.7 The equipment should have a display delay -10 to 2000 mm in steel (dependable on range ).
- 2.8 The equipment should have gain 0 to 100 dB with step of min .1 to max 12 db.
- 2.9 The pulse repetition frequency should be selectively coupled to test ranges 4 Hz to 500 Hz.

	PREPARED BY	CHECKED BY	APPROVED BY
SIGN AND DATE	Ans-	rad.	Ulvomen
	AK-AGARWAL	VKACARWAL	PARTHASARTHI



# SPECIFICATION FOR ULTRASONIC TESTING MACHINE

No: CFF/SFQC-04 Rev No.: 00 Date: 21.10.2009 Page 2 of 3

- 2.10 The pulse rectification should also work with positive and negative half wave , full wave and RF mode with filtering.
- 2.11 The equipment should have rejection control for 0 to 100 % FSH with LED indicator.
- 2.12 The equipment should have two independent gates controllable over entire sweep range.
- 2.13 The equipment shold have facility for LEMO or BNC connector.
- 2.14 The equipment should have high brightness color LCD / TFT display with high resolution.
- 2.15 The equipment should have provision for making distance amplitude correction curve(DAC) on the screen with min 2 reference echoes.
- 2.16 The equipment should have capacity for DGS evaluation for narrow banded probe. It should also have provision of feeding custom probe set-ups. Defect size should also be displayed in equivalent reflector size. The DGS diagram should be available for normal probe (Dia 24 mm) in the range up to 2000 mm, miniature normal probe (Dia 10mm) in the range up to 500 mm & angular probe (Size 8 X 9 mm) in the range up to 500 mm.
- 2.17 The equipment should have capacity to store 50 different calibration scales and also have data memory for storage of scanning result.
- 2.18 The equipment should have suitable I/O ports for data transfer to printers.
- 2.19 The equipment should work with Ni MH, Ni Cd or alkaline battery with minimum charging capacity of 12 hrs. It should also work on input supply of 220 V /50 Hz / single phase.
- 2.20 The required accessories for smooth running of instruments should be listed and separately quoted.

	PREPARED BY	CHECKED BY	APPROVED BY
SIGN AND DATE	A	- Curt	Ulmmin
	AKAGARWAL	V K AGARWAL	PARTHASARTHI



# SPECIFICATION FOR ULTRASONIC TESTING MACHINE

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No: CFF/SFQC-04 Rev No.: 00 Date: 21.10.2009 Page 3 of 3

### 3.0. GENERAL REQUIREMENTS:

- 3.1 Instrument shall be guaranteed for minimum one year after commissioning year for trouble free service.
- 3.2 The equipment shall be tropicalized for operating temperatures from 4 °C to 50 °C, humidity 20-95 % (RH) & dusty atmosphere.
- 3.3 Instrument shall be as per applicable national standard.
- 3.4 Supplier shall commission the equipment at CFFP premises and demonstrate the satisfactory performance of the equipment.
- 3.6 Supplier shall provide three sets of operation and maintenance manual.
- 3.7 Training to be provided to BHEL personnel for operating & maintaining the equipment.

Note: In the technical offer the requirements of the present specification are to be point wise addressed.

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SIGN AND DATE	A	Fores	Mimmil
	AKAGARWAL	V K AGARWAL	PARTHASARTHI

ANNEXURE - I OF COMMERCIAL TERMS & CONDITIONS ; REV: 04	Vendor's Confirmation
1) PAYMENT TERMS:	Commination
1.For Indigenous Vendors: 80% of the material cost to be paid against delivery of equipment at	
CFFP. Balance 20% of material cost and supervision / E&C and proving charges will be paid after	
satisfactory erection & Commissioning/ after acceptance of material at BHEL, CFFP(in cases	
where Erection and Commissioning is not involved.) against submission of PBG. Payment to be	
made through EFT ( electronic fund transfer i.e e-payment Format attached.	
<b>2. For Foreign Vendors:</b> In case of foreign vendor payment through USANCE LC is acceptable.	
80% of the material cost to be paid on 70th day of bill of lading date. Balance 20% of material	
cost and supervision / E&C and proving charges will be paid after satisfactory erection &	
Commissioning / after acceptance of material at BHEL, CFFP (in cases where Erection and	
Commissioning is not involved.). Payment to be made through usance LC which shall be opened 3	
months before scheduled delivery date Also pre-inspection has to be done by reputed third party	
inspection agency such as LLOYED, ALEX STEWART at the cost of vendor before dispatch/	
shipment of material.	
NOTE:	
a) As per payment terms, 20% will be released by BHEL after successful erection, commissioning and job proving.	
b) this 20% will be released against submission of performance bank guarantee valid for	
entire warrantee period from the date of commissioning. c) The security deposit is to be as per the tender condition.	
1.1LOADING ( IF ANY TERM OF THIS ANNEXURE IS NOT AGREED BY VENDOR)	
WILL BE AS FOLLOWS:	
Loading: Wherever payment is realesed before receipt and acceptance of material suitable	
loading shall be done .Clean advance not acceptable. if any (Amount X):1.5% per month for	
the quoted delivery period for the amount 'X'	
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<b>2.1 SUBMISSION OF BANK GUARANTEE</b> : All bank guarantees for security deposit as well	
as for performance should be from one of the BHEL consortium banks and the bank guarantee	
should be in the Performa prescribed by BHEL (see annexure-II & III).	
should be in the refforma prescribed by Briel (see annexure-11 & 111).	
3) LATE DELIVERY PENALTY CLAUSE (LD): Penalty for late delivery shall be applicable	
@ 0.5% per week and part thereof subject to a maximum of 10% for total P.O. value(excluding	
E&C, Taxes and duties.) from the date of scheduled delivery of PO. If any vendor do not accept	
the LD @ of 0.5% per week and part thereof subject to a maximum of 5% of total PO	
1 1	
value(excluding E&C, Taxes and duties), their offer will be ignored. Vendors accepting LD terms	
different from the proposed terms of 0.5% per week and maximum 10%, their offer will be loaded	
@ %age deviation from the range of 10% on their prices (FOB for imported and ex-factory for	
indigenous). If the vendor does not accept as above their offer is likely to be ignored and technical	
bid will not be processed.	
ord with not be processed.	
4) <b>DELIVERY OF THE EQUIPMENT:</b> Firm delivery period for the equipment to be stated	
w.e.f. date of LOI/ Order as under:1. Period/ Time required to submit GA/Other drawings ( Please	
specify other drawings). 2. Period/ time to supply equipment from the date of approval of	
drawings.(For approval of drawing please refer clause 7 below.)	
Prices should be quoted on FOR CFFP, destination basis only. Foreign vendors can also	
quote on FOB.	
5) SETTLEMENT OF DISPUTES:	
Settlement of disputes through arbitration shall be in accordance with Arbitration Rules of	
Conciliation and Arbitration of the ICC, Paris. The venue of arbitration shall be Delhi. The	
courts of Delhi shall have exclusive jurisdiction.	
For Indigenous Source. The venue of arbitration shall be Haridwar Court, which will	
have exclusive jurisdiction.	
6) AUTHORIZATION OF PRE-INSPECTION: BHELreserve the right to pre inspect the	
material at vendor works before despatch.	
7) <b>DRAWING / DATA APPROVAL</b> : Any drawing / data approval required from BHEL after	
placement of order shall be the responsibility of the vendor and any delay on account of the same	
shall be the responsibility of the vendor and have no bearing on the penalty applicable.	
7.1) Time period required for Foundation / Erection & commissioning.(to be	
specifically mentioned, if required)	
8) DRAWING/DESIGN/ INFORMATION USE: The vendor will have to give an undertaking	
that the drawing / design / information enclosed with the enquiry / proposed order will not be	
parted to any agency and will also not be used for manufacturing for any other customer.	
<b>09)</b> 5 SETS OF O&M MANUAL: 5 Sets of Operation & Maintenance Manual shall have to be	
supplied along with the equipment. Final payment will be released only after receipt of the required	
documentation.	
10) TOOLS AND SPARES: Special tools and recommended spares required (list to be provided	
by vendor).	
11) TRAINING: Vendor shall provide required training to BHEL personnel free of cost.	
12) WARRANTY/ GUARANTEE: For complete machine and all supplied accessories /	
attachment / equipments / items for 24 months from the date of acceptance of the machine	
Or	
As indicated in the technical specification. In case of difference guarantee/warranty term	
mentioned, technical specification will prevail.	
13) CONTACT DETAILS: Details of Contact person Name, Designation, Department complete	
postal, E-mail address & Fax no, phone, Mobile no. to be mentioned.	
14) PHYTO SANITARY CERTIFICATE: Phyto sanitary Certificate essential for packages	
(Wooden).	
<b>15</b> ) <b>VALIDITY:</b> Validity of the offer should be 180 days from tender opening.	
16) BANK CHARGES: Bank Charges to be borne by vendor.	
17). BHEL Reserves the right to open price bids through reverse auction. BHEL also reserve the	
right to negotiate with L1 bidder even after reverse auction. Please confirm your acceptance.	
right to hegotiate with L1 bituer even after reverse auction. Please confirm your acceptance.	
Note: Loading shall be applicable for any deviation in commercial ter viz. payment terms,	
PBG etc, for the amount/ period not agreed.	
Attach separate sheet for additional information if necessary. The above terms and	
conditions superseedes the terms and conditions found contradictory.	
conditions supersecues are terms and conditions found contradictory.	
-	



payment.

ANNEXURE-II WAM-28

# **Proforma for Bank Guarantee**

Div	consideration of the Bharat Heavy Electrical Limited Siri fort N. Delhi through vision CFFP Hardwar (hereinafter called the Company') having agreed to exempt			
term includes 'Suppliers' for the purpose of this Bond) from the demand under the terms at conditions of an Agreement date Made between for (hereinafter called 'the said Agreement') of Security Deposit f				
	e due fulfillment by the said Contractor of the terms and conditions contained in the said reement, on production of a Bank Guarantee for Rs (Rupeesy).			
1.	We,(Indicate the name of the Bank)(hereinafter referred to as 'the Bank') at the request			
	undertake to pay to the Company an amount not exceeding Rs. against any loss or damage caused to or suffered or would be caused to or suffered by the Company by reason of any breach by the said Contractor (s) of any of the terms and conditions contained in the said Agreement.			
2.	We,			
3.	We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto our liability under this present being absolute and unequivocal.			

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such

4.	We,
5.	We,
6.	This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
7.	We,(indicate the name of the bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing.
Dat	red the day of
For	(indicate the name of the bank)

ANNEXURE-D Page 1 of 1

# AUTHORISATION LETTER FOR E-PAYMENT/ELECTRONIC FUNDS TRANSFER (EFT/RTGS) PLEASE FILL UP THE FORM IN CAPITAL LETTERS ONLY

TYPE OF REQUEST (Tick One)	CREATE CHANGE	
BHEL Vendor/ Supplier Code Company's Name Address		
City Pincode State		
Contact Person(S) Telehone NO. FAX. No. e-mail id		
1. Bank Name 2. Bank Address		
<ul><li>3. Bank Telephone No.</li><li>4. Bank Account No.</li><li>5. Account Type.</li><li>6. Bank's Branch Code</li><li>7. Bank Swift Code</li><li>(aplicable to EFT only)</li></ul>		
8. Enclose blank cancelled cheque DECLARATION	ue	
Ranipur, Haridwar to electronical hereby certify that the particulars (2) If the transsation is delayed o	ne above named company, hereby authorize BHEL CFFP, ly make payments to the designated bank account.  given above are true, complete and correct.  r not effected at all for reasons of incomplete or incorrect EL/transfereing Bank responsible.	
3. This authority remains in full force untill BHEL, CFFP, Ranipur, Haridwar receives & acknowledge written notification requesting a change or cancellation.		
4. I have read the contents of the covering letter and agree to discharge the responsibilty expected of me as a participant under E-payment/EFT/RTGS.		
Date: Authorized Signatory Designation		
Company Seal  Verification By Bank		



# GENERAL TERMS AND CONDITIONS OF TENDER ENQUIRY ANNEXURE-A

1. Submit the tender in two parts i.e.

Part-I Techno-Commercial Bid Part-II Price Bid

Techno-Commercial (part one) & Price Bid (part two) should be put in separate sealed envelopes. Both envelopes should be super scribed with **Tender Number**, **Date of Opening** & **Technical / Commercial Bid** and **Price Bid** respectively along with name of firm.

Both the envelopes i.e. containing Techno-Commercial Bid and Price Bid should again be kept in one envelope super scribed again with Tender No. and Date of Opening and the name of firm submitting the tender and sent by Registered A/D post to AGM (MM),Purchase Department ,CFFP ,BHEL Hardwar,Ranipur ,Hardwar 249403.Uttrakhand ,India

<u>Part-I Envelopes super scribed with **Techno-Commercial Bid** must contain all information especially:-</u>

- (a) Specification of the material offered should be strictly as per CFFP/BHEL specifications of Enquired material in tender documents. **Deviations if any must be indicated clearly in the offer. Rates to be quoted on FOR destination basis.**
- (b) All commercial terms i.e. packing, forwarding, Custom Duty ,Additional Duty ,ST/STT/VAT/CST, Excise duty/CVD , Bank Charges, payment terms & Insurance etc as applicable should be clearly mentioned **except Price** .Also mention present rate of applicable taxes & duties even if inclusive in rates.
- (c) Confirm to submit all required commercial documents (tax invoice, cenvatable duplicate copy of invoice, packing list, transit sale agreement etc.)& technical documents (TC/GC/QP etc.)
- (d) Registration Numbers of SSI, Central Excise, Sales tax, Income tax, DGS & D, ECC etc.
- (e) Un-priced copy of Price Bid.

# Part-II Envelopes super scribed with Price Bid should contain priced copy of Price Bid. The price should be mentioned both in figures and words.

- 2. Authorized Signatory should authenticate all tender documents.
- **3. Techno-commercial bid (Part-I)** will be opened on the due date at 2.00 PM. In the presence of participating vendors or authorized representatives, who may wish to be present. Representative deputed to witness tender opening must produce an authority letter from the signatory of offer. After evaluation of technical bids & finalization of technical, commercial terms & condition, price bid of only successful vendors will be opened. Priced bid opening date will be intimated separately.
- **4**. The material offered must conform to the required BHEL specifications and drawings as well as instructions and details made available.
- **5. Original Test Certificate & other related Documents** from the original Manufacturer's test certificate is to be confirmed in the offer itself which is to be submitted along with dispatch document.
- **06**. CFFP/BHEL Hardwar reserves the right to accept or reject any or all tenders without assigning any reason there of.
- 07. Tenders not submitted in the prescribed manner are likely to be ignored/rejected.
- **08**. **Agent /Agency Commission**: Payment of any kind at any stage will not be made to Agent on account of agent commission or otherwise by CFFP BHEL Hardwar.
- **09**. **Inspection**: CFFP BHEL Hardwar inspection after receipt shall be final and binding. BHEL reserve the right to pre-inspect at Vendor's works or BHEL may nominate any testing house for inspection..
- **10**. Dispatching port & Country to be mentioned.
- **11**. Vendor must submit the annual report giving the audited profit or loss account and balance sheet for last three financial years including current year ending.

The vendors who are registered with any unit of BHEL, India, in related category shall give the details also.

List of banks in BHEL Consortium		
1	State Bank of India	
2		
	Bank of Baroda	
	Punjab National Bank	
_	State Bank of Hyderabad	
	State Bank of Travancore	
	Corporation bank	
	Syndicate Bank	
9	Indian Bank	
10	Oriental Bank of Commerce	
11	UCO bank	
12	Central bank of India	
13	IDBI Ltd.	
14	HDFC Bank Ltd.	
15	ICICI Bank Ltd.	
	Kotak Mahindra Bank ltd	
17	The Federal bank Limited	
18		
19	HODG	
20		
21	DEUTSCHE BANK	
22	STANDARD CHARTERED BANK	