



Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

An ISO 9001
Company

ENQUIRY	Phone: +91 431 257 79 38 Fax : +91 431 252 07 19 Email : tvenkat@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	2620900233	22.10.2009	24.11.2009

You are requested to quote the Enquiry number date and due date in all your correspondences. 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	Flawed Specimens for Training and Certification as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	4 Nos.

Important points to be taken care during submission of offer:

- 1. Delivery required 4 months from the date of purchase order.**
- 2. Grace period of 1 month beyond the above delivery period will be considered.**
- 3. Check-list to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.**

BHEL's General guidelines / instructions including bank guarantee formats and list of consortium banks, Commercial terms check-list 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 Enquiry reference "2620900233".

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 Manager / Capital Equipment / MM
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PART A
QUALIFYING CRITERIA FOR THE SUPPLY OF
FLAWED SPECIMENS FOR TRAINING & CERTIFICATION

Qty: 4Nos.

SECTION – I

The BIDDER / VENDOR has to compulsorily meet the following requirements to get qualified for submitting an offer for the Flawed specimens for training & certification

S. No.	REQUIREMENTS	VENDOR's COMMENTS
1.0	The BIDDER / VENDOR shall have a minimum of Three Years of Continuous Experience in the Design, Manufacture of Flawed specimens for training & certification. Indicate the actual experience.	
2.0	The BIDDER / VENDOR shall have supplied at least one set of Flawed specimens for training & certification within the last five years. Indicate the numbers sold in India & Other Countries.	
3.0	Reference List of Customers and Performance Certificate from CUSTOMERS (minimum ONE Customer) with full contact details of CONTACT PERSON.	
4.0	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	
5.0	DELIVERY - The bidder shall quote the best possible delivery. However the delivery shall not exceed 4 months with an additional grace period of 1 month. The additional grace period will attract a penalty which is explained in the commercial terms of the enquiry. The delivery period shall be reckoned from date of purchase order to despatch from the vendor works.	

SECTION – II

S. No.	PARTICULARS	VENDOR's RESPONSE
6.0	Number of Years of Experience of the BIDDER/ VENDOR in the field of design, manufacture and supply of 'Flawed specimens for training & certification'	
7.0	Number of Flawed specimens for training & certification supplied, installed and commissioned till date	
8.0	Number of Flawed specimens for training & certification supplied, installed and commissioned till date for the following category of CUSTOMERS (within INDIA): a) Government Organisations b) Private Sector Companies [Large Scale Industries]	
9.0	Number of Flawed specimens for training & certification supplied, installed & commissioned till date in the following Category (around the GLOBE) : a) Universities b) R&D Labs c) Reputed Heavy Engineering Works/Manufacturing firms	
10.0	Details on International Standards followed in Design of the System	
11.0	Details of Quality System followed (Kindly furnish the salient aspects of the QA system followed)	
12.0	Any Additional Data to supplement the manufacturing capability of the BIDDER	

SECTION – III

The BIDDER / VENDOR has to comply with the following, for accepting the Technical Offer for scrutiny by the Purchaser :

S.No.	REQUIREMENTS	VENDOR's COMPLIANCE
19.0	The BIDDER / VENDOR shall submit the offer in TWO PARTS - Technical [with PART A & PART B] & Commercial and Price Bid. The Technical Offer shall be in line with the BHEL Technical Specifications and the Guidelines or Annexure mentioned, wherever applicable.	
20.0	The Offer shall contain a comparative statement of Technical Specifications given by BHEL and the Offer Details submitted by the Bidder, against each clause. A just 'CONFIRMED' or 'COMPLIES' or 'YES' or 'NO-DEVIATION' or similar words in the technical comparative statement may lead to disqualification of the Technical Offer.	
21.0	The Technical Offer shall be supported by Product Catalogue and Data Sheets in ORIGINAL	
22.0	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation of Scope of Supply.	
23.0	The reference List of Customers shall be accompanied with the details (Phone Number / E-Mail ID) of the CONTACT PERSON for cross reference by BHEL	

PART – B

TECHNICAL SPECIFICATIONS for FLAWED SPECIMENS FOR TRAINING & CERTIFICATION

Qty – 4 Nos.

Sl. No.	PARTICULARS	BHEL SPECIFICATIONS	Bidder's OFFER [With Complete Technical Details]
1.0	Area of Application	For carrying out experimental studies for validation of various techniques in NDT methods, namely Radiographic Testing (RT), Ultrasonic Testing (UT), Magnetic Particle Testing (MT) and Liquid Penetrant Testing (PT) for Weld,	
2.0	Material	Carbon Steel and Alloy Steel.	
3.0	Dimensions	Supplier to specify	
4.0	Defects	The following defects shall be essentially present in the specimen.	
4.1	RT / UT	Welded Specimen Defect Longitudinal and Transverse cracks, Slag, Lack of fusion (Root, Top, Side Wall), Incomplete Penetrations, Rounded indications (Isolated porosity / Gas hole, Inline pores, Clustered pores, Scattered pores, Tungston inclusions) Supplier to furnish the details.	
4.2	MT	Major surface / subsurface Linear and Non Linear, Longitudinal and Transverse Defects and Heat Affected Zone(HAZ) defect. Supplier to specify the details.	

FLAWED SPECIMENS FOR TRAINING & CERTIFICATION

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4.3	PT	Major surface Linear and Non Linear, Longitudinal and Transverse Defects. Supplier to specify the details.	
4.4	General	The supplier has to furnish details the Location, dimensions, orientation, etc of artificial defects for each specimen.	
5.0	Scope of Supply	The following specimens are to be supplied	
5.1	RT/UT	Plate Butt Weld (thickness between 10-40mm covering all the defects mentioned in Clause 4.0) in 2 or 3 specimens	
5.2	RT/UT	Pipe Butt Weld (OD 80-400mm, thickness 10-40mm) covering all the defects mentioned in Clause 4.0) in 2 or 3 specimens	
5.3	UT	Fillet Weld: Thickness(Base plate thickness and Throat Thickness)supplier to specify covering all the defects mentioned in Clause 4.0) in 2 or 3 specimens	
5.4	PT /MT	Butt Weld - Covering all the defects mentioned in Clause 4.0.) in 2 or 3 specimens	
5.5	PT/MT	Fillet Weld – Thickness (Base plate thickness and Throat Thickness)supplier to specify .Covering the defects –(Transverse indication, HAZ indication, Toe indication, Root Lack of Fusion, Porosity)- in 2 or 3 specimen	
6.0	Inspection	Prior to acceptance, the entire set of flawed specimens will be subjected to Dimensional, as well as various NDT Evaluations by concerned BHEL Engineers for confirmation of meeting the specifications.	

<p>7.0</p>	<p>Documentation in ENGLISH Language</p>	<p>2 Copies (In English) of the Manuals providing the complete details of the flawed specimens including specimen number, dimensions, material grade, defect details(location, dimensions, orientation),Testing and Acceptance criteria, Certificate of Conformance etc, along with the drawings.</p>	
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