



Bharat Heavy Electricals Limited

High Pressure Boiler Plant
NDTL Department
Tiruchirapalli 620 014, India

Phone : 0431-257 5877
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AN ISO 9001 COMPANY

Enquiry No.: BHEL: NDT: VALVE CASTINGS: 01
Date: 10-02-2015

**ENQUIRY FOR OUTSOURCING OF VALVE CASTING NDT EVALUATION
AT VARIOUS FOUNDRIES AT DIFFERENT LOCATIONS**

TENDER SUBMISSION LAST DATE & TIME:

05.03.2015 (THURSDAY) - 12.00 HOURS (IST)

TENDER OPENING DATE:

05.03.2015 (THURSDAY) - 14.30 HOURS IST

ADDRESS FOR COMMUNICATION:

**Additional General Manager / NDTL
Building I
Bharat Heavy Electricals Limited
Tiruchirapalli – 620 014
Tamilnadu**

CONTACT PHONE NUMBER: 0431 – 257 5877

e-Mail ADDRESS: tguru@bheltry.co.in

1.0 GENERAL:

- 1.1 NDTL Department BHEL Tiruchirappalli is interested in utilizing services from two independent inspection agencies in the ratio of 60:40, for Valve Casting NDT evaluation at various foundries at different locations as given in Annexure - II from experienced and reputed Inspection agencies meeting conditions as stipulated in this enquiry. The NDE activities include RT Film evaluation and certification of RT Reports and witnessing of MPI and its certification
- 1.2 The Inspection agencies may download the Enquiry Document and who fulfil the enquiry conditions may submit the offer as detailed below.
- 1.3 Earnest Money Deposit (EMD) amount of Rs. 1,00,000/- (Rupees One Lakh only) in the form of crossed Demand Draft drawn in favour of Bharat Heavy Electricals Limited payable at Tiruchirappalli shall be sent along with your offer.
- 1.4 Inspection agencies shall quote a SINGLE RATE for each category of work valid uniformly for the entire contract period. No escalation of rate is admissible during the contract period. Inspection agency shall quote the rate exclusive of service tax and education cess as applicable. No other taxes or duties will be paid by BHEL other than the above. However, additional financial implications on account of statutory changes and new levies subsequently introduced will be reimbursed by BHEL on production of documentary evidence.
- 1.5 BHEL units are ISO 9000 accredited companies and our system and procedures comply with ISO requirements. Hence all the Inspection Agencies shall preferably be an ISO 9000 accredited company or be familiar with ISO standards and make sure that they fulfil all their obligations towards meeting the ISO 9000 requirements.
- 1.6 The Inspection Agency should have a minimum of 5 years' experience in NDE related activities.
- 1.7 The NDE inspectors deployed by the Inspection Agency shall have minimum qualification of Diploma in Mechanical Engineering / Degree in Science or engineering and with certification in RT & MT Level II. They shall have a minimum of 3 years' experience in NDE related activities.
- 1.8 Necessary Transportation, Accommodation and other incidental charges for NDE activities at different locations have to be arranged by the respective Inspection agency.
- 1.9 The Inspection Agency shall have minimum FIVE or sufficiently more experienced NDE personnel with certification in RT & MT Level II to carry out NDT evaluation at Casting Supplier's works on day to day basis. The job shall not be delayed for NDE witness at any foundry works for more than a day or two. Calls not attended within two days will be viewed seriously and lead to imposition of penalty /cancellation of contract without further notice.

1.10 The MPI or radiography Film Evaluation agencies finalised based on this tender enquiry are supposed to execute this work on behalf of BHEL and hence those or their sister concerns which are engaged in taking radiography or MPI or Film evaluation on behalf of Vendors are not eligible for film evaluation on behalf of BHEL (based on this contract terms) for those respective vendors (as per Annexure-II). To facilitate this, it is proposed to award the work through contract process to two agencies in a ratio of 60:40.

2.0 SCOPE OF WORK:

2.1 Evaluation of radiography films of Valve castings as per ASME 16.34 and relevant BHEL procedures. Approximate RT films area may be around 8976 Sq. Metre for two years. Radiography work and initial evaluation of RT films are in the scope of casting supplier and the selected agency is expected to do independent film evaluation.

2.2 Witness of Magnetic Particle testing of Valve castings as per ASME 16.34 and relevant BHEL Procedures. Approximate casting surface area for MPI may be around 8817 Sq. Metre for two years. MPI equipment, consumables and required manpower for testing are in the scope of casting supplier. Inspection agency shall ensure use of BHEL approved consumables for all NDT.

2.3 The expected work load involves two or more visits per month per foundry for carrying out Non-destructive Evaluation. The Agency need to plan to visit foundries as detailed in Annexure-II, according to the job readiness and priority as per BHEL instruction. Annexure-II is only tentative casting suppliers list with in India as on date and it may get changed during the contract period according to BHEL PO. The Inspection Agency shall visit all newly added BHEL casting suppliers also with in India during the contract period. Above are only general guidelines and actual job readiness and NDE test frequency requirement may vary.

2.4 Inspection Agencies are expected to execute and provide quality services in a professional manner and their inspections shall be independent of inspections carried out by vendors.

2.5 The unit of measurement for the Quantum of work done is in Square Metre.

3.0 CONTRACT PERIOD:

3.1 The period of contract will be **two years** from the date of execution of Inspection contract.

3.2 The contract can be extended for further period based on mutual agreement between BHEL and inspection agency.

4.0 GENERAL GUIDELINES & INSTRUCTIONS TO BIDDERS FOR SUBMITTING OFFER is detailed in **Annexure III**.

5.0 INVOICE AND PAYMENT:

- 5.1 The Inspection Agency shall submit the detailed work completion report every month with supporting documents for verification of item wise Quantity as per BHEL PO No., PO Item No., Description, drawing number and area in Square Metre. In addition to invoice, the contract shall have to submit ESI & PF documents as applicable.
- 5.2 Invoices together with the work completion Report shall be submitted to BHEL once in a month and payment shall be made as per normal BHEL rules.
- 5.3 The Invoices shall be submitted to BHEL within one month but not exceeding three months from the date of inspection of the item, to avoid missing of invoices and making payment in time.

6.0 PERSONNEL WELFARE:

- 6.1 All Labour regulation laws like Provident Fund, ESI etc., applicable either existing or enacted in future shall be strictly complied with.
- 6.2 Safety, Provident fund, ESI, Insurance and all statutory requirements and BHEL safety rules and regulations shall be taken care by the Inspection Agency. BHEL shall not be held responsible for any injury or damage that is caused to the staff / property during the course of inspection or otherwise.

7.0 INCOME TAX:

- 7.1 Income tax, as applicable, will be deducted at source at the rate applicable in accordance with statutory guidelines. PAN Number to be furnished along with the offer.

**Signature with Seal of
Authorized signatory**

LIST OF CASTING VENDORS

Sl. No.	VENDOR NAME	PLACE
1	HINDUSTAN UDYOG	Calcutta
2	PEEKAY STEELS& ALLOYS	Calicut
3	THE K.C.P.LIMITED	Chennai
4	AUTOSHELL CASTS	Coimbatore
5	BALAJI SUPER ALLOYS	Coimbatore
6	COIMBATORE SUPER ALLOYS	Coimbatore
7	KOSO FLUID CONTROLS	Coimbatore
8	LRT Foundry	Coimbatore
9	YESCO CASTINGS PVT TLD	Coimbatore
10	SUNMARS STEEL INDIA PVT LTD	Coimbatore
11	SHREE HARIE STEEL & ALLOYS	Coimbatore
12	SHREE KUMARAN ALLOYS	Coimbatore
13	SRI PADMABALAJI STEELS	Coimbatore
14	SUEERAA ALLOYS GLOBAL	Coimbatore
15	ULTIMATE ALLOYS PVT LTD	Coimbatore
16	MADURA STEEL	Dindugul
17	NALVETHA CAST STEEL PVT LTD	Dindugul
18	VINAYAKA ELECTRO ALLOYS	Erode
19	ARUNA ALLOY STEELS	Madurai
20	JAYASWALS NECO LIMITED	Nagpur
21	RLS ALLOYS PVT. LTD.,	Trichy
22	S P B ALLOYS PVT LTD	Coimbatore
23	VENKATALAKSHMI ALLOY CASTINGS PVT LTD	Coimbatore

24	ATHI PARASAKTHI ALLOY STEELS PVT LTD	Coimbatore
25	SURYAPRAKAAS FOUNDRY	Coimbatore
26	SRI STEEL INDUSTRIES	Coimbatore
27	ISGEC HEAVY ENGINEERING PVT LTD	Muzaffarnagar, U.P
28	RATAN ENGINEERING CO.PVT LTD	New Delhi.
29	J R G FOUNDRIES	Bangalore
30	HARIHAR ALLOYS PVT LTD	Trichy

**Signature with Seal of
Authorized signatory**

GENERAL GUIDELINES & INSTRUCTIONS TO BIDDERS FOR SUBMITTING OFFER

Vendors are requested to read the following points / guidelines / instructions and ensure that the offer is prepared and submitted strictly as per the requirements. Offers with insufficient details would not be considered for evaluation. The following points / guidelines / instructions are part and parcel of the tender and non-compliance will result in rejection of offer.

1.0 QUOTATIONS for Valve Casting NDE Evaluation at Various Foundries.

Considering the nature of contract which requires a good amount of technical details, etc., to be submitted along with the offer as well as the confidentiality required to be maintained during the offer evaluation process, bidders are requested to submit their offers only through sealed bids. As the part II (the price bid) would not be opened before the Part I technical bid evaluation is completed, bidders are requested not to submit their bids through email / fax etc.

Bidders shall submit the offer in **TWO INNER ENVELOPES** as indicated below which shall be sealed in one outer envelope.

Envelope I This sealed envelope should contain Technical & Un-priced Commercial Bid with document evidence of 1) Organisation Chart; 2) Previous experience in NDE related activities. 3) Technical Bid Criteria duly filled & signed in as given in the enclosed **ANNEXURE-IV**, 4) Annual Turnover, Balance Sheet for the last 3 years and 5) EMD of Rs. 1,00,000/- as detailed. This envelope should be clearly marked **“Part I - Technical and Un-priced commercial bid”**, indicating Enquiry No., Valve Casting NDE Evaluation at Various Foundries, Due Date, Address and Reference of the Bidder.

Envelope II This sealed envelope should contain **price details**, duly filled and signed **Annexure V** in inspection agency letter head. This envelope should be clearly marked **“Part II - Price bid”**, indicating Enquiry No., Valve Casting NDE Evaluation at Various Foundries, Due Date, Address & Reference of the Bidder

Both the envelopes I & II shall be put in one cover, duly sealed, super scribing as Part I and Part II indicating Enquiry No., Valve Casting NDE Evaluation at Various Foundries, Due Date, Address & Reference of the Bidder.

The above tender (envelope containing Part I & II) should reach this office on or before the due date and time. Tenders received after due date and time will not be considered for evaluation.

Tender should not be addressed to any Individual's name but only by designation to:

**AGM / NDTL
Building No-1,
BHARAT HEAVY ELECTRICALS LIMITED
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI – 620 014
TAMIL NADU, INDIA**

Tenders should be free from **CORRECTION AND ERASURES**, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

Tenders should be in **ENGLISH** and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in **ENGLISH** or otherwise, the tenders will not be considered for evaluation.

BHEL reserves the right to reject any offer without assigning any reason and also enter into contract with more than one Inspection Agency by sharing each work centre depending upon the quantum of work.

If the past performance of a vendor in any of the previous Purchase orders/contracts/in any projects, of BHEL Units, and NON-BHEL, is not satisfactory BHEL then reserves the full right to reject such offers of those vendors straightaway irrespective of their suitability and will not be considered for further processing of the tender.

2.0 PART I (TECHNICAL & UN-PRICED COMMERCIAL BID)

2.1 Technical

This part shall include / indicate the following:

2.1.1	Tenders should contain complete scope of supply with all technical details, specifications and other commercial terms and conditions.
2.1.2	Point by point confirmation for the Technical Specification enclosed is to be provided. If there are any deviations, the same should be clearly specified. Tenders received without confirmation to our specification will be rejected.
2.1.3	The contract is for a period of two (2) years . Approximate quantum of Valve Casting NDE Evaluation for two years will be as per " Annexure V ". There may be a variation in the estimated value of contract depending upon the production plan variation that may arise then and there. BHEL does not guarantee for the quantum of work.
2.1.4	Inspection Agency have to ensure that his workmen are covered under PF, ESI and miscellaneous provisions act of 1952 and accordingly produce documents to BHEL management, the registration/ Enrolment number before awarding of contract work. As per the provisions, every employee employed in or in connection with the work of Factory or other establishment who has not become a member already shall also be entitled and required to become a member of the fund from the date he is employed by the contractor. The employee's contribution is as notified by the PF Authority from time-to-time. The employee's contribution will be recovered by the contractor from the wages of his workmen and the contractor should make equal contribution.

2.2	Un-Priced Commercial BID
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This part shall include / indicate the following:

2.2.1	The testing rates should be quoted as detailed in Scope of work.
2.2.2	Fixed price: Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order. A bid submitted with an adjustable price will be treated as non-responsive and rejected. Prices shall be written in words and figures. In the event of difference, the price written in words shall be valid and binding
2.2.3	The contractors are requested to offer 'QUOTATION' enclosing a crossed demand draft in favour of BHARAT HEAVY ELECTRICALS LIMITED for Rs.1,00,000/- (Rupees One Lakh only) towards Earnest Money deposit.

3.0	OPENING OF TENDERS
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The Part I - Technical & Un-priced commercial bid alone would be opened on the Tender opening date.

The Part II – The Part I would be evaluated and bidders qualifying alone will be considered for further processing. BHEL would proceed with Reverse Auction route or Price Bid opening route for finalizing the tender, which would be intimated to the qualified bidders after completion of the techno-commercial evaluation.

BHEL reserves the right to go for a Reverse Auction (RA) instead of Opening the Price Bid submitted, which will be decided after the techno-commercial evaluation. Information and general terms and conditions governing RA are given below.

GENERAL TERMS AND CONDITIONS OF RA

- Against this enquiry for the subject item/system with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING ON INTERNET.
- For the proposed RA, technically and commercially acceptable bidders only shall be eligible to participate.
- In case of RA, BHEL will engage the services of a service provider for conduct of the RA who will provide all necessary training and assistance to the bidders before commencement of on line bidding on internet.
- Business rules governing the RA will be communicated to the bidders through service provider for compliance.
- Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of RA. Without the compliance, the vendor will not be eligible to participate in the event.

- BHEL will provide a sample calculation sheet (in EXCEL format) which would help the bidders to arrive at “Net Cash outflow to BHEL” considering various price / cost elements like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) etc. for each of the bidders to enable them to arrive at “Net Cash outflow to BHEL” which is the amount the bidder would be bidding during the RA.
- RA will be conducted on scheduled date & time and at the end of event, the lowest bidder value will be known on the network.
- The lowest bidder has to Fax the duly signed “Price Break-up” in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.
- Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct further business with BHEL, as per the prevailing procedure.
- BHEL reserves the right to negotiate if need to be with the “L1” vendor of the Reverse Auction

4.0	GENERAL
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BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / Units.

BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL.

The correspondence exchanged against the tender between the bidder and BHEL through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business.

Any transaction / communication pertaining to the tender carried out by the bidder and BHEL round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

In case Letter of Intent (LoI) is issued through email, the computer generated time and date of mail shall be construed as the official time and date of release of LoI. In as much as this date is within the last date of validity given by the bidder the LoI is said to have been issued within the validity period and shall be binding on both the parties to the business.

Bidders participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer then it will be construed that the subject bidder is not under any such hold. But at a later date if it comes to the notice of BHEL about any such hold under enforcement on the subject bidder, BHEL will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalisation of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any ongoing enquiries even if participated till the hold is officially lifted and confirmed in writing.

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**Signature with Seal of
Authorized signatory**

PART I: TECHNICAL BID CRITERIA

Enquiry No.: BHEL: NDT: VALVE CASTINGS: 01

Date: 10.02.2015

Sl. No.	TECHNICAL BID CRITERIA
1	Quotation to be submitted in Two Parts in separate sealed covers. Part I – Technical & Commercial Bid and Part II – Price Bid.
2	An Earnest Money Deposit (EMD) amount of Rs.1,00,000/- (Rupees One Lakh Only) to be sent along with your Technical Bid offer.
3	ONLY SINGLE RATE for each category of work is valid uniformly for the entire contract period. No escalation of rate is admissible during the contract period. The rate quoted should be exclusive of service tax.
4	The Inspection Agency should have a minimum of 5 years' experience in NDE Inspection Related activities.
5	The NDE inspectors deployed by the Inspection Agency shall have minimum qualification of Diploma in Mechanical Engineering / Degree in Science or Engineering and with certification in RT & MT Level II. They shall have a minimum of 3 years' experience in NDE related activities.
6	BHEL may enter into contract with more than one Inspection Agency by sharing the work load depending upon the capability of mobilizing manpower by the Inspection agency and total quantum of work load and also to ensure independent inspection.
7	Visits shall be planned and attended based on inspection calls given by casting vendors directly or by BHEL.
8	The Agency need to plan to visit foundries as detailed in Annexure-II, according to the job readiness and priority as per BHEL instruction. Annexure-II is only tentative casting suppliers list with in India as on date and it may get changed during the contract period according to BHEL PO. The Inspection Agency shall visit all newly added BHEL casting suppliers also with in India during the contract period. Above are only general guidelines and actual job readiness and NDE test frequency requirement may vary.
9	In emergencies / exceptional cases, Inspectors posted by the Inspection agency have to provide the services at short notice, in extended working hours, Sundays, Holidays and in odd hours to the requirement of BHEL without any extra payment.
10	The Inspection Agency shall have adequate experienced ASNT level II qualified personnel to maintain the required strength of NDE Inspectors by suitable immediate substitute for the NDE Inspectors who resign / on long leave and the Inspection agency has to take all necessary steps to ensure the Inspection services without any obstruction or interruptions.

11	The period of contract will be two years from the date of execution of Inspection contract and can be extended for further period based on mutual agreement between BHEL and inspection agency.
12	Safety, Provident fund, ESI, Insurance and all statutory requirements and BHEL safety rules and regulations are to be taken care. BHEL is not responsible for any injury or damage that is caused to the staff during the course of inspection or otherwise
13	Payment for the accepted Invoices towards Inspection services will be paid within 45 days from the date of submission of the relevant accepted invoices.
14	<p>Audit Clause:</p> <ol style="list-style-type: none"> 1. To ensure correctness in NDT evaluation of RT films by the Inspection Agency, BHEL will conduct audit checks of evaluated films for proper evaluation as per written procedure / Codes 2. BHEL at random will identify few castings for re radiograph at Vendor's works / BHEL and will be checked for 100% matching with original supplied films. 3. Also MPI audit checks of castings will be carried out at Vendor's works by BHEL.
15	<p>Penal Clause: If any deviations are revealed in audit checks of RT & MPI, penal Charge of Rs. 10,000 will be imposed for each audit on the inspection agency in addition to the recovery of payment made for the wrong evaluation.</p>
16	No other pre conditions along with your offer will be entertained by BHEL.
17	<p>Approximate quantum of NDE work for two years will be as per Annexure –V. There may be a variation in the estimated quantum of contract depending upon the production plan</p> <p>Variation that may arise then and there. BHEL does not guarantee for the quantum of NDE work.</p>
18	The Inspection Agency shall submit the Technical Bid with document evidence of 1)Organisation Chart, 2)Previous experience in NDE inspection related activities 3)Technical Bid Criteria duly filled & signed 4) Annual Turnover, Balance Sheet for the last 3 years etc.,

Encl: Supporting document proofs for all above Technical bid requirements shall be attached along with this annexure duly signed in Part I technical bid inner Envelope.

All the above Technical Bid Criteria are acceptable.

**Signature with Seal of
Authorized signatory**

Enquiry No. BHEL: NDT : VALVE CASTINGS: 01 dated 10-02-2015

PART – II: PRICE BID

Sl. No.	NDE Testing	Approximate Work for Two Years	Rate per Square metre in Rupees
1	Evaluation of radiography films of Valve castings	8,976 Sq. Metre	
2	Witness of Magnetic Particle testing of Valve castings	8,817 Sq. Metre	

The Quoted rates are exclusive of service taxes and duties. For Service Tax, Service Tax Registration Number is required.

**Signature with Seal of
Authorized signatory**

- **Note:** The above details shall be submitted in Letter Head by Quoting the Rate