

Name of work: Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing.

NIT No: BHEL/HEEP/WEX-WCS/18-19/6520/20180057 DT 29.06.2018



Bharat Heavy Electricals Limited
Heavy Electrical Equipment Plant, Haridwar-249403
Works Engineering & Services
Works Contract Section

Tender Document

Name of Work: "Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing".

Tender Enquiry No.: BHEL/HEEP/WEX-WCS/18-19/6520/20180057 DT 29.06.2018

Due date of Tender Opening: 31.07.2018

Type of Bid: Two Part

Place of Submission of Tender / Bid:

***Tender Room, Purchase Deptt., 4th floor,
Main Administrative Building, HEEP
BHEL Haridwar-249403 (Uttarakhand)***

Contact Person: Manish Kumar, Dy. Manager

Contact Address: WCS, ADM-4, BHEL (HEEP), Haridwar-249403

Email: omanish@bhel.in, ppaul@bhel.in, azadd@bhel.in,

Phone: 01334-28-1932/1332/1022

Fax: 01334-226460

Document downloaded from www.bhel.com/www.bhelhwr.co.in

Note: All corrigenda / addenda / amendments / time extensions / clarifications, etc. to the tender will be hosted on our website i.e. www.bhel.com/www.bhelhwr.co.in only and will not be published in any other media. Bidders should regularly visit above website to keep themselves updated.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

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Details of Tender Document

The Tender document has been detailed as follows:

Part-I (TECHNO-COMMERCIAL BID)

1. Notice Inviting Tender (NIT) –Annexure-I
2. Details of Bid & Bidder (To be filled by bidder) –Annexure-II
3. General Instructions to Tenderer–Annexure-III
4. General Terms & Conditions of Tender-Annexure-IV
5. Pre-Qualification Requirements (PQR) –Annexure-V
6. Special terms & conditions –Annexure-VI
7. Technical Terms & Conditions –Annexure-VII
8. Un-price Price Bid
9. Check List and Schedule of general particular- Annexure-VIII
10. Annexure-IX (MSME)
11. Acceptance/ No Deviation Certificate - Annexure-X

Part-II (PRICE BID)

1. Price Bid

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Annexure-I



NOTICE FOR TENDER (NIT)

BHARAT HEAVY ELECTRICAL LIMITED
HEEP, Haridwar-249403 (UTTARAKHAND)

Name of Dept	Works Engineering & Services (Works Contract Section)		
Phone	01334-281932	Fax	01334-226460
Email Address	omanish@bhel.in, ppaul@bhel.in, azadd@bhel.in,		
Contact Person	Manish Kumar		
NIT Key.	20180057	Dated	29.06.2018
NIT No.	BHEL/HEEP/WEX-WCS/18-19/6520/20180057 DT 29.06.2018		
NIT No. on www.bhel.com			
NIT No. on www.bhelhwr.co.in			
Type Of Tender	Open		
#Tender Cost (in INR)	500 (Inclusive of Taxes) & NIL for tender downloaded from website		
EMD (in INR)	28212		
Period of completion of work	12 Months		
Two Part Bid /single bid	Two Part Bid		
NIT Value (in Rs.)	Rs 1410570/- (GST extra)		
Last Date of Sale of Tender	30.07.2018	Time :	03:30PM
Last Date of submission of Tender	31.07.2018	Time :	01:45PM
* Date and Time for opening of Technical Bid	31.07.2018	Time :	02:00PM
Place Of submission of Tender	Tender Room, Purchase Deptt., 4th floor, Main Administrative Building, BHEL , HEEP, Haridwar-249403 (Uttarakhand)		

* In case of two part bid, date of opening of Tender means the date of opening of Techno-commercial bid. However date of opening of price bid shall be intimated to technically qualified parties. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working Tuesday/Friday.

Tender cost & EMD shall be submitted either in form of cash receipt issued by cash section, BHEL, HEEP, Haridwar (subject to provision of Income tax act) or Demand draft issued by any nationalised bank in favour of Sr. Accounts Officer (Cash), BHEL, HEEP, Haridwar separately in two different envelopes superscribed as Tender cost and EMD respectively. However Tender cost is non-refundable **Tender fee & EMD shall be exempted subject to submission of valid MSME/EM-II/NSIC Certificate (duly notarized or attested by a Gazetted officer) and Tender Fee shall be exempted for tender documents downloaded from website.**

Name of Work: “Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing”

Contracting Executive Name: Manish Kumar

Date:

1. BHEL reserves the right to accept or reject any/ all application(s) without assigning any reason thereof.
2. If any document submitted by tenderer found false at any stage, the tender/ work order will be cancelled immediately and the financial loss to BHEL if any in making alternative arrangement will be recovered from the contractor.
3. BHEL will not be responsible for the loss or delay of tenders in transit in any case.
4. All further corrigenda, addenda, amendments, time extensions, clarifications & etc. to the tender, if any shall only be notified on BHEL websites (www.bhel.com / www.bhelhwr.co.in) as applicable.
5. For detailed instructions/information refer the tender document on BHEL website.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Details of Bid & Bidder (To be filled by bidder)

(a) Bidder Offer No.: _____ Date: _____

(b) Legal Name of the bidder as in GST registration: _____

(c) GST registration No. _____

(d) State _____

(e) Place of business _____

(f) Category of registration under GST (i.e. Registered dealer / Unregistered dealer/ dealer opted for Composition Scheme):

(g) Address of the Bidder: _____

(h) Email Id and Contact No. of the Bidder: _____

(i) PAN No. Of Bidder (A copy of PAN Card to be submitted):

(j) PF Code (PF Certificate copy if applicable or undertaking of non-applicability to be submitted):

(k) ESI Code (ESI Certificate copy if applicable or undertaking of non-applicability to be submitted):

I/We agree with the above

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General Instructions to Tenderer

The Contractors who wish to participate should **go through the Tender documents thoroughly** and plan well before quoting, to ensure that the Tender process is not aborted / vitiated, due to their reasons.

1.0 Quoting & Signing the Tender

- a. Before Quoting the tenderers are advised to inspect the site of work and its environments and be well acquainted with the actual working and other relevant conditions, position of materials and labor. Tenderers are also requested to go through General -Terms & conditions, Special -Terms & conditions of tender, Scope of work, Technical Terms & Conditions, drawings and specifications and all other documents which form part of the agreement to be entered into.
- b. While quoting the rate, the tenderer is advised to take into account the likely expenditure, taxes what so ever, etc. during the operation of the Contract period from the date of commencement of work as directed by BHEL.
- c. While quoting the rates the tenderer is advised to take into account all factors including any fluctuations in market rates. No claim will be entertained on this account after acceptance of the tender or during the execution of the contract.
- d. All entries in Tender documents shall be clearly written in one ink or typed. All the corrections / cancellations / insertions, if any, shall be duly attested by the Bidders concerned.
- e. Rates should be quoted as per the Price Bid. Rates quoted in any other form will not be accepted and will be rejected.
 - a) If, in the price structure quoted for the required goods / services / works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
 - b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of e(a) and e(b) above.
 - d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.
- f. The Bidder shall fill in all the required particulars of the Tender documents and also sign & Stamp on each and every page of the Tender documents (Techno-Commercial Bid, Price Bids, Terms & Conditions etc.) including corrigendum & the drawing attached there to while submitting their tender.
- g. Should a Bidder find discrepancies or omissions in the Tender documents or should there any doubt as to their meaning, he should at once address the authority inviting the Tender, for clarification well before the due date, so as to submit his Tender in time.
- h. Every endeavor is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk

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or any error which may be subsequently discovered and shall make no subsequent claim on account thereof.

- i. Tenders not in accordance with the Tender conditions herein contained and the Tenders not in original ARE LIABLE TO BE REJECTED
- j. If a Bidder deliberately gives wrong information in his Tender or creates conditions favorable for the acceptance of his Tender, BHEL WILL REJECT SUCH TENDER AT ANY STAGE.
- k. Words imparting singular number shall be deemed to include plural number and vice-versa where the context so requires.
- l. Canvassing in any form, in connection with the Tender is strictly prohibited and such Tenders are bound to be rejected. All information furnished is taken to be authentic by the bidder for evaluation of Tender priorities. Should any information found to be incorrect subsequently, at any later stage, the Tender / Contract shall be rejected / terminated and the / action as per BHEL Policy, rules & prevailing Guidelines shall be taken.
- m. Should a Bidder's or a Contractor's or in the case of a firm or company of Contractors / any of its shareholder's or shareholder's relative is employed in BHEL Haridwar, the authority inviting the Tenders shall be informed in writing of this fact at the time of submission of the Tender, failing which the Tender may be disqualified, or if such fact subsequently comes to light, the Contract may be cancelled.
- n. The Tender schedule and the Tender shall be deemed to form an integral part of the Contract to be entered into for this work.
- o. Tenders are to be submitted in **Tender Room, Purchase Deptt., 4th floor , Main Administrative Building, BHEL, HEEP, Haridwar-249403 (Uttarakhand)** upto 01:45 PM on the date of tender opening. BHEL will not be responsible for any consequences that may arise leading to delay in submission of tender/bid.
- p. Late and Delayed Tenders shall be rejected.
- q. In case of Limited Tender Enquiry if you are not interested to submit the offer, please send a letter specifying the same.
- r. Price bid should not be enclosed along with the techno commercial bid and other documents in the same cover/envelope. The price bids have to be given category wise in a sealed cover and the entire lot of price bid sealed covers will have to be kept in a separate large cover, duly sealed.
ALL THE REQUIRED DOCUMENTS SHALL BE FILLED IN THE SAME SERIAL ORDER AS PER THE FORMAT / COLUMN OF THE "TECHNO-COMMERCIAL BID". ALL THE PAGES SHALL BE SERIALY NUMBERED ON THE RIGHT HAND SIDE TOP CORNER. PAGE NUMBERS AND DETAILS OF THE CONCERNED DOCUMENTS ALSO SHALL BE FILLED IN "TECHNO- COMMERCIAL BID" IN THE BOXES PROVIDED. ALL THE PAGES OF TENDER DOCUMENTS ARE TO BE DULY SIGNED AND STAMPED BY THE BIDDER.
- s. All the envelopes shall be super-scribed with Name of work, NIT No. & Date of Tender Opening with the Name & Complete address of the bidder.
- t. The envelope Containing Price Bid shall additionally be super-scribed as "PRICE BID" and the envelope containing Techno-commercial bid shall be additionally super-scribed with "TECHNO-COMMERCIAL BID"
- u. Tender Fees & EMD or Proof related to exemption as required as per Terms & Conditions of Tender shall be kept in Techno-commercial bid envelope.
- v. ***The contractor must ink sign and stamp on each page of tender document including supporting documents submitted with tender.***
- w. The annual maintenance and service contract shall be governed as per the BHEL Works policy, Rules & General conditions of the contract.

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- x. Bidders shall enclose the certificate of satisfactory performance, from previous customer in the Techno-Commercial Bid envelope, along-with the tender documents in support of their claim of having minimum experience of similar works.
- y. Vendor shall ensure meeting all statutory obligations as applicable during the contract period.
- z. Deviation from any of the specified requirements should be clearly brought out on a separate sheet titled as deviation. In case of no deviation a "**NO DEVIATION STATEMENT**" shall be submitted with the tender (Techno-commercial offer).

2.0 Signing the Tender

- a. The Tender shall be signed by the Authorized Signatory Only.
- b. Authorized signatory shall be the Proprietor.
- c. In case the Bidder is a Partnership Firm under Partnership Act, the Tender shall be signed by all the Partners of the firm or by Partner having authority to sign on behalf of all other partners. Copy of the authority should be enclosed.
- d. In case the Bidder is a company, authorized signatory of the company. Copy of the authority will have to be enclosed.
- e. In case of Power of Attorney (POA).A copy of the Power of Attorney, duly attested by the issuer shall accompany the tender.
- f. If the POA is revoked during the existence of the contract, it shall be the responsibility of the of the issuer to inform the same to BHEL. The issuer shall remain bound by the acts committed under the POA till the date of such information to BHEL.

3.0 Date / Time for opening of Tender

- a. Sealed covers so received will be opened at **Tender Room, Purchase Deptt., 4th floor, Main Administrative Building, BHEL, HEEP, Haridwar-249403 (Uttarakhand)** at 02:00 PM on the same day of due date of tender submission as per NIT (Notice inviting Tender) in the presence of the Bidders or their Authorised Representatives who may choose to witness the same.
- b. The Techno Commercial bids only will be opened in case of two part bid.
- c. In case of two part bid, **The Price BIDS** of bidders, who are technically qualified will be opened later. The date & time of price bid opening will be informed to the technically qualified Bidders.

4.0 Witnessing the Tender opening

- a. The representative of the Bidder may choose to witness the Tender opening and have to produce the Authorization Letter in the tender room, before opening of the Tender. The representatives without Authorization Letter will not be allowed to participate in the Tender opening.
- b. Only one representative from one bidder will be allowed to participate in the Tender opening.

5.0 Quoting

- a. Quoting best rate and the sanctity of the L1 status.
- b. Quoting the lowest best rate is a must against this Tender. However, bidders are required to understand that the lowest rate offered by them or accepted by them, as the case may be, should be honoured throughout the period of the Contract.

6.0 Participation

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The Parties who have been suspended or black listed or banned by BHEL HEEP, Haridwar or any other BHEL Unit will not be allowed to participate in **the Tender** and the bidder should declare the same in the Tender. Even during the course of evaluation / finalization of Tender if it is found that some of the parties are black listed / barred from business transactions / under business hold, BHEL will reject their offer.

7.0 Validity of Offers:

The rates quoted shall be valid for acceptance for a minimum period of 120 days from the date of tender opening. Withdrawal of Tender or increasing the rates during this validity period is not allowed. Date of tender opening shall be date of opening of Techno-commercial bid.

8.0 Address for sending the offer:

The offer should be sent to address as below well in advance so that it reaches before or on due date and time through registered post or in person.

In charge, Tender Room, Purchase Deptt., 4th floor, Main Administrative Building, BHEL, HEEP, Haridwar-249403 (Uttarakhand).

Note:

- 1. In case of any ambiguity between any clause of “General Terms & Conditions” and “Special Terms & Conditions, Scope of Work, Technical Terms & Conditions and Bill of Quantity” the clause of “Special Terms & Conditions, Scope of Work, Technical Terms & Conditions and Bill of Quantity” shall prevail.**

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General Terms & Conditions of Tender

1. Definitions

In these general conditions of contract the following terms shall have the meaning hereby assigned to them except where the context otherwise requires:-

- (a) "**THE CONTRACT**" shall mean the notice inviting the tender and acceptance thereof and the formal agreement if any, executed between the Bharat Heavy Electricals Ltd., Heavy Electrical Equipment Plant, Haridwar and the contractor together with the documents referred to there in including these conditions, and any special conditions, specifications, designs, drawings etc. All these documents taken shall be deemed to form one contract and shall be complementary to one another.
- (b) The "**TENDER DOCUMENT**" means the form of tender as applicable with General and Special Conditions of contract, and the specifications and/or drawings as given to contractors for the purpose of preparing their tender including "Notice Inviting Tender".
- (c) The "**WORK**" means the work described in the tender documents in individual work order and/ or accompanying drawings and specifications as may be issued from time to time to the contractor by the Engineer-In-Charge in writing the power conferred upon them, including all modifications or additional works and obligations to be carried out either at the site or in factory, workshop or any other place as may be essentially required for the performance of the work.
- (d) The "**SITE**" means the land and/ or other place on into or through which the work is to be executed under the contract or any adjacent land, part or structure which may be allotted to or used for the purpose of carrying out the contract.
- (e) The "**CONTRACTOR**" shall mean the individual of firm or company whether incorporated or not, undertaking the work and shall include legal representatives of such individual or persons composing such firm or incorporated company or successors of such person, firms or company as the case may be and permitted assignee of such individual or firm or company.
- (f) The abbreviations" Engr/Sr. Engineer / Dy.Mgr/ Mgr./ Sr.Mgr/ DGM/ Sr.DGM" means Engineer/ Senior Engineer/ Deputy Manager/ Manager/ Senior Manager/ Deputy General Manager/ Sr.Dy.General Manager respectively who will direct the contract.
- (g) The "**ENGINEER-IN-CHARGE**" means the Engineer/ Sr.Engineer or any other executive deputed by BHEL to supervise the work or part of the work on behalf of the First Party.
- (h) Accepting authority: As per BHEL Delegation of Power
- (i) "**APPROVED**" means the approval of directions of the Engineer/ Sr.Engineer or any other executive or person deputed by them for the particular purpose.

BHEL means the Bharat Heavy Electricals Limited/ HEEP plant of the said Company at Ranipur, Hardwar.

- (j) The "**CONTRACT SUM**" means the sum accepted or the sum calculated in accordance with the prices accepted in tender and/ or the Contract rate as applicable to the contractor for the entire execution and full completion of the work.
- (k) The "**FINAL SUM**" means the actual amount payable under the contract by BHEL to the contractor for the entire execution and full completion of the work.

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- (l) The "**TIME OF COMPLETION**" is the date or dates for completion of the work or any part of the work as set out in or ascertained in accordance with the individual work or the tender documents or any subsequent amendments thereto.
- (m) A "**WEEK**" means seven days without regard to the number of hours worked in any day in that week.
- (n) A "**DAY**" shall mean a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day.
- (o) A "**WORK DAY**" means day other than that prescribed by the Negotiable Instruments Act, as being a holiday and consists of the number of hours of labour as commonly recognized by good employers in the trade, in the district where the work is carried out or as laid in the BHEL Rules and Regulations.
- (p) "**DEVIATION ORDER**" means any order given by the Engineer-In-Charge to effect an alteration, addition or deduction, which does not radically affect the scope and nature of the contract.
- (q) "**EMERGENCY WORK**" means any urgent measures which in the opinion of the Engineer-In-Charge become necessary during the progress of the work to obviate any risk of accident or failure or which become necessary for security.
- (r) "**PROVISIONAL SUM**" or "**PROVISIONAL LUMP SUM**" means a lump sum included by the BHEL in the work for which details are not available at the time of inviting tender.
- (s) "**PROVISIONAL ITEMS**" means items for which approximate quantities have been included in the tender documents.

2. Earnest Money Deposit

- (a) Vendor is required to deposit the EMD as specified in NIT.
- (b) EMD shall not carry any interest.
- (c) Modes of deposit:
The EMD may be accepted only in the following forms:
 - (i) Cash deposit as permissible under the extant Income Tax Act (before tender opening)
 - (ii) Electronic Fund Transfer credited in BHEL account (before tender opening)
 - (iii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer)

In case total EMD amount is more than Rs. 20 Lakh, the amount in excess of Rs. 20 lakh may be accepted in the form of Bank Guarantee from scheduled bank. The Bank Guarantee in such cases shall be valid for at least six months.

- (d) Forfeiture of EMD
EMD by the Tenderer will be forfeited as per NIT conditions, if:
 - i) After opening the tender and within the offer validity period, the tenderer revokes his tender or makes any modification in his tender which is not acceptable to BHEL.
 - ii) The Contractor fails to deposit the required Security deposit or commence the work within the period as per LOI/ Contract.
- (e) EMD by the tenderer shall be withheld in case any action on the tenderer is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under these guidelines.
- (f) EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of award of work.
- (g) EMD of successful tenderer will be retained as part of Security Deposit.

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- (h) EMD deposited in any modes other than specified at (c) above shall lead to cancellation of the offer.

3. Security Deposit

- (a) Successful vendor shall require to deposit security. The total amount of Security Deposit will be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.
- (b) Modes of deposit:
The balance amount to make up the required Security Deposit of 5% of the contract value may be accepted in the following forms:
- i) Cash (as permissible under the extant Income Tax Act)
 - ii) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL
 - iii) Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL
 - iv) Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)
 - v) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL)
- (c) BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)
- (d) The Security Deposit shall not carry any interest.
- (e) The additional condition of Security Deposit (If any) shall be specified in Special Terms & Conditions of tender.
- (f) Refund of Security Deposit**
After completion of work awarded, provided always that the contractor shall first have been paid final bill and have rendered a "No Demand" certificate, the security deposit mentioned in condition above shall be refunded to the contractor as follows: *100% shall be released within 3 months of satisfactory completion of the work duly verified by Site/Engineer-In-charge.*

4. Commercial Terms

- Prices shall be quoted on "Firm Price" basis only.
- Validity of offer shall be for a minimum period of 120 days from the date of Tender Opening.

5. Special Conditions for MSME:

"MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at Annexure -IX where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their, bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above

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required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer.”

6. Arbitration

All disputes between the parties to the contract arising out of or relating to the contractor other than those for which the decision of the Engineer-In-charge / Accepting Officer or any other person is by the contract expressed to be final and conclusive, shall after written notice by either party to the contract, the other party be referred to the sole arbitration of DGM/Sr. Manager or any other officer of BHEL in his sole discretion unless the parties otherwise agree, such reference shall not take place until after the completion, alleged completion or abandonment of the work or the determination of the contract. The venue of arbitration proceedings will be at Hardwar. The arbitrator shall have the power to extend, from time to time, the time for making his award with the consent of the parties. The award of the Arbitrator shall be final, conclusive and binding on both the parties to the contract. Any matter arising out of or in connection with the agreement shall be under jurisdiction of Hardwar court. The Administrative Head of HEEP Unit of BHEL, Hardwar, shall appoint the Arbitrator. No person other than a person so appointed shall act as Arbitrator.

7. Risk Purchase Clause

In case of delays in supplies / defective supplies or non-fulfilment of any other terms & conditions given in the work order the purchaser/contracting executive may cancel the work order in full or part thereof and may also make the purchase of the material / service from elsewhere / alternative source at the risk and cost of supplier. Vendor/Contractor does not agree to above clause, their offer is liable to be rejected. In case any vendor/contractor accepts risk purchase clause initially and subsequently declines to honour the term in the eventuality of RISK PURCHASE, they may be banned for business with BHEL.”

8. Fraud Prevention Policy

The Bidder along with its associate / collaborators / sub – vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about fraud or suspected fraud as soon as it comes to their notice”.

Fraud Prevention policy and List of Nodal Officers shall be hosted on BHEL website, vendor portals of Units / Regions intranet.

9. Suspension of Business Dealings with Suppliers/Contractors

Penal action can be initiated on the suppliers / Contractors in line with extant "Guidelines for Suspension of Business Dealings with Suppliers / Contractors". The abridged version of extant 'Guidelines for suspension of business dealings with suppliers / contractors' has been uploaded on <http://www.bhel.com> on "supplier registration page”.

10. Adoption of Integrity Pact

BHEL is committed to fostering the most ethical and corruption free environment and values its relationship with all Bidders, Contractors and Carriers. Conducting business in a transparent, fair and corruption free manner will go in a long way in making the Bidders and Contractors our partners in progress and to reinforce this belief. BHEL has already signed a memorandum of understanding with Transparency India International on adoption of Integrity Pact for all Major Tenders / Contracts. Integrity Pact first promoted by Transparency

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India International, an NGO, is a tool to ensure that activities and transactions between a company or government department and its Bidders / Contractors are handled in a fair, transparent and corruption free manner.

11. Damage & Loss to Private Property & Injury to Contract Employee

The Contractor shall at his own expense reinstate and make good to the satisfaction of BHEL and pay compensation for any injury, loss or damage occurred to any property or rights whatever including property and rights of BHEL (or agents) servants or employee of BHEL, the injury loss or damage arising out of or in any way in connection with the execution or purported execution of the Contract and further the Contractor shall indemnify, the BHEL against all claims enforceable against BHEL (or any agent, servant or employee of BHEL) or which would be so enforceable against BHEL where BHEL is a private person, in respect of any such injury (including injury resulting in death) loss or damage to any person whomsoever or property including all claims which may arise under the Workmen's Compensation Act or otherwise.

12. Rates shall be quoted in figures as well as in words and contractor must put his signature & Seal on each page of the tender documents / undertakings, while submitting his offer, failing of which tender may be liable for rejection.
13. BHEL reserves the right to cancel the tender at any stage of tendering till signing of agreement without assigning any reason(s) thereof. The tender cost in that event shall not be refunded.
14. The contractor shall not employ any worker less than 18 years of age during execution of his work.
15. In case more than one contractor quotes L1 rates, the work may be awarded through draw of lottery.
16. The work shall be governed by the specifications, general terms & conditions of BHEL contract, special conditions, tender terms, environment related conditions, safety clause and any other relevant conditions applicable time to time.
17. The contractors are advised to see the site before quoting the rates.
18. BHEL reserves the right to award only a fraction or part of the work given in the bill of quantity.
19. Contractor found or reported for non-compliance of the legal obligations during the execution of the contract, shall be debarred from the issue of NITs for at least 01 year or till the proof of compliance is produced.
20. L1 may also be decided based on Reverse Auctioning based on the discretion of BHEL.
21. BHEL does not bind themselves to accept the lowest tender or any tender or to give any reason for their decision.
22. Contractor shall ensure all the safety provisions for the execution of the work awarded. It shall provide all the necessary PPE's (until & unless specified clearly about the issue of any PPE by BHEL in Special or any other Conditions of tender) to his workmen or any individual deployed by him for execution of the work and ensure usage of the same.
23. In order to protect the commercial interests of BHEL, it becomes necessary to take action against suppliers / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business / money / reputation, indulged in malpractices, cheating, bribery, fraud or any other misconducts or formation of cartel so as to influence the bidding process or influence the price etc. Guide- lines for Suspension of Business Dealings with Suppliers / Contractors shall prevail over which is available at BHEL website <http://www.bhel.com>.

24. GST related Terms & Conditions:

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Name of work: Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing.

NIT No: BHEL/HEEP/WEX-WCS/18-19/6520/20180057 DT 29.06.2018

Bidder has to specify the following in their techno-commercial bid (part I bid in case of two part bid):

I.

- a) Legal Name of the bidder as in GST registration, GST registration No., State, Place of business, category of registration under GST i.e. Registered dealer / Unregistered dealer/ dealer opted for Composition Scheme,
- b) HSN (*Harmonised System Nomenclature*) / SAC (*Service Accounting Code*), description of Goods/Services and applicable IGST / CGST / SGST rate and any other statutory levy, if any, for each item of Goods or Services.

II. a) Unregistered Dealer

Since in case of unregistered dealer, GST will have to be paid by BHEL under reverse charge mechanism, the same shall be added to the quoted price for evaluation bid.

b) Dealer opting for Composition Scheme

In case of registered dealer, who opt for composition scheme at the time of submission of bid, no GST will be payable to the bidder and also same will not be considered for evaluation of bid. Dealer has to declare in technical bid that no GST is shown separately in price bid. However, in case at the time of actual supply, the bidder charges GST at normal rate, the same shall be reimbursed subject to the availability of GST credit to BHEL. In case GST credit is not available to BHEL, no GST will be payable to the bidder.

III. Reimbursement of GST shall be made by BHEL-Haridwar on matching of Contractor inputs as mentioned below at GST portal and after ensuring of availability of input credit to BHEL, Haridwar. Hence, Contractor has to ensure compliance as follows-

- a) Timely raising & submission of GST compliant Invoices
- b) Timely receipt of Goods & Services
- c) Timely and correct payment of applicable GST by supplier/contractor
- d) Timely filing of return
- e) Compliance of other applicable provisions on supplier/contractor

Contractor has to also give consent to accept payment of tax after such matching in all cases where bills are submitted directly to BHEL-Haridwar or through bank or under LC or through any other mode.

IV. In the event of any disallowance of input credit (including reversal of credit) or applicability of interest or arising of any other financial liability on BHEL-Haridwar due to any default of supplier/contractor under GST such as non/delayed receipt of Good/Services, delayed raising & submission of invoices, delayed payment of tax, non/wrong declaration of sale by Contractor in return etc. or any other reason not attributable to BHEL, such implication shall be to supplier's/contractor's account and will be deducted from bills.

V. In the event of any change in the status of the bidder after submission of the bid but before the supply/service, GST applicable at the time of supply/service or GST quoted in the bid, based on the registration status of the bidder, whichever is lower shall be payable.

VI. Statutory Variation in Taxes & duties as applicable at the time of supply shall be payable. However, in the event of no change in law but bidder quoting certain tax structure in bid document which is lower than the applicable one, such amount shall be the maximum amount of tax that can be claimed by bidder.

VII. In case of Liquidated damage (LD) recovery, the applicable GST shall also be recoverable from the suppliers.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

25. Special Powers of Termination:

If at any time after the acceptance of the tender, BHEL shall for any reason whatsoever not require the whole or any part of the work, to be carried out, the Engineer In charge shall give notice in writing of the fact to the contractor, who shall have no claim to any payment of compensation or otherwise, howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the foreclosing of the work.

The contractor shall be paid at contract rates for the full amount of the work executed including such additional work i.e., cleaning of site etc. as may be rendered necessary by the said foreclosing. He shall also be allowed a reasonable payment (as decided by the Accepting Officer) for any expenses sustained on account of labour and material collected but which could not be utilized on the work as verified by the Engineer In charge but the contractor shall not have any claim for compensation on account of any alterations having been made in the original specifications, drawings, designs and instructions involving and curtailment of the work as originally contemplated.

Information about Condition related to Payment of GST to Contractors/Vendors for invoices raised upto 31/03/2018.

GST related Terms & Conditions of General Terms & Conditions of Tender States that

“Reimbursement of GST shall be made by BHEL-Haridwar on matching of Contractor inputs as mentioned below at GST portal and after ensuring of availability of input credit to BHEL, Haridwar. Hence, Contractor has to ensure compliance as follows-

- a) Timely raising & submission of GST compliant Invoices
- b) Timely receipt of Goods & Services
- c) Timely and correct payment of applicable GST by supplier/contractor
- d) Timely filing of return
- e) Compliance of other applicable provisions on supplier/contractor

Contractor has to also give consent to accept payment of tax after such matching in all cases where bills are submitted directly to BHEL-Haridwar or through bank or under LC or through any other mode.”

Now the date of filing returns has been extended/relaxed by GOI upto 31/03/2018. Therefore now it is not mandatory to file returns immediately and ITC has been allowed on self-declaration. In view of the changed scenario, the decision has been taken that the payment of GST shall be made to the contractors simultaneously with their work/services invoices. The Contractors / vendors shall submit the undertaking as per the following format before such GST payments.

This provision shall be applicable for all GST invoices raised upto 31/03/18 and situation shall be reviewed thereafter based on GOI circulars prevailing at that time.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Certificate of Goods and Service to be furnished by Contractor with each bill / invoice

We hereby undertake that:

1. Goods and Service Tax charged in the following Invoices / Bill Numbers are in compliance with the provision of GST Act & Rules prevailing thereon:

Sl.No	PO No / Work Order	Invoice No	Invoice date	GST Amount

2. Goods and Service Tax charged in the Bill / Invoice shall be paid by us within due time.
3. Any liability due to any delay / default in payment of GST, return filling or any other NON-compliance under GST Law / Rules, shall be to our account.
4. In the event of any non-compliance on our part, we indemnify BHEL for any financial burden / loss on account of GST / interest / penalty.
5. We give our consent to BHEL to recover any such financial burden if arises on BHEL due to any non-compliance from any outstanding bills. In the event of Nil outstanding, same shall be paid by us to BHEL.
6. In the event of any such default, we agree BHEL to pay all future GST reimbursement after verification of GST compliance under the law.
7. We understand that this arrangement shall be valid till the credit of Input Tax Credit (ITC) is available without online validation or further amendment if any affecting admissibility of ITC to BHEL.

Signature of Authorized Signatory (with seal)

GST No:

I/We agree with the above

Signature of Bidder/Contractor with Stamp

PRE QUALIFICATION CRITERIA

Sl. No.	Criteria	Confirm (YES/NO)	Details:
1.	Average annual turnover for the last three financial years ending 31 st March, 2017 should be at least Rs. 4,23,171. Copy of Audited Balance sheet and Profit & loss account for last three financial years has to be furnished by the vendor along with the offer.		Turnover (in lacs) 1. FY16-17 ----- 2. FY15-16----- 3. FY14-15----- 4. Average-----
2(i)	<p>Experience of having successfully executed similar Radiography Testing and Ultrasonic Testing work in the previous seven years ending last day of month previous to the one in which the applications are invited should be either of the following:</p> <p>a) One similar Radiography Testing and Ultrasonic Testing work having contract value of at least Rs. 11,28,456.</p> <p style="text-align: center;">OR</p> <p>b) Two similar Radiography Testing and Ultrasonic Testing works each having contract value of at least Rs. 7,05,285.</p> <p style="text-align: center;">OR</p> <p>c) Three similar Radiography Testing and Ultrasonic Testing works each having contract value of at least Rs. 5,64,228.</p> <p>In case the work executed by the contractor with reference to Clause 2(i) above is for Radiography testing only then, to qualify, experience of having successfully executed similar Ultrasonic Testing in the previous seven years ending last day of month previous to the one in which the applications are invited should be either of the following:</p>	<p>a)</p> <p style="text-align: center;">OR</p> <p>b)</p> <p style="text-align: center;">OR</p> <p>c)</p>	<p>a)FY----- Contract value-----</p> <p style="text-align: center;">OR</p> <p>b)FY 1----- 2----- Contract value 1----- 2-----</p> <p style="text-align: center;">OR</p> <p>c)FY 1----- 2----- 3----- Contract value 1----- 2----- 3-----</p> <p>a)FY-----</p>

I/We agree with the above

Signature of Bidder/Contractor with Stamp

2(ii)	<p>a) One similar Ultrasonic Testing work having contract value of at least Rs.3,52,800.</p> <p style="text-align: center;">OR</p> <p>b) Two similar Ultrasonic Testing work each having contract value of at least Rs. 2,20,500.</p> <p style="text-align: center;">OR</p> <p>c) Three similar Ultrasonic Testing works each having contract value of at least Rs. 1,76,400.</p>		<p>Contract value-----</p> <p>OR</p> <p>b)FY</p> <p>1-----</p> <p>2-----</p> <p>Contract value</p> <p>1-----</p> <p>2-----</p> <p>OR</p> <p>c)FY</p> <p>1-----</p> <p>2-----</p> <p>3-----</p> <p>Contract value</p> <p>1-----</p> <p>2-----</p> <p>3-----</p>
3.	The vendor will submit the documentary evidence such as Purchase Order / Work Order copies etc. clearly mentioning the scope of work, contract value and completion date/year with reference to clause 2.		
4.	The vendor will submit the performance certificate(s) from at least one customer regarding satisfactory completion of work as per clause 2. Performance certificate shall include Customer's details such as Name of contact person/Designation, Address, Telephone No./email ID etc.		
5.	<p><u>Qualified NDT Personnel:</u></p> <p>a) The vendor shall have at least one BARC RT Level-II qualified person who can perform as Site Incharge. In addition to this the vendor shall have at least one more RT-Level-II person qualified from BARC/ ISNT/ ASNT/ other similar institutions.</p> <p>b) For Ultrasonic Testing the vendor shall have at least two UT Level-II qualified personnel from ISNT/ ASNT/ other similar institutions.</p> <p>c) A copy of NDT Qualification certificate for the personnel as per Clause 5(a) and 5(b) above is also to be submitted.</p>		

Note: BHEL reserves the right to verify the information provided by the vendor with the vendor's customers directly.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

SPECIAL TERMS AND CONDITIONS

1. In the present contract 1140000 sq.cm. of area for X-Ray radiographs and 399000 sq.cm. of area for Gamma Ray radiographs are proposed to be subcontracted. For the same rates are to be offered in terms of Rs. per square cm of accepted radiograph for X-Ray and Rs. per square cm of accepted radiograph for Gammagraphy. In Ultrasonic testing 4200 metres of weld length is proposed to be subcontracted. For the same rates are to be offered in terms of Rs. per metre of tested weld length. Rates for X-Ray, Gammagraphy and Ultrasonic Testing are to be offered only in the sealed Price Bid. Apart from the same rates are **not** to be mentioned anywhere else in the offer.
2. Total quantum of work may vary up to -20% on the lesser side and upto +20% on the higher side than the quantity mentioned in the clause 1 above.
3. In actual working large proportion of X-Ray and Gammagraphy radiographs have 190 square cm. area (i.e.size19 cm X 10 cm). However area of actual X-Ray and Gammagraphy radiographs may also be different from the same depending upon the job requirements. Area of the accepted radiograph (is square cm.) multiplied by unit rate in Rs. Per square cm. (for X-Ray and Gammagraphy respectively) will be the criteria for payment for the radiograph.
4. BHEL reserves the right to extend the contract for one more year with mutual consent. The same will be done depending upon the satisfactory performance of the contractor during the contract period.
5. **Quotations of only those parties will be accepted who submit offer for both Radiography (X-Ray & Gammagraphy) and Ultrasonic testing work. Total cost for X-Ray, Gammagraphy and Ultrasonic testing offered by the party will be added up and the same will be taken as the criteria for award of work. If the bidder does not quote against any of testing work, his/her offer will be summarily rejected.**
6. The decision of BHEL regarding interpretation of any of the terms and conditions set forth in this NIT shall be final and binding to the contractor.

7. Payment Terms:

- a) The contractor will submit bills, for the testing work completed during the period, in triplicate, Payment shall be made every three months depending upon the quantum of satisfactorily completed work against the bills raised by the contractor in the same period. Bill prepared by the contractor must contain GST registration number and PAN number.
- b) GST extra as applicable.
- c) The payment will be made in e-payment mode. For the same the successful tenderer will submit his bank details on the prescribed format duly verified by the bank.
- d) All payment will be subject to Tax Deduction at Source (TDS) as per extant rules.
- e) No separate equipment or unit charge / unit mobilization charge / personnel stay charge or any other charge shall be applicable for X-Ray, Gammagraphy (Iridium-192) or Ultrasonic Testing. If the rates are quoted by the party in any form other than as specified in Price Bid, the offer of the party will not be considered. The rate must be firm and without any escalation clauses for the entire period of contract.
- f) If commencement of testing work (on offered radiographic testing job or ultrasonic testing job) is delayed beyond 24 hours of offer of jobs by BHEL, penalty @ 0.2 % (per delay) of the total contract value shall be deducted from respective quarterly bill. Total penalty during the contract period shall be maximum 5% of total contract value.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

TECHNICAL TERMS AND CONDITIONS

1.0 SCOPE:

1.1 This specification describes Technical requirements to be fulfilled by outside NDT agency, who provide testing facilities inside plant.

2.0 GENERAL REQUIREMENTS:

- 2.1 Radiography Testing and Ultrasonic testing shall be performed as per the applicable national / international / B.H.E.L. standards / B.H.E.L. Procedures. Contractor's testing personnel deputed at BHEL shall be capable of interpreting the same and carrying out the testing work accordingly.
- 2.2 It will be the responsibility of the contractor to maintain required equipment and accessories in proper calibrated state.
- 2.3 Calibration and reference blocks shall be available with the contractor wherever required.
- 2.4 The contractor will reach our works alongwith the testing equipment and start performing Radiography (X-Ray & Gammagraphy) and Ultrasonic testing work within 14 days of award of the contract.
- 2.5 The contractor has to ensure that he will be able to attend assigned Radiography (X-Ray & Gammagraphy) and Ultrasonic testing jobs in reasonable time and in no case it should be more than 24 hours.
- 2.6 The contractor shall deploy adequate equipment and qualified RT and UT manpower to ensure uninterrupted execution of testing work allotted to him. He/She shall be able to promptly arrange additional equipment and manpower at BHEL works, whenever required to cater the excess workload or in case of any operational problem in his NDT equipment.
- 2.7 The contractor will be required to operate inside BHEL premises. The NDT workload may vary with the variation in the production activities during the year.
- 2.8 The operator may be required to work in day and night shift for the completion of work.
- 2.9 RT and UT qualified personnel with minimum two years working experience will be accepted for deputation at BHEL, Haridwar for testing work.

3.0 SPECIAL CONDITIONS FOR RADIOGRAPHY(X-RAY AND GAMMAGRAPHY):

- 3.1 In Radiography, our workload include mainly fabricated assemblies of carbon steel, alloy steel, stainless steel, inconel etc. Type of weld joints tested by radiography are butt welds / inclined butt welds / corner welds / nozzle welds / T-joints etc. Piping assemblies constitute a sizable amount of our X-ray workload. Sometimes castings, forging or machined components are also required to be radiographed. Jobs are required to be tested by X-Ray (using X-Ray machine) or Gamma Ray (using Iridium-192 source). Normally radiography of jobs with wall thickness upto 20 mm is to be done with X-Ray and radiography of jobs with wall thickness more than 20 mm is to be done by using Gamma Ray (using Iridium-192 source).
- 3.2 **The contractor shall maintain at least one X-Ray machine and one Gammagraphy (Iridium 192) source at our works during the period of the contract.** The X-ray machine will be of minimum 250KV rating and will be able to effectively radiograph the thickness range mentioned for X-ray jobs in clause 3.1 above.
- 3.3 At least one Radiography Site Incharge (BARC RT-Level-II) person will be deputed by the contractor at our site. Radiography testing (X-ray and Gammagraphy) shall be performed by minimum RT Level-I qualified personnel. Radiography evaluation and decision making shall be done by minimum RT Level-II qualified personnel from ASNT/ ISNT/ BARC or other similar agency.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Name of work: Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing.

NIT No: BHEL/HEEP/WEX-WCS/18-19/6520/20180057 DT 29.06.2018

- 3.4 Noncompliance to any of the clauses of the applicable standard or code shall result in the rejection of the radiograph and the contractor will be required to re-radiograph (reshot) at his own cost. Re-radiography level shall be maintained below 5%, as it delays the completion of work. BHEL reserves the right to cancel the contract if the rejection and re-radiography is frequently more than 5%.
- 3.5 BHEL will provide AERB approved Radiography enclosure for performing radiography work. A dark room will also be provided to the contractor (without consumables). In few cases radiography may also be required to be done outside the enclosure in the shop during no occupancy time.
- 3.6 During radiography operation, one responsible contractor person qualified as Site Incharge (BARC RT level-II) will be available for supervision of work and shall be answerable to BHEL for the job execution and performance output.
- 3.7 Radiation safety of contractor's employees inside the factory shall be the responsibility of contractor solely. He shall also be responsible for other safety related aspects for his personnel.
- 3.8 The contractor shall arrange AERB permission for movement of his radiation source to our works. All safety requirements laid down by AERB shall be strictly complied by the contractor's personnel. Adequate number of radiation safety and monitoring equipment shall be available with the testing personnel.
- 3.9 All consumables i.e. radiographic films, screens, cassettes, lead sheets, film wrappers, illuminator, cello tapes, lead letters, film processing chemicals etc. shall be arranged by the contractor.
- 3.10 Radiographic films of brand **Agfa / Kodak / Fuji** or equivalent shall be used. Films of above brands cut and packaged in India are also acceptable. Film processing chemicals compatible to the above films shall be used. The above items shall be used well within the shelf life of the respective item. Timely procurement of films and their proper storage shall be contractor's responsibility.
- 3.11 Radiography shall be performed as per the technique specified in the applicable radiography standard. The radiograph shall be treated as acceptable if it meets the density, sensitivity and other requirements specified in the applicable specification.
- 3.12 For the **X-Ray(using X-Ray machine) and Gammagraphy (using Iridium-192 source)** the quoted rates shall include :
 - a) Taking X-Ray or Gammagraphy exposure as per NDT Laboratory approved procedure, BHEL, national or international code or standard.
 - b) Processing of exposed films and marking of identification details on film wrapper.
 - c) Evaluation of radiographs as per applicable standards/ Codes/ Specifications.
 - d) Maintaining record of receipt and completion of offered requisitions.
 - e) Preparation of evaluation reports on BHEL performa.
 - f) Getting the radiographs and reports cross evaluated by BHEL NDT personnel.
 - g) Marker pen / paint marking of radiographic reference numbers, segment numbers etc. on the job. Marking of defective region on the weld with appropriate colour paint / marker pen.
 - h) Returning the radiographs to NDT Lab alongwith concerned radiography reports.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

4.0 SPECIAL CONDITIONS FOR ULTRASONIC TESTING OF WELDS:

- 4.1 Ultrasonic Testing (UT) workload mainly consists of carrying out UT on weld joints and weld edges (prior to welding) in fabricated assemblies and castings used in power plant equipment.
- 4.2 In welds UT is carried out mainly on **butt welds / inclined butt welds / corner welds / nozzle welds / T-joints etc.** having section thickness from 10 mm to approximately 300 mm.
- 4.3 Ultrasonic Testing of welds in our products normally require sensitivity setting using **Flat Bottom Hole (FBH)** as the reference reflector. Flat Bottom Hole test block, DGS scales / DGS diagrams may be used for the same.
- 4.4 **At least one analog or digital type pulse echo, A-Scan equipment, capable of being operated on rechargeable batteries, shall be maintained by the contractor at our works for use in testing.** Prior to first use satisfactory screen height linearity and amplitude control linearity of the equipment (as per ASME Section V) shall be demonstrated to NDT Laboratory. The test system should show adequate resolution, sensitivity and precision for the testing as per the applicable NDT procedure / specification / code. During working the same shall be verified at least once in every three months.
- 4.5 The contractor shall ensure and confirm availability of equipment - Ultrasonic flaw detector, machine charger, probes, cables, standard (IIW and Miniature) calibration blocks (also called V1 and V2 standard test blocks), DGS scales / DGS diagrams for the probes used etc. all in good working condition. Non availability / break-down of any of the above equipment / accessories shall not be accepted as the cause for stoppage of work.
- 4.6 Butt welds, inclined butt welds, nozzle welds will require ultrasonic testing as per applicable BHEL specification. These weld joints may require ultrasonic testing by using one or more angle beam probes as per the applicable specification. Ultrasonic testing by normal beam probe/twin crystal probe may also be required in flush ground butt welds, nozzle welds, weld edges etc.
- 4.7 Qualified NDT personnel having at least **UT Level-II** qualification from ASNT / ISNT or from other similar institution shall be employed to perform / evaluate the testing. Besides this the operators should have practical experience in performing Ultrasonic Testing on the similar type of jobs using DGS scale / DGS diagrams. They should be able to carry out the test independently as per BHEL NDT procedures / specifications, national or international standards. They should be able to prepare test report in the BHEL formats.
- 4.8 As per the requirement of BHEL Quality Plan applicable for the project, ultrasonic testing may be required to be got witnessed by external customers like NTPC, LLOYDS, RITES, QUEST, NPC etc., wherever required. Availability of external customers shall be arranged by BHEL for witnessing of ultrasonic testing.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Name of work: Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing.

NIT No: BHEL/HEEP/WEX-WCS/18-19/6520/20180057 DT 29.06.2018

- 4.9 It is required that high degree of accuracy and precision is maintained in the testing operations. BHEL NDT Laboratory person may verify the test results reported by the contractor. In case of major discrepancies or adverse feed-back is received from external customers, BHEL reserves the right to cancel the contract.
- 4.10 The contractor should arrange the couplant-oil, grease, etc. and possess necessary accessories such as spare battery packs, cables, probes, standard calibration blocks, etc. which are required for uninterrupted testing operations. The angle beam probes shall be preferably "built in wedge type" (e.g. GE make WB / MWB series probes or equivalent).
- 4.11 The copy of the procedures by which tests shall be conducted will be issued by NDT to sub-contractor. The procedures should be returned to BHEL once the contract is over. The contractor is prohibited in making the copy and using the same elsewhere.
- 4.12 The contractor should have at least following probes/ test blocks/ cables in his possession. If the tenderer is not having any particular probe, he will give undertaking to arrange the same before start of the work:

SL.NO.	TYPE	REMARK
1.	IIW calibration block (V1 block)	
2.	Miniature test block (V2 block)	
3.	Normal beam probe 2 MHz 24 mm Φ	Matching cable required.
4.	Normal Beam probe 2 MHz 10 mm Φ	-do-
5.	Normal beam probe 4 MHz 24 mm Φ	-do-
6.	Normal beam probe 4 MHz 10 mm Φ	-do-
7.	TR probe 4 MHz 21 mm Φ	-do-
8.	TR probe 4 MHz 10 mm Φ	-do-
9.	Angle beam probe 2 MHz 45° 8X9 mm	-do-
10.	Angle beam probe 2 MHz 60° 8X9 mm	-do-
11.	Angle beam probe 2 MHz 70° 8X9 mm	-do-
12.	Angle beam probe 4 MHz 45° 8X9 mm	-do-
13.	Angle beam probe 4 MHz 60° 8X9 mm	-do-
14.	Angle beam probe 4 MHz 70° 8X9 mm	-do-

4.13 For the ultrasonic testing the quoted rate shall include:

- a) Conducting ultrasonic testing as per NDT Laboratory approved procedure, BHEL, national or international code / specification.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Name of work: Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing.

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- b) Recording the observations as per applicable specifications.
- c) Evaluation of the indications as per applicable procedure / specification.
- d) Preparation of testing report on the BHEL format.
- e) Maintaining record of receipt and completion of offered requisitions.
- f) Getting the results / reports cross evaluated by NDT personnel of BHEL or by customer's representative if required as per BHEL Quality Plan.
- g) Marking of defective region on the weld with appropriate colour paint/ marker pen.
- h) Submission of test reports to BHEL.

5.0 DETAILS OF EQUIPMENT/ACCESSORIES AVAILABLE WITH THE FIRM:

1	2	3	4	5
Equipment/ accessories	Make/Model	Rating	Quantity	Remarks
RADIOGRAPHY TESTING				
X-Ray Equipment (minimum rating 250 KV)				
Gammagraphy Equipment (Iridium-192)				
Radiation Surveymeter				
IQI	Confirm (YES/NO)			
Film Brand used (Agfa, Kodak, Fuji)	Confirm (YES/NO)			
Lead screen, cassettes, lead markers, adhesive tape, film developing chemicals etc.	Confirm (YES/NO)			
ULTRASONIC TESTING				
Ultrasonic Flaw Detector(s)				
Probes with matching cables availability as per Clause 4.12 of Annexure-VII of Tender document is to be mentioned.	Confirm (YES/NO)			
IIW standard calibration blocks V1 and V2	Confirm (YES/NO)			
Others				

NOTE: Copy of supporting documents may be added, wherever required.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Name of work: Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing.

NIT No: BHBL/HEEP/WEX-WCS/18-19/6520/20180057 DT 29.06.2018

UPRICED PRICE BID

Not to be filled except rate of GST

Name of Work: “Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing”.

Period of Completion: 12 months

Date of Opening of Techno-commercial Bid (PART-1):31.07.2018

Earnest Money: Rs. 28212/-

Estimated Cost: Rs. 14,10,570 +GST Extra

Sl. No.	Description of work	Unit of measurement	Quoted Rate (Per unit)
1	Radiography Testing using X-Ray machine inclusive of equipment, consumable and manpower.	Rs. Per Sq.Cm. of accepted radiograph	In figures: X X X X X In Words: X X X X X
2	Radiography Testing using Iridium-192 gamma ray isotope (Gammagraphy) inclusive of equipment, consumable and manpower.	Rs. Per Sq.Cm. of accepted radiograph	In figures: X X X X X In Words: X X X X X
3	Ultrasonic testing of welds inclusive of equipment, consumable and manpower.	Rs. Per metre of tested weld length	In figures: X X X X X In Words: X X X X X
4	GST	GST Rate (%)	

Note:

Only GST Rate to be mentioned in Un-priced Bid.

I/We have read the Terms and Conditions and Contractual Obligation of contract as per the Techno-commercial Bid under this NIT and undertake to fulfill all its requirements under the quoted rates.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

CHECKLIST AND SCHEDULE OF GENERAL PARTICULARS

NOTE : - Bidder shall fill in the following details and no column should be left blank.

Sl. No.	Description	Vendor to Clarify	Page No. of Tender Doc.
1.	Name & Address of the Bidder	YES/NO	
2.	Email Address / Fax No. Phone nos.	YES/NO	
3.	Submission of signed and stamped copy of "NIT Annexure-I".	YES/NO	
4.	Details of Bid and Bidder (Annexure-II) duly filled up, signed and submitted.	YES/NO	
5.	Submission of signed and stamped copy of General Instructions to Tenderer (Annexure-III)	YES/NO	
6.	Submission of signed and stamped copy General Terms & Conditions of Tender (Annexure-IV)	YES/NO	
7.	Pre-Qualification Criteria (Annexure-V) duly filled up, signed and submitted.	YES/NO	
8.	Submission of signed and stamped copy Special Terms & Conditions of Tender (Annexure-VI)	YES/NO	
9.	Submission of signed and stamped copy of "Technical Terms and Conditions-Annexure-VII".	YES/NO	
10.	Duly filled up and signed "Details of equipment and accessories available with the firm" (Clause 5.0 of Annexure-VII) with annexure where needed.	YES/NO	
11.	Tender cost submitted (By cash receipt). Pl. give details. #Not required if tender is directly downloaded from the website.	YES/NO	
12.	EMD submitted (Rs 28,212/- By Cash receipt / bank draft). Pl. give details.	YES/NO	
13.	Submission of copy of supporting documents, i.e.: a) PAN card b) GSTIN certificate c) PF Certificate (if applicable) or Undertaking for non-applicability of the same. d) ESI Certificate (if applicable) or Undertaking for non-applicability of the same. e) Copy of audited Balance Sheet and Profit & Loss account for the last three financial years. f) RT and UT work Purchase Order / Work Order copies for similar work g) Performance Certificate from customer(s). h) RT/ UT qualified personnel qualification certificates	YES/NO	
14.	Submission of Part-II (Price bid) in a separate sealed envelope.	YES/NO	

The above list consists of minimum documents to be submitted alongwith the offer. Other relevant document, if any, may also be submitted alongwith the Techno commercial offer

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Certificate by Chartered Accountant on letter head
(only for those who are submitting EM-II Certificate)

This is to Certify that M/S
(hereinafter referred to as 'company') having its registered office at
..... is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part-11)
dtd:....., Category:..... (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial year as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost **excluding land and building and the items specified by the Ministry of Small Scale Industries vide its** notification No.S.O.1722(E) dated October 5, 2006 :

Rs.....Lacs

2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and **furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:**

Rs.....Lacs

(Strike off whichever is not applicable)

The above investment of Rs.....Lacs is within permissible limit of
Rs.....Lacs forMicro / Small (Strike off which is not
applicable) Category under MSMED Act 2006.

Or

The company has been graduated from its original category {Micro/ Small} (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O.No.3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name-

Membership number-

Seal of Chartered Accountant

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Name of work: Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing.

NIT No: BHEL/HEEP/WEX-WCS/18-19/6520/20180057 DT 29.06.2018

Annexure-X

Acceptance/ No Deviation Certificate

Notwithstanding anything mentioned in our bid, we hereby accept all terms and conditions of the above tender. Or we hereby accept all terms and conditions of the above tender except the following: (Give reference to Clause Nos. of Terms & Conditions which is not acceptable)

- 1.
- 2.

Note: Any deviation specified elsewhere in the tender shall not be considered. Deviations may or may not be accepted by BHEL.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Name of work: Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing.

NIT No: BHBL/HEEP/WEX-WCS/18-19/6520/20180057 DT 29.06.2018

PRICE BID – PART-II

Name of Work: “Radiography Testing (X-ray and Gammagraphy) and Ultrasonic testing”

Period of Completion: 12 months

Date of Opening of Techno-commercial Bid (PART-1):31.07.2018

Earnest Money: Rs. 28212/-

Estimated Cost: Rs. 14,10,570 +GST Extra

Sl. No.	Description of work	Unit of measurement	Quoted Rate (Per unit)
1	Radiography Testing using X-Ray machine inclusive of equipment, consumable and manpower.	Rs. Per Sq.Cm. of accepted radiograph	In figures:..... In Words:.....
2	Radiography Testing using Iridium-192 gamma ray isotope (Gammagraphy) inclusive of equipment, consumable and manpower.	Rs. Per Sq.Cm. of accepted radiograph	In figures:..... In Words:.....
3	Ultrasonic testing of welds inclusive of equipment, consumable and manpower.	Rs. Per metre of tested weld length	In figures:..... In Words:.....
4	GST	GST Rate (%)	

Note:

1. Rate should be quoted in figures as well as in words. No cutting / Over Writing is allowed in rates. In case of contradiction between percent quoted in figure and Words, the same mentioned in Words will prevail.
 2. Total cost for X-Ray, Gammagraphy and Ultrasonic testing offered by the party will be added up and the same will be taken as the criteria for award of work.
- I/We have the read the Terms and Conditions and Contractual Obligation of contract as per the Techno-commercial Bid under this NIT and undertake to fulfill all its requirement under the quoted rates.

I/We agree with the above

Signature of Bidder/Contractor with Stamp