



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/20-21/6520/20200026 DT.30.06.2020
Due date of Tender Opening: 24.07.2020
Type of Bid: Two Part

Place of Submission of Tender / Bid:

Through email : tendercell.heep@bhel.in

Or

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

1. Manish Kumar, Dy. Manager(WEX-WCS)
Contact Address: WCS, ADM-4, BHEL (HEEP), Haridwar-249403
Email: omanish@bhel.in; ppaul@bhel.in
Phone: +91-1334-281932; Fax: +91-1334-226460
2. Tenzin Norsang, DGM (WEX-WCS)
Contact Address: WCS, ADM-4, BHEL (HEEP), Haridwar-249403
Email: tenzin_n@bhel.in
Phone: +91-1334-281176; Fax: +91-1334-226460

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 to the tender will be hosted on our website i.e. www.bhel.com/www.bhelhwr.co.in only and will not be published in any other media.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

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

I/We agree with the above

Signature of Bidder/Contractor with Stamp

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 ; tenzin_n@bhel.in ; ppaul@bhel.in ;		
Contact Person	Manish Kumar		
NIT Key.	20200026	Dated	30.06.2020
NIT No.	BHEL/HEEP/WEX-WCS/20-21/6520/20200026 DT.30.06.2020		
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)	Rs. 23,366/-		
Period of completion of work	12 Months		
Two Part Bid /single bid	Two Part Bid		
NIT Value (in Rs.)	Rs. 11,68,290/- + GST extra as applicable		
Last Date of Sale of Tender	23.07.2020	Time :	03:30PM
Last Date of submission of Tender	24.07.2020	Time :	01:45PM
* Date and Time for opening of Technical Bid	24.07.2020	Time :	02:00PM
Place Of submission of Tender	Through email: tendercell.heep@bhel.in Or 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 (self-attested with stamped) 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

Annexure-II

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

Signature of Bidder/Contractor with Stamp

General Instructions to Tenderer (Annexure-III)

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 environment 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 are part of tender will 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 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 is liable to 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 therein 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 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.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

- 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 the Tender. Should any information be found incorrect subsequently, at any later stage, the Tender / Contract shall be rejected / terminated and 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 be 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 SERIALLY 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.
- 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 and /or provide all documents as per PQR criteria.
- 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.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

- 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

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 first/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).

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Submission of E-mail bids:

1. Bidders may also submit tenders/bids through email from their official email id on tendercell.heep@bhel.in . Tenders/bids submitted through email should be in pdf format with separate password protection for both techno-commercial bid and price bid. The attached file name shall carry NIT/ Enquiry number and super scribed with techno-commercial Bid and Price Bid so that both bids can be separately identified before opening. The date and time of Price Bid opening will be informed to the technically qualified bidders normally two days before date of price bid opening. Bidder is required to share the password for opening of techno-commercial bid/ price bid through email on tendercell.heep@bhel.in after 01:45 PM (IST) on the opening date of Techno-commercial bid/ price bid. Bidder to share the relevant bid opening password only. However, if no password is received up to 04:00 PM (IST) bids will not be opened and shall be ignored.

BHEL will not be responsible for any consequences that may arise due to submission of wrong password by the bidder.

Bidder submitting offer through email shall be super scribed as per subject below:

- a. Tender Enquiry Reference no. (NIT no.) _____
 - b. Bid opening date (Part 1, Techno commercial) _____
2. Bid submission through email will be considered as consent to open the bid without physically witnessing the event.
 3. Bidders may submit EMD and tender fee through Electronic Fund Transfer credited in BHEL account (before time/ date of tender opening i.e. 01:45 PM (IST) on the scheduled date and attach receipt of online transaction along with the techno-commercial bid. BHEL account details are as below:

NAME: BHEL HEEP COLECCION A/C

ADDRESS: RANIPUR, HARIDWAR

ACCOUNT NO. : 10667995458

IFSC CODE: SBIN0000586

Note: -

1. In case of any ambiguity/discrepancy 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.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

General Terms & Conditions of Tender(GTC) (Annexure-IV)

1. GENERAL

These general terms & conditions shall apply to all the Tender Enquiries, notice inviting tenders, request for quotations concerning the works/services contracts pertaining to Bharat Heavy Electricals Ltd., HEEP, Haridwar (hereinafter referred to as BHEL or the Purchaser). In case of placement of order these conditions will become part of Work Order (W.O.) until unless the deviations are specifically agreed by BHEL.

2. 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, Haridwar.
- (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.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

- (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.

3. 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)
 - (iv) Fixed Deposit Receipt (FDR) 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)
In addition to above, the EMD amount in excess of Rs. Two Lakh may also 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.
- (h) EMD deposited in any modes other than specified at (c) above shall lead to cancellation of the offer.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

4. 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.

5. 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.

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

UAM need not required to be notarized or attested.

7. SETTLEMENT OF DISPUTES/ARBITRATION

I/We agree with the above

Signature of Bidder/Contractor with Stamp

In all cases of dispute, the matter shall be referred for ARBITRATION by sole arbitrator to be appointed by the Unit Head of Bharat Heavy Electricals Ltd., at HARIDWAR. The award of the Arbitrator shall be final and binding on both the parties. The place of Arbitration shall be Haridwar.

JURIDICTION: The courts of Haridwar, India, shall have exclusive jurisdiction.

8. 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.”

9. FORCE MAJEURE CLAUSE

Notwithstanding any other thing contained anywhere else in the contract or WO (Work Order), In case the discharge of obligation under the contract by either party is impeded or made unreasonably onerous, neither party shall be considered in breach of the contract to the extent that performance of their respective obligation is prevented by an event of Force Majeure that arises after the effective date (WO date). In the above clause, Force Majeure means an event beyond the control of the parties to the contract which prevents a party from complying with any obligation of the contract including but not limited to:

- a) Act of God (Such as but not limited to earthquake, drought, tidal waves, floods etc.).
- b) War (whether war be declared or not), Hostilities Invasion, Act of foreign enemy etc.
- c) Rebellion, revolution, insurrection, civil war etc.
- d) Contamination of Radio Activity from any nuclear fuel or from any other nuclear waste or any other hazardous materials.
- e) Riots, commotions, strike unless restricted to the employees of supplier.
- f) Acts of terrorism.
- g) Other unforeseeable circumstances beyond the control of the parties and which the affected party cannot avoid even by using its best efforts.
- h) Cancellation of contract by customer.
- i) Change in law / government. Regulation making the performance impossible.

The party claiming to be affected by force majeure shall notify the other party in writing immediately without delay on the intervention and on the cessation of such circumstances.

Irrespective of any extension of time, if an event of force majeure occurs and its effect continues for more than 180 days the affected party shall have right to cancel the contract.

As soon as reasonably practicable following the date of commencement of a Force Majeure Event, and within a reasonable time following the date of termination of a Force Majeure Event, either Party invoking it shall submit to the other Party reasonable proof of the nature of the Force Majeure Event and of its effect upon the performance of the Party's obligations under this Agreement.

The party shall, and shall ensure that its Subcontractors shall, at all times take all reasonable steps within their respective powers and consistent with Good Operating Practices (but without incurring unreasonable additional costs) to:

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- a) Prevent Force Majeure Events affecting the performance of the party's obligations under this Agreement.
- b) Mitigate the effect of any Force Majeure Event.
- c) Comply with its obligations under this Agreement.

If the war like situation has developed in a country where a seller's works is located in this W.O. or there is political instability and Indian Embassy located in that country forbids or advises for not having any business dealing with the sellers located in such zone / region/ country, then BHEL reserves the right to cancel the order.

10. 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.

11. SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/CONTRACTORS

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. 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”.

12. IMPLEMENTATION OF INTEGRITY PACT (IP)

Bidders shall submit Integrity Pact (IP), duly signed by its authorized signatory who signs in the offer, along with their techno-commercial bids wherever estimated tender value is Rs. 5 Crore or more. This pact shall be considered as a preliminary qualification for further participation.

12A. INTEGRITY PACT (IP)

i). IP is a tool to ensure that activities and transactions between the Company and its Bidders /Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitor (IEM) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

SI No	IEM	Email
1	Shri Arun Chandra Verma, IPS (Retd.)	acverma1@gmail.com
2	Shri Virendra Bahadur Singh, IPS (Retd.)	vbsinghips@gmail.com

ii). The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

iii). Please refer Section-8 of the IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the above IEM. All correspondence with the IEM shall be done through email only.

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Note: No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department’s officials whose contact details are mentioned on the first page of tender documents.

13. 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.

14. RIGHT OF ACCEPTANCE

- a) BHARAT HEAVY ELECTRICALS LIMITED HARIDWAR reserves the right to reject any or all the bids / quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges.
- b) Any discount /revised offer / bids submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer / bid submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders.
- c) Unsolicited discounts / revised offers / bids given after Part-1 bid opening shall not be accepted. No change in price will be permitted within the validity period asked for in the tender enquiry.
- d) In case of changes in scope and / or technical specification and / or commercial terms & conditions having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for then the latest price bid shall prevail. However, in both situations, original price bid will be necessarily opened.
- e) The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening.
- f) BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage.

15. PRICE SCHEDULE

- a) Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 status.
- b) Applicable IGST / CGST / SGST and any other statutory levy should be indicated separately and clearly in the bid / quotation

NB: Financial evaluation of L1, L2Status will be on the basis of Landed Cost to BHEL.

16. GST RELATED TERMS & CONDITIONS

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, I/We agree with the above

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- 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.
- VIII. As per the extant GST rules, as of now it is not mandatory to file returns immediately and ITC has been allowed on self-declaration. In view of the changed scenario, the payment of GST shall made to the contractors simultaneously with their work/services invoices. The Contractors / vendors shall need to submit the undertaking as per the following format before such GST payments. However in case the availability of ITC on self-declaration is discontinued at the time of submission of invoice then the clause II above shall be applicable.

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:

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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:

- IX. The provisional GST registration number of Bharat Heavy Electrical Ltd, Heavy Electricals Equipment Plant, Ranipur, Haridwar is “05AAACB4146P1ZL” with state Code as “05” and State Name as “Uttarakhand”.

17. 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.

18. PUBLIC PROCUREMENT PREFERENCE TO MAKE IN INDIA, ORDER 2017

For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018 & 29.05.2019 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/ PO/WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable.

19. OVERWRITING IN PRICE BIDS

Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else shall be liable for rejection.

20. GENERAL NOTES

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- a. 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.
- ~~b.~~ 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.
- c. The contractor shall not employ any worker less than 18 years of age during execution of his work.
- d. In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders.
In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss / draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s).
Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding."
- e. 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.
- f. The contractors are advised to see the site before quoting the rates.
- g. BHEL reserves the right to award only a fraction or part of the work given in the bill of quantity.
- h. 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.
- i. L1 may also be decided based on Reverse Auctioning based on the discretion of BHEL.
- j. BHEL does not bind themselves to accept the lowest tender or any tender or to give any reason for their decision.
- k. 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.

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Annexure-V

PRE QUALIFICATION CRITERIA

Sl. No.	Criteria	Confirm (YES/NO)	Details:
1.	Average annual turnover for the last three financial years ending 31 st March, 2019 should be at least Rs. 3,50,487. 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. FY18-19 ----- 2. FY17-18----- 3. FY16-17----- 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. 9,34,632.</p> <p align="center">OR</p> <p>b) Two similar Radiography Testing and Ultrasonic Testing works each having contract value of at least Rs. 5,84,145.</p> <p align="center">OR</p> <p>c) Three similar Radiography Testing and Ultrasonic Testing works each having contract value of at least Rs. 4,67,316.</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) One similar Ultrasonic Testing work having contract value of at least Rs.4,62,672.</p> <p align="center">OR</p>	<p>a)</p> <p align="center">OR</p> <p>b)</p> <p align="center">OR</p> <p>c)</p>	<p>a)FY----- Contract value-----</p> <p align="center">OR</p> <p>b)FY 1----- 2----- Contract value 1----- 2-----</p> <p align="center">OR</p> <p>c)FY 1----- 2----- 3----- Contract value 1----- 2----- 3-----</p> <p>a)FY----- Contract value-----</p> <p align="center">OR</p>

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2(ii))	<p>b) Two similar Ultrasonic Testing work each having contract value of at least Rs. 2,89,170.</p> <p align="center">OR</p> <p>c) Three similar Ultrasonic Testing works each having contract value of at least Rs. 2,31,336.</p>		<p>b)FY 1----- 2----- Contract value 1----- 2----- OR c)FY 1----- 2----- 3----- Contract value 1----- 2----- 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/RT-Level-I person qualified from BARC/ ISNT/ ASNT/ other similar institutions.</p> <p>b) For Ultrasonic Testing the vendor shall have at least one 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.

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Annexure-VI

SPECIAL TERMS AND CONDITIONS

1. In the present contract 570000 sq.cm. of area for X-Ray radiographs and 285000 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 5100 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.size 19 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 (in 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) **(Penalty Clause).** - 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.

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Annexure-VII

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 & Gammaography) 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 & Gammaography) 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).

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- 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.
- 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

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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 Gammaography (using Iridium-192 source)** the quoted rates shall include :

- a) Taking X-Ray or Gammaography 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.

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.

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- 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.

I/We agree with the above

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- 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.
- 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-

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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.
- 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				

I/We agree with the above

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(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

Unpriced Price Bid

Only GST rate to be filled. However, this is to be signed and submitted with Techno-commercial Bid

Estimated Cost: Rs. 11,68,290/-(GST extra as applicable)

EMD value: Rs. 23,366/-

Date of Opening of Techno-commercial Bid (PART-I):24.07.2020

Period of Completion: 12 Months

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:Rs.XXXXXXXXXXXXXXXXXX In Words:Rs.XXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX
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:Rs.XXXXXXXXXXXXXXXXXX In Words:Rs.XXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX
3	Ultrasonic testing of welds inclusive of equipment, consumable and manpower.	Rs. Per metre of tested weld length	In figures:Rs.XXXXXXXXXXXXXXXXXX In Words:Rs.XXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX
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 deciding L1.

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 requirement under the quoted rates.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Annexure-VIII

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 23,366/- 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

ANNEXURE-‘IX’

Certificate by Chartered Accountant on Letter Head

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 –II Dtd: Category:
(Micro/ small). (Copy enclosed).

Further verified from Books of account 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 Ministry of small scale Industries vide its notification No. S.O. 1722(E) Dtd. October 5 , 2006):

Rs. Lacs

2. **For Service Enterprises:** Investment in equipments (i.e. 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 MSMED Act, 2006):

Rs. Lacs

(Strike off whichever is not applicable)

The above investment of Rs..... Lacs is within permissible limit of
Rs.....Lacs for..... (Micro/ small) (Strike off whichever is not applicable)
category under MSMED Act 2006.

Or

The company has graduated from its original capacity (Micro/ small) (Strike off whichever is not applicable) and date of graduation of such enterprise from its original capacity is.....
(dd/mm/yy) 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 No.-

Seal of Chartered accountant

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Acceptance/ No Deviation Certificate (Annexure- X)

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

PART-II

PRICE BID

Estimated Cost: Rs. 11,68,290/-(GST extra as applicable)

EMD value: Rs. 23,366/-

Date of Opening of Techno-commercial Bid (PART-I):24.07.2020

Period of Completion: 12 Months

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	<p>In figures: Rs.</p> <p>In Words: Rs.</p> <p>.....</p>
2	Radiography Testing using Iridium-192 gamma ray isotope (Gammagraphy) inclusive of equipment, consumable and manpower.	Rs. Per Sq.Cm. of accepted radiograph	<p>In figures: Rs.</p> <p>In Words: Rs.</p> <p>.....</p>
3	Ultrasonic testing of welds inclusive of equipment, consumable and manpower.	Rs. Per metre of tested weld length	<p>In figures: Rs.</p> <p>In Words: Rs.</p> <p>.....</p>
4	GST	GST Rate (%)	

Note:

- 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.
- 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 deciding L1.

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 requirement under the quoted rates.

I/We agree with the above

Signature of Bidder/Contractor with Stamp