



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

(Open Tender)

Tender Document

Name of Work: “3D Scanning, 3D Modelling and 2D Manufacturing Drawing Generation”.
Tender Enquiry No.: BHEL/HEEP/WEX-WCS/22-23/8070/202203031 DT 27.02.2023
Due date of Tender Opening: 21.03.2023
Type of Bid: Two Part

Place of Submission of Tender / Bid:

Through email at tendercell.heep@bhel.in
OR

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

- I. Himanshu Arora, Manager(WEX-WCS)
Contact Address: WCS, ADM-4, BHEL (HEEP), Haridwar-249403
Email: harora@bhel.in ;
Phone: +91-1334-281932; Fax: +91-1334-226460

Document can be downloaded from www.bhel.com/ www.hwr.bhel.com

Note: All corrigenda / addenda / amendments / time extensions / clarifications, etc. to the tender will be hosted on our website i.e. www.bhel.com/ www.hwr.bhel.com only and will not be published in any other media.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 Issuing officer

Signature of Bidder with Stamp

DETAILS OF TENDER DOCUMENT

The Tender document has been detailed as follows:

Part-I (TECHNO-COMMERCIAL BID)

1. Cover page
2. Index
3. Notice Inviting Tender (NIT)
4. Details of Bid & Bidder (To be filled by bidder)
5. General Instructions to Tenderer
6. General Terms & Conditions of Tender
7. Technical Pre-Qualification Mandatory for 3D Scanning
8. Scope of Work
9. Special Terms and Conditions of Tender
10. INDEMNITY BOND
11. Non-Disclosure Agreement (NDA)
12. Un-price Price Bid
13. Annexure-X
14. No Deviation Certificate
15. Check List
16. Sample Size of Components

Part-II (PRICE BID)

1. Price Bid

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp



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	harora@bhel.in ; shiv.charan@bhel.in		
Contact Person	Himanshu Arora		
NIT Key.	202203031	Dated	27.02.2023
NIT No.	BHEL/HEEP/WEX-WCS/22-23/8070/202203031 DT 27.02.2023		
NIT No. on www.bhel.com	72265		
NIT No. on www.hwr.bhel.com	8257		
Type Of Tender	Open		
#Tender Cost (in INR)	500/- (Inclusive of Taxes) & NIL for tender downloaded from website		
EMD (in INR)	Rs. 2,07,157/-		
Period of completion of work	24 Months		
Two Part Bid /single bid	Two Part Bid		
NIT Value (in Rs.)	Rs. 1,03,57,860/- + GST extra as applicable		
Last Date of Sale of Tender	20.03.2023	Time :	02:30PM
Last Date of submission of Tender	21.03.2023	Time :	01:45PM
* Date and Time for opening of Technical Bid	21.03.2023	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 UDYAM/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: “3D Scanning, 3D Modelling and 2D Manufacturing Drawing Generation.”

Contracting Executive Name: Himanshu Arora

Date:

- BHEL reserves the right to accept or reject any/ all application(s) without assigning any reason thereof.
- 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.
- BHEL will not be responsible for the loss or delay of tenders in transit in any case.
- 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.
- For detailed instructions/information refer the tender document on BHEL website.

I/We agree with the above

Signature of Issuing officer

Signature of Bidder 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) _____

Note: If GST registration is not applicable, Bidder shall submit justification of the same and will also provide supporting documents.

I/We agree with the above

Signature of Bidder with Stamp

Signature of Issuing officer

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 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**.
- 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.

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp

- 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.
- 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.

I/We agree with the above

Signature of Issuing officer

Signature of Bidder with Stamp

- 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 Issuing officer

Signature of Bidder 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 COLLECTION 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 Issuing officer

Signature of Bidder with Stamp

General Terms & Conditions of Tender

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, 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.
- (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.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

- (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.

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:

I/We agree with the above

Signature of Bidder/Contractor with Stamp

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 -1 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

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.

JURISDICTION: 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

I/We agree with the above

Signature of Bidder/Contractor with Stamp

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:

- 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

I/We agree with the above

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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. 2 Crore or above. 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.

	IEM	Email
1	Sh. Otem Dai, IAS (Retd.)	iem1@bhel.in
2	Sh. Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in
3	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in

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.

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.

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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,
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

I/We agree with the above

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- 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:

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.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

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 & 04.06.2020 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

- 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.

I/We agree with the above

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- 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.
- l. The evaluation currency for this tender shall be **INR**.
- m. The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/guidelines.
- n. Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT / contract, from the bills along with due interest.

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.

21. CONFLICT OF INTEREST AMONG BIDDERS/ AGENTS

"A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. **The bidder found to have a conflict of interest shall be disqualified.** A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:

- a. they have controlling partner (s) in common; **or**
- b. they receive or have received any direct or indirect subsidy/ financial stake from any of them; **or**
- c. they have the same legal representative/agent for purposes of this bid; **or**
- d. they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or
- e. Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; or
- f. In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:
 - 1. The principal manufacturer directly or through one Indian agent on his behalf; and
 - 2. Indian/foreign agent on behalf of only one principal,

I/We agree with the above

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or

- g. A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; or
- h. In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business."

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Technical Pre-Qualification Mandatory for 3D Scanning

1. Vendor must have experience of successfully executed Reverse Engineering Services through 3D scanning with 3D models/2D drawings generation for components in the area of Thermal/Nuclear/Gas/Hydro Turbine Power Plant Equipment in past 7 years from date of issuance of enquiry.

Experience of having successfully completed similar works (i.e. 3D scanning with 3D models/2D drawings generation for major components like Turbine Blades, Bearing, Valve, Generator winding bar, turbine diaphragms etc. of Thermal/Nuclear/Gas/Hydro Turbine Power Plant) during last 7 years from the date of issuance of enquiry as per below:

(A) Three similar completed works costing not less than the amount equal to 4 lakhs.

Or

(B) Two similar completed works costing not less than the amount equal to 5 lakhs.

Or

(C) One similar completed works costing not less than the amount equal to 8 lakhs.

Vendor to fill the table below and submit following documents to justify above: -

SL. No.	Name & address of customer	Contact details of customer (Email & Contact No.)	Purchase order reference no. along with date	Purchase order value

- a. POs copy/copies of successfully executed order to justify above similar work and amount.
 - b. Photographs/3D Model/2D drawings of Components for which the 3D scanning service is carried out for above submitted POs.
 - c. Satisfactory work completion certificate from customer for above mentioned P.O.s OR two unpriced PO copies at a gap of 12 months from same customer for at least one component mentioned in above PO.
2. Vendor's firm must have at least Rs 15 lakhs average annual turnover during last 3 financial years. For this, audited copies of financial annual reports for the last three years (or from date of incorporation whichever is less) are to be submitted. Financial information must be certified by a Chartered Accountant.
 3. Vendor must have 3D Scanners for carrying out the Scanning Services. Vendor to provide list and details of all Scanners with their accuracy levels.
 4. Vendor must have required Software for carrying out the Reverse Engineering of components from Scanned Cloud data to 3D Model and 2D drawing. Vendor to provide details of Software used for 3D Modelling and 2D drawing generation.
 5. Vendor must have Measurement and Inspection tools used to carry out the physical measurement of components for cross checking of primitive dimensions in the component during scanning. Vendor to provide the details of such instruments/tools to be used during 3D scanning.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Scope of Work

Details of the Scope of Work shall be as follows:

“Contractor shall depute their representative to the reference site with all equipment required to execute the work in synchronization with BHEL. Usability, accuracy and necessary data correction shall be the responsibility of firm/agency. BHEL shall not be liable for any fault/deficiency in scanning equipment/executing person. Scanning Equipment / Executing Person competency shall be sole responsibility of the contractor.

The following will be the scope of work:

a) 3D Scanning:

3D Scanning technology shall be used for obtaining accurate and objective method for digital documentation of the suggested component/assembly under consideration. High quality equipment shall be used for Scanning Work – Details to be provided along with types of scanning done.

The system shall collect data at such a fine resolution that photographic quality images can be produced from the three dimensional data collected to accuracy within as given in Annexure (price schedule).

The data may be captured at an adequate distance to allow an adequate quality of data resolution.

Contractor shall have special arrangement for accessibility of the intricate area to have adequate quality of data resolution. Effect of surrounding vibrations & ambient temperature shall be taken care suitably for accurate scanning information that may be realized later in 3D Modelling & in manufacturing drawings. Effect of wear & tear, scaling, corrosion effect & damage, if any in the component shall be suitably accommodated/simulated in the final deliverables. Identification of assembly parts in welded components (e.g. diaphragms) to achieve cross-sectional dimension is to be taken care during 3D scanning, support for the same will be provided by BHEL team.

b) Cross verification of primitives through physical measurements:

Contractor involved is to self-verify/cross-check primitive dimensions such as Length/Radius/Diameter/Pitch/Thread size etc. of scanned part using precision measuring instruments such as Vernier, micrometer, pitch gauge, slip gauges, protractors, calipers (inside and outside) etc. and prepare report of the measured dimensions. The report shall be submitted as part of deliverable documents.

c) To ensure dimensions of component to be scanned, contractor may also require to 3D scan or physically measure the dimensions of mating component geometry (if available). For example, in case of Blades, 3D scanning/physically measurement of Blade Groove in the Rotor may also be carried out to achieve all Blade Root dimensions. Report of the same to be submitted as part of deliverable documents.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

d) 3D visualization and simulation of data and 3D Modelling:

The data generated from scanning work is to generate 3D visualization or simulation for further understanding, study and future manufacturing. Deliverables consists of:

- i) Data Cloud Strictly for the Component without noise/disturbance
- ii) 3D Parametric Model – to be compatible with UGNX 10.0 / CREO 3.0 upwards, i.e., editable & usable in .prt format. In addition to this, other format such as parasolid/step/iges may also be given on request.

e) Generation of 2D Editable manufacturing drawings:

Manufacturing drawings (.dwg format/ compatible with AutoCAD) to be generated from the best use of available digital information. Support during manufacturing for any data/ geometric/ dimensional interpretation is to be provided. Deputation, if required is to be made to BHEL works.

f) Digital Record & Data Integrity

Contractor involved is to provide record of digital information in suitable format to BHEL for any future reference. Data/information collected is solely for BHEL use and shall not be shared with any other party officially/unofficially in the interest of BHEL.”

g) The Scanner should have capability to scan Deep grooves, intricate profiles, threads on internal as well as on external surfaces etc.

h) The unscan dimension should be physically measured and incorporated by supplier in 3D model and generation of 2D drawings. Necessary instrument like Vernier, micrometer, slip gauge, protactor, caliper (inside and outside) pitch gauge etc.) Required for physical measurement shall be in the scope of supplier.

i) As the size of actual component to be scanned may vary therefore, variation of 10% on higher side shall be considered in each category.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Special Terms and Conditions of Tender

Following terms & conditions may be added in Framework agreement contract enquiry of 3D Scanning, Modelling and Development of 2D Drawings.

1. Vendor/supplier will quote the charges for 3D Scanning, Modelling and Development of 2D Drawings for unit quantity against each item as per price schedule annexure-I and also for total qty. Taxes & duties as applicable will be extra. Works may come for 1 qty or more.
2. Framework agreement rates will be valid for 2 years from date of finalization of rate contract.
3. There will be no minimum quantity assured for ordering. However, extension of contract in terms of quantum of works (max. 10% of projected qty.) and specified time period (3 months) will be taken up subject to mutual agreement between BHEL and vendors.
4. No. of days x no. of persons deployed at site for 3D scanning is required for reimbursement of hotel stay and travelling charges separately. Vendor to consider 1 day as 8 working hours while quoting for no. of days in bid. It is assumed that scanning activity will be done at site only and all other activity at supplier work office.
5. **Details of additional logistics charges will be as follows:**
 - a. **For Boarding, lodging and conveyance charges: Fixed Rs. 2499/- per person per day + taxes extra may be payable by BHEL.**
 - b. **Freight charges (to & fro) for transportation of scanning equipment: BHEL will pay @ Rs. 5/KM for Freight charges (to & fro) for transportation of scanning equipment from your disclosed office location to site. Shorted distance will be considered as per google map for freight calculation.**
 - c. **Vendor/ Supplier is required to disclose location of its office during bid submission for calculation distance to site for reimbursement for freight charges.**
6. **Evaluation Criteria:**
 - 6.1 For the purpose of framework agreement, category wise ranking of bidders (L1, L2, L3....) as per price schedule (category A, B items) shall be worked out.
= i.e. (scanning rate + no. of mandays x Rs. 2499)
 - 6.2 Once these rate quoted by L1 are finalized for each category, subsequently L2, L3
Bidders **(H1 bidder shall be excluded for respective items)** for respective category items shall be asked to match L1 rates **(rates are to be matched either by reducing quoted rates of scanning charges or reducing mandays)**. In case, any of the bidder does not accept the L1 rates, their offer shall not be accepted for that category items.
 - 6.3 After finalization of rates with bidders the framework agreement will be issued. At the time of actual requirement once site location and category of items known, BHEL unit will approach to finalize vendor/supplier for category type and no. of items to be scanned, site location and date of deputation of 3D scanner vendor/supplier to site etc.
Work will be awarded to vendor/supplier **on Total lowest cost basis landed to BHEL**

I/We agree with the above

Signature of Bidder/Contractor with Stamp

i.e. for unit qty. = 3D scanning, modeling and 2D drawing generation charges+ no. of mandays x Rs.2499/ + Rs. 5/KM for x (2x shorted distance from vendor's office to site as per google map)

7. **Delivery period** will be from date of completion of 3D scanning work at site/works upto submission of BHEL acceptable 2D drawing. Delivery period for upto 10 nos. of components will be 6 weeks and for more than 10 nos. components will be 8 weeks.
8. **Payment terms:** 100% payment will be made after completion of work i.e. 3D scanning, modelling and submission of BHEL acceptable complete 2D drawing for respective category items.
9. GST shall be extra on charges quoted for work against 3D scanning, modelling and submission of BHEL acceptable complete 2D drawing and on additional charges of accommodation, freight charges.
10. **LD will be applicable:** @0.5% per week subject to maximum LD 10% of value delay from schedule delivery.
11. **Location of work:** location of work shall be on PAN India basis & shall be specified at later stage on case to case basis.
12. **Response time:** vendor shall depute scanning team within 7 working days, once BHEL finalise/award work.
13. Finalized vendor/supplier for framework agreement shall submit NDA (non-disclosure of agreement) one time as per annexure-II within a week after received of Framework agreement.
14. Finalized vendor/supplier shall submit Indemnity bond as per attached annexure-III (on Uttrakhand govt, stamp paper) within a week after received of Framework agreement.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

INDEMNITY BOND

Annexure-III

In consideration of the fact that M/s Bharat Heavy Electricals Ltd., Ranipur Hardwar allowed me to dispense from taking a policy to protect against risks in respect of Fires, Burglary, Earthquake, Tempest, Flood & Civil war in respect of **3D scanning, 3D modelling and 2D drawing generation of items for various site on the basis of Frame Work Agreement ref no. -----dtd----- between BHEL and -----contractor/supplier name-----executed and subsequent work order released for works.** We hereby indemnify M/s Bharat Heavy Electricals Ltd., Ranipur Hardwar against any losses that might arise in respect of the said work under the contract agreement mentioned above on account of any of the risks mentioned above & this Indemnity Bond will be valid & binding upon me/ us till the said work is complete & handed- over satisfactory conditions to M/s Bharat Heavy Electricals Ltd. Ranipur (Hardwar) by me/ us.

CONTRACTOR/ Supplier Name

WITNESS

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Non-Disclosure Agreement (NDA)

Annexure-III

FA No.:

This Non-Disclosure Agreement (hereinafter also referred to as “Agreement” or “NDA”) is made and entered into on this day of the 2021 between

BHARAT HEAVY ELECTRICALS LIMITED (a Maharatna Public Sector Undertaking of Government of India), having its Registered Office at ‘BHEL House’ Siri Fort, NEW DELHI-110049 acting through one of its manufacturing divisions at Ranipur, Haridwar, Uttarakhand (hereinafter referred to as "BHEL" which expression shall mean and include its successors and permitted assigns) represented by its duly authorized representative, of the FIRST PART;

AND

-----**Supplier name**-----and having its registered & sales office at -----**address**-----
----- herein after called “-----” which expression shall unless repugnant to the subject or the context mean and include its successors or permitted assigns represented by its duly authorized representative, of the SECOND PART;

BHEL and -----Supplier name ----- are referred to as the “Party” individually or “Parties” collectively, as the context may demand.

Whereas in order to pursue the mutual business purpose as specified in **Annexure-A** (herein after referred to as “Business Purpose”), the Parties with the objective of exploring the possibility of entering into a memorandum of understanding (hereinafter referred to as “MOU”) and /or Memorandum of Agreement/s (hereinafter referred to as “MOA”) for the said Business purpose (to delete whatever is not applicable), the Parties recognize that there is a need to disclose to one another certain information, as defined in para 1 below, of each Party to be used only for the Business Purpose and to protect such confidential information from unauthorized use and disclosure.

In consideration of the other Party’s disclosure of such information, each Party agrees as follows:

1. The Parties acknowledge and agree that information subject to this Agreement may be in any form or medium, tangible or intangible, and may be communicated/disclosed in writing, orally, or through visual observation or by any other means to one Party (hereinafter referred to as the receiving Party) by the other Party (hereinafter referred to as one disclosing Party).

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Provided, however, that; (a) if the information or data is disclosed in a tangible form, it shall be clearly marked as being confidential; and (b) if the information or data is disclosed orally or visually, it shall be identified as being confidential upon disclosure and shall be reduced to writing clearly being marked as confidential within 30 (thirty) days after such oral or visual disclosure.

2. This Agreement will apply to all information which is disclosed by one Party to the other Party during preliminary discussions for the Proposed Business purpose and under the Memorandum of Agreement_ if entered into between the Parties, including information listed in Annexure-A attached hereto and other information which the Disclosing Party identifies in writing or otherwise as confidential before or within thirty days after disclosure to the Receiving Party (all such information shall hereinafter be referred to as “Confidential Information”).

3. The Parties hereby agree that during the Confidentiality Period:

3.1 The receiving Party shall use Confidential Information only for the Business Purpose, shall hold Confidential Information in confidence using the same degree of care as it normally exercises to protect its own proprietary information, but not less than reasonable care, taking into account the nature of the Confidential Information, and shall grant access to Confidential Information only to its employees who have a need to know, and only to the extent necessary to evaluate the Business purpose and in the event the Parties agree to enter into a MOA to carry out the Business Purpose as defined in Annexure A. The receiving Party shall cause its employees to comply with the provisions of this Agreement as applicable to the receiving Party. The receiving Party shall reproduce Confidential Information only to the extent essential to fulfilling the Business Purpose and shall prevent disclosure of Confidential Information to third parties. The receiving Party may, however, disclose the Confidential Information to its consultants and contractors with a need to know; provided that by doing so, the receiving Party agrees to bind those consultants and contractors to terms at least as restrictive as those stated herein, advise them of their obligations, and indemnify the disclosing Party for any breach of those obligations.

3.2 Upon the disclosing Party's request, the receiving Party shall either return to the disclosing Party all Confidential Information or shall certify to the disclosing Party that all media containing Confidential Information have been destroyed.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

4. The foregoing restrictions on each Party's use or disclosure of Information shall not apply to Information that the receiving Party can demonstrate:
 - 4.1 was independently developed by or for the receiving Party without reference to the Information, or was received without restrictions; or
 - 4.2 has become generally available to the public without breach of confidentiality obligations of the receiving Party; or
 - 4.3 was in the receiving Party's possession without restriction or was known by the receiving Party without restriction at the time of disclosure; or
 - 4.4 is required to be disclosed by law or by any judicial, administrative or applicable regulatory authority to whose jurisdiction the receiving Party (or, as the case may be, its employees or professional advisers) is subject; provided, however, that the receiving Party has given the disclosing Party prompt notice of such demand for disclosure and the receiving Party reasonably cooperates with the disclosing Party's efforts to secure an appropriate protective order; or
 - 4.5 is disclosed with the prior consent of the disclosing Party; or was in its possession or known to it by being in its use or being recorded in its files or computers or other recording media prior to receipt from the disclosing Party and was not previously acquired by the receiving Party from the disclosing Party under an obligation of confidence; or
 - 4.6 The receiving Party obtains or has available from a source other than the disclosing Party without breach by the receiving Party or such source of any obligation of confidentiality or non-use towards the disclosing Party.
5. Each Party agrees not to remove any of the other Party's Confidential Information from the premises of the disclosing Party without the disclosing Party's prior written approval. Each Party agrees to exercise extreme care in protecting the confidentiality of any Confidential Information which is removed, only with the disclosing Party's prior written approval, from the disclosing Party's premises. Each Party agrees to comply with any and all terms and conditions the disclosing Party may impose upon any such approved removal, such as conditions that the removed Confidential Information and all copies must be returned by a certain date, and that no copies are to be retained by the receiving Party.

I/We agree with the above

Signature of Bidder/Contractor with Stamp

6. Upon the disclosing Party's request, the receiving Party will promptly return to the disclosing Party all tangible items containing or consisting of the disclosing Party's Confidential Information all copies thereof.
7. Each Party recognizes and agrees that all of the disclosing Party's Confidential Information is owned solely by the disclosing Party (or its licensors) and that the unauthorized disclosure or use of such Confidential Information would cause irreparable harm and significant injury, the degree of which may be difficult to ascertain. Accordingly, each Party agrees that the disclosing Party will have the right to obtain an immediate injunction enjoining any breach of this Agreement, as well as the right to pursue any and all other rights and remedies available at law or in equity for such a breach.
8. Access to Confidential Information hereunder shall not preclude an individual who has seen such Confidential Information for the purposes of this Agreement from working on future projects for the receiving Party which relate to similar subject matters, provided that such individual does not make reference to the Confidential Information and does not copy the substance of the Confidential Information during the Confidentiality Period. Furthermore, nothing contained herein shall be construed as imposing any restriction on the receiving Party's disclosure or use of any general learning, skills or know-how developed by the receiving Party's personnel under this Agreement, if such disclosure and use would be regarded by a person of ordinary skill in the relevant area as not constituting a disclosure or use of the Confidential Information.
9. As between the parties, all Confidential Information shall remain the property of the disclosing Party. By disclosing Confidential Information or executing this Agreement, the disclosing Party does not grant any license, explicitly or implicitly, under any trademark, patent, copyright, mask work protection right, trade secret or any other intellectual property right. The disclosing Party disclaims all warranties regarding the information, to the accuracy or utility of such information. Execution of this Agreement and the disclosure of Information pursuant to this Agreement does not constitute or imply any commitment, promise, or inducement by either Party to make any purchase or sale, or to enter into any MOU/MOA/ agreement of any kind.
10. Either Party's failure to enforce any provision, right or remedy under this agreement shall not constitute a waiver of such provision, right or remedy.

11. Settlement of Disputes

I/We agree with the above

Signature of Bidder/Contractor with Stamp

In the event of disputes arising from this Agreement or in connection with its execution, the Parties undertake to endeavour to settle these amicably. However, if the Parties fail to resolve the disputes amicably, all disputes arising out of or in connection with this NDA shall be finally settled under the Arbitration and Conciliation Act, 1996 or amendments thereof by three arbitrators appointed in accordance with Arbitration and Conciliation Act, 1996. The arbitrators shall be fluent and well conversant with the English language. The arbitration proceedings shall be conducted in English language. Documents shall be submitted in English. The arbitrators shall give a reasoned award. The decision of the arbitrators shall be final and binding upon the Parties.

The seat of arbitration shall be **Haridwar**.

12. This Agreement and Annexure A attached hereto constitutes the entire agreement of the Parties with respect to the Parties' respective obligations in connection with Confidential Information disclosed hereunder and supersedes all prior oral and written agreements and discussions with respect thereto. The Parties can amend or modify this Agreement only by a writing duly executed by their respective authorized representatives of both the Parties. Neither Party shall assign this Agreement without first securing the other Party's written consent.
13. This Agreement will remain in effect for **05 (Five) years** from the date of the last disclosure of Confidential Information, unless extended in writing by both the Parties.
14. This NDA shall be construed, interpreted and governed by the Laws of India, Courts in the city of Haridwar, UTTARAKHAND, India shall have exclusive jurisdiction subject to arbitration clause hereinabove.
15. This NDA is executed in two originals one each to be retained by BHEL and ---Supplier-----

I/We agree with the above

Signature of Bidder/Contractor with Stamp

Signed on this2021 by the Parties to this NDA at Haridwar.

BHEL	Supplier Name
<div>Name:</div> <div>Designation:</div> <div>Address;</div>	<div>Name:</div> <div>Designation:</div> <div>Address:</div>

Witnesses (Name & Address)

1.

1.

Annexure-A
(NDA)

1. **Business Purpose**: 3D scanning, 3D modelling and 2D drawing generation of items as per Framework agreement
2. **Confidential Information of -----Supplier-----**
 - a.
3. **Confidential Information of BHEL:**
 - a. All details relating to BHEL drawings and specifications.
 - b. All information shared in oral or in written form by BHEL with ---Supplier Name--.
 - c. Any information desired by -----Supplier name-----.
 - d. Information downloaded or taken in physical form shall be returned/destroyed after use and not copied.

BHEL_____

Supplier_____

Signed

Signed

I/We agree with the above

Signature of Bidder/Contractor with Stamp

UNPRICED PRICE BID

(Not to be filled. However, this is to be signed and submitted with Techno-commercial Bid)

PRICE SCHEDULE : 3D Scanning, 3D Modelling and 2D Manufacturing Drawing Generation									
S No	Description	Qty.	Desired Accuracy of final deliverable 3D parametric model	Per unit rate for 3D Scanning + 3D Modelling + 2D Drawing Generation	For Unit qty: No of days x no. of persons deployed at site for 3D Scanning only.			Total rate for 3D Scanning + 3D Modelling + 2D Drawing Generation	For total Qty= no. of days x no. of persons deployed at site for 3D Scanning only.
				Basic rate without GST (Rs)	no. of days	no. of person	Mandays	Basic rate without GST (Rs.)	Total Qty: no. of days/ no. of person
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) = f x g	(I) = c x e	(J) = c x h
A	For Standalone components								
A.1	0-300mm	120	upto 15 microns	X X X	X X X	X X X	X X X	X X X	X X X
A.2	300-600mm	120	upto 15 microns	X X X	X X X	X X X	X X X	X X X	X X X
A.3	600-1200mm	50	upto 15 microns	X X X	X X X	X X X	X X X	X X X	X X X
A.4	1200-2400mm	30	upto 15 microns	X X X	X X X	X X X	X X X	X X X	X X X
A.5	2400-4800mm	5	upto 50 microns	X X X	X X X	X X X	X X X	X X X	X X X
A.6	4800-9600mm	5	upto 50 microns	X X X	X X X	X X X	X X X	X X X	X X X
B	For standalone components whose all assembly items are available at BHEL works for scanning								
B.1	0-300mm	120	upto 150 microns	X X X	X X X	X X X	X X X	X X X	X X X
B.2	300-600mm	120	upto 150 microns	X X X	X X X	X X X	X X X	X X X	X X X

I/We agree with the above

Signature of Bidder/Contractor with Stamp

B.3	600-1200mm	50	upto 150 microns	X X X	X X X	X X X	X X X	X X X	X X X
B.4	1200-2400mm	30	upto 150 microns	X X X	X X X	X X X	X X X	X X X	X X X
B.5	2400-4800mm	5	upto 150 microns	X X X	X X X	X X X	X X X	X X X	X X X
B.6	4800-9600mm	5	upto 150 microns	X X X	X X X	X X X	X X X	X X X	X X X
C.2	Vendor to provide starting location and it cannot be changed during framework agreement period (required for calculation of transportation charges for equipment)								

I/We agree with the above

Signature of Bidder/Contractor with Stamp

ANNEXURE-‘X’

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

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

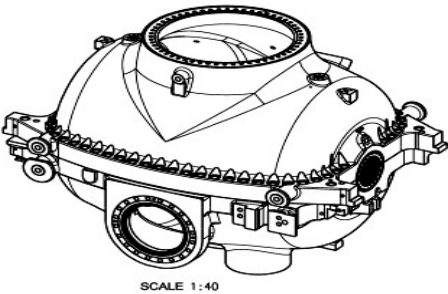
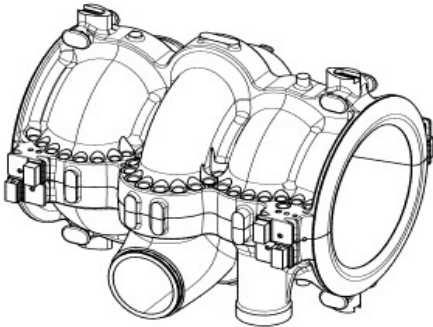
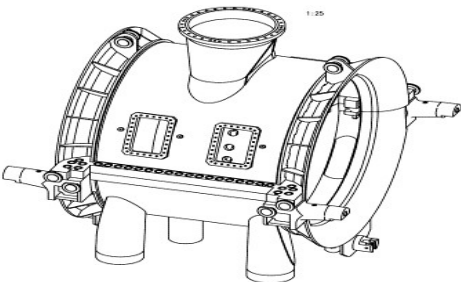
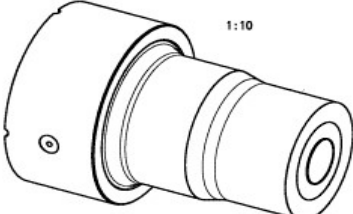
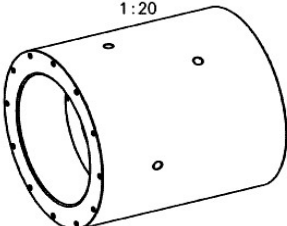
Check List for Tenderer

Sr. No.	Details of Criteria	Yes/ No	Please fill the Detail/ Remarks/ Reference of documents attached in support of each point.
1	Ink Signed & stamped on each page of Techno-commercial bid		
2	Ink Signed & Stamped on each page of supporting Document		
3	Only Signed & stamped Un-priced Price Bid.		
4	Ink Signed & Stamped on both sides of Techno-commercial Bid and Supporting documents if print / photocopy has been taken on both sides of the paper		
5	Quoted Price Bid duly filled, signed and stamped, should be submitted separately in sealed envelope.		
6	MSME Documents (if applicable) self-attested		
7	Copy of GST Certificate.		
8	Copy of PAN card		
9	Copy of Cancelled Cheque.		

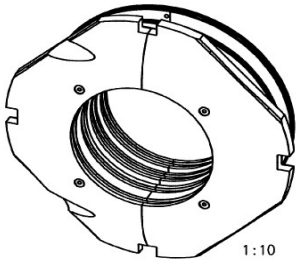
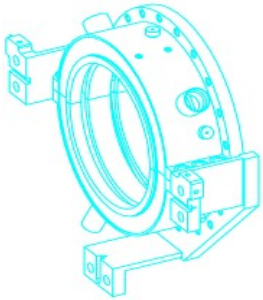

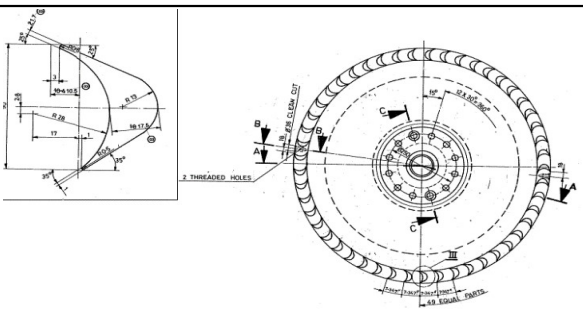
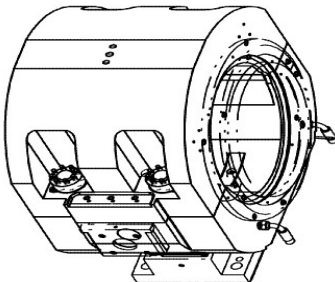
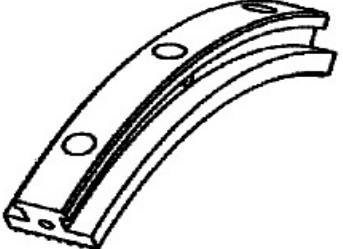
I/We agree with the above

Signature of Bidder/Contractor with Stamp

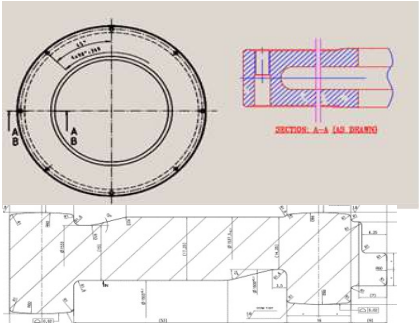
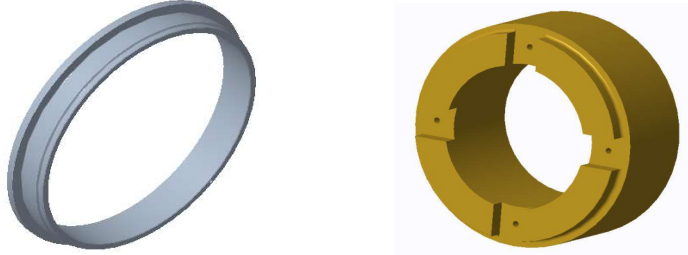
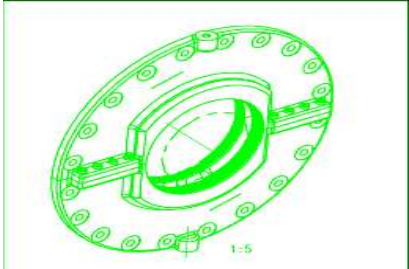
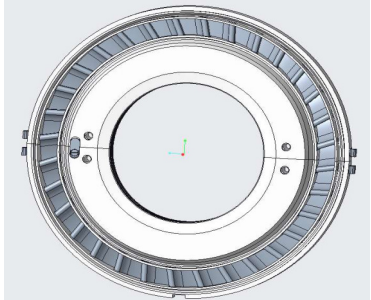
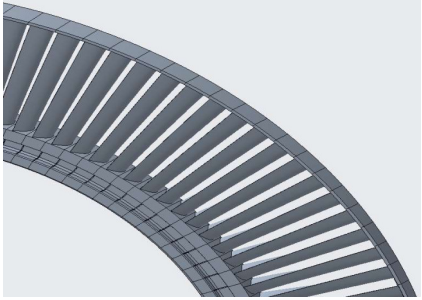
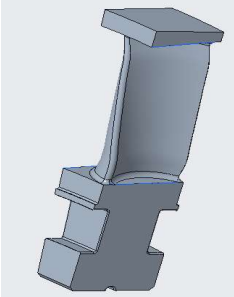
SAMPLE SIZE OF COMPONENTS FOR SCANNING

S No	Description	Size (LxBxH) in MM	ISOMETRIC VIEW
A	STEAM TURBINE COMPONENTS		
	(a)	(b)	(c)
1	HP/IP Outer Casing	5000x4500x5000	 <p>SCALE 1:40</p>
2	HP/IP Inner Casing/Liner	4000x3500x3500	
3	LP Inner casing	6000x6500x7000	 <p>1:25</p>
4	HP Inlet Insert/Connection	1000x1000x1200	 <p>1:10</p>
5	Breech Nut	1200x1200x1200	 <p>1:20</p>

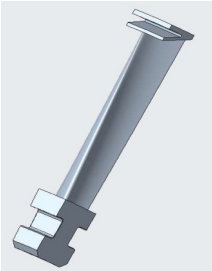
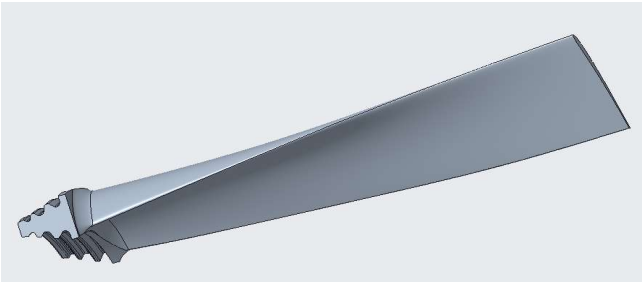
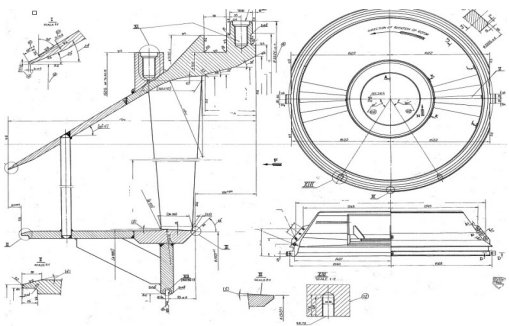
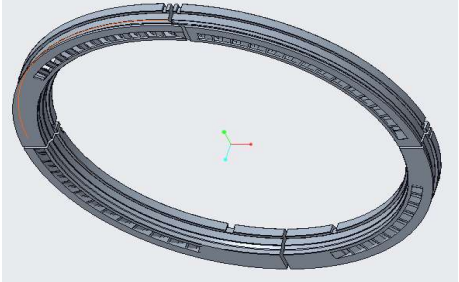
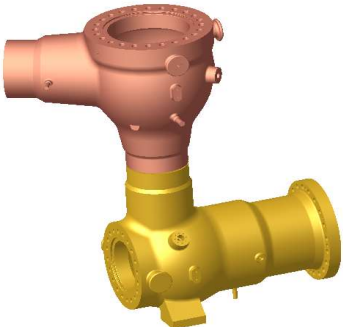
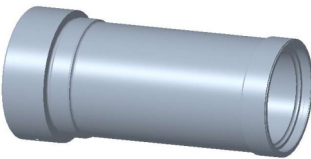
SAMPLE SIZE OF COMPONENTS FOR SCANNING

S No	Description	Size (LxBxH) in MM	ISOMETRIC VIEW
6	HP/IP Shaft Seal Casing/Housing	1000x1000x400	 1:10
7	LP Shaft Seal Casing	1700x1700x500	
8	Angle Ring	1000x1000x100	
9	Impeller of Hydraulic Turning Gear	1000x1000x200	
10	Hydrodynamic Journal / Tilting Pad Bearing	1100X1100X600	 1:10
11	Shaft Seal Rings	400X70X50	

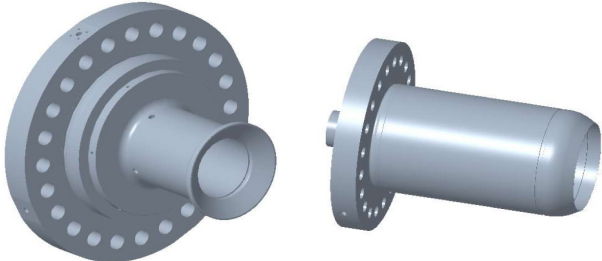
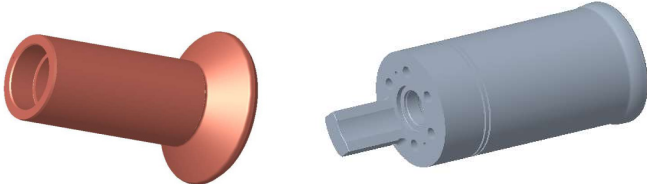
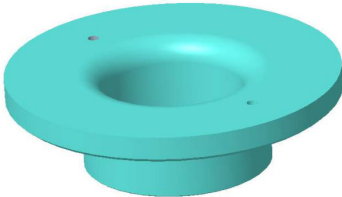
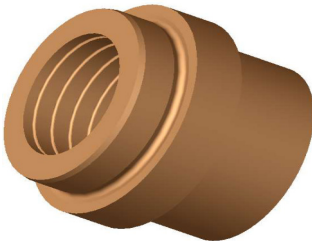

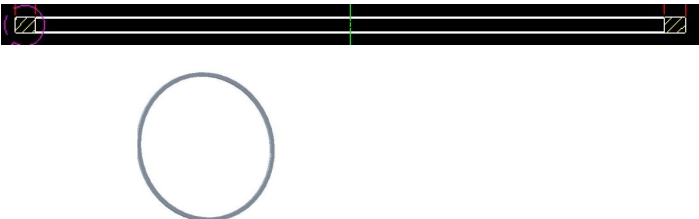
SAMPLE SIZE OF COMPONENTS FOR SCANNING

S No	Description	Size (LxBxH) in MM	ISOMETRIC VIEW
12	U-/ I- Seal Rings	u seal cross section 2100X2100X50 I seal cross section 3500x3500x100	
13	Threaded Rings	2000x2000x200	
14	Oil Guard Rings	1150X1150X220	
15	HP & IP Diaphragms	(Φ 2300x250)	
16	HP ,IP , LP Blades – Stage (Remark: All unidentical Blades in a stage e.g. Normal Blade/Blade Packets, Lock blades for Rotor blades and Normal, Joint blades for Casing blades).		
17	HP Blades	(300x90x90)	

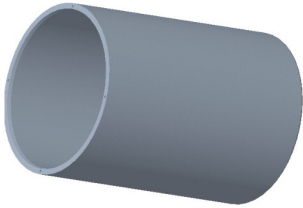
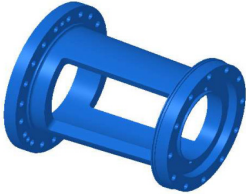
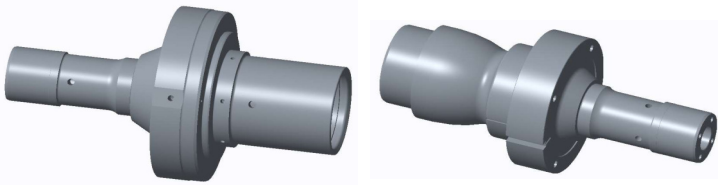
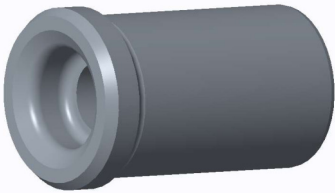

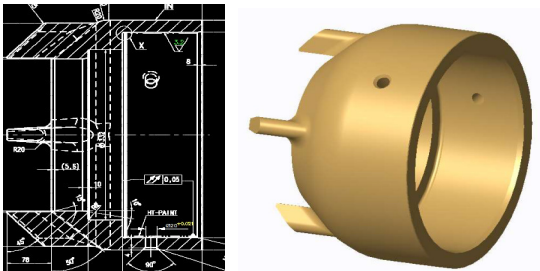
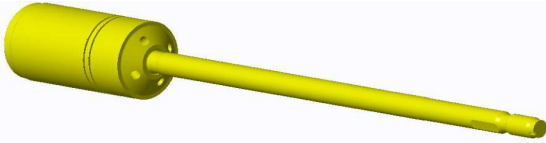
SAMPLE SIZE OF COMPONENTS FOR SCANNING

S No	Description	Size (LxBxH) in MM	ISOMETRIC VIEW
18	IP&LP (T-root) Blades	(600x100x100)	
19	Fir Tree Blades of LP	(1250x400x400)	
20	LP diaphragms: dia.	3400x900	
21	Nozzle segments/Guide Ring:	dia.1400 x 300	
22	IP VALVE CASING	2800*3000*4700	
23	DIFFUSER	930*930*1780	


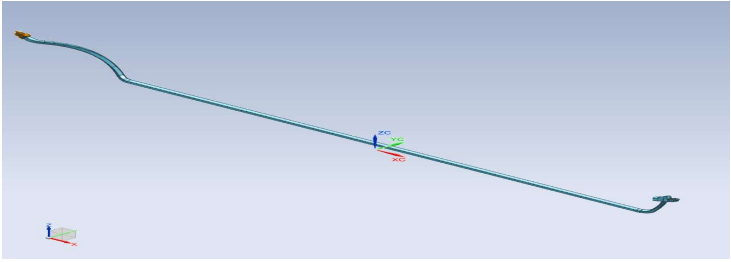

SAMPLE SIZE OF COMPONENTS FOR SCANNING

S No	Description	Size (LxBxH) in MM	ISOMETRIC VIEW
24	VALVE SEAT 740*740*735		
25	IP VALVE COVER	570*570*1250	
26	IP VALVE CONE	650*650*820	
27	PILOT VALVE SEAT	215*215*70	
28	BUSH	120*120*100	
29	STEAM STRAINER	1100*1100*1000	
30	PISTON RING	850*850*10	

SAMPLE SIZE OF COMPONENTS FOR SCANNING

S No	Description	Size (LxBxH) in MM	ISOMETRIC VIEW
31	GUIDE BUSH	590*590*710	
32	YOKE/ COLUMN	750*750*800	
33	HP VALVE COVER	825*825*1350	
34	HP VALVE CONE	370*370*500	
35	VALVE SPINDLE	110*110*1800	
36	RING	450*450*350	
37	VALVE CONE WITH SPINDLE	300*300*2100	

SAMPLE SIZE OF COMPONENTS FOR SCANNING

S No	Description	Size (LxBxH) in MM	ISOMETRIC VIEW
38	HP VALVE CASING	2400*2600*3000	
B	GENERATOR COMPONENTS		
39	Winding Bar	max length 10000mm, volume 0.049cubic m	
40	Rotor blade	132x 52x 250 max dimention 300mm Volume 0.0022cubic meter	

PRICE BID**Annexure – I**

PRICE SCHEDULE: 3D Scanning, 3D Modelling and 2D Manufacturing Drawing Generation									
S No	Description	Qty.	Desired Accuracy of final deliverable 3D parametric model	Per unit rate for 3D Scanning + 3D Modelling + 2D Drawing Generation	For Unit qty: No of days x no. of persons deployed at site for 3D Scanning only.			Total rate for 3D Scanning + 3D Modelling + 2D Drawing Generation	For total Qty.= no. of days x no. of persons deployed at site for 3D Scanning only.
				Basic rate without GST (Rs)	no. of days	no. of person	Mandays	Basic rate without GST (Rs.)	Total Qty.: no. of days/ no. of person
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) = fxg	(I) = c x e	(J) = c x h
A	For Standalone components								
A.1	0-300mm	120	upto 15 microns						
A.2	300-600mm	120	upto 15 microns						
A.3	600-1200mm	50	upto 15 microns						
A.4	1200-2400mm	30	upto 15 microns						
A.5	2400-4800mm	5	upto 50 microns						
A.6	4800-9600mm	5	upto 50 microns						
B	For standalone components whose all assembly items are available at BHEL works for scanning								
B.1	0-300mm	120	upto 150 microns						
B.2	300-600mm	120	upto 150 microns						
B.3	600-1200mm	50	upto 150 microns						
B.4	1200-2400mm	30	upto 150 microns						
B.5	2400-4800mm	5	upto 150 microns						

I/We agree with the above

Signature of Bidder/Contractor with Stamp

B.6	4800-9600mm	5	upto 150 microns						
C.2	Vendor to provide starting location and it cannot be changed during framework agreement period (required for calculation of transportation charges for equipment)								

I/We agree with the above
 Signature of Bidder/Contractor with Stamp