Online Bids

(through E-Procurement Portal of CPPP)

are invited

for

ULTRA-HIGH VACUUM HEAT TREATMENT FURNACE

Tender No.: IIT(BHU)/MET-SHN/Seed grant/2022-2023/476

Last date for tender submission: 02.12.2022 (3.00 PM)

Tender opening: 05.12.2022 (3.00 PM)



Indian Institute of Technology (Banaras Hindu University) Varanasi-221005

E-mail: <u>harsha.met@itbhu.ac.in</u>

INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY) VARANASI - 221005

DEPARTMENT/SCHOOL/CENTRE: DEPARTMENT OF METALLURGICAL ENGINEERING, IIT (BHU)

Advertised Tender Enquiry Documents

(NOTICE INVITING TENDER)

IIT (BHU) Varanasi invites online tender from manufacturers (or their "authorized" dealers that they have been authorized to quote in response to this NIT) of the following items are invited:

Sl.	Tender No. and Last Date	Specifications & Quantity	Earnest Money Deposit
No.		of the item	to be submitted
	<u>IIT(BHU)/MET-SHN/Seed</u> Grant/2022-2023/476	Specification : As per ANNEXURE-1 Quantity - 01	"Bid Security DeclarationForm" as per as per Annexure-A

Tender Documents may be downloaded from Central Public Procurement Portal <u>http://eprocure.gov.in/eprocure/app.</u> Tenderers can access tender documents on the CPP Portal. Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <u>http://eprocure.gov.in/eprocure/app as</u> per the schedule given in the next page.

Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <u>http://eprocure.gov.in/eprocure/app</u>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at "Instructions for online Bid Submission".

No manual bids will be accepted. All quotation (both Technical and Financial should be submitted in the E- procurement portal).

The Tender should be addressed to **Dr. Sree Harsha Nandam, Principal Investigator, Project No: IIT(BHU)/MET-SHN/Seed Grant/2022-2023/476, Department of Metallurgical Engineering, IIT** (**BHU**), **Varanasi-221005** and should be submitted online on or before the date and time of Bid opening date as mentioned in critical date sheet.

The Institute shall not be responsible for any delay in submitting online Bids. The Institute reserves the right to accept or reject any bid, cancel the Tender without assigning any reason thereof. No correspondence in this regard will be entertained.

Dr. Sree Harsha Nandam (Assistant Prof.) Principal Investigator Project No: IIT(BHU)/MET-SHN/Seed Grant/2022-2023/476 Department of Metallurgical Engg, IIT (BHU), Varanasi-221005

INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY) VARANASI - 221005

DEPARTMENT/SCHOOL/CENTRE: DEPARTMENT OF METALLURGICAL ENGINEERING, IIT (BHU)

TENDER DOCUMENT FOR

ULTRA-HIGH VACUUM HEAT TREATMENT FURNACE

CRITICAL DATA SHEET

Name of Organization	Indian Institute of Technology
Name of Organization	Indian Institute of Technology (Banaras HinduUniversity)
Tandar	· · · · · · · · · · · · · · · · · · ·
Tender	Open
Type(Open/Limited/EOI/Auction/Single) Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell)	SUPPLY
Date of Issue/Publishing Original Tender	11.11.2022 (05.00 PM)
Document Download Start Date	11.11.2022 (05.00 PM)
Document Download End Date	02.12.2022 (03.00 PM)
Pre Bid Meeting Date*	NO PREBID MEETING
*Queries, if any, to be discussed, MUST be emailed to <u>harsha.met@itbhu.ac.in</u> , before the	Clarification Start Date: 11.11.2022 (05.00 PM)
date of Pre Bid meeting for consideration.	Clarification End Date: 18.11.2022 (05.00 PM)
Corrigendum, if any	If any - Will be intimated
Last Date and Time for Uploading of Bids	02.12.2022 (03.00 PM)
Date and Time of Opening of Technical Bids	05.12.2022 (03.00 PM)
Tender Processing Fee (including GST as applicable)	Rs. 1180/- (For Tender Processing Fee) (To be paid through RTGS/NEFT) as per the following details: Name of Account - Registrar, IIT(BHU) Name of the Bank - State Bank of India Name of Branch - IT, BHU, Varanasi Account No 32778803937 IFSC Code - SBIN0011445 The proof of payment must be enclosed with Technical Bid.
EMD	Bid Security Declaration Form as per Annexure-A
No. of Covers (1/2/3/4)	02
Bid Validity days	180 days (From last date of opening of tender)
Address for Communication	Dr. Sree Harsha Nandam (Assistant Prof.)
	Principal Investigator
	Project No: IIT(BHU)/MET-SHN/Seed Grant/2022- 2023/476
	Department of Metallurgical Engg,
	IIT (BHU), Varanasi-221005
Contact No. & E-mail Address	harsha.met@itbhu.ac.in

INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY) VARANASI - 221005

DEPARTMENT/SCHOOL/CENTRE: DEPARTMENT OF METALLURGICAL ENGINEERING, IIT (BHU)

TENDER DOCUMENT FOR

ULTRA-HIGH VACUUM HEAT TREATMENT FURNACE

INVITATION FOR BIDS

1. Online bids are invited from eligible bidders for the following:

Sl. No.	Tender no.	Specifications & quantity of the item	Earnest Money Deposit (EMD)
1.	IIT(BHU)/MET-SHN/Seed Grant/2022-2023/476	Specification : As per ANNEXURE-1 Quantity - 01	"Bid Security Declaration Form" as per as per Annexure-A

- 1. Interested eligible Bidders may obtain further information from IIT (BHU) website: <u>www.iitbhu.ac.in/iitnotifications/purchase_enquiries/</u> or from Central Public Procurement Portal (CPPP) <u>https://eprocure.gov.in/eprocure/app.</u>
- Intending bidders are advised to visit IIT (BHU) website www.iitbhu.ac.in/iitnotifications/purchase enquiries/ https://eprocure.gov.in/eprocure/app regularly till closing date of BID submission of tender for any corrigendum / addendum/ amendment.
- 3. Tender Processing Fee is to be deposited electronically by RTGS/NEFT in the account of Registrar, IIT (BHU) in the Bank details mentioned above. Bidders are required to submit the scan copy of payment receipt details of Tender fees and Bid Securing Declaration Form as EMD at the time of Bid Preparation.
- 4. This Tender Document contains the following: A. Instructions for Online Bid Submission
 - **B.** Instruction to Bidders
 - **C.** General conditions of contract (GCC)
 - D. Special Condition of Contracts
 - E. Check-list for Bid/Tender submission
 - F. Declaration Certificate
 - G. Technical specifications for the complete project (Annexure 1)
 - H. Compliance Sheet

SECTION 1: INSTRUCTION FOR ONLINE BID SUBMISSION

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (<u>URL:http://eprocure.gov.in/eprocure/app</u>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the

CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:

http://eprocure.gov.in/eprocure

Registration

- 1. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL:<u>http://eprocure.gov.in/eprocure/app)</u> by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
- 2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- 6. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.

2. Searching for Tender Documents

- 1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
- 2. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective "My Tenders" folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

3. Preparation of Bids

- 1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.
- 4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

5. Submission of Bids

1. Bidder should log into the site well in advance for bid submission so that he/she upload the bid

in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

- 2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3. Bidder has to select the payment option as "on-line" to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, Tender fees is sought, bidders need to paythe tender fee on-line through RTGS.
- 4. A standard BoQ format has been provided with the tender document to be filled by all the bidders.

Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

- 5. The server time (which is displayed on the bidders" dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 6. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields done.
- 7. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

5. Assistance to Bidders

- 1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

6. General Instructions to the Bidders

- 1. The tenders will be received online through portal <u>http://eprocure.gov.in/eprocure/app</u>. In the Technical Bids, the bidders are required to upload all the documents in **.pdf format**.
- 2. Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link "Information about DSC".
- 3. Tenderer are advised to follow the instructions provided in the "Instructions to the Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.

A. Introduction

1. Scope of Work

Supply of ultra-high vacuum heat treatment furnace

2. Cost of Bidding

The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

B. The Bidding Documents

3. Tender Processing Fees

The Tender Processing fees (Rs. 1180/-) should be submitted ONLINE as per the details mentioned above. Further, the proof of payment must be uploaded with Technical Bid. The exemption will be applicable as per Govt. of India norms.

4. Content of Bidding Documents

The goods required, bidding procedures and contract terms are prescribed in the bidding documents. In addition to Invitation of Bids, the bidding documents include:

- (a) Instructions for Online Bid Submission
- (**b**) Instruction to Bidders (ITB);
- (c) General Conditions of Contract (GCC);
- (d) Special Conditions of Contract (SCC)
- (d) Schedule of requirements;
- (e) Tender form (technical bid).
- (f) Tender form (financial bid)

The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

5. Amendment of Bidding Documents

At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.

All prospective bidders who have received the bidding documents will be notified of the amendment in writing, which will be binding on them.

In order to allow prospective bidders reasonable time within which to take the amendment into account in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids.

C. Preparation of Bids

6. Language of Bid

The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser shall be written in English language.

7. Documents Comprising the Bid

Techno commercial un-priced bid and priced Bids: The bids are to be submitted in two parts i.e. Techno commercial un-priced bid and priced Bids.

(a) Techno commercial un-priced bid along with "Bid Security Declaration Form" (submitted ONLINE in the aforementioned bank account of Institute) as shown in invitation to bids shall be submitted through CPP Portal. If the proof of "Bid Security Declaration Form" is not received along with the technical bid, such bid will not be considered. The samples (if required) of all the items shown in the schedule of requirements of each tender should also accompany the techno commercial un-priced bid in a separate sealed envelope.

(b) Priced bid.

Techno commercial un-priced bid: The Techno commercial un-priced bid prepared by the bidder shall be provided in the following Model Response format:

Model Response format

- (a) Standing of each Bidder Manufacturer/Dealer and past experience in supply of the material (certificates to be enclosed), proof of manufacturing Unit/Dealership alongwith all the documents required for proving the credentials regarding the fulfilment of essential pre-bid criteria.
- (b) List of other Govt. Departments, Public Sector units and Central Autonomous Bodies for which the bidder is supplying material or having the similar type of contracts and a certificate regarding the satisfactory performance of the contract (In the Annexure III format).
- (c) Copy of the audited balance sheet of the vendor for the previous financial year indicating the turnover in supply of the relevant materials/service.
- (d) Details of Permanent Account Number and latest income tax clearance certificate.
- (e) Details of GST No. along with a copy of certificate to be attached.
- (f) Submission of samples if required, for all items indicated in the schedule of requirements. The make of items proposed to be supplied should be indicated in the format of the schedule of requirements and submitted along with the techno commercial un-priced bid without indicating the pricing components.
- (g) Willingness to execute all orders which are placed to meet emergency requirement on priority basis. The Bidder shall note that standards for workmanship, material and equipment, and references to brand names designated by the Purchaser in the schedule of requirements are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in his bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

Price Bid

The price bid shall comprise the techno commercial bid along with the price component indicating the Unit prices for each and every item indicated in the schedule of requirements (Annexure 1).

- (a) The prices quoted must be net per unit as shown in the Schedule and must include all charges for delivery at the designated stores i.e. F.O.R. IIT (BHU), Varanasi and should be mentioned clearly.
- (b) The rate must be stated for each item separately both in words and figures. If there is a discrepancy between the price quoted in word and figures the higher price quoted will be treated as final.

(c) Quoted prices should be firm and inclusive of taxes/ custom duties, freight and forwarding charges, handling charges, loading and unloading charges, and insurance charges etc. However, the prices must be reflected clearly in BoQ format by mentioning basic rate, GST, Freight charges etc. The Institute will not provide any custom exemption certificate. Custom clearance and related expenditure is responsibility of the vendor/supplier.

(d) The prices once accepted by the Institute shall remain valid till the successful execution of the order and till supplies is fully effected and accepted or **12 months** from the date of acceptance of tender whichever is later. The Institute shall not entertain any increase in the rates during the period.

8. Bid Prices

The Bidder shall indicate on the Schedule of requirements (BoQ), the unit prices of the goods it proposes to supply under the Contract and enclose it with the priced bid.

Prices indicated on the Price Schedule shall be entered separately in the following manner:

- (i) The prices quoted must be net per unit as shown in the schedule of requirements and must include all charges for delivery at the designated stores.
- (ii) Any Indian duties, GST and other taxes which will be payable on the goods, if this Contract is awarded;

Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account.

9. Bid Currencies

Prices shall be quoted in Indian Rupees only.

10. Period of Validity of Bids

Bids shall remain valid for 180 days after the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.

In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. A Bidder granting the request willnot be required nor permitted to modify the bid.

Bid evaluation will be based on the bid prices without taking into consideration the above modifications.

D. Submission of Bids

11. The tender has to be submitted ONLINE before the due date. The offers received after the due date and time will not be considered. **No manual bids will be considered**.

12. Deadline for Submission of Bids

Bids must be received by the Purchaser ONLINE not later than the time and date specified in the Invitation for Bids.

The Purchaser may, at his discretion, extend this deadline for submission of bids by amending the bid documents in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

13. Late/Delayed Bids

The offers received after the due date and time will not be considered.

14. Modifications and Withdrawal of Bids

The Bidder may modify or withdraw its bid after the ONLINE bid's submission, as per the provision of CPP Portal.

No bid may be modified subsequent to the deadline for submission of bids. No documents will be accepted in support of essential pre-bid criteria after the last date of submission of bids.

No bid may be withdrawn in the interval between the deadline for submission of bids and the expiry of the period of bid validity specified by the Bidder on the bid form. Bid Opening and Evaluation of Bids

15. Opening of Techno commercial un-priced Bids

The purchaser will open all techno commercial un-priced bids in the first instance.

16. Clarification of Bids

During evaluation of the bids, the purchaser may, at its discretion, ask the Bidder for clarification of its bid. The request for clarification and the response shall be in writing and no change in price or substance of the bid shall be sought, offered or permitted.

No Bidder shall contact the purchaser on any matter relating to its bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Institute, it should be done in writing.

Any effort by a Bidder to influence the purchaser in its decisions on bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidder's bid.

17. Evaluation of Techno commercial un-priced Bid

Prior to the detailed technical evaluation, the purchaser will determine the substantial responsiveness of each bid. A substantially responsive bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviations and meets all the essential pre-bid criteria. If any bidder does not meet the essential pre-bid criteria as laid down in the Instruction to Bidders, then his bid will be summarily rejected. No documents will be accepted in support of essential pre-bid criteria after the last date of submission of bids.

The purchaser will reject a bid determined as not substantially responsive.

The bidders may be called for discussion and may be allowed to modify their technical bids to suit the organization's requirement. The idea is to arrive at a threshold level of acceptability above which all the bidders shall be treated on par. Those whose technical specifications do not reach the threshold level of acceptability shall be rejected as technically unsuitable. The price bids of the bidders who finally emerge as technically acceptable shall be opened, evaluated and the contract awarded to the lowest evaluated bidder.

The bidders short-listed by the purchaser based on meeting the essential pre-bid criteria and detailed evaluation regarding satisfying the technical criteria laid down in this tender document may be called for detailed discussions with a team selected for the purpose, at a specified date, time and venue, if needed.

18. Opening of Priced Bids

The Purchaser will open the Priced Bids of only those bidders who meet the essential pre-bid criteria and whose techno commercial un-priced bids have been found to be substantially responsive.

The priced Bids of the technically qualified bidders shall be opened by the tender committee.

19. Evaluation and Comparison of priced Bids

Arithmetical errors will be rectified on the following basis: If there is a discrepancy between words and figures, whichever is the higher of the two shall be taken as bid price. If the Vendor does not accept the correction of errors, its bid will be rejected

Bidders shall state their bid price for the payment schedule outlined in the Clause 14 of General Conditions of Contract. Bids will be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in bid price they wish to offer for such alternative payment schedule. The purchaser may consider the alternative payment schedule offered by the selected Bidder but it may not be binding on the purchaser.

The purchaser, at its option may ask some more bidders to match the rates of the lowest bidder for creating parallel suppliers.

The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is: **Indian Rupees**

The source of exchange rate shall be: Reserve Bank of India/Any other authentic source.

The date for the exchange rate shall be: Last day for submission of Bids.

20. Purchasers right to accept any bid and to reject any bid or all bids

The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Purchaser's action.

21. Award Criteria

- i. IIT (BHU) shall award the contract to the technically qualified eligible BIDDER whose bid has been determined as the lowest evaluated commercial bid.
- ii. If more than one BIDDER happens to quote the same lowest price, IIT (BHU) reserves the right to award the contract to more than one BIDDER or any BIDDER.

22. Notification of Award

Prior to the expiration of the period validity, the purchaser will notify the successful Bidder in writing by letter or by fax, to be confirmed in writing by speed post or hand delivered letter, that its bid has been accepted.

23. Factors Affecting the Award of Supply

The bidder should have its own Contract support facilities. The support facilities should be fully owned and managed by the bidder.

Conformity with the Request for Bid/Tender required and conditions.

The assessment based on the response to Model Response Outline.

The assessment of the capability of the bidder to meet the terms and conditions.

The bidders must have executed similar orders, for which the bidder is quoting, as indicated in clause 1 for Govt./Semi-Govt./Autonomous Organizations.

The cost and the discount offered, if any.

24. Fall clause

The price quoted by the supplier should not be higher than the maximum retail price, if any, for the stores and the same shall not be higher than the price usually charged by the supplier for stores of the same nature, class or description to any other purchaser.

The price charged for the stores supplied under the contract by the supplier shall in no event exceed the lowest price at which the supplier sells the stores of identical description to any other person during the period till performance of all supply orders placed during the currency of the contract is completed. If at any time during the period the supplier reduces the sale price of such stores or sells such stores to any other person including his dealers at a price lower than the price chargeable under the contract, he shall forthwith notify such reduction or sale to the purchaser and the price payable under the contract for these items of stores supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

If it is discovered that the supplier has contravened the above conditions, then without prejudice to any other action which might be taken against him, it shall be lawful for the purchaser to (a) revise the price at any stage so as to bring it in conformity with sub-clause(i) above, or (b) to terminate the contract and purchase the items of stores at the risk and cost of the supplier and in that event the provisions of Clause 28 of General Conditions of Contract shall, as far as possible, be applicable or recover the loss.

SECTION 3 : GENERAL CONDITION OF CONTRACTS

1. Definitions

In this Contract, the following terms shall be interpreted as indicated:

- (a) "The order" means the agreement entered into between the Purchaser and the Supplier including all the attachments and appendices and all documents incorporated as per notification of award.
- (**b**) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;
- (c) "The Goods" means all the items, which the Supplier is required to supply to the Purchaser under the Contract;
- (d) "Services" means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services training and other obligations of the Supplier covered under the Contract;
- (e) "GCC" means the General Conditions of Contract contained in this section.
- (f) "The Purchaser" means the organization purchasing the Goods i.e. IIT (BHU), VARANASI.
- (g) "The Purchaser's country" is India.
- (h) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.
- (i) "Day" means calendar day.

2. Application

These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

3. Standards

The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned Institution.

4. Use of Contract Documents and Information

The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than aperson employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessaryfor purposes of such performance.

The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information except for purposes of performing the Contract.

Any document, other than the Contract itself, shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

5. Patent Rights

The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.

6. Submission of the bids.

All bids complete in all respect must be submitted online on or before the Bid Closing date and time as mentioned on Critical Data Sheet. Tenders received without Bid Securing Declaration Form as earnest money etc. shall be rejected.

Tender documents are available on IIT (BHU) website: <u>www.iitbhu.ac.in/iitnotifications/purchase_enquiries/</u> or from Central Public ProcurementPortal (CPPP) <u>https://eprocure.gov.in/eprocure/app.</u>

Interested bidders may submit their bid through Central Public Procurement Portal (CPPP) <u>https://eprocure.gov.in/eprocure/app.</u>

7. Inspections and Tests

The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser.

The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data shall be furnished to the inspectors at no charge to the Purchaser.

Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.

The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Project Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to theGoods shipment.

Nothing in GCC Clause 7 shall in any way release the Supplier from any warranty or other obligations under this Contract.

8. Consequences of rejection

If in the event the stores are rejected by the purchaser at the destination and the supplier fails to make satisfactory supplies within the stipulated period of delivery, the purchaser will be at liberty to:

- (a) Allow the supplier to resubmit the stores in replacement of those rejected, within a specified time without any extra cost to the purchaser or
- (b) Reject the material, which shall be final and binding on the contractor.
- (c) Procure the rejected materials of comparable quality from the open market/Govt. stores and the supplier shall be liable to pay the difference in price over the RC prices or get the amount adjusted from the outstanding bills of the supplier, if any or PBG.

9. Packing

The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, in any subsequent instructions ordered by the Purchaser.

10. Delivery and Documents

The Supplier shall make delivery of the Goods within 60 days from the placement of purchase order in pursuance of the notification of award & satisfactory installation/commissioning should be within 70 days from the placement of Purchase Order.

The purchase order would be placed after assessing the requirements on quarterly basis. However, the supplier shall also arrange to execute all orders on priority basis which would be placed to meet any emergent requirements.

In case the purchaser decides to conclude parallel rate contracts, then the requirements would be split on different firms on equitable basis as per the discretion of the purchaser.

The delivery of Stores shall be affected at the premises of the Institute free of all delivery charges and within the stipulated time and as may be elucidated in the confirmed order, accompanied by a delivery challan. No extension of time for delivery of Stores shall normally be accorded.

Vendor should mention all pre-installation requirements if any with quantity.

The supplier shall mail the following documents to the purchaser with a copy to the insurance company:

- 1. 3 Copies of the Supplier invoice showing contract number, goods' description, quantity unit price, total amount;
- 2. Installation Certificate
- 3. Insurance Certificate if applicable;
- 4. Manufacturer's/Supplier's warranty certificate;
- 5. Inspection Certificate issued by the nominated inspection agency, if any
- 6. Supplier's factory inspection report; and
- 7. Certificate of Origin (if possible by the beneficiary);
- 8. The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

Time and date of delivery - the essence of the contract: The time for and the date of delivery of the stores stipulated shall be deemed to be of the essence of the contract and delivery must be completed not later than the date(s) specified.

11. Insurance

The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. The insurance shall be obtained by the suppliers in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "all risks" basis including war risks and strikes.

12. Transportation

Where the Supplier is required under the Contract to transport the Goods within India defined as Project site, transport to such place of destination in India including insurance, as shall be specified in the Contract, shall be arranged by the Supplier, and the related cost shall be included in the contract Price.

13. Warranty

The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship or from any act or omission of the Supplier that may develop under normal useof the supplied Goods in the conditions prevailing in India.

This warranty shall remain valid for at least **36 months** (or as specified) after the Goods or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, unless specified otherwise.

The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.

Upon receipt of such notice, the Supplier shall with all reasonable speed, repair or replace the defective Goods or parts thereof, without any extra cost to the Purchaser.

If the Supplier, having been notified, fails to remedy the defect(s) within a reasonable period, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

14. Payment

The payment shall be made 100% payment against Supply, Installation and Commissioning and submission of satisfactory PBG.

The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to GCC Clause 10, and upon fulfilment of other obligations stipulated in the contract.

15. Prices

Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in his bid. The bidder must mention the applicable taxes/duty and exemptions thereon, if any, as per the Government of India norms. The Institute will provide requisite certificate, if any, required by the bidder as per the applicable Govt. of India norms.

16. Change Orders

The Purchaser may at any time, by written order given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:

- (a) Drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- (b) The method of shipping or packing;
- (c) The place of delivery; and/or
- (d) The services to be provided by the Supplier.

If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall bemade in the Contract Price or delivery schedule, or both, and the Contract shall accordingly beamended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Purchaser's change order.

17. Contract Amendments

Subject to GCC Clause 16, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

18. Assignment

The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

19. Subcontracts

The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

20. Delays in the Supplier's Performance

Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser as per GCC clause 10.

If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time forperformance with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.

Except as provided under GCC Clause 23, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of penalty pursuant to GCC Clause 21, unless an extension of time is agreed upon pursuant to GCC Clause 20.2 without the application of liquidated damages.

21. Penalty

Subject to GCC Clause 23, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to1% per week and the maximum deduction is 10% of the contract price of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause 22.

22. Termination for Default

The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

- (a) If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the purchase order, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 20; or
- (b) If the Supplier fails to perform any other obligation(s) under the Contract.
- (c) If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

"For the purpose of this Clause:

"Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

"Fraudulent practice: a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;"

In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 22.1, the Purchaser may procure, upon such terms and in such manner as it deemsappropriate, Goods or Services similar to those undelivered, and the Supplier shall be liableto the Purchaser for any excess costs for such similar Goods or Services. However, theSupplier shall continue the performance of the Contract to the extent not terminated.

23. Force Majeure

Notwithstanding the provisions of GCC Clauses 20 & 21, the Supplier shall not be liable for imposition of liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such eventsmay include, but are not limited to, acts of the Purchaser either in its sovereign or contractualcapacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

24. Termination for Insolvency

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without

Compensation to the Supplier provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

25. Termination for Convenience

The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify thattermination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

The Goods that are complete and ready for shipment within 30 days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices.

26. Resolution of Disputes

The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute, either party mayrequire that the dispute be referred for resolution to the formal mechanisms as specified below. These mechanisms may include, but are not limited to, conciliation mediated by a third party, adjudication in an agreed national or international forum, and national or international arbitration.

In case of Dispute or difference arising between the Purchaser and a supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996 as amended from timeto time.

27. Governing Language

The contract shall be written in English language. Subject to GCC Clause 28, English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

28. Applicable Law

The contract shall be governed by the Law of Contract for the time being in force.

Irrespective of the place of delivery, the place of performance or place of payment under the contract, the contract shall be deemed to have been made at the place from which the acceptance of tender has been issued.

Jurisdiction of Courts: The courts of the place from where the acceptance of tender has been issued shall alone have jurisdiction to decide any dispute arising out of or in respect of this contract.

One-month notice will be given by either party for termination of Contract during the tenure of Contract for breach of Clause or otherwise.

29. Taxes and Duties

Suppliers shall be entirely responsible for all taxes, duties, license fees, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser.

30. Performance Security:

Successful bidder has to furnish **3 %** of the order value as a performance security in the shape of Fixed Deposit Receipt / Bank Guarantee in favour of the Registrar, Indian Institute of Technology (BHU) valid for a period of 60 days beyond the end of all warranty period / obligations (i.e. must valid to 38 months). Fixed Deposit Receipt / Bank Guarantee should be issued from a schedule bank in India.

31. Supplier Integrity

The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

The Institute Reserves the Right to:

- 14. Increase or decrease the quantity of the item(s) as per requirement subject to variation of maximum of 50% only, however, provided within the ceiling of the category in which the original order was placed i.e., if it is within 2.5 Lakh category than should not exceed the 2.5 lakh limit and so on.
- **15.** Reject the quotation in absence of not furnishing the documentary evidence in respect of Trade Tax Registration (G.S.T), Income Tax and Trade Tax clearance certificates together with the performance of supplies in various branches/institutions.
- **16.** Reject the quotation in the event of non-furnishing the authentic documentary evidence in respect of Testing reports / Performance report of the concerned Govt. Organization / Institutions about the products being manufactured and marketed. The performance test of the product can be conducted at Institute level also for which charge will have to be borne by the suppliers.
- **17.** Reject the supplies already made, if not found up to the mark. Thorough checking may be adopted to test the correctness of the supply. In such an event further action may call to conform or discard the supply.
- **18.** To reject any addition/alteration in respect of local dealerships intimated by the Principals after consideration of the case by the committee appointed by the Institute for the purpose.
- **19.** Cancel this Tender at any point of time without assigning any reason thereof.
- **20.** The Institute also reserves the right to reject the bid of any participated bidder
- **21.** The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:
 - (d) If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the purchase order, or within any extension thereof granted by the Purchaser.
 - (e) If the Supplier fails to perform any other obligation(s) under the Contract.
 - (f) If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- 22. To reject any or all the offers without assigning any reasons thereof.
- 23. All disputes are subject to "Varanasi Jurisdiction" only.
- 24. The decisions of the Institute in all respect shall be final and binding on all.
- **25.** The Institute reserves the right to ask the successful bidder to produce all the original documents submitted along with the bids for verification at any point of time. During the verification of the document, if it is found that the bidder has concealed/falsified/fabricated any information, the bid and/or purchase order will be cancelled and/or performance security will be forfeited and action including blacklisting will be taken against the bidder as per norms of the Institute.
- 26. Please ensure that your offer is complete in all respect as no further clarifications shall be sought from you and reaches us within the last date mentioned above. The Institute shall not be responsible for any delay etc.

Dr. Sree Harsha Nandam (Assistant Prof.) Principal Investigator Project No: IIT(BHU)/MET-SHN/Seed Grant/2022-2023/476 Department of Metallurgical Engg, IIT (BHU), Varanasi-221005 check list should be placed on TOP

NOTE: 1- While arranging the Tender Documents, check list should be placed on TOP.

SECTION 4 : SPECIAL CONDITIONS OF CONTRACT

1. Essential Pre Bid Criteria, if any

- i. Bidders should be the manufacturer (OEM) / authorized dealer. Currently valid Letter of Authorization from original equipment manufacturer (OEM) should be enclosed in case of authorized dealer participating in the Tender. The Letter of authorization shall remain valid during execution of supply and installation.
- ii. An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend all support for the warranty in confirmation with this bid for the quoted items. In case the OEM withdraws its authorization from bidder, the above service will be provide by the OEM.
- iii. Non-compliance of tender terms, non-uploading of required documents, lack of clarity of the specifications, contradiction between bidder specifications and supporting literature etc. may lead to rejection of the bid.
- iv. In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
- v. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
- vi. A notarized affidavit by the bidder that it has never been black-listed must be uploaded along with the technical Bid under cover 1, failing which the Bid shall be rejected. The original shall be submitted before the award of bid by the lowest evaluated successful bidder.
- vii. Certified Financial Statement of Bidder from a CA such as Balance Sheet and Profit & Loss account of last three financial years clearly indicating the annual turnover regarding the supply and installation of similar type of items. The annual financial turnover of bidder must not be less than 50 Lakh during Last 3 financial years.
- viii. The bidder must have executed at least one similar nature of supply and installation in any IITs/NITs/University/CFTIs during the last 3 years. Copies of Purchase Orders showing order value along with satisfactory installation certificate to be uploaded under cover 1. Similar Nature work means execution of supply, installation, testing & commissioning of <u>ULTRA-HIGH VACUUM HEAT</u> <u>TREATMENT FURNACE.</u>

NOTE: THE BID OF THOSE BIDDERS WHO FAILS TO COMPLY THE ABOVE ESSENTIAL CRITERIA WILL NOT BE CONSIDERED FOR TECHNICAL EVALUATION.

2. Documents Comprising the Bid

The tender/Bid shall be submitted online in two part, viz., Technical Bid and Commercial Bid.

I. Technical Bid

The following documents are to be scanned and uploaded as part of the Technical Bid as per

the tender document:

(a) Scanned copy of Tender Forms (Techno Commercial Un-Priced Bid), Declaration, Bidder's Information Form, and Tender Acceptance Letter;

(b) Scanned copy of proof for submission of Tender Document Fee/ Earnest Money Deposit/Exemption Certificate, if any etc.;

(c) Scanned copy of written confirmation authorizing the signatory of the Bid to commit the Bidder;

- (d) Scanned copy of quoted product brochure
- (e) Scanned copy of completely filled Annexure III with supporting documents
- (f) Scanned copy of Technical Bid and essential Pre-Bid Details, if any.

- i. Scanned copy of documentary evidence establishing the Bidder's qualifications to perform the contract if its bid is accepted and the Bidder's eligibility to bid
- ii. Scanned copy of documentary evidence, that the Goods and Related Services to be supplied by the Bidder are of eligible origin and conform to the Bidding Documents, and

(g) Scanned copy of Checklist, compliance of Essential pre-bid criteria and

Technical Compliance Sheet (Annexure II) and any other document required as per the tender;

II. Commercial Bid

The commercial bid comprises of :

- (i) Scanned copy of Tender Form (Price Bid)
- (ii) Price bid in the form of **.xls format** and to be uploaded in .xls & signed .pdf format.

The Price bid format is provided as .xls format along with this Tender Document at <u>http://eprocure.gov.in/eprocure/app.</u> Bidders are advised to download this .xls format and quote their offer/rates in the prescribed column.

In addition to the above requirements, bids submitted by a Joint Venture, shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the bid, together with a copy of the proposed Agreement, there to.

The Bidder shall furnish in the Tender Forms information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.

3. Installation & Demonstration

The supplier is required to done the installation and demonstration of the equipment within one week of the arrival of materials at the IIT (BHU) site of installation, otherwise the penalty clause will be the same as per the supply of materials.

In case of any mishappening/damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience. IIT (BHU) will not be liable to any type of losses in any form.

4. Application Specialist

The Tenderer should mention in the Techno-Commercial bid the availability and names of Application Specialist and Service Engineers in the nearest regional office.

5. Spares

The Supplier is required to provide state availability of spares for ten years, if required.

6. Training of Personnel

The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment for a minimum period of one week at the supplier's cost.

7. User List

The bidder must provide the list of users where they have deployed similar nature of equipments in last 5 years in prescribed format of Annexure III.

8. Manuals/Documents

1 set of hard copy and 1 set of soft copy in English (preferred as following).

- i. Operating manual
- ii. Servicing & Maintenance manual
- iii. Spare parts list with source of supply and prices
- iv. Pre-installation requirements.

10. Services

Vendor must submit Factory Acceptance Test procedure supported with relevant printed

literature and certificates.

11. The Tender document should also indicate what kind of service/maintenance is required for the system. Whether this service has to be carried out by a company engineer or it can be carried by trained service personnel within India. The frequency of visit and the charges should be mentioned.

12. The Tender should be enclosed with proper certifications like **Authorization Certificate** and **Proprietary Certificate** (in case of Proprietary items).

13. Pre-installation site preparation/inspection requirements to be indicated and specified along with the bid.

14. Bid should include FOR IIT(BHU), Varanasi prices. The Institute will not provide requisite certificate, if any, required by the bidder as per the applicable Govt. of India norms.

15. The vendor to provide compliance statement with respect to each technical specification in the tender document duly supported by the manufacturer's literature. Any other claim will not be accepted and may lead to rejection of the bid.

16. Printed literature in support of compliance to the prescribed specifications is to be submitted.

17. Compliance report needs to be submitted as a part of the technical bid.

18. Exemption is allowed from payment of Tender fees and EMD as per Government of India norms against submission of currently valid certificate specifically for the item(s) proposed to be procured through this Tender.

IMPORTANT NOTE:

1. Non-compliance of tender terms, non-uploading of required documents, lack of clarity of the specifications, contradiction between bidder specifications and supporting literature etc. may lead to rejection of the bid.

2. In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

3. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit

a bid on behalf of another Principal/OEM in the same tender for the same item/product.

Note: All documents in support of above essential pre-bid criteria shall be

scanned and uploaded under cover 1.

SECTION 5 : CHECKLIST FOR BID/TENDER SUBMISSION

	(The following check-list must be filled in and submitted with the bid documents)						
Sl. No.	Particulars : Techno Commercial Un-Priced Bid (Cover – 1)	Yes/No					
1	Have you attached the techno commercial unpriced bid form duly filled in appropriately?						
2	Have you attached a copy of the last audited balance sheet of your firm (starting from the year 2018-19)						
3	Have you attached the details of the income tax clearance certificate, proof of manufacturing unit/ dealership letter/ general order suppliers and copy of GST registration certificate?						
4	Have you executed the similar nature of work in last 3 year in IITs/NITs/Govt. Office/PSU/University/Autonomous Body						
5	Have you attached the copies of relevant work orders from Govt. Depts. / PSUs and Central Autonomous Bodies in prescribed Format?						
6	Bid Security Declaration Form : Have you submitted Bid Security Declaration Form asked for.						
7	Have you submitted samples of all items indicated in the respective schedule of requirements at the address of tender inviting authority within due date.						
8	Have you enclosed the schedule of requirement indicating the make offered without indicating the pricing components along with the techno commercial unpriced bid?						
9	Have you submitted the bids both techno commercial unpriced and priced bid separately for each tender?						
10	Have you enclosed the statement of deviations from financial terms and conditions, if any?						
11	Have you submitted the Technical Compliance Sheet?						
12	Have you attached Manufacturer's Authorization certificate for this Tender?						
13	Have you attached the Declaration on the letter pad of Bidder?						
14	Have you attached the compliance of Pre-qualification criteria?						
15	Have you attached the signed Tender acceptance letter?						
Price	Bid						
1	Have you signed and attached the priced bid form?						
2	Have you attached the schedule of requirements duly priced i.e. BoQ?						

Compliance Sheet of Essential Pre Bid Criteria

Sl. No.	Essential Pre Bid Criteria	Compliance
1.	Bidders should be the manufacturer (OEM) / authorized dealer. Currently valid Letter of Authorization from original equipment manufacturer (OEM) should be enclosed in case of authorized dealer participating in the Tender. The Letter of authorization shall remain valid during execution of supply and installation.	
2.	An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend all support for the warranty in confirmation with this bid for the quoted items. In case the OEM withdraws its authorization from bidder, the above service will be provide by the OEM.	
3.	A notarized affidavit by the bidder that it has never been black-listed must be uploaded along with the technical Bid under cover 1, failing which the Bid shall be rejected. The original shall be submitted before the award of bid by the lowest evaluated successful bidder.	
4.	Certified Financial Statement of Bidder from a CA such as Balance Sheet and Profit & Loss account of last three financial years clearly indicating the annual turnover regarding the supply and installation of similar type of items. The annual financial turnover of bidder must not be less than 50 Lakh during Last 3 financial years.	
5.	The bidder must have executed at least one similar nature of supply and installation in any IITs/VITs/University/CFTIs during the last 3 years. Copies of Purchase Orders showing order value along with satisfactory installation certificate to be uploaded under cover 1. Similar Nature work means execution of supply, installation, testing & commissioning of ULTRA-HIGH VACUUM HEAT TREATMENT FURNACE.	

SECTION 6

DECLARATION

(On the letter head of the firm submitting the bid)

- 1. I, ______Son /Daughter of Shri______ ------ Proprietor/ Partner/ CEO /MD/ Director/ Authorized Signatory of M/s. ------ am competent to sign this declaration and execute this tender document.
- **2.** I have carefully read and understood all the terms and conditions of the tender and hereby convey my acceptance of the same.
- **3.** The information/ documents furnished along with the above application are true and authentic to the best of my knowledge and belief.
- **4.** I/ we/ am are well aware of the fact that furnishing of any false information/ fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.
- **5.** Each page of the tender document and papers submitted by my Company is authenticated, sealed and signed, and I take full responsibility for the entire documents submitted.
- 6. This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.
- **7.** The prices quoted in the price bids are subsidized due to academic discount given to IIT (BHU), Varanasi.
- **8.** We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/Govt. Department/Public Sector Undertaking in the last three years.

Signature of the Authorized Person

Date: -----

Full Name -----

Company Address with Seal

Place: -----

SECTION 7

TENDER FORM

(Techno commercial un-priced Bid)

(On the letter head of the firm submitting the bid)

Tender No. To Dr. Sree Harsha Nandam (Assistant Prof.) Principal Investigator Project No: IIT(BHU)/MET-SHN/Seed Grant/2022-2023/476 Department of Metallurgical Engg, IIT (BHU), Varanasi-221005 Dear Sir,

1. I/We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders;

- 2. I/We meet the eligibility requirements and have no conflict of interest;
- 3. I/We have not been suspended nor declared ineligible in India;
- 4. I/We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: *[insert a brief description of the Goods and Related Services]*;
- 6. I/we shall be bound by a communication of acceptance issued by you.
- 7. I/We have understood the Instruction to bidders and Conditions of Contract in the form as enclosed with the invitation to the tender and have thoroughly examined the specifications quoted in the Schedule hereto and am/are fully aware of the nature of the goods required and my/our offer is to supply the goods strictly in accordance with the specifications and requirements.
- 8. Bid Security Declaration Form has been uploaded.
- 9. The following have been added to form part of this tender.
 - (i) Schedule of requirements, quoting the make only duly signed and stamped, (without indicatingprice)
 - (j) Income Tax clearance certificate.
 - (k) Copy of last audited balance sheet.
 - (l) Copy of Valid GST registration certificate.
 - (m) Copy of similar relevant major purchase orders executed during last Five years in IITs/NITs/Govt. Office/PSU/University/Autonomous Body.
 - (n) Proof of manufacturing Unit, dealership certificate/general order suppliers.
 - (o) Statement of deviations from financial terms & conditions, if any.
 - (p) Any other enclosure. (Please give details)
- 10. We undertake to execute all orders which have been placed to meet emergent requirements on priority basis.
- 11. Certified that the bidder is:
 - (d) A sole proprietorship firm and the person signing the bid document is the sole proprietor/constituted attorney of the sole proprietor,

Or

(e) A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney.

Or

(f) A company and the person signing the document is the constituted attorney.

(NOTE: Delete whatever is not applicable. All corrections/deletions should invariable be duly attested by the person authorized to sign the bid document).

- 12. We do hereby undertake that, until a formal notification of award, this bid, together with your written acceptance thereof shall constitute a binding contract between us.
- 13. If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- 14. We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process, other than alternative bids submitted;
- 15. We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of fraud and corruption

Name of the Bidder*

Name of the person duly authorized to sign the Bid on behalf of the Bidder**

Title of the person signing the Bid

Signature of the person named above

Date signed day of

* In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder ** Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid Schedules. Yours faithfully,

(Signature of bidder)
Dated this day of
Address:
Telephone No. :
FAX
E-mail

Company seal

TENDER FORM

(**Priced Bid**) (On the letter head of the firm submitting the bid document)

To, Dr. Sree Harsha Nandam (Assistant Prof.) Principal Investigator Project No: IIT(BHU)/MET-SHN/Seed Grant/2022-2023/476 Department of Metallurgical Engg, IIT (BHU), Varanasi-221005

Ref: Tender No......Dated:

Sir,

Having examined the bidding documents and having submitted the techno commercial unpriced bid for the same, we, the undersigned, hereby submit the priced bid for supply of goods and services as per the schedule of requirements and in conformity with the said bidding documents.

- 1. We hereby offer to supply the Goods/Services at the prices and rates mentioned in the enclosed schedule of requirement.
- 2. We do hereby undertake that, in the event of acceptance of our bid, the supply of Goods/Services shall be made as stipulated in the schedule of requirement and that we shall perform all theincidental services.
- 3. The prices quoted are inclusive of all charges net CIP New Delhi/FOR IIT(BHU) Varanasi and should be mentioned clearly. We enclose herewith the complete Financial Bid as required by you.This includes:
 - a. Price Schedule (Bill of Quantity-BOQ).
 - b. Statement of deviations from financial terms and conditions.
- 4. We agree to abide by our offer for a period of 180 days from the date fixed for opening of the biddocuments and that we shall remain bound by a communication of acceptance within that time.
- 5. We have carefully read and understood the terms and conditions of the bid document and we do hereby undertake to supply as per these terms and conditions. The Financial Deviations are onlythose mentioned in the statement of deviations from financial terms and conditions.

6. We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]

Name of Recipient	Address	Reason	Amount	

(If none has been paid or is to be paid, indicate "none.")

- 7. We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- 8. We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Certified that the bidder is:

A sole proprietorship firm and the person signing the bid document is the sole proprietor/ constituted attorney of sole proprietor,

Or

A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney,

Or

A company and the person signing the bid document is the constituted attorney. (NOTE: Delete whatever is not applicable. All corrections/deletions should invariably be duly attested by the person authorized to sign the bid document.)

We do hereby undertake that, until a formal notification of award, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.

Dated this day of	of		
Signature of Bid	der		
Details of enclose	sures		
Full Address:			

Telephone No.	
Mobile No. :	
Fax No. :	
E-mail:	

Company Seal

BIDDER INFORMATION FORM

Date: ADVT. No.:

1. Bidder's Name:
2. In case of JV, legal name of each member : [insert legal name of each member in JV]
3. Bidder's actual or intended country of registration:
4. Bidder's year of registration:
5. Bidder's Address in country of registration:
6. Bidder's Authorized Representative Information
Name:
Address:
Telephone/Fax numbers:
Email Address:
7. Attached are copies of original documents of [check the box(es) of the attached original documents]
• Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above.
• In case of JV, letter of intent to form JV or JV agreement.
In case of Government-owned enterprise or institution, documents establishing:
 Legal and financial autonomy Operation under commercial law Establishing that the Bidder is not dependent agency of the Purchaser
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

TENDER ACCEPTANCE LETTER

(To be given on Company Letter Head)

Date:

Dr. Sree Harsha Nandam (Assistant Prof.) Principal Investigator Project No: IIT(BHU)/MET-SHN/Seed Grant/2022-2023/476 Department of Metallurgical Engg, IIT (BHU), Varanasi-221005

Sub: Acceptance of Terms & Conditions of Tender. Tender Reference No. Name of Tender/ Work: -

Dear Sir,

1. I/We have downloaded/ obtained the tender document(s) for the above mentioned "Tender/Work" from the web site(s) namely:

as per your advertisement, given in the above mentioned website(s).

- I/We hereby certify that I/We have read the entire terms and conditions of the tender documents from
 Page No._____ to _____ (including all documents like section(s), schedules(s)
 etc.), which form part of the contract agreement and I/we shall abide hereby by the terms/conditions/
 clauses contained therein.
- 3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
- 4. I/We hereby unconditionally accept the tender conditions of above mentioned tender document(s)/ corrigendum(s) in its totality/entirety.
- 5. In case any provisions of this tender are found violated, then your department/organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid.

Yours faithfully,

(Signature of the Bidder, with Official Seal)

FORMAT OF BANK GUARANTEE FORM

- **1.** This guarantee should be furnished by a Nationalized Bank / scheduled Bank, authorized by RBI to issue a Bank Guarantee.
- 2. This bank guarantee should be furnished on stamp paper of Rs. 100/-
- 3. The stamp paper should have been purchased in the Name of the Bank executing the Guarantee.
- 4. In the case of foreign bidder, the B.G may be furnished by an international reputed bank acceptable to the PURCHASER countersigned by any Nationalized / Scheduled Bank in India authorized by Reserve Bank of India.

DATE:

BANK GUARANTEE NO:

Ref.:_____ To Indian Institute of Technology (Banaras Hindu University) Varanasi-221005

Dear Sirs,

In 	accordance			"Invitation		herein aft	ter calle	d the Cont	Tender ractor/su	M/s:
	the following l	Directors	on their I	Board of Dire	ctors / p	artners of	the firm.			
					2 4					-
Agre	ees for the contr	ract/suppl	ies:							
As	an	irrevoc	able	Bank	Gua	rantee	for	an	an	nount of
Rs.		days fro	m		(in	words	and	figures)	valid	for mitted by
with acce (3) f recei	Contractor/Sup drawal or revi ptance of the L ailure to furnis ipt of the pure uments such as_	sion of the sion of the sion of the side o	he offer ntent / pu id contra ler and (by the Bidd rchase order ct performan (4) on the h	er as a by the b ce guara appening	condition idder whe intee by the g of any	within on issued he bidde continge	the validit within the r within or encies mer	y period. validity ne month	. (2) non- period. from the
We,	the				F	Bank at				
	ng our Head o									
and of	undertake			ediately or			-	IIT (BH (in	U) the figur	
word	ls) without a							such dem	-	
Purc	haser shall be	conclusiv	e and bir	ding on the l	Bank irr	espective	of any d	ispute or d	ifference	raised by
the p	ourchaser.									

The guarantee shall be irrevocable and shall remain valid up to ______ (This date should be 6 months after execution of the order). If any further extension of this guarantee is required the same shall be extended to such required period (not exceeding one year) on receiving

instruction from M/s	_on	whose	behalf
this guarantee is issued.			

In witness whereof the Bank, through its authorized officer has set its hand and stamp on this ______day of ______at _____at _____.

WITNESS

(Signature)
Name in (Block letters)
Designation
(Staff Code No.)
(Bank"s common Seal)
Official address:
Attorney as per power of Attorney No.
Date:

FORMAT FOR PERFORMANCE BANK GUARANTEE (PBG)/ PERFORMANCE SECURITY

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred)

(TO BE ESTABLISHED THROUGH ANY OF THE NATIONALISED COMMERCIAL BANKS (WHETHER SITUATED AT VARANASI OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT VARANASI)

To, The Registrar, Indian Institute of Technology (BHU), Varanasi-221005

LETTER OF GUARANTEE

This Bank further agrees that the decision of Indian Institute of Technology (BHU), Varanasi (Buyer) as to whether the said bidder (Seller) has committed a breach of any of the conditions referred in tender document / Award of Contract shall be final and binding.

2. This Bank Guarantee shall be valid up to.....(date) and

3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if IIT (BHU), Varanasi serve upon us a written claim or demand on or before

Yours truly,

Signature and seal of the guarantor: Name of Bank: Address:

Date:

SECTION 8

ANNEXURE-1

SCHEDULE OF REQUIREMENTS



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TECHNICAL SPECIFICATIONS:

Technical specifications for ULTRA-HIGH VACUUM HEAT TREATMENT FURNACE ULTRA-HIGH VACUUM HEAT TREATMENT FURNACE of the following Specifications are required.

Introduction: Many of the metallurgical samples are prone to oxidation at high temperatures. In this regard, it is essential to perform the heat treatment in either a protected atmosphere or in ultra-high vacuum. Some of the samples can even oxidize in protective atmosphere. The purpose of a high vacuum heat treatment furnace is to do various kinds of heat treatment of the samples so that they can be further tested for other properties without any degradation of the sample itself.

Scope: Supply, installation, commissioning, and user training of ultra-high vacuum heat treatment furnace for performing heat treatment of metallic alloys and composites.

S.No.	Description	Specifications
1.	Furnace type	Horizontal tube type
2.	Furnace outside shell	700(W)x700(D)x600(H)
3.	Furnace stand cum control panel size	700(W)x700(D)x900(H)
4.	Furnace over all size	700(W)x700(D)x1500(H)
5.	Shell construction	Double wall
6.	Tube dimension (99.8% alumina,Impervious quality,Recrystalised Alumina)	Inner Diameter – 30-50 mm Outer Diameter – 40-50 mm Hot zone Length – 120-160 mm Total tube length – 700-800 mm
7.	Max. Furnace Temp	1200 °C
8.	Normal operating temperature	1000 °C
9.	Power rating	3 KW
10.	Maximum rate of rise of temperature	3-4 °C per minute from 450 °C to 1400 °C.
11.	No of control zones	One
12.	Location & thermocouple	"R" type, Thermocouples should be provided close to the hot zone so that the exact temperature will be known. If necessary, thermocouples can be placed in other locations for better accuracy.
13.	Type of temperature control	PID controller by means of Thyristor
14.	Furnace temperature uniformity	+/- 3 °C at maximum operating temperature at the end of two hours soaking.
15.	Furnace excess temperature controller	One no provided as safety to cut off power to heating elements in case of excess temperature condition.
16.	Safety features	Excess temperature protection Thermocouple broken indication Earthing terminal to avoid electrical current Leakage
17.	Power supply	415V,+/- 10%,50Hz,+/-5%, two phase supply.
18.	Skin Temp.	30 °C above ambient
19.	Furnace Casing	The furnace should be fabricated in a two stage pattern. One inner structure should be made off suitable MS sheet (~2mm thick) and this should hold all the insulation and bricks. Outer body will be made of MS Sheet. There should be a gap in between inner and outer structure for air flow in between. Suitable capacity cooling fan should be provided to minimise the skin temp. Skin temp can be approx. 20-30 °C above ambient

		conditions.
20.	Insulation	Furnace hot face should be of high temperature board 1800 °C. Back up insulation should consist of ceramic fibre boards of 1600,1400 & 1260 quality. Special air insulation should be provided in between outer casing and insulation by a forced air fan. This will reduce outer skin temperature to a minimum.
21.	Tube	Recrystallized alumina tube can be used as inner heating tube. The tube should be of 30-50 mm inner diameter, 40-50 mm outer diameter and hot zone 120-160 mm long. Total length of the tube can be 700-800 mm Water cooled SS310/Aluminium flange should be provided at both ends of the tube so that gas supply connection can be made easily.
22.	Heating element	Kanthal Super heating elements should be used.
23.	Temperature control system	The furnace should be provided with single zone automatic temperature control system consisting of the following equipment. One Automatic PID type programmable temperature indicating controller. One Indicating type excess temperature controller. Two 'R' type thermocouple.
24.	One thyristor	One solenoid valve, needle valve should be provided for controlling the gas flow with all the fittings as vacuum compatible.
25.	High vacuum pumping system	The vacuum system should consist of the pumping stack which include air cooled diffusion pump, high vacuum valve, rotary pump, collar, Backing and roughing valves, frame and Analog combined gauge. The basic system should be capable of giving the vacuum of the order 10 ⁻⁶ mbar or less. Rotary vane pump used on the pumping station can be direct driven with built in anti-suck back device, the oil fill and drain ports as well as the oil level indicator should be readily accessible on the material face of the station for easy maintenance. The pumping station should include the vent valve, gas admittance valve and the collar to facilitate for easy connection. One Digital Pirani-Penning A combined gauge should be provided for monitoring vacuum of backing, roughing and high vacuum. Complete system should be assembled in a compact frame, so that it can be mobile with castor wheels with brakes.
26.	Specifications for diffusion pump	4 ¹ ⁄ ₂ " Size diffstack type of diffusion pump with built in water cooled chevron baffle can be used as a high vacuum pump. The pump should be made out of SS 304 material and it has to have the following specification. Size : 4 ¹ ⁄ ₂ " Pumping speed : 500 lits/sec. (unbaffled pumping) Critical Backing Pressure : 0.1 mbar Recommended backing pump : 250 Lit/min Recommended fluid charge : 100 ml (DC – 704 Oil) Inlet connection (Fore line) : Flange ID 114 Outlet connection : KF – 25 Water requirements : 2 Lit/min Warm up time (in minutes) : 30 Heater power : 500 W Material : SS 304. Ultimate vacuum : 1 x 10-6 mbar Cooling water temperature : 200 C to 250 C Protection : Water flow switch and thermal cut off.
27.	Rotary Vacuum Specifications	Free air displacement capacity : 250 lit/min $(15m^3/h.)$ Ultimate vacuum at the intake with Mecleod Gauge (With Gas ballast Closed) : $1x10^{-3}$ mbar. Vacuum with gas ballast open : $5x10^{-2}$ mbar. Vacuum connection : KF-25 Exhaust port : KF-25 Motor Power : $\frac{1}{2}$ HP, Single- Phase. (230V/AC 50 Hz.) Cooling : Forced air cooling. Pump rotation speed : 1440 rpm. Oil temperature : 550 C. after 7 hours. No. of stages : 2. Oil Capacity : 0.75 lit Seal material : Viton Noise level : 60 dB Overall dimension LBH : 500 x 132 x 250mm Weight : 26 kg.
28.	Liquid Nitrogen Trap	This should be fitted above the diffusion pump. It is essentially a double
		walled container containing LN2 in the central chamber. The inner surface gets cooled when LN2 filled and condenses water vapour and other 35

		condensables, thereby reduces the pressure by large extent. It requires 1.25 liters. With the use of LN2 trap ultimate vacuum is 10 ⁻⁶ mbar.
29.	Vacuum Valves	Manually operated 4"size quarter swing butterfly type of valve can act as a high vacuum valve. 1" quarter swing butterfly valve can be used as backing and roughing valve.
30.	Vacuum Measuring Gauges	Two pirani Gauge heads and One penning gauge head should be used to measure the vacuum. It is a micro processor based gauge operated on cold cathode penning discharge principle. The pirani gauge measures vacuum from atmosphere to $1 \ge 10^{-3}$ mbar and penning gauge measures from 10^{-3} mbar to $1 \ge 10^{-6}$ mbar and the combined pirani-penning gauge measures vacuum from atmosphere to $1 \ge 10^{-6}$ mbar.
31.	SS Collar	A collar made up of SS 304 should be provided at the top of 4" high vacuum valve. It should house Penning gauge head for measurement of high vacuum, roughing line, Gas admittance valve and air admittance valve. Top of the collar flanged with KF-25 with blank flange.
32.	Frame	The whole assembly should be mounted on a compact frame with castered wheel for easy mobility.
33.	Plumbing Line	Plumbing line should consist of roughing and backing line and should be made out of metal and flexible Vacuum hose with KF 25 coupling. Backing and roughing butterfly valves and pirani gauge head adaptor should be fixed in the plumbing line.
34.	Electrical Wiring	All components should be wired internally with interlock and only a mains power cable with plug should be taken out. Mains Supply: 230V AC, Single phase, 50 Hz. 15 Amps.
35.	Safety Precautions	Complete electricals circuit should be designed with well protection such as tripping circuit breaker. Diffusion pump should be protected with water flow switch and thermostat. Diffusion pump should be interlocked with Rotary pump.
36.	Mounting frame	All the components should be housed in a MS frame with front panel for mounting gauge controls etc. This unit should be provided with castor wheel for easy mobility.
37.	Control panel	The control panel should be built under the furnace which serves as furnace support and houses all the necessary electronics.
38.	Welding	All SS welding should be done by TIG Argon Arc welding with continuous Argon flow by a qualified welder.
39.	Leak testing	Individual components should be leak tested by Helium Mass Spectrometer Leak Detector to an individual leak rate better than 1×10^{-8} std.cc/sec.
40.	Door 'O'ring Cooling	Hinged door 'O' ring should be water cooled with inlet and outlet for water can be provided around the door flange containing 'O' ring.
41.	Fabrication drawing	It would be better if the bidder can provide the detailed fabrication drawing before starting the fabrication process.
42.	Pre-dispatch inspection	If possible, the items can be offered for inspection at the bidder's company site.
43.	Operation manual	Operation manual will be supplied to you at the time of despatch.
44.	Installation	The engineer of the company shall install the equipment free of cost at our site.
45.	Warranty	A guarantee should be provided for the furnace for a period of 36 months from the date of commissioning.

General:

General:

- (i) The party should install commission and demonstrate the ULTRA-HIGH VACUUM HEAT TREATMENT FURNACE at IIT(BHU), Varanasi. During installation & commissioning at IIT(BHU), the party has to bear all the costs related to the personnel.
- (ii) Warranty: Comprehensive warranty for three (03) years is required from the date of commissioning of the ULTRA-HIGH VACUUM HEAT TREATMENT FURNACE and all of its accessories.
- (iii) The party has to submit the list of bought-out-items indicating their specification, make and source; calibration certificates of all its accessories.
- (iv) Installation and Training: By qualified persons from the supplier of the equipment at our site.
- (v) **Operation manual:** Party has to give operation manual (2 No's) indicating step by step operating procedure for the **ULTRA-HIGH VACUUM HEAT TREATMENT FURNACE.**

Warranty: Comprehensive warranty for three (03) years is required from the date of commissioning on the ULTRA-HIGH VACUUM HEAT TREATMENT FURNACE and all of its accessories.

Yours faithfully,

(Signature of the Bidder, with Official Seal)

TECHNICAL COMPLIANCE STATEMENT

(To be submitted by bidder duly filled)

	<u>Iender for Ultra-High Vacuum Heat Treatment Furnace</u>				
S.No.	Technical specifications for Ultra-High Vacuum Heat Treatment Furnace	Technical Compliance (Yes/No)			
1.	Ultra-High Vacuum Heat Treatment Furnace				
2.	Operation: Vacuum conditions: 10⁻⁶ mbar or lower				
3.	Normal operating temperature: 1000 °C				
4.	Suitable for specimens of 2 cm x 2 cm x 2 cm				
5.	Suitable for gas purging, if necessary				
	All the emergency procedures should be outlined and detailed documents should be provided to IIT(BHU) Varanasi.				
7.	Safety Features: Fully enclosed hot zone and all the electrical connections are up to the required safety standards				
8.	Instruction manual and all the necessary accessories for the Ultra-high vacuum heat treatment furnace should be included				
9.	Spares: State availability of spares for five years.				
10.	Installation and Training: Installation should be done by the supplier and should be free of cost. On- sites training for operation and application should be given to users free of cost.				
	Warranty and maintenance:				
11.	The complete system should be under Comprehensive warranty for a period of 3 years from the date of installation.				
12.	Indian agency Commission (if applicable): Should be clearly stated in the financial bid in Indian currency.				
13.	Standard Accessories: All the standard accessories should be arranged for smooth operation of machine.				

Tender for Ultra-High Vacuum Heat Treatment Furnace

The above compliance statement form is only indicative and can be modified according to requirements of the bidder.

The details of the model quoted along with the technical specifications for which quoted must be submitted. **Declaration:** I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

Signature of Tenderer Name: _____ Designation: _____ Organization Name: _____ Contact No.: _____

Date:....

SECTION 9

PREVIOUS SIMILAR ORDER EXECUTED

Please quote best minimum prices applicable for a premier Educational and Research Institution. The party must give details of purchase orders identical or similar equipment supplied to any IITs/NITs/Govt. Office/PSU/University/Autonomous Body as per below Format in last Five years (to be enclosed in Price Bid / Commercial Bid) along with the final price paid and details are mandatory.

Name of the Firm _____

Order	Order	Description	Value	Date of	Remarks	Has the	Contact
placed by	No. and	and	of	completion	indicating	Equipment	Person
(Full	Date	quantity of	Order	of delivery	reasons for late	being	along
address of		ordered		as per	delivery, if any	installed	with
Purchaser)		equipment		contract	and	satisfactorily	Telephone
					justification for	(Attach a	No.,
					price	Certificate	Fax No.
					difference of	from	and e-
					their	the	mail
					supply order &	Purchaser/	address.
					those	Consigner)	
					quoted to us		

(Kindly enclose the scan copy of aforementioned purchase orders)

Details of Technical Expert

Name of application specialist / Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.

Name of the organization	Name of Contact Person	Contact No.	

Signature and Seal of the Manufacturer / Bidder _____

Place :

Date : _____

BID SUBMISSION

Online Bid Submission:

The Online bids	(complete in all r	respect) must be	uploaded online in two	Envelops as ex	plained below: -

Envelope - 1 (Following documents to be provided as single PDF file)				
	(1 0)			
Sl. No.	Document	Content	File Types	
1.	Technical	Technical Compliance Sheet	.PDF	
2.	Bid	Organization Declaration Sheet	.PDF	
3.		Checklist, Tender Acceptance, Tender Form, Annexure 1 etc.		
4.		List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III)	.PDF	
5.		Technical supporting documents in support of all claims made at Annexure-I	.PDF	
6.		EMD and Tender fee submission proof	.PDF	
7.		Brochure of quoted product	.PDF	
8.		Other Documents, if any which are not covered above	.PDF	
		Envelope - 2		
Sl. No.	Document	Content		
1	Financial Bid	Price bid Form should be submitted in PDF format.	.PDF	
2		BoQ in .xls Format	.XLS	

Bid Securing Declaration Form

То

(insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with IIT(BHU), Varanasi for a period of two years from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity or its extended period, if any; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity

(i) fail or refuse to execute the contract, if required, or

(ii) fail or refuse to furnish the Performance Bank Guarantee, in accordance with the Instructions to Bidders.

c) If the bidder is found indulging in any corrupt, fraudulent or other malpractice in respect of the bid;

or

d) If there is a discrepancy between words and figures quoted by the bidder then in that case the amount quoted in words will be treated as final.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed:

(Insert signature of person whose name and capacity are shown in Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a consortium, the Bid Securing Declaration must be in the name of all partners to the consortium that submits the bid)