

**Indian Institute of Technology Kharagpur  
Kharagpur — 721302**

Tender Ref No: IIT/ME/NDC/Equip/VT/2019-20

Date: 16/08/19

**Sub:** Supply, installation and commissioning of **HEATED VACUUM TABLE** in the department of Mechanical Engineering Department at **IIT KHARAGPUR**

Indian Institute of Technology, Kharagpur, invites sealed bids from reputed and time-tested manufacturer or their authorized Distributor/Dealer (foreign firms or their Indian Representative company) who have adequate credential with a positive feedback from earlier consumers for supply, installation and commissioning of

**“Heated Vacuum Table”,**

required for dedicated use in relevant research purposes, as per Annexure-I in Mechanical Engineering Department, Indian Institute of Technology, Kharagpur, India.

Interested parties may submit their sealed bids under Two-Bids system strictly following the Technical Specifications given at Annexure I and General Terms & Conditions and Special instructions given at Annexure II and Annexure III. Bidders are required to submit their details in the format given at Annexure IV along with their technical bids. They are also required to submit a signed Declaration in format given at Annexure V. Checklist and Compliance statement against each item of Annexures I thereon severally and individually shall also be submitted. Kindly refer to the Institute website [www.iitkgp.ac.in](http://www.iitkgp.ac.in) [link: Tenders] for complete tender details. The same is also available in the CPP Portal [<https://eprocure.gov.in/eprocure/app>]. If there is any corrigendum/addendum, it shall only be published on Institute’s Website and Central Public Procurement Portal.

The tender is to be sent in a sealed packet, containing two separate sealed envelopes (one each for Technical Bid and Price Bid) with the demand drafts of the prescribed tender fee and EMD to the

**Dr Nilanjan Das Chakladar**  
**Department of Mechanical Engineering,**  
**Indian Institute of Technology Kharagpur, P.O. Kharagpur Technology,**  
**PIN 721302, West Bengal, India.**

The technical bid will be evaluated first and price bids will be opened in respect of those OEMs/Vendors, who are found technically qualified after evaluation of Technical bids. Date for opening price bids will be intimated later.

Earnest Money Deposit (EMD): An amount of Rs. 60,000/- (Rupees Sixty thousand only) in the form of Demand Draft drawn in favor of “IIT Kharagpur”, payable at Kharagpur.

Chairman, Purchase Committee  
Department of Mechanical Engineering,  
IIT Kharagpur

Head of the Department  
Department of Mechanical Engineering  
IIT Kharagpur

Copy to: -

1. Head, Institute Information Cell
2. Chairman Purchase Committee
3. Deputy Registrar (Store and Purchase)
4. Notice Board
5. CPP Portal
6. Institute Website
7. Guard File

## **Important elements**

Tender Reference	IIT/ME/NDC/Equip/VT/2019-20
	Date: 16/08/19
Earnest Money Deposit (EMD)	Rs. 60,000/-
Tender fee	Rs. 5,000/-
Last Date and Time for submitting the tender document	<b>17.09.2019 up to 3.00 pm</b>
Time and Date of Opening of Technical Bids	<b>17.09.2019 at 4.00 pm</b>
Place of Opening tender offers	Office of Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, P.O. Kharagpur Technology, PIN 721302, West Bengal, India.
Address of Communication	Dr Nilanjan Das Chakladar, Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, P.O. Kharagpur Technology, PIN 721302, West Bengal, India.
Contact Telephone Numbers	91-3222-282926
E-mail:	<a href="mailto:ndaschakladar@mech.iitkgp.ac.in">ndaschakladar@mech.iitkgp.ac.in</a>

**HEATED VACUUM TABLE SPECIFICATION**

*No compromise in the specifications would be entertained for any reason.*

PURPOSE: Single set up for debulking and curing of composite parts

QUANTITY: **1 (One)**

WORK TABLE AND GENERAL SPECIFICATION:

**Dimensions: 75 inch×66 ½ inch × 42 ½ inch**

FEATURES OF THE MACHINE:

- a. **Electrical requirements: 200VAC 3 Phase heaters 7900W**
- b. **Ramp Temperature Control**
- c. **16 channel data logger and monitor (with lid)**
- d. **Reusable and highly stretchable vacuum membrane with up to 800% elongation factor**
- e. **Curing temperature up to 204 deg C**
- f. **Multiple ramp option for temperature control**
- g. **Durable and multi-stranded heating system for uniform heat distribution.**
- h. **2 stage electric oil-less in-built vacuum pump**
- i. **Fuse protected and sensor break protection systems installed**

MANUFACTURER REQUIREMENT:

- **The original equipment manufacturer must be highly reputed in manufacturing **Heated Vacuum Table** for fabrication of composite structures and must have an annual turnover at least Rs. 60 Crore. Supporting and valid document should be provided.**
- **The manufacturer / supplier must provide a Customer List in India (showing at least 10 Customers) of similar machines with supporting document.**
- **If the product has already been sold to other research labs or research institutes, supporting documents should be provided.**

Technical Terms and Conditions:

1. **The system must be completed in all respects and the manufacturer or representative must ensure complete integration of all sub-system with cables, connectors as required and take responsibility of service and supply spares.**

2. The equipment should be provided with a **COMPREHENSIVE WARRANTY period of 1 year + 4 years** additional from the date of Installation & Commissioning and date of acceptance against all manufacturing defects and faulty workmanship.
3. Spare parts and optional accessories may be quoted separately.
4. Compliance of all the listed specifications/terms and conditions sheet should be indicated on a Separate sheet
5. Firm must have an India based service support structure.

**GENERAL TERMS AND CONDITIONS**

- 1) Last Date of Submission of Sealed Bids (both technical and price bids separately):  
**17.09.2019 up to 3.00 pm.**

Date for opening price bids will be intimated later.

- 2) Payment Terms & Performance Bank Guarantee (PBG):

For Indian supplier:

90% payment shall be made after successful installation and commissioning duly certified by the concerned Head of the Department. Balance 10% may be released against submission of Performance Bank Guarantee to the tune of 10% of the total purchase order. The Performance Bank Guarantee shall be issued from any Nationalized Bank, validity of which shall be five years plus 60 days drawn on any commercial Bank.

For overseas supplier:

Payment term shall be LC. Kindly inform in quotation, the payment terms as “90% payment will be released against submission of shipping documents and balance 10% shall be released by wire transfer on successful installation, commissioning and submission of Performance Bank Guarantee for five years.

Shipping term: FCA. Other details such as Name & country of port of shipment, Country of origin, and Warranty period as five years.

No advance/mobilization support, is payable against supply of stores.

**In the event of failure to deliver the stores within the specified date, liquidated damages @ 1% per month or part thereof in respect of the value of stores will be deducted, subject to a maximum of 5%; alternately the order will be cancelled and the undelivered stores purchased from elsewhere at the risk and expense of the vendor.**

- 3) Warranty/Guarantee & On-site skill support: **1 year + 4 years onsite comprehensive OEM warranty** from the date of successful installation and commissioning. The firm has to guarantee supply of spares for a minimum period of 10 years. The OEMs/Authorized Distributors and Dealers must attach certificate about their after sales and service facilities with Technical Bids, escalation support for on-call service or station engineer etc.
- 4) Earnest Money Deposit (EMD): An amount of Rs. 60,000/- (Rupees Sixty thousand only) in the form of Demand Draft drawn in favor of “IIT Kharagpur”, payable at Kharagpur.

E.M.D. should be enclosed separately in an envelope and stapled with the Technical Bid document superscribing EMD. The validity of the EMD should be 3 (three) months from the date of issue. Any bid without EMD will summarily be rejected. No interest is payable on EMD. EMD will be refunded to the unsuccessful bidder after finalization of the tender process. No interest is payable on Security Deposit. Security Deposit shall be forfeited if the selected vendor after award of contract, fails to execute the same.

- 5) Delivery of Stores: The store items are to be supplied within 90 days from the date of receipt of the Purchase Order or from opening of LC.

6) Price: PRICE may be quoted either in INR or in foreign currency.

Where tenderer intends to quote in Indian Rupees (INR), the price should be quoted "FOR IIT Kharagpur" basis. The price should be all inclusive including GST.

IIT Kharagpur is registered with DSIR, Govt. of India. GST rate for scientific goods is 5% as per the Notification No. 47/2017-Integrated Tax (Rate) dated 14th November, 2017. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder. Where tenderer intends to quote in foreign currency FCA/FOB source port price by Air/Sea to be quoted. In case of comparison between FOR IIT Kharagpur (quoted in INR) and FCA price (quoted in foreign currency) 20% will be added on FOB/FCA price after conversion to INR.

IIT Kharagpur is registered with DSIR, Govt. of India and eligible for exemption for payment of Customs Duties in Terms of Government of India Notification No.51/96-Customs dated 23.07.96. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder.

- (i) Agency Commission, if any will be paid to the Indian agents in INR on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances.
  - (ii) The unit prices should be for the same unit as indicated in the Schedule to tender enquiry and not for any other unit.
  - (iii) Prices quoted should be for supply, installation and commissioning at IIT. Kharagpur.
  - (iv) Discount, if any, should be indicated separately/prominently.
  - (v) Offers should normally be on fixed and firm price basis. Any clause making price variation will not be acceptable.
- 7) Bid: Technical Bid and Price Bid should be submitted in two separate sealed envelopes quoting reference number on the top of the envelope. EMD should be enclosed with the Technical Bid documents, in separate sealed envelopes, stapled with the packet containing Technical Bid documents. The OEMs may either bid directly or Country/Regional/State Distributors /Dealers/Vendors, to quote authorized with valid authorization certificate, capability to sale and service of the products.
- 8) Acceptance of Tender: The Authority of IIT Kharagpur does not bind itself to accept the lowest priced bid and reserves the right to reject any or the entire tender bids received without assigning any reason thereof.
- 9) The addendum/corrigendum if any shall be published on Institute's Website i.e. [www.iitkgp.ac.in](http://www.iitkgp.ac.in) and on CPP Portal.
- 10) The Bidders are requested to submit the bids after issue of clarifications only considering the changes made if any. Bidders are totally responsible for incorporating/complying the changes/amendments issued if any, in their bid.
- 11) Extra Features: If the bidder provides any other extra features on the Hardware or Software which are not mentioned in the tender product specifications, then that shall be highlighted in clear terms, with documentary evidence/literature.

- 12) Compliance List: The proposal should be properly indexed and a compliance list against the technical specifications should be provided.
- 13) Service: Response to ensure quality of services, the deputed Engineer from the OEM/Vendor shall have a minimum of 2 years of experience in the relevant field and must be in the payroll of the OEM/Vendor. The service engineer should preferably have his office in Kolkata. He would be obliged to inspect and troubleshoot the machine in IIT Kharagpur within 48 hours of receiving the service request call or email
- 14) Installation and Commissioning: Free of cost at IIT, Kharagpur. The OEM must ensure timely installation of the **Heated Vacuum Table** with necessary support, as per details and lists to be made available by the Stores & Purchase Section or the indenting Departments/Centres/Schools.
- 15) Validity of licenses: Software's licensing price or policy (if any) shall be clearly mentioned.
  - a) All licenses should be perpetual
  - b) All the accessories shall be from the same OEM
- 16) The OEM should be an ISO-9000 (or higher) and ISO-14001 (or higher) certified company with due credits to energy conservation and green earth compliance.
- 17) Relevant documents of the OEM shall be enclosed, along with the Technical Bid. Any explanation on this account shall be supported with documentary evidence from the principals.
- 18) Conditional Offer will not be accepted.
- 19) Period of Validity: Bids shall remain valid for acceptance for a period of 180 days from the date of opening of the price bid.
- 20) The benefit of any downward price revision (revision on account of budget/financial policy, tax revision, EPZ etc.) is to be given to IIT Kharagpur by the selected OEM/vendor.
- 21) Past Performance of the Vendors will be judged at the time of Technical Evaluation.
- 22) The Institute does not bind itself to offer any explanation to those bidders whose technical bids have not been found acceptable by the Technical Evaluation Committee of the Institute.
- 23) Bidders should enclose the following documents:
  - (i) Certificate of Registration / Trade License
  - (ii) Attested copy of PAN card and GST registration papers
  - (iii) Authorized Distributors/Vendors must submit two separate appropriate authorization certificates and letters from their OEMs, for (i) participation in the said tender and (ii) to submit the bids in favor of OEM (to be attached with technical bids)
  - (iv) Name and address of past satisfactory supplies or minimum 10 clients to whom such items/stores have been supplied should be mentioned in the technical bid.
  - (v) Copy of mandatory test reports, national testing/reliability and endurance test reports etc., certified or conducted at the manufacturing site, granted by the bureaus/quality control departments/national testing laboratories.
  - (vi) Copy of product literature, for which the prices have been quoted.

- (vii) A write up on service and maintenance capability, mitigation of risks or breakdown and replacement capability, with the escalation support matrix suggested for the Institute. Vendors must indicate their sales and support service centre in India and their plan to address issues about services, maintaining minimum service inventory etc.
- (viii) Signed copy of the tender document, with company seal, agreeing to the terms & conditions and declaration should be provided.
- (ix) Proforma Price Bid (without mentioning the price rate) may be attached with technical bids
- (x) Port of Shipment and Country of origin: Should be mentioned in the quotation.
- (xi) Purchase order to be placed on: Should be mentioned in the quotation with full address.
- (xii) The OEMs/Vendors need to submit a certificate that they are not currently debarred or blacklisted in IIT Kharagpur or in any national organization or educational institute / university for any supplies, products or services.
- 24) All tenders are to be handed over / dropped in a sealed box in the Office of Department of Mechanical Engineering, IIT Kharagpur- INDIA 721302. The bids (technical and price bids) once submitted shall be the property of the Institute and shall not be returned to the vendor in future. For speed post, the Postal Address is "Office of the Department of Mechanical Engineering, IIT Kharagpur-INDIA 721302"
- 25) Opening of Price Bids: The Price Bid(s) of only those vendor(s) who are found technically qualified will be opened and the same will be opened before the technically qualified vendor(s). The date for opening of price bids will be notified separately.
- 26) Tenderer or his/her authorized representative (with proper authorization letter for attending opening of technical bids and also for opening of price bids) may choose to be present at the time of opening of Technical Bids/Price Bids.
- 27) IMPORTANT
- I. Director, IIT Kharagpur, may accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid. The Institute at its discretion may change the quantity/upgrade the criteria/drop any item or part thereof at any time before placing the Purchase Order.
- II. A bid submitted with false information will not only be rejected but also the OEM/ vendor will be debarred from participation in future tendering process.
- III. In case of any dispute, the decision of the Director of this Institute shall be final and binding on the bidders.
- IV. For any query pertaining to this bid document, correspondence is to be addressed to the End user:  
**Dr. Nilanjan Das Chakladar**  
Department of Mechanical Engineering,  
Indian Institute of Technology  
Kharagpur- 721302, West Bengal, India  
**Ph:+91-3222-282926**

Email: [-ndaschakladar@mech.iitkgp.ac.in](mailto:-ndaschakladar@mech.iitkgp.ac.in)

- V. In case the due date for opening tender happens to be a holiday, the same will be opened on the next working day. The timings will however remain unchanged. Please note that the Institute remains closed on Saturday & Sunday.

## **ANNEXURE-III**

### **INSTRUCTIONS & SPECIAL CONDITIONS**

(To be returned by the Tenderer along with the Tender duly signed)

1. GENERAL: Tenderer(s), who are Indian Agents of OEMs should furnish a clear declaration as follows: "We declare that I am/we are Accredited Agents of the suppliers aboard. **DGS&D** enlistment certificate needs to be attached (applicable only for the Indian Agents)
2. DEVIATION FROM SPECIFICATIONS: It is in the interest of the tenderer to study the specifications in the tender schedule thoroughly before quoting so that, if the tenderer makes any deviations, the same are prominently brought out in the body of the tender. If you need to add any optional items to your system in order to meet our specifications, you are requested to quote for the total including the option required to suit our requirements. Otherwise, your tender will not be considered at all.
3. TENDERERS SHALL SUBMIT ALONG WITH THEIR TENDER:
  - I. Complete address and tele links for contact persons of principals and Indian agent offices dealing with this purchase.
  - II. Name and full address of the OEM's Banker and their swift code.
  - III. Port of shipment and Country of origin is to be provided for each item.
  - IV. Purchase order to be placed on: Should be mentioned in the quotation with full address
4. PERFORMANCE BANK GUARANTEE: On behalf of the Principal, Indian Agent must be able to provide Performance Bank Guarantee of the amount equivalent to the 10% of the cost of equipment from any Nationalized Bank. The Performance Bank Guarantee is required for the entire period of Warranty. Performance Bank Guarantee must remain valid for a period sixty days beyond the expiry of the Warranty Period. Bid security will be refunded back on submission of performance Security.
5. GUARANTEE: The tenderer has to declare that the goods sold to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications.
6. JURISDICTION: All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of Tender is issued i.e. Jurisdiction of KOLKATA HIGH COURT. Acceptance to this effect is also necessary at the time of opening of Technical Bid.
7. ACKNOWLEDGMENT: It is hereby acknowledged that we have gone through all the points listed under "Instructions & Special Conditions" outlined above, and those in the accompanying note on "Important Conditions", and we agree to abide by them under the penalty of permanent disqualification for Tender participation and for related penal actions for non-abidance of the conditions.
8. Interested vendors must be able to supply adequate spares and consumable during **five years** of comprehensive warranty. Vendor should also ensure trouble free service and

performance for another seven years beyond **five years** Comprehensive Warranty Period with adequate spares and accessories.

## ANNEXURE — IV

### TECHNICAL BID DOCUMENT

FORMAT TO BE FILLED BY THE MANUFACTURERS/ INDIAN AGENTS (ON BEHALF OF THEIR FOREIGN PRINCIPALS) OR THEIR AUTHORIZED COUNTRY DISTRIBUTORS/ REPRESENTING DEALERS/ REGIONAL AGENCIES, SUBMITTING TENDER FOR SUPPLY OF **A HEATED VACUUM TABLE** FOR IIT KHARAGPUR (DEPARTMENT OF MECHANICAL ENGINEERING)

1. Name of the Tenderer:
2. Status of the Tenderer: (attach documents, if registered company/partnership/proprietorship)
3. Whether OEM/representing foreign principle: (attach copy of certificate/authorization)
4. Details of key top official/authorized official: (attach details)
5. Details of tie-ups for supply/services, if any: (Attach details, agreements, escalation matrix)
6. Income Tax returns of previous three assessment year (copy):
7. Name of the vendor's 10 clients, to whom similar products and services were extended & amount of transaction/annual bills to such clients:
8. Income Tax Permanent A/c No. (attach copy):
9. GST registration No. (attach copy):
10. Details of EMD:

Certified that all above information is correct to the best of my/our information, knowledge and belief.

Dated

Signature & Seal of the Authorized person of OEM/Vendor

NOTE: This is to be submitted in a separate sealed envelope super scribing "TECHNICAL BID", **Notice inviting Tender No.: IIT/ME/NDC/Equip/VT/2019-20 Date: 16/08/19 and name of the bidder.** All technical documents like literature, catalogues, etc., are to be put in the same envelope. Price bid of that company/firm only will be opened which do technically qualify, for further consideration. Attach all relevant documents in the same serial order as above, properly indexed, duly signed and sealed.

**Annexure V**

**DECLARATION**

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.

Date: -----

Place: -----

Signature of the Authorized Person

Full Name: -----

Company Seal: -----