NOTICE INVITING TENDER

Indian Institute of Technology Kharagpur, an Institute of National Importance, invites sealed bids from principal manufacturers or their authorized distributors (foreign firms or their Indian representative companies), who have adequate credential for the Procurement of “Differential Scanning Calorimeter” at the Sophisticated Analytical & Technical Help Institute, IIT Kharagpur.

Interested parties may submit their sealed bids under Two-Bids system as per Technical Specifications given at Annexure I and General Terms & Conditions and other formats given at Annexure II to VII. Two covers (Technical Bid and Price Bid) are to be sealed and placed in one large Cover superscribed with tender reference number (Tender No.IIT/SATHI/ENQ/2020-21/DSC-01 Dt: 04 June 2020) and submitted to “Chairman, SATHI, Attn. Prof. Arghya Deb, Civil Engineering Department, Indian Institute of Technology, Kharagpur, P.O. Kharagpur Technology, PIN : 721 302 on or before 13.07.2020 at 3.00PM. Technical Bids will be opened on 13.07.2020 at 4.00PM.

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.

Kindly refer to the Institute website 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.

Signature of Indenter /Prof. In Charge, Head

Sophisticated Analytical & Technical Help Institute
IIT Kharagpur

To
1. Institute Website
2. CPP Portal
3. Department Notice Board
## TIME EVENTS OF VARIOUS TENDER RELATED ACTIVITIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enquiry No</td>
<td>IIT/SATHI/ENQ/2020-21/DSC-01</td>
</tr>
<tr>
<td>Bid Document fee (Non refundable)</td>
<td>Nil</td>
</tr>
<tr>
<td>Last date for submission of sealed tenders/quotations</td>
<td>13-07-2020 at 03.00PM</td>
</tr>
<tr>
<td>Pre -qualification &amp; Technical Bid opening date/time</td>
<td>13-07-2020 at 04.15 PM</td>
</tr>
<tr>
<td>Two Bid System</td>
<td>Two bids – (i) Technical and (ii) Price bid in two separate envelope- placed &amp; sealed in one envelope</td>
</tr>
<tr>
<td>EMD</td>
<td>Rs. 80,000 (By way of Demand draft from any Nationalized Bank /Commercial Bank and paid in favour of “Indian Institute of Technology Kharagpur”, payable at Kharagpur)</td>
</tr>
<tr>
<td>Submission of bids (by speed post) (Addressed to)</td>
<td>Chairman SATHI, Attn.: Prof. Arghya Deb, Civil Engineering Department, IIT Kharagpur KHARAGPUR-721302, W.B</td>
</tr>
<tr>
<td>Address for communication</td>
<td>As stated above</td>
</tr>
<tr>
<td>E-mail for communication</td>
<td><a href="mailto:arghya@civil.iitkgp.ac.in">arghya@civil.iitkgp.ac.in</a> Please cc to: <a href="mailto:sathi@iitkgp.ac.in">sathi@iitkgp.ac.in</a></td>
</tr>
<tr>
<td>Name of the item for procurement and technical specifications</td>
<td>Annexure- I</td>
</tr>
<tr>
<td>General Terms and Conditions</td>
<td>Annexure-II to VII</td>
</tr>
</tbody>
</table>
## TECHNICAL SPECIFICATIONS

**Procurement of Differential Scanning Calorimeter**  
*(Enquiry No: IIT/SATI/ENQ/2020-21/DSC-01 dated 04-June-2020)*

<table>
<thead>
<tr>
<th>SNo</th>
<th>Name of the item &amp; Specifications</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Name of the Item:</strong> Differential Scanning Calorimeter for simultaneous measurement of heat flow and weight change of sample from ambient temperature to 1500°C.</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Detailed Specification:**

**Sample Weight Capacity: 200 mg or more**  
Defined as the maximum sample weight measurable (independent of pans)

**Dynamic Weighing Range: 200 mg or more**  
Defined as the maximum measureable weight change (independent of pans)

**Weighing Precision: ≤ ± 0.1%**  
Defined as the standard deviation of at least 10 measurements of a 100mg standard weight, with removing and replacing the sample in between each measurement

**Dynamic Baseline Drift (50 to 1,000 °C): <50 µg**  
Defined as the maximum deviation from the smallest measured weight to the largest measured weight of an empty alumina cup, while being heated at 20°C/min in flowing nitrogen atmosphere (without any blank subtraction applied)

**Dynamic Baseline Drift (1,000 to 1,500 °C): <50 µg**  
Defined as the maximum deviation from the smallest measured weight to the largest measured weight of an empty alumina cup, while being heated at 20°C/min in flowing nitrogen atmosphere (without any blank subtraction applied)

**Weight Signal Resolution: ≤ 0.01µg**  
Defined as the smallest measurable difference between two adjacent values

**Weight Sensitivity: ≤ 0.1 µg (1 ppm)**  
Defined as 3X the average rms noise over the temperature range 50 to 1,500°C

**Weight Resolution: ≤ 0.1 µg (1 ppm)**  
Defined as the smallest weight change from a sample that can be practically detected.

**Weight Accuracy: ±0.5% of value or ±100µg (whichever is smaller)**  
Defined as the average of 10 measurements of four separate weights with a tare performed between each measurement.
Weight Repeatability: ± 0.1% of value or ±50µg (whichever is smaller)
Defined as 10 measurements of four separate weights with only one tare performed at the beginning of the measurement. The repeatability value is 2X the standard deviation of the measurements.

DSC Sensitivity: ≤ 4 µW
Defined as 3X the average rms noise over the temperature range 50 to 1,000°C

Enthalpy Accuracy: < 2% (based on metal standards)
Defined as the standard deviation of the measured error of at least 10 replicate runs after calibration of the enthalpy of melting at 10°C/min, removing and replacing the sample in between each run.

Enthalpy Precision: < 2% (based on metal standards)
Defined as the relative standard deviation of the measured enthalpy of at least 10 melts, without disturbing the sample in between each run

Temperature Range: ambient to 1500 °C (or higher)
Defined as the measured temperature at the sample thermocouple (not furnace temperature or programmed temperature)

Temperature Accuracy: ≤ ±1°C
Defined as the standard deviation of the measured error (at least 10 replicate runs after temperature calibration) of the onset temperature of a nickel Curie Point measured at 10°C/min, removing and replacing the sample in between each run

Dynamic Temperature Precision: ≤ ±0.5°C
Defined as the standard deviation of the measured Curie Point temperature of at least 10 nickel runs, removing and replacing the sample in between each run

Isothermal Temperature Precision: ≤ ±0.1°C

Linear Heating Rates: 0.1 to 100°C/min in 0.01°C/min increments

Furnace Cooling: Forced Air 1500°C (or the highest furnace temperature, whichever is higher) to 50°C in < 40 min

Thermocouple: The thermocouple is a Pt/Pt-Rh type R thermocouple that has an upper measurement temperature of 1500°C.

Instrument Features

Thermobalance
Must employ a horizontal null-balance design (magnetic force restoration MRF balance preferably ) for accurate, precise and reliable weighing of samples

Furnace
The furnace should be a platinum-rhodium wire-wound ceramic
furnace.

**Gas Delivery**

Must include integrated purge gas delivery control accommodating two simultaneously installed gases. The purge gas should preferably be dry nitrogen and the combustible gas preferably oxygen.

Should include a horizontal gas purge system using gas delivery to provide highly accurate and precise control purge gas flow rate and gas switching capability. The system software should include automatic buoyancy corrections for temperature and gas flow rate.

**Software**

Must include operating software which allows for the instrument to be fully calibrated and verified automatically. Calibrations must include weight, heat flow, heat capacity, cell constant and temperature.

The operating software should also be capable of periodically and automatically checking for updates via an internet connection, and downloading/installing those updates if desired.

The data analysis software should be unkeyed, to allow for unlimited installations within one site. The data file format should easily allow sharing/transfer of data files as individual electronic documents, which are readable by the same data analysis package. The data analysis program should also include a .pdf generator, for the efficient export of analyzed plots.

**Standards**

The instrument must be compliant with the following standards: ASTM E1641, ASTM E2958, and ASTM E1582.

**High Resolution Thermo Gravimetric Analysis (TGA)**

Heater control technology to optimize weight loss resolution through TGA should use the following (3) modes. All modes are used to separate overlapping transitions.

1. **Dynamic Heating Rate** to automatically and continuously change heating rate as a function of decomposition (sample weight loss).

2. **Constant Reaction Rate** to automatically and continuously change heating rate to achieve a predetermined rate of sample decomposition expressed in %/min.

3. **Stepwise Isothermal** to automatically change from heating to an isothermal hold when pre-selected limits of weight loss in %/min are met.

**Modulated Thermo Gravimetric Analysis (MTGA)**

Should include capability for modulated TGA defined as:

- The ability to apply sinusoidal temperature wave to a sample. Amplitude of sine wave ± 0.01 to 10°C; period from 100 to 1000 seconds.
- Calculate and displays the following kinetic parameters of decomposition on a continuous basis in real time,
- Activation energy (kJ/mol)
- Log (Pre-exponential factor) (1/min)
- ln (rate ratio)
- Weight amplitude (mg/min)
- Modulated Temp (°C).

Deliver the above kinetic parameters of decomposition in a single scan (data file); no need for multiple scans.

Calculates Kinetic parameters calculated using a Discrete Fourier Transformation.

- Must include the ability to perform quasi-isothermal experiments, i.e. holding isothermal with a small temperature modulation.
- Can modulate temperature during quasi-isothermal methods to evaluate the decomposition kinetics of a single weight loss.
- Can be used with the variable heating rate temperature programs so as to reduce test time.
- The temperature modulation should be strictly periodic to ensure continuous steady-state control and exact experiment reproducibility, random temperature perturbations are not acceptable.
- In order to view the signals real-time, deconvolution of the signals must be done real-time, on board the module using a discrete Fourier Transformation, not after the scan.
- All of the signals above must be collected during one single experiment and stored in one single data file.
- The heat capacity measurements must not require a prior baseline scan that has to be subtracted from the sample scan for quantitative data.
- Must be easily interfaced to a Mass Spectrometer or FTIR.
- Must employ horizontal purge gas flow to minimize buoyancy effects from purge gas and for direct output to off gas analysis.

**Modulated DSC**

Modulated DSC must be supplied with the following criteria:

- Ability to apply sinusoidal temperature wave to sample: Amplitude of sine wave ± 0.01 to 10°C; frequency period from 10 to 1000 seconds.
- Must include the ability to perform quasi-isothermal experiments, i.e. holding isothermal with a small temperature modulation.
- The temperature modulation should be strictly periodic to ensure continuous steady-state control and exact experiment reproducibility, random temperature perturbations are not acceptable.
• In order to view the signals real-time, deconvolution of the signals must be done real-time, on board the module using a discrete Fourier Transformation, not after the scan.

• All of the signals above must be collected during one single experiment and stored in one single data file.


• The heat capacity measurements must not require a prior baseline scan that has to be subtracted from the sample scan for quantitative data.

• Product catalogue – Original duly signed by authorised person to be enclosed
• Part-prices of various modules of the equipment should be included
• Price of essential spares/consumables such as heating elements, thermo-couples, crucibles (in warranty period and beyond) should be included.
• Prices of warranty extension (annually) and comprehensive/non-comprehensive AMCs may be included.

<table>
<thead>
<tr>
<th>Guarantee/Warranty of above items</th>
<th>05 (five) years after successful installation and demonstration</th>
</tr>
</thead>
</table>
GENERAL TERMS AND CONDITIONS

1. Last Date of Submission of Sealed Bids (both technical and price bids, separately in two covers and placed, sealed in one envelope): 13-07-2020 up to 3.00 P.M.

2. The Technical bids will be opened on dt: 13-07-2020 at 4.15 P.M. in the in the Conference Room, Civil Engineering Department, I.I.T. Kharagpur, India.

3. Payment Terms & Performance Bank Guarantee (PBG): 90% payment will be made on submission of shipping documents and balance 10% payment will be made on installation, commissioning and submission of PBG for performance period if the payment is made by LC, otherwise 90% will be made after successful installation and commissioning duly certified by the concerned Head of Department. Balance 10% may be released against submission of Performance Bank Guarantee to the tune of 10% of the total purchase order value. PBG shall be issued from any nationalized bank/ commercial bank, validity which shall be warranty period plus 60 days drawn. No advance/mobilization support, is payable against supply of stores. In the event of failure to deliver the stores beyond 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.

4. Warranty/Guarantee & On-site skill support: The Product will have Five (05) years extended onsite comprehensive OEM warranty from the date of successful installation and commissioning. The cost of the onsite warranty should include the cost of replacement components and labour as and when required. The firm has to guarantee supply of spares for a minimum period of 10 years.

5. Earnest Money Deposit (EMD): An amount of Rs. 80,000 (Rupees Eighty Thousand only) in the form of Demand Draft drawn in favour of “Indian Institute of Technology Kharagpur”, payable at Kharagpur or Bank Guarantee as per format at Annexure V. 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 6 (six) months from the date of issue. Any bid without EMD will be summarily rejected. No interest is payable on EMD. EMD will be refunded to the unsuccessful bidder, finalization of the tender process. The EMD of vendor awarded with the contract to be treated as part of security deposit towards Performance Guarantee. 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.

6. Tender Fee: No tender fees

7. IIT Kharagpur will give exemption for submission of tender fee and EMD who are registered with MSME, NSIC or start-ups as recognised by DIPP as per revised rule
170 of GFR – 2017 only. However proper and valid document in this regard must be submitted by the bidders in support of their claim.

8. Tender fee and EMD should be kept in separate covers and place in technical bid cover.

9. **Delivery of Stores**: Delivery must be completed within six months from the date of the order being placed. In case of delayed delivery, the penalty will be charged as follows: 1% of order value for each month.

10. **Price**:
   
   a. PRICE may be quoted either in INR or in foreign currency.
   
   b. Where tenderer intends to quote in Indian Rupees (INR), the price should be quoted on FCA and “FOR IIT Kharagpur (DDP)” basis. The price must be quoted for both, i.e., FCA and DDP. For the IIT Kharagpur price, i.e., delivered duty paid (DDP), supplier has to deliver the consignment to IIT KGP, the freight forwarding and insurance for the whole system is for the factory warehouse to IIT KGP. The offer price should be inclusive of customs clearing charges, insurance charges, and local transportation up to IIT KGP. IIT KGP will only provide necessary documents for clearing (duty exemption certificate, authorization, etc.), road permit/entry tax, custom duty as per actual.
   
   c. Indian institute of Technology Kharagpur is a public Funded Academic & Research institute under the minister of Human Resource Development and is eligible for GST @5% vide Notification No.47/2017 dated:14.11.2017 and 10/2018- Integrated Tax (Rate) dated:25.01.2018 by the Ministry of Finance, Department of Revenue. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder.
   
   d. 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 FOB/FCA price (quoted in foreign currency) 20% will be added on FOB/FCA price after conversion to INR.
   
   e. Tenderer, 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).
   
   f. Foreign bidders to disclose the name and address of agent and representative in India.
   
   g. IIT Kharagpur is registered 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.
   
   h. Agency Commission, if any will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances.
   
   i. The unit prices should be for the same unit as indicated in the Schedule to tender enquiry and not for any other unit.
   
   j. Discount, if any, should be indicated separately/prominently.
k. Offers should normally be on fixed and firm price basis. Any clause making price variation will not be acceptable.

11. **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.**

12. **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.

13. The addendum/corrigendum if any shall be published on Institute’s **Website i.e. www.iitkgp.ac.in and on CPP Portal.**

14. **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.

15. **Compliance List:** The proposal should be properly indexed and a compliance list against the technical specifications should be provided.

16. **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.

17. **Installation and Commissioning:** Free of cost at Sophisticated Analytical & Technical Help Institute, IIT, Kharagpur. The supplier must ensure timely installation of Experimental test setup with necessary support to the indenters, as per details and lists to be made available by the Stores & Purchase Section or the indenting Departments/Centres/Schools.

18. **Period of Validity:** Bids shall remain valid for acceptance for a period of 90 days from the date of opening of the price bid.

19. 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.

20. **Past Performance of the Vendors** will be judged at the time of Technical Evaluation.

21. 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.

22. Bidders should enclose the following documents:

   a. Certificate of Registration / Trade License
b. 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.

c. Proforma Price Bid (without mentioning the price rate) may be attached with technical bids

d. Port or place of Shipment: Should be mentioned in the quotation.

e. Purchase order to be placed on: Should be mentioned in the quotation with full address, email addresses, phone number.

23. All tenders are to be handed over in a sealed box in the Office of Civil Engineering Department, IIT Kharagpur-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 “

Chairman, SATHI
Attn: Prof. Arghya Deb
Civil Engineering Department
IIT Kharagpur-721302, West Bengal, INDIA

24. 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 by email.

25. 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.

IMPORTANT

I. Director 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. 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.

III. 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.

IV. In case of any dispute, the decision of the Director of this Institute shall be final and binding on the bidders.

V. For any query pertaining to this bid document, correspondence is to be addressed to the end user:
VI. 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.

VII. 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.
1. **GENERAL**: Tenderer, 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 three years of comprehensive warranty. Vendor should also ensure trouble free service and performance for another seven years beyond three years Comprehensive Warranty Period with adequate spares and accessories.
## Eligibility Criteria / TECHNICAL BID

<table>
<thead>
<tr>
<th>S. No</th>
<th>Description</th>
<th>Submitted (Yes / No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Registration Certificate</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>PAN and GST Certificates</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Status of the Tenderer (attach documents, if registered company/ partnership /proprietorship)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Whether OEM/representing foreign principle (attach copy of certificate/authorization)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Details of key top official/authorized official with e-mail id and contact number</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Income Tax Returns of latest last three years</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Average turnover of company in last three years should be of Rs. 100 lakhs</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Current list and address of clients where Three similar material/products has been supplied (attach Pos) and satisfactory certificates from the users.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Name and address of Vendor’s bankers and attach a Solvency Certificate from the Bank for a minimum amount of Rs. 50 Lakh</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Product catalogue – Original duly signed by authorised person</td>
<td></td>
</tr>
</tbody>
</table>

### NOTE:

1. Attach all relevant documents in the same serial order as above, properly indexed, duly signed.

2. **This is to be submitted in a separate sealed envelope** super scribing "TECHNICAL BID", Notice inviting Tender Reference no: _______________ date: _______ and name of the bidder.

3. 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. Tender ref no: __________________________dt:_________ . 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. I/we hereby confirm and declare that I/we am/are not blacklisted /De-registered / debarred by any Government department/ Public Sector Undertaking/ Private Sector/ or any other agency for which we have Executed/ Undertaken the works/ Services.

Signature of the Authorized Person

Date: -----------------------------

Full Name: ----------------------------

Place: ----------------------------

Company Seal: --------------
ANNEXURE – VI

MODEL BANK GUARANTEE FORMAT FOR FURNISHING EMD

Whereas ................................................................................................................ (hereinafter called the “tenderer”) has submitted their offer dated .............................................................................................................................. for the supply of ......................................................................................... (hereinafter called the “tender”) against the purchaser’s tender Notice No. ......................................................................................................................

KNOW ALL MEN by these presents that WE ........................................................................................................ of ....................................................................................................................... having our registered office at ......................................................................................... are bound unto .........................................................................................................(hereinafter called the “Purchaser”) in the sum of ......................................................................................................................... for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this .........................Day of ......................... 20 ............

THE CONDITIONS OF THIS OBLIGATION ARE

(1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
(2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:
   (a) If the tenderer fails to furnish the Performance Security for the due performance of the contract.
   (b) Fails or refuses to accept/execute the contract.

WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)
Name and designation of the officer
Seal, name & address of the Bank and address of the Branch
ANNEXURE – VII

(ON THE OFFICIAL LETTERHEAD OF THE FIRM)

FINANCIAL BID

Tender ref no: ____________________________ dt: ____________

Tender for Supply, Installation, Testing and Commissioning of ________ equipment with ___ Years of warranty.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Unit Price without taxes (in Rs.)</th>
<th>Taxes Rs</th>
<th>Unit Price with Taxes (in Rs.)</th>
<th>Total Amount (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply and Installation, Testing and Commissioning of XXXXXXXX Equipment with XXXXX years of warranty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In words: Rupees _______________________________________________________

1. In case of discrepancies between words and figures, the bid which is least of the two versions will be confirmed.

2. Indian institute of Technology Kharagpur is a public Funded Academic & Research institute under the minister of Human Resource Development and is eligible for GST @5% vide Notification No.47/2017 dated: 14.11.2017 and 10/2018- Integrated Tax (Rate) dated: 25.01.2018 by the Ministry of Finance, Department of Revenue.

Signature of the bidder along with seal
## Checklist for Enclosures

*(Bidder Should fill up YES or NO and page no without fail)*

<table>
<thead>
<tr>
<th>S.No</th>
<th>Bid Enclosures</th>
<th>Yes/No</th>
<th>Pg. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Technical Bid <em>(Envelop – A)</em> contains the following documents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Registration Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PAN and GST Certificates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Status of the Tenderer <em>(attach documents, if registered company/partnership/proprietyship)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Whether OEM/representing foreign principle <em>(attach copy of certificate/authorization)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Details of key top official/authorized official with e-mail id and contact number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Income Tax Returns of latest last three years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Minimum turnover of company of last three years should be of Rs. 100 lakhs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Current list and address of clients where <strong>three similar material/products has been supplied</strong> <em>(attach Pos) and satisfactory certificates from the users.</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Name and address of Vendor’s bankers and attach a Solvency Certificate from the Bank for a minimum amount of Rs. 50 Lakh</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Product catalogue – Original duly signed by authorised person</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Tender fee <em>(should be kept in one envelop cover and place technical bid)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EMD <em>(Should be kept in one envelop cover and place in technical bid cover)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Financial Bid ( Envelope – B)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Price Bid <em>(As per the format given at Annexure – VII)</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: All pages of the bid documents must be serially numbered and signed.