TENDER DOCUMENT
(Tender Notice no. IIT/SATHI/ENQ/2020-21/UTM/FURNACE-02 dated: 13 January 2021)

FOR

SUPPLY, INSTALLATION, COMMISSIONING, AND TRAINING IN OPERATION OF UTM WITH FURNACE FOR HIGH TEMPERATURE TESTING OF CONCRETE AND STEEL STRUCTURAL MEMBERS
(SOLUTION ON TURNKEY BASIS)

OF

Sophisticated Analytical Technical Help Institute (SATHI)
IIT KHARAGPUR

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR – 721302
WEST BENGAL
Table of Contents

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Title</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Notice Inviting Tender</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Time events of various Tender related activities</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>Technical Specifications – Annexure I</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>General Terms and Conditions – Annexure II</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>Instructions &amp; Special conditions – Annexure III</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>Eligibility Criteria / Technical Bid – Annexure IV</td>
<td>11</td>
</tr>
<tr>
<td>7</td>
<td>Declaration – Annexure V</td>
<td>12</td>
</tr>
<tr>
<td>8</td>
<td>Bid Security Declaration – Annexure VI</td>
<td>13</td>
</tr>
<tr>
<td>9</td>
<td>Financial Bid Format – Annexure VII</td>
<td>14</td>
</tr>
<tr>
<td>10</td>
<td>Checklist for Evaluation</td>
<td>15</td>
</tr>
</tbody>
</table>
Indian Institute of Technology Kharagpur, an Institute of Eminence, invites sealed bids from all Indian Manufacturers/Service providers or their authorized vendors, having registered office in India who fulfil the criteria mentioned in the Tender document and have adequate credential, for the Procurement of “Supply, Installation, Commissioning, and training in operation of UTM with furnace for high temperature testing of concrete and steel structural components (Solution On Turnkey Basis)” at the Sophisticated Analytical Technical Help Institute (SATHI), 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/UTMFURNACE-02 DT: 13/1/21) and submitted to “Chairman, Sophisticated Analytical Technical Help Institute (SATHI), Indian Institute of Technology, Kharagpur, P.O. Kharagpur Technology, PIN : 721 302 on or before 13 February 2021 at 3.00 PM. Technical Bids will be opened on 13 February 2021 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/Professor-in-Charge, 
Department of Civil Engineering, 
IIT Kharagpur

Signature of Head 
SATHI 
IIT Kharagpur

To
1. Institute Website
2. CPP Portal
3. Department Notice Board

Signature and seal of Bidder
TIME EVENTS OF VARIOUS TENDER RELATED ACTIVITIES

<table>
<thead>
<tr>
<th>Enquiry No</th>
<th>(IIT/SATHI/ENQ/2020-21/UTMFURNACE-02 dated 13/1/2021)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated cost</td>
<td>Rs. 10 Crore</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 February 2021 at 03.00PM</td>
</tr>
<tr>
<td>Pre -qualification &amp; Technical Bid opening date/time</td>
<td>13 February 2021 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>Nil</td>
</tr>
<tr>
<td>(Bidders should submit the Bid Security Declaration as per Annexure VI)</td>
<td></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>
</tbody>
</table>

**Note:-**
1. If the day falls on any Holiday, the date of any of the events mentioned above shall be on the next working day.
2. It is the responsibility of the Bidder to ensure that their bids whether sent by post or by courier or dropped by person should reach within the stipulated date & time.
3. The quotation received after the last date and prescribed time would summarily be rejected. Quotations having incomplete information are also liable to be rejected.
4. The Director, IIT Kharagpur reserves the right to reject any or all the quotations in full or part without assigning any reason thereof and without giving any compensation. The decision of the Director in this regard shall be final and binding to all.
5. The addendum/ corrigendum if any shall only be published on Institute’s website and CPP Portal.
ANNEXURE-1

TECHNICAL SPECIFICATIONS

Procurement of Supply, Installation, Commissioning, and training in operation of UTM with furnace for high temperature testing of concrete and steel structural components
(Solution On Turnkey Basis)
(IIT/SATHI/ENQ/2020-21/UTMFURNACE-02 dated 13/1/2021)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the item &amp; Specifications</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The “Supply of UTM with furnace” will involve the following:</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>• Supply of actuator of capacity 1000 kN with appropriate cooling arrangement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Supply of furnace with maximum operating temperature of 1200°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Supply of loading frame for testing compression and bending specimens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Provision of systems and fixtures for placing specimens in the test bed and removing them following testing</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Provision of strong floor for reacting out the loads (if required)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Provision of safe arrangement for removal of any exhaust from furnace</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The specific features of this facility are as mentioned below:

A. Actuator
• The actuator should be of capacity 1000 kN.
• The maximum rate of loading will be 1 mm/min
• The minimum rate of loading will be 0.01 mm/min
• The actuator will be used for compression and bend tests of reinforced concrete column and beam specimens.
• The actuator may also be used for compression and bend tests of structural steel column and beam specimens.
• The actuator as well as testing accessories (platens for compression testing etc.) should be made from heat resistant steels or from nickel based superalloys in order to retain full functionality for furnace temperatures up to 1200 °C.
• The actuator should be equipped with an appropriate cooling system to prevent temperatures in the actuator parts from exceeding their allowable temperatures
• The push rods should be made from heat resistant steels or nickel based superalloys. High temperature push rods should be sufficiently long to accommodate the furnace during high temperature tests and should be suitable for connection to high temperature testing accessories

B. Specimen Details of Compression Specimens:
• The compression (column) specimens are expected to have the following dimensions:
  Length: 3.3 m, Maximum Cross-sectional Dimension:
300 mm, Minimum Cross-sectional Dimension: 100 mm
- The maximum length of the column exposed to the fire would not exceed 2.2 m
- The maximum axial applied to bend specimens is 1000 kN
- The reinforced concrete compression specimens are expected to fail in compression rather than buckling. The slenderness ratio of the reinforced concrete specimens will be kept close to or below 12.
- The steel compression specimens may fail due to buckling.
- The maximum out of plane deflections of the specimens following compressive loading at high temperatures should not exceed 20 mm

C. Specimen Details of Bend Specimens:
- The bend specimens are expected to have the following dimensions:
  Length: 2m, Span (Unsupported length): 1.7 m
  Maximum Cross-sectional Dimension: 300 mm
  Minimum Cross-sectional Dimension: 100 mm
- The maximum length of beam specimen exposed to fire should not exceed 1.5 m
- The bend specimen can be loaded in 3 point as per ASTM C78 as well as 4 point bending as per ASTM C78
  In case of 4 point bending the location of the loading points can be variable: the distance of each loading point can vary between 0.25s and 0.45s from its nearest support, s being the span of the specimen.
- The maximum transverse applied to bend specimens is 150 kN
- The maximum transverse deflection of the specimen following transverse loading at high temperatures should not exceed 150 mm.

D. Fixtures for test specimens
- For the compression specimen, if required anchor mounts must be provided on the floor to mount the bottom fixture
  The bottom of the compression specimen will be fixed constraint.
- The top of the compression specimen can have a fixed or pinned constraint depending on the nature of the test.
- The bend specimens should have the option of axially restrained or simply supported end conditions.
- The axial restraint stiffness of the loading frame and the axial restraint system should be of the order of 10-15 kN/mm.
  To minimize damage to the loading frame, the stiffness of the axial restraint system should be able to adjust automatically to zero using a relief value when the axial restraint force exceeds about 120 kN.
- The axial restraint system should not provide any
rotational restraints at the beam ends and the beam should be free to rotate at the supports.

E. Furnace
• The furnace can be fixed or modular in nature. The internal dimensions of the furnace should be able to accommodate the portion of the compression and bend specimens that need to be heated as described in B and C above.
  • If the furnace is a fixed furnace, it should be integrated with the UTM to allow simultaneous application of mechanical and thermal loads. The furnace will be provided with removable openings (slats) of adequate dimension to ensure smooth insertion and removal of the specimens from the furnace.
  • If the furnace is a modular furnace, the modules should be robust. They should be integrable with minimum manual intervention, and allow easy disassembly. The modular furnace should be seamlessly integrable with the UTM to enable simultaneous application of mechanical and thermal loads. A mechanized arrangement for smooth placement and removal of the specimen in the UTM is essential.
• The furnace must have two observation ports will be provided to view the specimen being tested.
• The internal walls of the furnace must be made of resilient insulation refractory materials.
• Max Furnace Temperature: 1200 °C
• Rate of temperature rise: approx 1100 °C within 5 min
• The furnace must have burners/electric induction heaters mounted in a manner to ensure temperature uniformity inside the chamber.
• Maximum allowable non-uniformity in temperature inside the chamber: ±20 °C
• The average temperature of the chamber should follow specific pre-programmed Temperature-Time curve.
• Accuracy of average temperature of the chamber: ±10 °C
• The furnace should be an electrical induction furnace.
• Each electrical induction heater will have a corresponding Cr/Al thermocouple associated with it for temperature sensing. The thermocouples will be connected to individual temperature displays and also to a solid-state multi-input Temperature Recorder.
• The heat generated by the electrical induction heaters should be controlled automatically within a range through a PID controller.

F. Instrumentation & control panel:
• The furnace will be provided with a separate control panel. The panel will house an industrial PC which can be programmed for different Temperature-Time curves.
• PID controllers inside the panel will control the sets of electric induction heaters to follow the heating and
cooling parts of the selected curve and also maintain the desired temperature uniformity inside the chamber.

• The target curve and the temperature cycle in progress will be displayed on the screen simultaneously. There will also be display and recording of the data of all the temperature sensors including those mounted inside the specimen being tested through a SCADA system
• The instrumentation will control the electric induction heaters in order to control rate of temperature change, temperature set point and data logging of all parameters in tabulated format and graphic as well as excel format of 60 temperature monitoring locations of the specimen.
• Dust proof power and control panel with all switchgear and PLC hardware will be provided with fire retardant cables with proper layout and ferule markings, crimped terminals etc. with blower Variable Frequency Drives.
• Desk type panel will be provided with industrial reputed branded PC with colour printer.
• Interconnecting cabling will be provided between control panel and furnace.

G. Loading Frame & Strong Floor
• The loading frame should be designed to accommodate specimens (as described in B & C above) for testing as well as furnace
• Design of crane/hoist for positioning/placing/lifting of the specimen inside the furnace should be provided and should be consistent with the furnace and frame specifications.
• If a strong floor is required, the strong floor must be adequate to react out the maximum loading of 1000 kN
• The dimensions of the frame and floor should be consistent with the dimensions of the specimen.

H. Fencing of the facility and safety features
• The supplier must provide fencing to the entire facility from all four sides.
• The supplier must also include and install safety devices for safe operation of the facility

I. Unloading, installation, commissioning and training
• It is the responsibility of the supplier to take care of unloading of the items on-site at IIT Kharagpur.
• IIT Kharagpur will provide the dedicated space for installation of the facility, the dimensions of which will be mentioned by the supplier.
• The supplier must install and integrate the entire unit. On successful commissioning, the supplier must provide training to scholars of IIT Kharagpur at IIT Kharagpur on operating the system.
- Product catalogue/s – 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 (in warranty period and beyond) should be included.
- Prices of warranty extension (annually) and comprehensive/non-comprehensive AMCs may be included

| Guarantee/Warranty of above items | 05 (five) years after successful installation and demonstration |
1. **Last Date of Submission of Sealed Bids (both technical and price bids, separately in two covers and placed, sealed in one envelope):** 13 February up to 3.00 P.M.

2. **The Technical bids** will be opened on 13 February at 4.15 P.M. in the Conference Room, Department of Civil Engineering, I.I.T. Kharagpur, West Bengal, 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. **Liquidated Damages:** 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.

5. **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.

6. **Bid Security Declaration:** No EMD shall be deposited, however the bidder should submit the Bid Security Declaration as per Annexure – VI with the Technical bid, without which the bid shall be straightway rejected. If a successful bidder fails to act on the offer made by the Institute and/or the bidder withdraws/amends his bids after opening of the tender, the bidder shall be suspended from being eligible for bidding in any contract with IIT Kharagpur for a period equal to the duration of the contract for tender related to ‘Services’ and/or 01 to 03 years in case of ‘Procurement of Goods’ from the date of notification of the Tender document.

7. **Tender Fee:** No tender fees

IIT Kharagpur will give exemption for submission of tender fee who are registered with MSME, NSIC or start-ups as recognised by DIPP. However proper and valid document in this regard must be submitted by the bidders in support of their claim. Tender fee should be kept in separate covers and place in technical bid cover.
8. **Delivery of Stores**: The store items are to be supplied within six months from the date of receipt of the Purchase Order.

9. **Price**:
   a. The Price should be quoted in INR only.
   b. The price should be quoted “FOR IIT Kharagpur” basis. The price should be all inclusive.
   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. The unit prices should be for the same unit as indicated in the Schedule to tender enquiry and not for any other unit.
   e. Discount, if any, should be indicated separately/prominently.
   f. Offers should normally be on fixed and firm price basis. Any clause making price variation will not be acceptable.

10. **Bid**: Technical Bid and Price Bid should be submitted in two separate sealed envelopes quoting reference number on the top of the envelope. **Tender Fee, if any should be enclosed with the Technical Bid documents, in separate sealed envelopes, stapled with the packet containing Technical Bid documents.**

11. **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.

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

13. **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.

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

15. **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.

16. **Installation and Commissioning**: Free of cost at Sophisticated Analytical Technical Help Institute (SATHI), 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.

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

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

20. 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.

21. Bidders should enclose the following documents:

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

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

   c. 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 (if applicable).

22. 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
Department of Civil Engineering
IIT Kharagpur-721302, West Bengal (State)

23. 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.

24. 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

   Prof. Arghya Deb
   Department of Civil Engineering
   Indian Institute of Technology Kharagpur- 721302,
   West Bengal (State)
   Ph:+91-03222-283412
   Email: arghya@civil.iitkgp.ac.in (copy to sathi@iitkgp.ac.in)

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.
ANNEXURE-III

INSTRUCTIONS & SPECIAL CONDITIONS

1. **General:** Indian Manufacturers/Service provider or their authorized vendors, having registered office in India are invited to quote.

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 manufacturers/service providers/authorized vendors offices dealing with this purchase. (ii) Name and full address of the manufacturers/service providers/authorized vendors. (iii) **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:** The bidders to provide Performance Bank Guarantee of the amount equivalent to the 3% of the cost of contract value 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 60 (sixty) days beyond the expiry of the Warranty Period.

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.

7. **Interested vendors must be able to supply adequate spares and consumable during the 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

### 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 /propriety ship)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Manufacturer (OEM certificate) or Service Provider /Dealer (Authorization and OEM certificate from Manufactures )</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, if any</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Current list and address of clients where <strong>Three similar material/ products has been supplied</strong> (attach PO copies) and satisfactory certificates from the users.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>ISO Certification, if any</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Technical Compliance Statement</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Other documents like literature, catalogues etc. 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.** 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.**

**Signature and seal of the Bidder**
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: ______________

Signature and seal of Bidder Page 16 of 19
ANNEXURE - VI

BID SECURITY DECLARATION

1. I, --------------------------------------Son /Daughter of Shri ----------------------
--------------------------------------Proprietor/Partner/CEO/MD/Director/Authorized
Signatory of M/s.----------------------------------------------am competent
to sign this Bid Security Declaration and execute this tender document and hereby
declare that;

2. I understand that, according to your conditions, bid must be supported by a Bid
Securing Declaration.

3. I accept that I will automatically be suspended from being eligible for bidding in any
contract with IIT Kharagpur for a period equal to the duration of the contract for
tender related to ‘Services’ and/or 01 to 03 years in case of ‘Procurement of Goods’
from the date of notification, if I am in a breach of any obligation(s) under the bid
conditions, because I;

   a. have withdrawn/modified/amended, impairs or derogates from the tender
during the period of bid validity specified in the bid document, or

   b. having been notified of the acceptance of our Bid by IIT Kharagpur 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 Security, in accordance with
the General terms and conditions & Instructions to Bidders.

4. I understand this Bid Securing Declaration shall cease to be valid if I am not the
successful Bidder, upon the earlier of (i) the receipt of your notification of the name
of the successful Bidder; or (ii) 45 (forty-five) days after the expiry of the validity of
my Bid.

Signature of the Authorized Person

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

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

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

Company Seal: ---------------------
Tender for Supply, Installation, Commissioning and training in operation of UTM with furnace for high temperature testing of concrete and steel structural components (Solution On Turnkey Basis) with 5 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, Installation, Commissioning, and training in operation of UTM with furnace for high temperature testing of concrete and steel structural components (Solution On Turnkey Basis) with 5 years of warranty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL**

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>Registration Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>PAN and GST Certificates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Status of the Tenderer (attach documents, if registered company/ partnership/propriety ship)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Manufacturer (OEM certificate) or Service Provider /Dealer (Authorization and OEM certificate from Manufactures)</td>
<td></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>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Income Tax Returns of latest last three years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Average turnover of company in last three years should be of Rs. 100 lakhs, if any</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Current list and address of clients where three similar material/products has been supplied (attach PO Copies) and satisfactory certificates from the users.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>ISO Certification, if any</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Technical Compliance Statement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Other documents like literature, catalogues etc. duly signed by authorized person</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Declaration as per Annexure - V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Bid Security Declaration as per Annexure - VI</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Financial Bid (Envelope – B)**

| 1    | Price Bid (As per the format given at Annexure – VII) |        |         |

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