TENDER DOCUMENT
(IIT/SMST/ENQ-17/SDhara/2020-2021 dated: 22/02/2021)

FOR

Advanced Rheometer for Viscoelastic characterization of Polymers & Complex fluids with necessary geometries and temperature control units

OF

(SCHOOL OF MEDICAL SCIENCE AND TECHNOLOGY)

IIT Kharagpur

INDIAN INSTITUTE OF TECHNOLOGY Kharagpur
Kharagpur – 721302
WEST BENGAL
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NOTICE INVITING TENDER

Indian Institute of Technology Kharagpur, an Institute of Eminence, invites sealed bids from all Indian Manufacturers/Service providers having registered office in India who fulfil the criteria mentioned in the Tender document and have adequate credential, for the "Advanced Rheometer for Viscoelastic characterization of Polymers & Complex fluids with necessary geometries and temperature control units" at the School of Medical Science & Technology, 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/SMST/ENQ-17/SDhara/2020-2021 dated: 22/02/2021) and submitted to “Chairman, Departmental Purchase Committee, School of Medical Science & Technology, Indian Institute of Technology, Kharagpur, P.O. Kharagpur Technology, PIN : 721 302” on or before 15/03./2021 at 3.00 PM . Technical Bids will be opened on 16/03/2021 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.

Dr. Santanu Dhara
Signature of Indenter/Professor-in-Charge,
School of Medical Science & Technology
IIT Kharagpur

Signature of Head
School of Medical Science & Technology
IIT Kharagpur

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

<table>
<thead>
<tr>
<th>Enquiry No</th>
<th>IIT/SMST/ENQ-17/S Dhara/2020-2021 dated: 22/02/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated cost</td>
<td>NA</td>
</tr>
<tr>
<td>Bid Document fee (Non-refundable)</td>
<td>Nil</td>
</tr>
<tr>
<td>Pre -bid Meeting</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Last date for submission of sealed tenders/quotations</td>
<td>15/03/2021 at 03.00PM</td>
</tr>
<tr>
<td>Pre -qualification &amp; Technical Bid opening date/time</td>
<td>16/03/2021 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 (Bidders should submit the Bid Security Declaration as per Annexure VI)</td>
</tr>
</tbody>
</table>
| Submission of bids (by speed post) (Addressed to) | Chairman  
Departmental Purchase Committee  
School of Medical Science & Technology  
Kharagpur-721302, W.B |

**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.
## TECHNICAL SPECIFICATIONS

**Advanced Rheometer for Viscoelastic characterization of Polymers & Complex fluids with necessary geometries and temperature control units**

*(Enquiry No: IIT/SMST/ENQ-17/SDhara/2020-2021 dated: 22/02/2021)*

<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><strong>MAIN INSTRUMENT</strong></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>MOTOR TECHNOLOGY:</strong> Drag cup motor</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>BEARING TYPE:</strong> Magnetic levitation thrust bearing together with radial bearings along the length of the rotating shaft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>NORMAL FORCE TRANSDUCER:</strong> Force rebalance transducer to measure normal force with zero deflection</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MINIMUM TORQUE IN OSCILLATION:</strong> 1.5 nNm range or Lower</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MINIMUM TORQUE IN STEADY SHEAR</strong> (rotation): 4 nNm or Lower</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>MAXIMUM TORQUE:</strong> 250 mNm or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>TORQUE RESOLUTION:</strong> 0.15 nNm or lower</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>ANGULAR VELOCITY RANGE:</strong> 0 to 300 rad/s or better</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>FREQUENCY RANGE:</strong> $10^{-7}$ to 100 Hz</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>STRAIN SENSOR:</strong> High resolution optical encoder</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>STRAIN/DISPLACEMENT RESOLUTION:</strong> 2.5 nrad or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MEASUREMENT TYPES:</strong> Rotational, Oscillatory &amp; Transient</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>NORMAL FORCE:</strong> 0.005 to 50N</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>NORMAL FORCE RESOLUTION:</strong> 0.5 mN</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>STEP TIME IN RATE:</strong> 5 ms</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>STEP TIME IN STRAIN:</strong> 15 ms</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>GAP CONTROL:</strong> Automatic gap control</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>AUTO RECOGNITION:</strong> Both automatic temperature system and geometry recognition</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>GEOMETRY CONNECTION:</strong> The rheometer must include a “drawrod” geometry connection and the geometries have to be fixed with the drawrod by screw tightening mechanism. Normal plug-in type geometries are not accepted</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
TORQUE CALIBRATION: The rheometer must have an option for a first principle torque calibration with NIST traceability. Torque calibration with certified oil or other material is unacceptable because true first principle calibration can’t be accomplished with materials affected by two degrees of freedom (temperature and torque)

TEMPERATURE CONTROL – I: Peltier Plate temperature control system

CONTROLLED TEMPERATURE SYSTEM: The control temperature ranges of -30°C to 200°C with the maximum temperature control accuracy of ± 0.2°C

MEASURING GEOMETRIES FOR PELTIER PLATE TEMPERATURE SYSTEM:
• 40 mm 2 deg Cone made of Stainless steel – 1 No
• 20 mm parallel plate made of stainless steel- 1No
• 40 mm parallel plate made of Stainless steel-1 No
• 60 mm parallel plate made of Stainless Steel – 1 No
• Geometries auto recognition features
• Solvent trap accessory for the above geometries to avoid any sample evaporation
• The rheometer must include a “drawrod” geometry Connection

TEMPERATURE CONTROL – II: Peltier Concentric cylinder with Din rotor made of Stainless Steel-1No. Temperature range -10 o C to 150 o C

RHEOLOGY SOFTWARE

TESTING PROTOCOLS
1) Oscillation Mode Tests:
• Torque/Stress sweep (linear or log) at single frequency
• Frequency sweep (linear or log) at single torque
• Frequency sweep (linear or log) at single strain
• Strain/angular displacement sweep (linear or log) at single frequency
• Temperature sweep at single frequency/torque
• Superimposed stress oscillation and steady shear
• Superimposed strain oscillation and steady shear
• Multiple simultaneous frequencies superimposed on above modes
2) Flow Mode Tests:
• Controlled stress or torque sweeps.
• Controlled rate (1/s) or speed (rad/s) sweeps.
• Stress stepped flow.
• Equilibrium stress stepped flow (ensures material has time to respond to each level of stress).
• Temperature sweeps at constant stress or rate.
• Squeeze flow and pull off.
3) Creep Mode Tests:
• Constant stress creep and recovery.
• Automatic sensing of steady state during creep test.
4) Stress relaxation
• Constant strain and stress relaxation test
<table>
<thead>
<tr>
<th>TESTING PROTOCOLS</th>
<th>Guarantee/Warranty of above items</th>
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</thead>
<tbody>
<tr>
<td>✓ All raw data or instrument parameters must be accessible at any time.</td>
<td>Guarantee supply of spares for a minimum period of 5 years</td>
</tr>
<tr>
<td>✓ The instrument software must report absolute uncorrected torque applied by the</td>
<td></td>
</tr>
<tr>
<td>motor (not sample torque corrected for moment of inertia) in addition to the</td>
<td></td>
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<tr>
<td>stress applied by the motor and the inertia corrected stress actually applied</td>
<td></td>
</tr>
<tr>
<td>to the sample.</td>
<td></td>
</tr>
<tr>
<td>✓ The instrument software must report both raw phase angle and corrected phase</td>
<td></td>
</tr>
<tr>
<td>angle for oscillation measurements for validation of data quality. Viewing</td>
<td></td>
</tr>
<tr>
<td>these signals enable full understanding of the effect of moment of inertia on</td>
<td></td>
</tr>
<tr>
<td>measured data for acceptance.</td>
<td></td>
</tr>
<tr>
<td>✓ The rheometer system must display the oscillation waveforms real-time and</td>
<td></td>
</tr>
<tr>
<td>store the waveform for each data point. The waveform should be viewable in</td>
<td></td>
</tr>
<tr>
<td>order to provide an indication of the amount of noise, slip, or inertial</td>
<td></td>
</tr>
<tr>
<td>correction for each point.</td>
<td></td>
</tr>
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</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): 15/03/2021 up to 3.00 P.M.

2. The Technical bids will be opened on 16/03/2021 at 4.15 P.M. in the Seminar Room, School of Medical Science & Technology, I.I.T. Kharagpur, West Bengal.

3. Payment Terms & Performance Bank Guarantee (PBG): 100% payment will be made after receipt of stores in good order and condition and certification by the Department. No advance/mobilization support, is payable against supply of stores.

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 firm has to guarantee supply of spares for a minimum period of 5 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.

8. 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.

9. Delivery of Stores: The store items are to be supplied within 30 days from the date of receipt of the Purchase Order.

10. 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.

11. **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.**

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:** To be done by bidder. Bidder needs to provide necessary training for operations.

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. **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).**

23. **All tenders are to be handed over in a sealed box in the Office of School of Medical Science & Technology, 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, Departmental Purchase Committee
School of Medical Science & Technology,
IIT Kharagpur-721302, West Bengal

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

Dr. Santanu Dhara
School of Medical Science & Technology
Indian Institute of Technology Kharagpur- 721302,
West Bengal
[Ph: +91-03222-282306] Email: sdhara@smst.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 providers 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 offices dealing with this purchase. (ii) Name and full address of the manufacturers/service providers (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**: Not applicable

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.
<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 (&lt;br&gt;attach documents, if registered company/ partnership /propriety ship)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Manufacturer (OEM certificate) or Service Provider /Dealer &lt;br&gt;(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. 60 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 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.,(if any)</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: -----------------------------
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 ref no: IIT/SMST/ENQ-17/SDhara/2020-2021 dated: 22/02/2021

Tender for Advanced Rheometer for Viscoelastic characterization of Polymers & Complex fluids with necessary geometries and temperature control units are needed to be documented and the same has to submitted at the time of delivery of the Injection moulded tool and parts.

<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 of <strong>plastic injection mold multi-part tool</strong> with documented injection mold development process.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Supply of <strong>molded resign components</strong> along with the documented environmental conditions encountered in the development of injection moulded parts.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Supply of **plastic injection mold multi-part tool** with documented injection mold development process.
2. Supply of **molded resign components** along with the documented environmental conditions encountered in the development of injection moulded parts.

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
Tender ref no: IIT/SMST/ENQ-17/SDhara/2020-2021  dated: 22/02/2021

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>Minimum turnover of company of last three years should be of Rs. 60 lakhs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Current list and address of clients where <strong>three similar materials/products has been supplied</strong> (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.,(if any)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Declaration as per <strong>Annexure - V</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Bid Security Declaration as per <strong>Annexure - VI</strong></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.