



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@iitism.ac.in || Website : www.iitism.ac.in

No. Chemical/INS/264/18-19

Date: 25 October 2018

NOTICE INVITING TENDER

Subject: Supply & Installation of Temperature Controlled Capillary Viscometer Apparatus and Stirred Tank Heater

Indian Institute of Technology (Indian School of Mines), Dhanbad invites quotations for the following to be supplied and delivered in Chemical Engineering Department.

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Temperature Controlled Capillary Viscometer Apparatus and Stirred Tank Heater. (Detailed Specification is given in Annexure – I)	01 No.	At the Earliest

Tender Schedule

Particulars	Date & Time
Tender Fees*	Rs. 590.00 (Five Hundred & Ninety Only)
Bid Security or Earnest Money Deposit	Rs. 13,000.00 (Thirteen Thousand Only)
Last date and time for submission of tenders	20.11.2018 at 1:00 P.M.
Date and time of opening of tenders	20.11.2018 at 4.00 P.M.

* For submission of tender cost please see the point no. 06 Terms & Conditions.

Tender document containing following document is available on websites of (<https://eprocure.gov.in> & www.iitism.ac.in), which may kindly be referred.

1. You are requested to quote your lowest rates for the supply of above items in the attached format for Financial Bid (Annexure – II)
2. You may send your representative in the office of the undersigned at the scheduled date and time of opening of tender.
3. Tender should be submitted in sealed cover only superscribed with Enquiry No. and due date at the following address only:

The Assistant Registrar (P&S)

Indian Institute of Technology (Indian School of Mines),

Dhanbad – 826 004 Jharkhand



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Terms & Conditions

- 1) The rates should be quoted for each item separately.
- 2) Conditional offer will not be accepted.
- 3) IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of sales tax/VAT, GST applicable should be quoted.
- 4) Since IIT(ISM) Dhanbad is an Indian Institute of Technology and subject item will be used for research, hence benefit of reduced rate of GST should be considered if applicable.
- 5) **Educational discount**, if any, should be clearly mentioned.
- 6) Earnest Money Deposit (EMD): Should be submitted in form of A/C payee demand draft drawn in favor of Registrar, IIT(ISM) and payable at SBI, IIT (ISM) campus branch or any other Bank/ Branch located in Dhanbad and Tender Fees must be paid through SB collect only through the link <https://www.onlinesbi.com/prelogin/collecthome.htm?corpID-272342>, tender cost payments through other modes viz. Cash/DD/NEFT/RTGS etc. shall not be accepted. Online payment receipt should be enclosed with Tender Document.
- 7) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
- 8) Your tender must be valid for **minimum 90 days** from the date of opening of tender.
- 9) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of **12 months**.
- 10) Each page in the bid document must be numbered properly and duly signed & sealed by the bidder on every page of the bid.
- 11) **The items/ materials shall be required to be delivered at Chemical Department/ Section through Purchase & Store Section, IIT (ISM) Dhanbad at the risk and cost of the tenderer.**
- 12) Unloading and installation shall be the complete responsibility of the supplier.
- 13) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
- 14) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 15) **Advance payment is not admissible.** Payment shall normally be made within 30-45 days subject to receipt and acceptance & installation of the ordered materials/items PBG and other documents.
- 16) Successful bidders will have to submit Performance Security (PBG) in the form of Bank Guarantee as per the Purchase Order before releasing payment.
- 17) In the event date on which the tender is opened for acceptance is declared to be a holiday, the tenders shall be deemed to remain open for acceptance till the next working day.
- 18) Please send your sealed offer by Regd. Post/ Speed Post/ Courier only along with Courier receipt. By hand delivery of the tender will not be accepted. Tender/ quotation will be received during IIT (ISM) working hours only (i.e. Monday to Friday). *Late or delayed tenders shall be summarily rejected.*
- 19) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 20) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

Assistant Registrar



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Annexure-I

Technical Specification for Temperature Controlled Capillary Viscometer Apparatus and Stirred Tank Heater.

- Refrigerated/Heating Circulator:
- Working Temperature Range: -50 to 200 ° C or better
- Temperature Control : Intelligent Cascade Control
- Temperature Stability: ± 0.01 ° C or better
- Heating Capacity: 2 kW or more
- Cooling capacity: 0.2 kW and higher
- Pump: Suction and discharge pumps with consistent capacity (in the range of 20-25 LPM or better) with electronically adjustable pumps stages (2 or more). There should be provisions for connections for solenoid valve and booster pump
- Discharge pump pressure: 0.4-0.7 bar or higher
- Suction pump pressure: 0.2-0.4 bar or higher
- Bath tank size: 5-10 liters or better
- Fittings: Connection ports for pump inlet and outlet(barbed fittings for tubing 8-12 mm inner diameter)
- External Pt100 sensor: 200 x 6 mm dia. with 1.5 m cable; MOC: stainlesssteel
- Integrated Pt100 external sensor connection port for measurement and control
- Display cum control keypad: Easy to read LCD display with temperature resolution of ± 0.01 ° C and with a keypad for control parameters, integrated programmer, pump, calibrations, and other menu functions
- Refrigerant: Haloalkane refrigerant
- Unit must be of International standard & CE Certificate must be produced
- Interface for online communication: RS232, RS485

• Viscosity Bath:

- Transparent viscosity bath of size: 15- 20 L with inlet and outlet ports(barbed fittings for tubing 8-12 mm inner diameter)equipped holder for thermometers
- MOC for bath: Transparent Perspex/Plexiglas, or equivalent
- Unit must be supplied with required level adapter for open bath tank operation, necessary hand shut off valves for loop circuit and silicon tubings (8 mm ID \times 10 mm OD)with insulated tubes of required length and quantity
- All the necessary items required for the operation of equipment are to be quoted and supplied.
- **All materials used in the instrument/equipment should be of highest quality:** Industrial grade SS (e.g., SS304) should be used for wetted parts such for tanks, pump pipes, tubes, fittings etc.
- Warranty: Minimum one year and provisional AMC after warranty period



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Annexure - II

Format for Financial Bid

NIT No.: Chemical/INS/264/18-19

Date: 25 October 2018

Bidders Ref: No.

Date:

GSTIN No.:

Subject: Supply & Installation of Temperature Controlled Capillary Viscometer Apparatus and Stirred Tank Heater.

Sl. No.	Full Description of Items with (HSN Code/SAC Code)	Qty.	Rate	Amount
		Packing & Forwarding (if any)		
		Total		
		GST		
		Freight (if any)		
		Installation (if any)		
Amount should be in figure as well as word		Grand Total		

Note:

- 1) Price basis should be FOR IIT(ISM) Dhanbad.
- 2) All the details must be provided as per prescribed format only.
- 3) Prices quoted by the bidders should include all local taxes, VAT, service tax, GST, HSN Code, SAC Code, livies, transportation cost and insurance costs etc. if any