



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. Mech-INS-257--2018-19

Date: October 25, 2018

NOTICE INVITING TENDER

Subject: Supply & Installation of Rheometer and data acquisition system

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

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Rheometer and data acquisition system (Detailed Specification is given in Annexure – I)	01No.	At the Earliest

Tender Schedule

Particulars	Date & Time
Tender cost	Rs 590.00 (Rupees Five Hundred Ninety Only) [Please see Terms & Conditions point no. 03]
Earnest money deposit	Rs. 18,000.00(Rupees Eighteen Thousand Only)
Last date and time for submission of tenders	12.11.2018 at 3:00 P.M.
Date and time of opening of tenders	12.11.2018 at 4:00 P.M.

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 super scribed with Enquiry No. and due date at the following address only:

The Asst. Registrar (P&S)
Indian Institute of Technology (Indian School of Mines),
Dhanbad – 826 004 Jharkhand



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Annexure – 1

Tender Specification for Rheometer and Data acquisition system

MOTOR TECHNOLOGY	The Rheometer should employ EC SYNCHRONOUS MOTOR for transient free response. SYNCHRONOUS MOTOR
TORQUE RANGE	0.25 mNm (or lower) to 70 Nm (or higher)
SHEAR RATE	0.01 (or lower) to 4000 (or higher) 1/s
SHEAR STRESS	0.5 (or lower) to 3 X 10000 pa (or higher) or better
SPEED	0.01 (or lower) to 1200 RPM (or higher)
VISCOSITY MEASURING RANGE	1 (or lower) to 1000000 Pa.s (or higher)
INTERNAL ANGULAR RESOLUTION	Better than or equal to 2 μ rad
TEMPERATURE CONTROL	Liquid Temp. Controller
TEMPERATURE RANGE	Ambient (25°) to 80 °C (or higher)
SERIAL INTERFACE	RS232
MEASUREMENT TYPE	Controlled Shear Stress (CSS) Controlled Shear Rate (CSR)
GEOMETRY RECOGNITION	Automatic Geometry Recognition & Configuration facility.
INSTRUMENT CONTROL	The Rheometer SHOULD BE MANUALLY as well as software CONTROLLED.
TESTING PROTOCOLS	Dynamic Viscosity Shear Rate Shear Stress



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	Speed Torque Temperature Time Yield point Kinematic Viscosity Creep & recovery
MEASURING GEOMETRIES	MINIMUM ONE CONCENTRIC CYLINDER GEOMETRIES SHOULD BE QUOTED (FOR LOW to MEDIUM VISCOSITY RANGE OF SAMPLES). It should be complied with ISO3219
VISCOSITY STANDARDS	At least one Certified Viscosity Standard Liquid should be supplied with the instrument.
Software	Software should be quoted at least for measuring flow, measuring viscosity Curve, and report generation,
Data acquisition system	Computer with below recommended hardware or equivalent model have to be supplied along with the instrument for operation.
	Processor: 8th Gen Core i7 CPU Speed (in GHz): 12MB Cache, up to 4.6 GHz Operating System: Windows 10 Professional RAM Size in GB: 16GB 2666MHz; up to 32GB RAM Type: DDR4 Hard Disk Drive (Storage): 1 TB CPU should be equipped with suitable Ethernet adaptor Monitor: LED, 22 inch or higher UPS: 660 Watts or higher



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Terms & Conditions

- 1) The rates should be quoted for each item separately.
- 2) Conditional offer will not be accepted.
- 3) **Tender Cost:** Tender cost shall be paid through SB collect only. Tender cost is non-refundable and non-transferable. Venders/contractors/suppliers can pay the Tender Cost through the link: <https://www.onlinesbi.com/prelogin/collecthome.htm?corpID=272342> the receipt of tender cost must be attached with the Tender documents, **without receipt tender will be rejected.**
- 4) IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of GST applicable should be quoted.
- 5) **Bid Security or Earnest money deposit (EMD):** EMD should be submitted in form of A/c payee demand draft drawn in favor of Registrar, IIT (ISM) Dhanbad and payable at any other bank/branch located in Dhanbad. It should not be clubbed with tender cost EMD of unsuccessful bidder will be refunded only after placement of purchase order on the successful bidder.
- 6) **Educational discount,** if any, should be clearly mentioned.
- 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 **24 months** from the date of installation
- 10) **Performance Security/Performance Bank Guarantee:** Performance Security has to be submitted from the successful bidder. Performance Security should be 10% of the ordered value. Performance Security may be furnished in the form of Bank Guarantee/Demance Draft from any Nationalized Bank and. Performance security should remain valid for a period of two months beyond the date of completion of all contractual obligations of the successful bidder(s). No interest will be payable by IIT (ISM) Dhanbad on the Performance Security deposited. In case the contractor fails to provide satisfactory service, the Performance Security submitted by the bidder(s) is liable to be forfeited. An undertaking to this is to be submitted.
- 11) Each page in the bid document must be numbered properly and duly signed & sealed by the bidder on every page of the bid.
- 12) **The items/ materials shall be required to be delivered at Applied Physics, Department/ Section IIT (ISM) Dhanbad** at the risk and cost of the tenderer.
- 13) Unloading and installation shall be the complete responsibility of the supplier.
- 14) The stores are required to be preferably delivered within 30 days. Late delivery may not be accepted.
- 15) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 16) **Advance payment or part payment or part shipment is not admissible.** Payment shall normally be made within 4-6 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items and submission of original bills/invoice, challan, installation report, warranty certificate etc, and PBG followed by it confirmation.
- 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. IIT (ISM) reserves right to extend the date & time of submission/opening of the quotations.
- 18) Please send your offer by Regd.Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) working hours only (i.e. Monday to Friday). **At any circumstances by hand delivery is not acceptable.** 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.



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Assistant Registrar

Annexure - II

Format for Financial Bid

NIT No.: Mech-INS-257--2018-19

Date:

Bidders Ref: No.

Date:

GSTIN No.:

Subject: Supply & Installation of Rheometer and data acquisition system

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) All the details must be provided as per prescribed format only
- 2) Prices quoted by the bidders should include GST, HSN Code, SAC Code, duties, livies, and transportation cost and insurance costs etc. if any
- 3) All the rates must be quoted in Indian Rupees.