

# भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्डं, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्त्व 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

### **Corrigendum-1**

Ref No.: NIT No. Chemical/INS/242/18-19, Dated: 2 November 2018

**Subject**: Extension of date for submission of Bids for Supply and Installation of **Temperature Measurement and Calibration Setup** 

1.	The date & time for submission of tenders	19.11.2018 at 1:00 P.M.
2.	Date and time of opening of tenders	19.11.2018 at 4.00 P.M.

All terms & conditions remain same.

Assistant Registrar

Date: 2 November 2018



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### NOTICE INVITING TENDER

#### Subject: Supply & Installation of Temperature Measurement and Calibration Setup

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 Measurement and	01 No.	At the Earliest
	Calibration Setup.		
	(Detailed Specification is given in Annexure – I)		

#### **Tender Schedule**

Particulars	Date & Time		
Tender Fees*	Rs. 590.00 (Five Hundred & Ninety Only)		
Bid Security or Earnest Money Deposit	Rs. 20,000.00 (Twenty Thousand Only)		
Last date and time for submission of tenders	19.11.2018 02.11.2018 at 1:00 P.M.		
Date and time of opening of tenders	19.11.2018 02.11.2018 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 (<a href="https://eprocure.gov.in">https://eprocure.gov.in</a> & 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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### Date: 2 November 2018

#### 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 <a href="https://www.onlinesbi.com/prelogin/icollecthome.htm?corpID-272342">https://www.onlinesbi.com/prelogin/icollecthome.htm?corpID-272342</a>, 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 **36 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.



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No. Chemical/INS/242/18-19

Annexure-I

Date: 2 November 2018

### **Technical Specification for Temperature Measurement and Calibration Setup.**

- Bench-mounting unit with built-in and properly insulated water heater tank (size: 1.0-5 L) with rated immersion heater and with protective guards for safe experiments and drain tap
- Water heater Tank MOC: SS304 or equivalent
- Bath temperature uniformity: ± 0.1°Cor better
- The water heater tank should include a water level float switch an a safety temperature cut-out switch to turn off the heater in case of low water level
- Thermowell to study temperature lag
- Built-in pressure sensor (barometer) with display of local water boiling temperature
- Sockets on the front panel to connect to electronic circuits. Sockets should include resistances to simulate a resistance device and to show the problems of adding resistances to the circuits
- The electronic circuits should also include: (i) an amplifier to increase the output of the thermocouples for more useful voltage measurement and (ii) constant current and voltage sources, and a resistive bridge
- A multiline display that should work with the electrical resistance and thermocouple devices
- Automatic data acquisition system with compatible hardware, software and interfacing and other accessories for simple and reliable real-time digital data recording and processing of results on a PC

#### • Temperature measuring devices:

- (i) Pt100 platinum resistance thermometers (four wire) as a reference to accurately calibrate theother devices
- (ii) J, K, and other type thermocouples
- (iii) NTC thermistor
- (iv) Twoliquid in gas thermometers
- (v) Bimetal and gas (vapor) PRESSURE thermometers
- (vi) Liquid crystal temperature indicator strip (for reference purpose only)
- (vii) Hand-held infrared thermometer

#### Computer:

Processor: Core i5, Hard Disk: 500 GB, RAM: 4GB, Monitor- 22 inch LED, Keyboard, Mouse, USB ports, Compatible Windows OS (Latest version), etc.

- 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, pipes, tubes, fittings etc. Structural component MOC should be of MS or better
- Warranty: minimum 3 years and provisional AMC after warranty period



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No. Chemical/INS/242/18-19

Annexure - II

Date: 2 November 2018

#### Format for Financial Bid

NIT No.: Chemical/INS/242/18-19	Date: 2 November 2018
Bidders Ref: No.	Date:
GSTIN No.:	

Subject: Supply & Installation of Kit for Study of Percentage Differential Relay.

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

#### Note:

- 1) Price basis must be FOR IIT(ISM) Dhanbad only.
- 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