

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

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 : drps@ismdhanbad.ac.in || Website : www.iitism.ac.in

No.:Mech-500532-2016-17

Date: March 27, 2017

NOTICE INVITING TENDER

Subject: Supply & Installation of Data acquisition system with accessories

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 Data acquisition system with accessories (Detailed Specification is given in Annexure – I)	01 No.	At the Earliest /Ex-Stock

Tender Schedule

Particulars	Date & Time
Last date for seeking clarification/s (if any)	14.04.2017 at 3:00 P.M.
Last date and time for submission of tenders	21.04.2017 at 3:00 P.M.
Date and time of opening of tenders	21.04.2017 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. Clarification(s) sought after the prescribed date shall not be entertained.
3. You may send your representative in the office of the undersigned at the scheduled date and time of opening of tender.
4. Tender should be submitted in sealed cover only superscribed with Enquiry No. and due date at the following address only:

The Deputy Registrar (P&S)

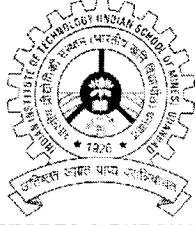
Indian Institute of Technology (Indian School of Mines),

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 applicable should be quoted.
- 4) **Educational discount**, if any, should be clearly mentioned.
- 5) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
- 6) Your tender must be valid for **minimum 90 days** from the date of opening of tender.
- 7) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of **12 months**.
- 8) *Each page in the bid document must be numbered properly* and duly signed & sealed by the bidder on every page of the bid.
- 9) **The items/ materials shall be required to be delivered at EE Department/ Section through Purchase & Store Section, IIT (ISM) Dhanbad at the risk and cost of the tenderer.**
- 10) Unloading and installation shall be the complete responsibility of the supplier.
- 11) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
- 12) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 13) **Advance payment is not admissible.** Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items.
- 14) 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.
- 15) 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). *Late or delayed tenders shall be summarily rejected.*
- 16) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 17) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.


27/3/17
Assistant Registrar

Specification for Data acquisition system with accessories

1. Data acquisition system (qty 01 nos):

Analog Channels with 2 analog input, each channel should be independent and support one isolated 3-wire or 4-wire input, or two isolated 2-wire inputs, or three common referenced 2-wire inputs.

Analog Sensors: Thermocouple, RTDs, Thermistors, Strain gauge and Bridge sensor.

Digital Input/Outputs: Minimum 4 nos channel.

Relay Output: Minimum 1 latching relay, contacts (max: 30V DC, 1A)

Low Speed Counters: Minimum 4 counters shared with digital inputs;

Count rate: 10 Hz or higher;

Dedicated Counter Inputs: Minimum 4 high speed or 2 phase encoder inputs; Input should support minimum 10 SDI-12 sensors;

Data Storage: Internal Storage: Minimum Capacity: 128MB.

Sampling rate: Minimum 25 Hz.

Resolution: Minimum 18 bits.

Linearity: Minimum 0.01%.

Real time clock with normal resolution of 200 μ s.

Temperature range: -45°C to 70°C or further wider range,

Communication Interfaces: 10 MBPS Ethernet port interface; Protocol: TCP/IP, Modbus (Master/Slave) USB Port, RS232 Port: Modbus (Master and Slave).

Serial Sensor port interface: RS232, RS422m, RS485 USB memory for easy data and program transfer;

Sensor Excitation Supply should be available in the Data-logger,

Display: LCD.

Power Supply: External voltage range: 10 to 30V DC,

Software: Should run directly from Web Browser, access current data and status from any web browser.

FTP Server: Should access logged data from any FTP client or web browser,

2. Computer for the system (qty 01 nos):

i3 or higher processor, minimum 4 GB RAM, minimum 500 GB hard-disk, minimum 2 GB graphics card, 10/100/1000 mbps LAN, minimum 15 inch monitor for laptop or minimum 19 inch for desktop, windows 8 or higher. If desktop, keyboard, mouse, and UPS, should be included in the bid.

P. T. O.

3. Infrared temperature gun (qty 01 nos):

Hand held, LCD display, adjustable emissivity, should measure temperature from at-least -25 to 550°C , with double (or higher) laser pointer to show the area / volume of the object.

4. Thermocouple (qty 02 nos):

Temperature range 0 to 650°C minimum, minimum 40 mm probe length, and minimum 2 mm probe diameter, separate digital temperature display.

5. Cartridge heater (qty 01 nos):

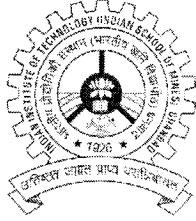
Surface load: 20 W/cm^2 or higher, Minimum diameter: 20 mm, Sheath temperature rise: 650°C minimum, will be connected to the data acquisition system for monitoring, saving, and analysis of data.

6. Hot plate (qty 01 nos): Magnetic hot plate, 2 liter minimum stirring capacity, 200 W minimum heating capacity.

7. Warranty:

Minimum 12 months from the date of installation & commissioning.

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Annexure - II

Format for Financial Bid

NIT No.: Mech-500532-2016-17

Dated:

Bidders Ref: No.

Dated:

Sub: Supply & Installation of Data acquisition system with accessories.

Sl. No.	Full Description of Items	Qty.	Rate	Amount
			Packing & Forwarding (if any)	
			Total	
			CST/VAT (if any)	
			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 all local taxes, VAT, service tax, duties, livies, transportation cost and insurance costs etc. if any
- 3) All the rates must be quoted in Indian Rupees.

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