

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.: MME-500494-2016-17

Date: March 23, 2017

NOTICE INVITING TENDER

March 23, 2017

**Subject: Supply & Installation of Hazardous Multi-Gas and temperature/Humidity Detector.**

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

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Hazardous Multi-Gas and temperature/Humidity Detector (Detailed Specification is given in Annexure – I)	02 Sets	At the Earliest /Ex-Stock

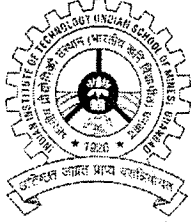
**Tender Schedule**

Particulars	Date & Time
Last date for seeking clarification/s (if any)	13.04.2017 at 3:00 P.M.
Last date and time for submission of tenders	18.04.2017 at 3:00 P.M.
Date and time of opening of tenders	18.04.2017 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*  
*P: 0326-2235612*  
*E: [drps@ismdhanbad.ac.in](mailto:drps@ismdhanbad.ac.in)*

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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.

*23/3/17*  
Deputy Registrar

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## Specifications

**Hazardous multi-gas and Temperature/Humidity Detector monitoring of following parameters:**

Parameters	Types of Inbuilt Sensor	Measuring range
Methane	Catalytic Pellistor	0 - 5 % V/V
Carbon Monoxide + Hydrogen Sulfide	Electrochemical	CO (0 - 2000 ppm); H <sub>2</sub> S (0 - 200 ppm)
Carbon dioxide	Non dispersive Infrared sensor (NDIR)	0-5% V/V
Oxygen	Electrochemical	0 - 25% V/V
Temperature & Relative Humidity sensor	Thermistor	Temperature 0 to 90 °C Humidity 0 - 99%
Vibration	Piezoelectric Accelerometer	

Other features to be complied:

- All the sensors and other accessories to be enclosed in a compact case of maximum dimension : 170mm X 100mm X 130 mm
- Display : 128 mm x 64 mm Graphics LCD Display
- Micro-controller board which monitors all sensor and units
- Sampling : Diffusion or Auto Suction Sampling through Inbuilt Pump
- Calibration : Automatic zero & with fresh air sample Calibration gases
- Power Supply : 3.7V DC Internal Lithium rechargeable battery
- Working Temperature : - 15 C to 55 C
- Case : High Impact Plastic External
- Weight : Less than 500 gm. (with battery)
- Response Time : Less than 10 sec at 90% variation or better
- Probe: 6 mm Dia, 600 mm length or better
- Accuracy : +/-1% or better
- Data Logger with USB Computer Interface
- Inbuilt Vibrator for sensor
- Different Alarm LED Indication of each sensor
- Battery Backup more than 10 Hrs or better
- Suitable Battery Charger for the whole system with sufficient back-up
- Real Time Clock on Display
- Alarm setting option by user for all the Parameter on site



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**Format for Financial Bid**

Our NIT No.: EE-500494-2016-17

Dated:

Bidders Ref: No.

Dated:

**Sub: Supply & Installation of Hazardous Multi-Gas and temperature/Humidity Detector.**

Sl. No.	Full Description of Items	Qty.	Rate	Amount
			Packing & Forwarding (if any)	
			<b>Total</b>	
			CST/VAT (if any)	
			Freight (if any)	
			Installation (if any)	
	Amount should be in figure as well as word		<b>Grand Total</b>	

**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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