



GSTIN : 20AAAAI0686D1ZA

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

No. App Chem-500314-2017-18

Date: Nov. 10, 2017

**NOTICE INVITING TENDER****Subject: Supply & Installation of Probe Based Oxygen Sensor**

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

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Probe Based Oxygen Sensor (Detailed Specification is given in Annexure – I)	01 No	At the Earliest /Ex-Stock

**Tender Schedule**

Particulars	Date & Time
Last date and time for submission of tenders	29.11.2017 at 1:00 P.M.
Date and time of opening of tenders	29.11.2017 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. 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 Deputy Registrar (P&S)*  
*Indian Institute of Technology (Indian School of Mines),*  
*Dhanbad – 826 004 Jharkhand*

21/11/17



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

GSTIN : 20AAAAI0686D12A

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](mailto:purchase@iitism.ac.in) || Website : [www.iitism.ac.in](http://www.iitism.ac.in)

No. App Chem-500314-2017-18

Date: Nov. 10, 2017

**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 GST 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.
- 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 AChem 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.

  
Assistant Registrar



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

GSTIN : 20AAAAI0686D1ZA

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. App Chem-500314-2017-18

Date: Nov. 10, 2017

**Technical Specification for Probe based Oxygen Sensor:**

**Annexure-I**

**A) Electronics Specification**

Dimensions	108 mm x 64 mm x 38mm
Weight	Within 1000 g
Principle:	Photoluminescence quenching using a ruthenium compound; sensor measure O <sub>2</sub> partial pressure
Parameters to be measured:	Luminescence phase shift, and pressure (via pressure transducer)
Sensor coating formulations	General purpose
Media:	Gases and liquids
Communications:	USB, analog out
Electronics Operating Temperature	
Minimum	0°C
Maximum	50°C
Data Sample Rate	10 Hz
Sensor	Stainless steel ferrule with Fiber Optic Oxygen Sensor with dimension 1.6 mm OD and 153mm length.
Pressure	300 psi

**B) Probe System Specifications.**

Use	General Purpose
O <sub>2</sub> % range (at 1 ATM)	0-100%
DO range (ppm at 1 ATM)	0-30 ppm
Temperature range (For probes)	-30° DC to +50° DC
O <sub>2</sub> % resolution	80 ppm in gas
DO resolution (at room temp.)	4 ppb
O <sub>2</sub> % accuracy	<6% of reading
DO accuracy	<6% of reading
Min detectable level in gas	0.015%-0.04%
Response Time	<1 s in gas and minimum 40 s in pure water.

**C) Warranty :**

Minimum 1 year standard & additional one year of comprehensive warranty from the date of successful installation. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours. The comprehensive warranty includes onsite warranty with parts. The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary.

**D) Make & Models:** Each model and part no. of the equipment must be mentioned in the quotation.

10/11/17



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

GSTIN : 20AAAAI0686D1ZA

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. App Chem-500314-2017-18

Date: Nov. 10, 2017

**Format for Financial Bid**

**Annexure - II**

NIT No.: App Chem-500314-2017-18

Date:

Bidders Ref: No.

Date

GSTIN No.:

**Subject: Supply & Installation of Probe Based Oxygen Sensor**

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)	
			Grand Total	

Amount should be in figure as well as word

**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, transportation cost and insurance costs etc. if any
- 3) All the rates must be quoted in Indian Rupees.

10/11/17