



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

No. App Chem-500232-17-18

Date: 06.09.2017

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 Applied Chemistry Department.

S No	Full Description of items/ store	Qty	Delivery																																												
1	<p>Supply & Installation of Probe based Oxygen Sensor Specification.</p> <p>Electronics</p> <table border="1"> <tr> <td>Dimensions</td> <td>108mmx64mx38m</td> </tr> <tr> <td>Weight</td> <td>Within 1000 g</td> </tr> <tr> <td>Principle:</td> <td>Photoluminescence quenching using a ruthenium compound; sensor measure O₂ partial pressure</td> </tr> <tr> <td>Parameters to be</td> <td>Luminescence phase shift, and pressure (via pressure transducer)</td> </tr> <tr> <td>Sensor coating</td> <td>General purpose</td> </tr> <tr> <td>Media:</td> <td>Gases and liquids</td> </tr> <tr> <td>Communications:</td> <td>USB, analog out</td> </tr> <tr> <td>Electronics Operating Minimum</td> <td>0°C</td> </tr> <tr> <td>Maximum</td> <td>50°C</td> </tr> <tr> <td>Data Sample Rate</td> <td>10 Hz</td> </tr> <tr> <td>Sensor</td> <td>Stainless steel ferrule with Fiber Optic Oxygen Sensor with dimension 1.6 mm OD and 153 mm length</td> </tr> <tr> <td>Pressure</td> <td>300 psi</td> </tr> </table> <p>B) Probe System Specifications.</p> <table border="1"> <thead> <tr> <th>Use</th> <th>General Purpose</th> </tr> </thead> <tbody> <tr> <td>02% range (at 1 ATM)</td> <td>0-100%</td> </tr> <tr> <td>DO range (ppm at 1 A TM)</td> <td>0-30 ppm</td> </tr> <tr> <td>Temperature range (For probes)</td> <td>-30 DC to +50 DC</td> </tr> <tr> <td>02 % resolution</td> <td>80 ppm in gas</td> </tr> <tr> <td>DO resolution (at room temp.)</td> <td>4 ppb</td> </tr> <tr> <td>02 % accuracy</td> <td><6% of reading</td> </tr> <tr> <td>DO accuracy</td> <td><6% of reading</td> </tr> <tr> <td>Min detectable level in gas</td> <td>0.015%-0.04%</td> </tr> <tr> <td>Response Time</td> <td><1 s in gas and minimum 40 s in pure water</td> </tr> </tbody> </table>	Dimensions	108mmx64mx38m	Weight	Within 1000 g	Principle:	Photoluminescence quenching using a ruthenium compound; sensor measure O ₂ partial pressure	Parameters to be	Luminescence phase shift, and pressure (via pressure transducer)	Sensor coating	General purpose	Media:	Gases and liquids	Communications:	USB, analog out	Electronics Operating 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 153 mm length	Pressure	300 psi	Use	General Purpose	02% range (at 1 ATM)	0-100%	DO range (ppm at 1 A TM)	0-30 ppm	Temperature range (For probes)	-30 DC to +50 DC	02 % resolution	80 ppm in gas	DO resolution (at room temp.)	4 ppb	02 % 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	01 No.	At the Earliest /Ex-Stock
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Tender Schedule

Particulars	Date & Time
Last date and time for submission of tenders	26.09.2017 at 3:00 P.M.
Date and time of opening of tenders	26.09.2017 at 4.00 P.M.

Terms & Conditions

- Interested firm(s)/bidder(s) are requested to quote their lowest rates for the supply of above items in the attached format for Financial Bid (Annexure – I)
- Clarification(s) sought after the prescribed date shall not be entertained.
- The firm(s)/bidder(s) may send their representative in the office of the undersigned at the scheduled date and time of opening of tender. The representative must carry an Authorization Letter along with proper Identity Proof and Photograph.
- Tender must be submitted in sealed cover only super scribed 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

- The rates should be quoted for each item separately.
- Conditional offer will not be accepted.
- IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of GST applicable should be quoted.
- Educational discount**, if any, should be clearly mentioned.
- The firm(s)/bidder(s) are requested to submit their quotation strictly as per the specifications mentioned in the NIT.
- The bid/quotation must be valid for **minimum 90 days** from the date of opening of tender.
- Please mention warranty/guarantee in the offer clearly. Material/equipment to be supplied must have minimum warranty/guarantee of **12 months**.
- Each page in the bid document must be numbered properly* and duly signed & sealed by the bidder on every page of the bid.
- The items/materials shall be required to be delivered at Applied Chemistry Department/ Section through Purchase & Store Section, IIT (ISM), Dhanbad** at the risk and cost of the tenderer.
- Unloading and installation shall be the complete responsibility of the supplier.
- The stores are required to be delivered within 30 days from the date of Purchase Order. Late delivery may not be accepted.
- The items offered should be of good quality confirming to BIS standards, wherever applicable.
- Advance payment is not admissible.** Payment shall normally be made within 3-4 weeks subject to receipt, acceptance & satisfactory installation (as per Purchase Order Terms) of the ordered materials/items.
- 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.



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19. Please send your offer by Regd. Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM), Dhanbad working hours only (i.e. Monday to Friday). *Late or delayed tenders shall be summarily rejected.*
20. Any other information that you may like to obtain, you are free to contact IIT (ISM), Dhanbad before submission of tender.
21. IIT (ISM), Dhanbad reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

Assistant Registrar



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Annexure - I

Format for Financial Bid

NIT No.: App Chem-500232-2017-18

Dated: 06.09.2017

Bidders Ref: No.

Dated:

Subject: Supply & Installation of Probe based Oxygen Sensor.

Sl. No.	Full Description of Items	Qty.	Rate	Amount
			Packing & Forwarding (if any)	
			Total	
			GST (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 GST, HSN Code, SAC Code, duties, levies, transportation cost and insurance cost etc., if any.
- 3) All the rates must be quoted in Indian Rupees.