

**Office of the Dean of Research and Development  
Indian Institute of Engineering Science & Technology (IEST), Shibpur,  
Howrah-711 103**

**Project Code: DRC/MoT/SMSE/SC/027/16-17**

**Dr. M. N. Dastur School of Materials Science and Engineering  
Indian Institute of Engineering Science and Technology,  
Shibpur, Howrah-711 103**

**Notice Inviting Quotations**

Sealed quotations are invited for the supply of an Oxygen Analyzer System for Limited Oxygen Index (LOI) Apparatus as per the technical specification provided in section II. The relevant bidding document can be downloaded from the website. The document can be also obtained from the Dr. M. N. Dastur School of Materials Science and Engineering (contact: Prof. Subrata Chatterjee) between 11.00 a.m. and 3.00 p.m. on all working days. The sealed quotations should be submitted at the office of the M. N. Dastur School within **10 working days** from the date of publication of the notice till 5.00 P.M. The quotation should include the delivery charges (in INR) of the item to MNDSMSE, Indian Institute of Engineering Science & Technology, Shibpur.

**Dean (R & D)**

**(A. Code DRC- T070/17-18)**

This is downloadable

**Indian Institute of Engineering Science and Technology,  
Shibpur, Howrah-711 103**



**BIDDING DOCUMENT**

**(Project Code: DRC/MoT/SMSE/SC/027/16-17)**

**Under**

Government of India Project

(DRC/MoT/SMSE/SC/027/16-17)

Dr. M. N. Dastur School of Materials Science and Engineering

October, 2017

**SECTION I: TERMS & CONDITIONS AND IMPORTANT INSTRUCTIONS FOR BIDDERS**

1. Bidders are invited to submit sealed quotation as per the technical specifications for tendered item to Prof. Subrata Chatterjee, Head, Dr. M. N. Dastur School of Materials Science and Engineering, on or before **10 working days from the date of publication** between **10.30 a.m. to 5.00 p.m.** except Saturday, Sunday and other public holidays.
2. The tender should reach the office address (mentioned below) **within 10 working days from the day of publication**. Quotations received later will not be entertained under any circumstances.
3. The tender will be opened on the **next working day of due date at 02.00 p.m.** and the place of opening of bid is Director's Office of Dr. M. N. Dastur School of Materials Science and Engineering, Indian Institute of Engineering Science and Technology (IEST), Shibpur, Howrah-711103.
4. Bidders are to submit the quotations in Sealed Cover to the School of Materials Science and Engineering at the following address:

**PROFESSOR SUBRATA CHATTERJEE  
PROFESSOR & HEAD  
Dr. M. N. DASTUR SCHOOL OF MATERIALS SCIENCE AND  
ENGINEERING  
INDIAN INSTITUTE OF ENGINEERING SCIENCE AND  
TECHNOLOGY (IEST)-SHIBPUR  
P.O.- BOTANIC GARDEN, HOWRAH- 711 103, WB, INDIA**

5. TECHNO-COMMERCIAL BID - giving Detailed Specifications, International Standards (BIS/INTERNATIONAL), Catalogues, List of users & Technical Details / Operating Parameters, Pre-Installation Requirements, payment terms, warranty, etc. along with PRICE BID for- (a) Tendered item. (b) Essential Accessories & Spares.

Enquiry Number must be mentioned on cover

6. Bid requirements

- a) Rate to be quoted in INR per unit basis for each item and should be inclusive of all charges, taxes, and other payables, if any.

- b) Bidders are required to submit, along with the quotations, Original Manufacturer's catalogue mentioning Brand and Model No. (if applicable) with dimensions.
- c) The bidder must attach the LIST OF END-USERS for similar item for credentials from Central Government/Central Autonomous Body/Central PSU/State Government or Autonomous/Reputed Private Research Centres (in Nos. and Value). Please attach a list of clients.
- d) The supply of above equipments will be at the school of Dr. M. N. DASTUR SCHOOL OF MATERIALS SCIENCE AND ENGINEERING, INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY (IEST)-SHIBPUR and supply means "Supply, Installation, Commissioning and satisfactory demonstration of the whole equipments". If any charges extra are payable for Installation and Commissioning, the same should be specified in the commercial offer.
- e) The bids submitted by the vendors should be valid for a minimum period of **120 days** from the date of the opening of tender and the prices should be valid till execution of purchase agreement.
- f) All the items to be supplied should be new, of good quality and standard and as per the technical specifications mentioned in technical bid document.
- g) Discount: Any conditional discount will lead to the rejection of your tender.
- h) The vendor will provide operational manuals, documents for peripherals, set of diagnostics to test all the sub-systems etc. along with the systems.
- i) Interlineations, corrections, erasure and / or over writings shall be valid only if signed by the persons or persons signing the bid.
- j) Bidders are required to submit self-attested photocopies of valid Trade-License, Professional tax, VAT-Registration, PAN Card, latest IT-Return Certificates and GST-Registration (whichever applicable).
- k) For the proprietary items, the bidders/manufacturers should submit proper proprietary certificate.

l) Tender Documents/Terms & Conditions in Original duly signed by the Proprietor / Partner/ Director of the Company as a token of acceptance of Terms & Conditions of Tender should be submitted with the tender.

m) Envelope containing bids must bear, on the cover itself, name and full address of the bidder, advertisement number and date.

n) For bids submitted by post or courier, it is bidder's responsibility that bids reach the purchaser's office before the scheduled time of closure of submission of bids. The tenders submitted by telex/telegrams/fax/email will not be considered. No further correspondence will be entertained on this matter

**o) Installation, Warranty & Support**

Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter. The items covered by the schedule of requirement shall carry minimum **three years comprehensive warranty** from the date of acceptance of the equipments by IEST-Shibpur. In case the tenderer provides warranty less than 03 years then he has to give justification for lesser period of warranty. Without justification his tender is liable to be rejected. 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. This includes cost, insurance, freight, custom duty, octroi, local taxes if any should be borne by the beneficiary or his agent. A clear confirmation should be given for this item.

The bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on payment on approved price list basis.

The equipment must be supported by a Service Centre manned by the principal vendor's technical support engineers. The support through this Centre must be available 24 hours in a day,

seven days a week and 365 days a year. Also it should be possible to contact the Principal's vendor support Centre on a toll free number/web/mail.

The vendor will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.

7. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e., which (a) are properly signed; (b) conform to the terms and conditions, and technical specifications. Evaluation of bids shall be made item wise severally. For this purpose, all sub-items and accessories, if any, of an item will be taken together and considered as one item.

8. Delivery All goods to be supplied and/or installed under this contract must be delivered to and installed at the Institute on working days (except Saturday, Sunday and holiday) between 11 a.m. and 4 p.m. The tenderer will be responsible for any breakage, damage or defect in the materials detected subsequently. The supply and installation of the above equipments shall be made by the vendor within **5 weeks** from the date of issue of the purchase order failing which appropriate action will be taken as per university rules.

9. If the supply is not completed within the stipulated period as indicated in the Work Order, a Liquidated Damage @ ½ per cent per week will be imposed subject to maximum of 5% of the value of work order.

10. Bills in triplicate should be presented for payment within **45** days of Supply /Completion of work. **No Advance Payment can be made.** All bills are to be accompanied by Order copies and Challan Receipt. The Order Number is to be noted on both the Challan and the Bill.

11. Customs Duty & Excise Duty

- The University will not issue any C or D form availing of concessional Sales Tax/VAT.
- The University will issue Customs Duty Exemption Certificate for foreign purchase or Excise Duty Exemption Certificate, if required.

**12. Indian Institute of Engineering Science and Technology (IEST), Shibpur, Howrah reserves the right to accept / reject all or any of the tenders without assigning any reason**

**whatsoever. Indian Institute of Engineering Science and Technology would not be under any obligation to give any clarifications to those vendors whose tenders have been rejected. The decision of Director, IEST Shibpur is final and binding in case of any dispute arising out of this contract between both the parties. IEST will not provide any accommodation/transportation for the engineers/ representatives for attending installation, commissioning and demonstration work. It is the absolute responsibility of the Principal Supplier/Indian Agent to make his own arrangements.**

We accept the above terms and conditions.

Dated:

Signature of Bidders/Suppliers

With date & Seal

## **SECTION II: TECHNICAL SPECIFICATIONS**

### **ITEM: Oxygen Analyzer System:**

Oxygen analyzer system, which directly displays percentage oxygen on a liquid crystal display. The mini-oxymeter is equipped with an electrochemical cell as the detector, which is also known as a sensor. The instrument samples gas by diffusion and powered by a 9V battery that has a 'low batt' sign indication. The life of the battery is several hours of continuous use. This manual lays out the setting up and operation of the equipment.

### **Item Specifications:**

- Display : 0.1% resolution 12 mm high LCD.
- Range : 0-100% oxygen.
- Accuracy :  $\pm 2\%$  of reading at constant temperature.
- Response : T 95% in 10 seconds.
- Sensor : electrochemical type working.
- Working temp :  $5^{\circ} - 45^{\circ} \text{C}$
- Calibration : with air or calibration gas.
- Size : 130 mm x 45 mm x 70 mm O/A.
- Weight : 300 GMS net.
- "Low Batt" Indication : Indication set at 7.2 volts.
- Cell holder : mounted in instrument.
- Gas education : Diffusion.