

**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE  
2A & B, RAJA S.C.MULLICK ROAD  
JADAVPUR, KOLKATA -700032**

GLOBAL TENDER NOTICE NO. IACS/SG/IC/JCBF/13/A-13 dated 22.02.2013

**Sealed tenders in two bids system (Technical Bid & Financial Bid) is invited from bonafide, resourceful and eligible manufacturers/exclusive distributors for "Inert Atmosphere Glove Box with Regeneration System" \_**

**Part - I** (Technical Bid) of the tender should contain technical details and commercial terms and conditions and **Part-II** (Price Bid) should indicate group-wise price as mentioned in the Technical Bid where applicable. The Technical Bid and Price bid are to be submitted in two separately sealed envelopes distinctly marked accordingly and both to be put inside another envelope, which should be sealed and superscribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads.

Complete tenders bids should reach the office of Professor Sreebrata Goswami, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, 2A & B Raja S. C. Mullick Road, Jadavpur, Kolkata-700032 on or before scheduled date & time specified below.

<b>Tender Notice No.</b>	IACS/SG/IC/JCBF/13/A-13 dated 22.02.2013
Last date and time of submitting tender	15th March, 2013 at 1.00 P.M.
Pre-bid meeting	To discuss technical specification on 4 <sup>th</sup> March, 2013 at 3.00 P.M.
Date and time of opening tender	15 <sup>th</sup> March, 2013 at 3.00 P.M.
Place of opening tender	J.C. Bose Room IACS, Kolkata
Contact	e-mail: <a href="mailto:icsg@iacs.res.in">icsg@iacs.res.in</a> Tel. +01-33-2473 4971 (ext. 1356)

The technical bids will be opened first to evaluate the technical specifications of the equipment thereafter, the **Price bids** of only technically qualified bidders will be opened.

**Opening of price-bid:** The Price Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be rejected.

Please note that IACS will not provide any accommodation or expenses to any of the bidders for attending opening of tender and price bid.

#### 1. TECHNICAL BID:

The Technical Bid should contain technical specifications and kept in a separate envelope duly super scribed as "**Technical Bid**" on the outer side of the envelope as detailed above.

The Technical Specifications acceptable for the "**Inert Atmosphere Glove Box with Regeneration System**" are as follows:

**TECHNICAL:****Glove Box:**

Stainless steel box with clear and large viewing area, safe window panel.  
Coating for chemical and scratch resistance. Inner Box Dimensions: 910-930mm x 1190-1210mm x 775-800mm [H x L x D]

Two teflon O ring sealed glove ports with two butyl gloves and glove port cover, Dia >200mm

Automatic box pressure controller, range: -15mbar to +15mbar, Able to set working lower and upper range as well.

Cylindrical antechamber of stainless steel material with anodized aluminium door and easy to operate: minimum 385mm diameter, length minimum 600mm((inside dimensions). door lock, stainless steel sliding tray, Pressure gauge, Vacuum /refill process- via hand valves

Dust filter, one gas inlet and one gas outlet filter

Stainless Steel Shelves for storage

Mounted fluorescent light with reflector

Feed throughs for electric supply (230 V) and high-vacuum

Mini- Antechamber, minimum dimension: 150 (D) x 400 (L) mm, Hinged doors, with sliding tray

Solid state oxygen sensor, 0- 1000 vpm, automated

Solid state moisture sensor, 0-500 vpm, automated

Automated regeneration.

Foot pedal for box pressure controller

User friendly automated control unit (touch screen) for operation of all components.

**Gas Purification:**

Vacuum tight, Oil free, capacity >75m<sup>3</sup>/h at  $\Delta P$  around 60mbar with low leak rate.

Closed loop gas circulation.

Single filter regenerable gas purifier

PLC controlled automated regeneration

Removal capacity: Oxygen: 30 litres or higher; Moisture: 1.0 kg or higher

Achievable purity: < 1 ppm H<sub>2</sub>O and < 1 ppm O<sub>2</sub>.

Integrated heat exchanger with blower

Rotary vane vacuum pump with gas ballast control

Oxygen and moisture sensor

**Refrigerator** with lowest attainable temperature of at least -30°C and suitable cryostat to connect to the heat exchange. Double side 4 pin feed through.

**User List:** The supplier should provide a list of current users (with contact no, Email address etc) for the quoted item in India.

**Service facility:** Trained technicians should install the instrument and ensure it is operating correctly and within specifications. User training at site should also be provided. Supplier should mention their details of service setup that are responsible for after sales support.

**PRICE BID:**

The financial bid indicating (item-wise) price for the item(s) mentioned in the technical bid should be kept in a separate sealed envelope duly super scribed as "PRICE BID" on the outer cover of the envelope as already detailed above. The price bids of only technically qualified bidders will be opened and they will be intimated the date and time of opening at their email id-s. Rest of the bids will stand rejected.

**PRICE:** Price to be opened both on FOB/CIF basis. Name of the particular port from where our authorized forwarder will lift the consignment must be mentioned clearly with FOB price.

**BID SECURITY:**

1. The financial bid should be super scribed as **"PRICE BID'** on the outer cover of the envelope
2. **Bid Security (EMD):** An Account Payee Demand Draft of Rs.44,000/- in the name of **"Indian Association for the Cultivation of Science"** is to be furnished by the bidders, as Bid Security money or Earnest Money Deposit (EMD).
3. The Demand Draft for the Bid-Security money should have at least 45(forty five) days validity period after the opening of the Bids.
4. In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders.

#### **PERFORMANCE SECURITY:**

An Account Payee Demand Draft of an amount of **10% of the order value** in the name of **"Indian Association for the Cultivation of Science"** is to be furnished by the successful bidder as Performance security. Performance security money should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. Bid security money will be refunded to successful bidder on receipt of the Performance security money.

#### **GENERAL INSTRUCTIONS:**

1. **Incomplete & conditional tenders and tenders received after the date will be summarily rejected without assigning any reasons thereof. \_"Inert Atmosphere Glove Box with Regeneration System" \_should clearly be written on the envelope.**

2. At any time prior to the bid due date, IACS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder during pre-bid meeting, modify the bidding documents. The amendment(s) will be notified on the Institute website. Prospective bidders are advised to occasionally visit the website ([www.iacs.res.in/tender](http://www.iacs.res.in/tender)) for any amendment.

3. **Payment:** Against letter of credit.

4. **Warranty:** Minimum 3 years.

5. **Installation/Demonstration/Application Training at site:** Free of cost by the supplier.

6. **Service facility:** Supplier should mention their details of service setup and Manpower in Kolkata who are responsible for after sales support. Response time should be within 24 hours.

7. **Validity of tender:** Tender submitted shall remain valid at least for three months from the date of opening the tender. Validity beyond four months from the date of opening of the tender three months from the date of opening of the tender shall be by mutual consent.

8. The tender should accompany a compliance chart.

9. The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate.

10. The model number, make, and a printed literature of the product shall submit positively.

11. Proposed delivery schedule should be mentioned clearly.

12. Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organization.

13. Authorized Dealership Certificate is must in case of principal manufacturing company is not quoting directly.

14. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.

15. In the event of date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of technical bids will be the following working day at the appointed time.

16. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.

17. For any clarification regarding technical specifications etc. please send your queries to "Prof. Sreebrata Goswami" [icsg@iacs.res.in](mailto:icsg@iacs.res.in).

18. The Institute reserves the right to reject any or all of the tenders received without assigning any reason thereof.

**Registrar**