

**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & 2B Raja S.C.Mullick Road Jadavpur, Kolkata 700032**

Tender Notice No.: IACS/PC/BBD/WELLCOME-DBT/14/38 dated: 4.09.2014

Sub: Specification for CO2 Incubator with accessories

Sealed tender in two bids system (**Technical Bid & Price bid**) is invited from bonafide, resourceful and eligible manufacturers/exclusive distributors of “**Specifications for CO2 Incubator with accessories**”.

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 super scribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads.

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

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| Tender Notice Number | IACS/PC/BBD/WELLCOME-DBT/14/38 dated: 4.09.14 |
| Last date and time of submitting tender | 29th September, 2014 (1.00 PM) |
| Pre bid meeting to discuss technical specifications | 17th, September, 2014 at JC Bose meeting hall |
| Date and time of opening tender | 29th September, 2014 at 3:00 PM |
| Place of Opening Tender | at JC Bose Meeting Room |
| Contact | pcbbd@iacs.res.in |

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. The date of opening the Price Bids will be intimated to the short-listed bidders at their contact addresses. The rest of the bids will be rejected.

A). TECHNICAL BID:

Specifications for CO2 Incubator .

1. One chamber CO2 Incubator with work chamber volume approx. 150 liters.
2. Air jacketed heating system (not direct heating or water jacketed system) with temp. Control by microprocessor.
3. Temp. Range from ambient +3 ° C to + 55 ° C
4. Temp. Deviation with respect to time is $\pm 0.1K$.
5. CO2 control by Microprocessor based & by heat resistant Thermal Conductivity detector (no IR sensor) to withstand heat of decontamination with auto start facility.
6. CO2 range: 0 to 20% or better and CO2 accuracy $\pm 0.1\%$ by volume.
7. System should have Interactive control with touch screen for rapid access of important information for each critical parameter in the Incubator.
8. Fast Recovery time for Temp.,CO2 and Humidity should be available for good culture growth. Temp. recovery time at 37°C : less than 10 min. CO2 recovery time for 5% CO2 : less than 5 min. Humidity recovery at 95% rH (Humidity loss during door opening 30 seconds) : not more than 20 minutes.
9. System should have built-in automatic decontamination facility to remove bacteria, fungi ,spores ,mycoplasma etc. without removing sensor , fan or any other fitting. The system should employ automatic decontamination routine at moist heat of 90 ° C or dry heat of 180 deg C. No UV decontamination inside the chamber.
10. Validation certificate of the decontamination routine from any accredited agency such as FDA, CAMR etc should be enclosed.
11. 3 nos. stainless steel perforated shelves should be supplied.
12. It should be supplied with access port to allow any cable ,plug or tubing to be easily inserted into or out of the chamber.
- 13 Interior chamber should be made of stainless steel with electropolish finish to have highest quality of inner surface with rounded corners on all sides for easy cleaning. The shelves and fan impeller also should be made of stainless steel and should not have nuts or bolts for shelf supports to reduce the scope of growth of contamination. No plastic should be inside to avoid VOC.
14. The system should be without water tray to reduce humidity recovery time to avoid drying out of cells.
15. Built-in audible and visual water level alarm should be available when the water reservoir needs to be refilled to ensure a constant high level of humidity and to prevent cultures from drying out.
16. Independent electronic over temp. protection with separate sensor should be available for sample protection.
17. The system should have large digital display for both temp. & CO2 simultaneously.
- 18 System should have one main door and one glass doors .

19. Suitable for 230V, single phase 50Hz operation.
20. 1 KVA servo voltage stabilizer with high voltage low voltage cut off circuit, auto reset with delay timer and spike eliminator etc. &
- 21 Double stage CO2 pressure regulator with stainless steel diaphragm and 1 no. 30 Kg CO2 gas cylinder required for operation of CO2 Incubator should also be quoted.
22. 6x50 ml highconic rotor with 6 nos. 15 ml conical tube adapter should be provided.
23. Warranty: 2 years warranty.

Important notes:

- É Equipment should be offered with 24 months warranty.
- É Bidder providing misleading or wrong information will be disqualified
- É All technical claims of the Bidder should be supported by product catalogue, public website of the manufacture.

B). PRICE BID:

The financial bid should be super scribed as "Price Bid" on the outer cover of the envelope.

1. Price Bid: The price bid indicating (item-wise) price for the item(s) mentioned in the technical bid should be kept in a separate sealed envelope duly superscribed 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 of price bids at their email id-(s). Rest of the bids will stand rejected.
2. Price: Price to be quoted both on FOB/CIF basis for foreign currency or in Indian currency. Name of the particular port from where our authorized forwarder will lift the consignment must be mentioned clearly with FOB price.
3. Bid Security (EMD): An Account Payee Demand Draft of Rs. 15,000/- (Rupees fifteen thousand only) 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).
4. The Demand Draft for the Bid-Security money should have at least 45 (forty five) days validity period after the opening of the Bids.
5. In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders.
6. 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.

(C) General Instructions:

1. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof. **“Specification for Specifications for CO2 Incubator with accessories”** 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) for any amendment.
3. Payment: 100 % through wire transfer after successful installation subject to submission of performance guarantee.
4. Warranty: Equipment should be offered with 24 months warranty additional 2 years on compressor.
5. Installation/Demonstration /Application Training at site: Free of cost by the supplier
6. User list: The supplier should provide a list of current users (with contact no, Email address etc) for the quoted item in India.
7. 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.
8. The tender submitted shall remain valid at least for three months from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent
9. The tender should accompany a compliance chart. A technical compliance chart should also be provided following the given format:

| Serial Number | Tender Specification | Specification of your offered instrument | Extent of compliance |
|---------------|----------------------|--|----------------------|
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10. The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate.
11. The model number, make, and a printed literature of the product shall be submitted positively.
12. Proposed delivery schedule should be mentioned clearly.
13. Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organization.
14. Authorized Dealership Certificate is must in case of principal manufacturing company is not quoting directly.
15. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
16. Incomplete tenders will be summarily rejected.

17. For any clarification regarding technical specifications, etc. please send your queries to "Dr. Benu Brata Das: pcbbd@iacs.res.inö

18. 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.

19. Acceptance of Tender: IACS authority does not bind itself to accept the lowest tender and reserves the right to reject any or all the tenders received without assigning any reason thereof.

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

REGISTRAR