

**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/14/37 dated: 4.09.2014**

**Sub: Specifications for Biological Safety Cabinet with accessories**

Sealed tender in two bids system (**Technical Bid & Price bid**) is invited from bonafide, resourceful and eligible manufacturers/exclusive distributors of “**Specifications of Biological Safety Cabinet 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.

<b>Tender Notice Number</b>	<b>IACS/PC/BBD/WELLCOME-DBT/14/37 dated: 4.09.14</b>
<b>Last date and time of submitting tender</b>	<b>29<sup>th</sup> September, 2014 (1.00 PM)</b>
<b>Pre bid meeting to discuss technical specifications</b>	<b>17<sup>th</sup>, September, 2014 at JC Bose meeting hall</b>
<b>Date and time of opening tender</b>	<b>29<sup>th</sup> September, 2014 at 3:00 PM</b>
<b>Place of Opening Tender</b>	<b>at JC Bose Meeting Room</b>
<b>Contact</b>	<b>pcbbsd@iacs.res.in</b>

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 of Biological Safety Cabinet**

1. The biological safety cabinet should be of Class II designed in compliance with International standards with NSF/ANSI 49, ULcertified.
2. It should be certified from any internationally reputed independent accredited agency such as EN 12469, TUV Nord (Germany), HPA (UK) etc for complete safety.
3. It should have Personal protection, Sample protection, Cross contamination protection and Environmental protection.
4. It must utilize DC motor technology to ensure lower levels of energy consumption and heat emission. AC motor technologies are not acceptable.
5. It should have dual blower for independent control for inflow& down flow velocities.
6. The motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments.
7. The interior dimensions: (wxhxd) 1200x780x 465 mm.
8. Air flow direction: Vertical Laminar Flow & Air intake across front opening.
9. Filter : High performance particle air filter (HEPA), filtering efficiency 99.995% at 0.3 micron particle size.
10. Pressure sensor should be in-built for exact airflow measurement for balancing Air flow.
11. It should have Independent supply and exhaust blowers automate balancing of down flow and inflow/exhaust velocity to ensure continuous safe working conditions.
12. Control Panel and Performance monitor displays inflow / down flow velocities, hours of use etc. must be there to verify proper cabinet operation.
13. Approximately 30% of the air volume is exhausted as sterile air back into the environment and approximately 70% of the air is recirculating inside the work area.
14. The UV light must be quoted which should be programmable to shut off automatically. The settings must allow the user to program the timer from 30 min to 24 hours in 30 min increments,.
15. The front window sash must be angled 10° to reduce glare for users who wear glasses and allow for more comfortable posture for users.
16. The cabinet noise level must be less than:55 dB(A) as measured in a sound proof room to promote more comfortable and safer working habits of the user.
17. The microprocessor controller must be located on a slanted front panel so it is easy to see from a seated working position in front of the cabinet.

18. The microprocessor must display the inflow and downflow air velocities in real-time on an LED display to ensure the user knows whether or not the cabinet is working under safe operating conditions.
19. The microprocessor must display the number of hours of use on the HEPA filters to ensure user knows when to replace the HEPA filters to achieve safe working conditions.
20. The interior of the front window must be accessible for cleaning without requiring the user to manually hold the window.
21. The drain pan beneath the work surface must be negatively pressurized to ensure that any contaminants are quickly trapped and pushed into the HEPA filters.
22. Arm rest should be provided for operator's comfort without disturbing the Air Flow.
23. The Work Area should be illuminated with switchable fluorescent lamp of lighting power greater than 1200 lx.
24. In built Access ports (23 mm) 4 (2 on each side) should be available.
25. It has 4 pieces stainless steel work tray for easy autoclave able and decontamination.
26. It should be quoted with Floor stand.
27. Service tap for combustible gas with safety valve, vacuum valve should be quoted optionally.
28. Warranty for 2 years.
29. Electrical supply available: 230V A.C, single phase, 50 Hz.
30. Additional 1 no. Spare UV lamp should be quoted.
31. Essential Accessory: Service tap for combustible gas, non-combustible gas, solenoid valve
32. For combustible gas & vacuum valve should be provided.
33. A dehumidifier from reputed company: Humidity Control Range: 40 to 80 percent, auto defrost and continuous drain for added convenience; Wheel on the bottom to move product easily and safety agency approved or better should be provided.

**Important notes:**

- É Equipment should be offered with 24 months warranty from the date of installation.
- 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. **Specifications of Biological Safety Cabinet 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](http://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

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