



**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE**

**2A & 2B Raja S. C. Mullick Road, Jadavpur, Kolkata – 700 032, India.  
Tel: 91-33-2473 4971, Fax: +91- 33-2473 2805**

**NOTICE INVITING TENDER NO. IACS/CSS/SM/15-16/27**

**DATED 23.12.2015**

Sealed tender in two bids system (technical bid and price bid) is invited from bonafied resourceful and eligible manufacturer/exclusive distributor/vendors for the high speed centrifuge.

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

Completed tender bids should reach the office of **Polymer Science Unit, Indian Association for the Cultivation of Science (IACS), 2A and 2B Raja S. C. Mullick Road, Jadavpur, Kolkata-700032** on and before the schedule date and time specified below. The **Technical Bid** will be opened first to judge/evaluate the technical specifications of the said instrument thereafter the **price bid** of only technically qualified tenders will be opened

<b>Notice Inviting Tender No.</b>	IACS/CSS/SM/15-16/27 Dated 23.12.2015.
<b>Last date and time of submitting tender</b>	25/01/2015 at 2.00 pm
<b>Pre-bid meeting to be held on</b>	11/01/2016 at 2.00 pm
<b>Date and time of opening tender</b>	25/01/2016 at 3.00 pm
<b>Place of opening tender</b>	Room no.: 156B, PSU, IACS
<b>Contact</b>	E-mail: psusm2@iacs.res.in  Phone: 2473-4971 Ext. 1564



## ***TECHNICAL BID (PART-I)***

The technical bid should contain technical specifications and should be kept in a separate sealed envelope duly superscribed as **TECHNICAL BID** on the outer cover of the envelope as already detailed above.

### **Bench top High Speed Refrigerator Centrifuge.** (Technical specifications)

#### ***I. General specifications***

A compact centrifuge with high quality display board to control temperature range, speed, acceleration / deceleration speed, timer, safety door with interlock, protection for over temperature/imbalance covering complete safety issues, temperature controlled chamber, Fixed angled rotors and a warranty period of 1 year. Several demonstrations and training should be given during the installation of the equipment.

- System should have an RPM (rotation per minute) of ~30,000 and G force of ~64,400.
- Accel/decel rate 10/10
- Drive brushless induction Motor
- Temp set range: sub-zero to +40 degree
- Temperature control: +/-2°C of set temperature
- Run Time: more than five hours
- Electrical power: 220-240V, 50/60Hz.
- Power backup : Online UPS for emergency power backup
- Rotor should have facility for working with application such as Isolation/purification.
- System should have facility to upgrade to biosafety norms) Biocertified swinging and fixed angle rotor).
- Refrigeration System : CFC-Free refrigeration.
- System should have automatic door interlock, imbalance detector, over speed detection ; over temperature detection
- Steel barrier ring around chamber
- User-friendly, large LCD screen, Large digital readouts make operation simpler.
- Display: View set and actual run conditions simultaneously
- Equipped with Friction Reduction System (FRS) that allows quicker, quieter, and cooler runs
- User-defined programs: more than 500 along with standard program.
- Warranty : 1 years



- After sale: 5 years free service after the warranty period.

### **Required Rotors**

#### **1. Fixed angle rotor (quantity 1)**

**Volume** of sample used: 40-50 ml, Max RPM > 25000 or Max g: >61,000xg.

**Essential adapters** (a) 1.5ml and (b) 0.5ml tube volume .

#### **2. Fixed-Angle Rotor (quantity = 1):**

**Volume of sample used:** 300-400ml, Max RPM > 25000 or Max g: >61,000xg.,

**Essential adapters** (a) 30ml and (b) 5ml tube volume .

### **Important notes:**

- i) Bidder providing misleading or wrong information will be disqualified
- ii) All technical claims of the Bidder should be supported by product catalogue, public website of the manufacture.

### ***PRICE BID (PART-II)***

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

1. **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 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 and 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 for **Rs. 50,000/-** (Rupees forty thousand only ) drawn in favour of "*Indian Association for the Cultivation of Science*" payable at Kolkata is to be furnished by the bidders, as Bid Security money or Earnest Money Deposit (EMD) with the tender.

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. Bid security money to the successful bidder will be refunded on receipt of the Performance security money.

6. **Performance Security:** An Account Payee Demand Draft for an amount of 10% of the order value drawn in favour of "*Indian Association for the Cultivation of Science*" payable at Kolkata is to be furnished by the successful bidder as Performance security. Performance



security money would be released by IACS after a period of 60 days from 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 (PART-III)

1. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
2. **öBench top High Speed Refrigerator Centrifuge Systemö** should clearly be written on the envelope.
3. 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 only. Prospective bidders are advised to occasionally visit the website ([www.iacs.res.in/tender](http://www.iacs.res.in/tender)) for any amendment.
4. **Payment Terms:** 100 % through letter of Credit; 90% to be released on shipment and balance 10% against successful installation & commissioning subject to submission of performance guarantee.
5. **Warranty:** Equipment should be offered with **1 year** warranty followed by **5 years** Annual Maintenance Contract (AMC) with free of cost as mentioned above.
6. **Installation/Demonstration /Application Training at site:** Free of cost by the supplier.
7. **User List:** The supplier should provide a list of current users (with contact no, Email address etc) for the quoted item in India. Preference will be give to suppliers with many installations at reputed research/academic institute in the eastern India, particularly in Kolkata, India.
8. **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.
9. 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.
10. The tender should accompany **a compliance chart**. A technical compliance chart should also be provided in the following format: *Serial Number, Tender Specification, Specification of your offered instrument and Extent of compliance* .
11. The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate. The taxes, etc. should be shown separately in the Price Bid.
12. The model number, make, and a printed literature of the product shall be submitted positively.
13. Proposed delivery schedule should be mentioned clearly.
14. Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organizations.



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15. Authorized Dealership Certificate is must in case of principal manufacturing company is not quoting directly.
16. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
17. Incomplete tenders will be summarily rejected.
18. For any clarification regarding technical specifications, etc. please send your queries to "Dr. Sudip Malik: [psusm2@iacs.res.in](mailto:psusm2@iacs.res.in)
19. 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.
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.
21. 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.