

**GLOBAL Tender Notification for the procurement of "High Speed Refrigerated Centrifuge" at the Biochemistry Department, Indian Institute of Science, Bangalore**

**(Last date of submission of tenders: 12<sup>th</sup> January, 2024)**

(GTE Approval No. IISc-GTE-2023-Copy Enclosed)

(F.No. 5 I -03/2023-TS.VII)

**(TENDER FROM GLOBAL VENDORS)**

Dear Sir/Madam,

Date: 20<sup>th</sup> Dec. 2023

**Sub: High Speed Refrigerated Centrifuge**

This is a Global tender notification meant for the purchase of a " High Speed Refrigerated Centrifuge" towards the purpose of high speed cell and protein pelleting at centrifugal speed and different volumes. Your quotation should clearly indicate the terms and conditions of the quotation, delivery schedule, entry tax, payment terms, warranty coverage etc. The quotation should be submitted in two parts: Part I (Technical Bid) and Part II ( Commercial Bid) and both should be submitted in separate sealed envelopes. The Technical bid should be exactly the same as the Commercial bid except that prices must not be shown in the technical bid. The Technical bid should have an item-wise compliance report of all specifications indicated below. Prices quoted for equipment should be in any currency and inclusive of all taxes as well as charges FOB, CIF, CIP, FCA, DAP, Letter of credit and customs duty up to Bangalore. The last day for submitting the bid is **12<sup>th</sup> Jan. 2024 from the date of tender notification**. The offer should be valid for a period of at least 90 days from the last date of submission of quotes.

The bid should address the following technical specifications for the : High Speed Refrigerated Centrifuge, accessories (rotors, adaptors, etc.), 10kVa stabilizer and controlling software (if applicable):

The High speed centrifuge should run at maximum speed of 22,000 rpm or more

The High speed centrifuge should run at maximum 55,200 x g or more

The High speed centrifuge should have a speed rotation tolerance of  $\pm 100$  rpm of set speed

The High speed centrifuge should have maximum nominal capacity of 6 litre

The High speed centrifuge should have the temperature set range from -20 °C to +40 °C with 1 °C increments and temperature Accuracy of  $\pm 3$  °C

The High speed centrifuge should have a Timer: 1 sec to 99 mins and 59 sec (with 1 min increments) with HOLD function

The High speed centrifuge should have an Induction motor as a drive System.

The High speed centrifuge should have dual over speed detection

The High speed centrifuge should have non-contact imbalance sensor to detect any imbalance in the system to activate the imbalance alarm and stops rotation immediately when detected

The High speed centrifuge should have features like programmed start/ stop function, Large 5.7 inch colour LCD touch screen, RPM/ RCF mode, Run Scheduling and USB data communications

The High speed centrifuge should have a refrigerator with inverter-controlled hermetic rotary

compressor with R410A refrigerant

The High speed centrifuge should have an in-built condensate drain to prevent water accumulation

The High speed centrifuge should have automatic standby function for energy saving

The High speed centrifuge should have automatic rotor and rotor cover detection for user and sample safety

The High speed centrifuge should have Acceleration/ Deceleration Profile: 9/9 or more

The High speed centrifuge should have programmability of registering up to 30 programs with step run in the system.

The High speed centrifuge should have option for setting User administration access level to register up to 40 Users and user lockout function

The High speed centrifuge should be able to accept Fixed Angle and Swinging Bucket Rotors.

The High speed centrifuge should have option to browse available rotors, their specifications and accessories

The High speed centrifuge should support automatic rotor locking by self-locking rotors system, without any need for a tool or push the button to lock/unlock the rotors.

The High speed centrifuge should have USB ports to support options for data communication and operating log management

The High speed centrifuge should have Power: 210-240 VAC, 50/60 Hz, 30 A.

The High speed centrifuge should have less noise level of 64 dB(A) or less for stress free work environment

The High speed centrifuge should have small dimension of 700 (W) x 760 (D) x 915 (H) to occupy only less lab space / floor area

The High speed centrifuge should have Safety and Standards Certification: CE

The High speed centrifuge should have Product Safety: EN61010-1 and EN 61010-2-020

Electromagnetic Compatibility: EN 61326-1

System should have emergency lid release preferably in front side (in case of power failure)

Features in the quotations should be substantiated with proper company catalogue.

Optional rotor should be quoted along with main offer Fixed angle rotor for 1.5litre x 4

Suitable 10kVa stabilizer should be quoted.

#### Rotor & Accessories

Fixed angle Rotor for 50ml tubes

Maximum Rotor Capacity: 50 mL x 8

Maximum Rotor Speed: 20,000 rpm

Maximum Rotor g-Force: 48,000 x g

K Factor – 424

Weight – 6.8 Kg

Rotor angle - 34°

Fixed angle Rotor for 250ml tubes

Maximum Rotor Capacity: 250 mL x 4

Maximum Rotor Speed: 14,000 rpm

Maximum Rotor g-Force: 30,240 x g

K Factor – 823

Weight – 16.8 Kg

Rotor angle - 35°

Fixed Angle Rotor for 30ml tubes

Maximum Rotor Capacity: 30 mL x 6

Maximum Rotor Speed: 21,000 rpm

Maximum Rotor g-Force: 50,000 x g

K Factor – 487

Weight – 5.4 Kg

Rotor angle - 40°

Rotor can be sterilized by autoclave at 121°C for 20 minutes.

System should be quoted with 2 years of comprehensive warranty followed by 3 years of annual maintenance contract.

Terms and Conditions:

1. The quotations should be submitted in two bids system; i.e., Technical bid, and Commercial bid.

The technical bid must include all details of technical specifications of the instrument along with commercial terms and conditions masking only the price component. Bill of materials, brochures, technical datasheets, and any other document may be enclosed to help the evaluation of the technical bid. Please also include warranty terms and any other information on upgradation terms in the technical bid.

The commercial bid must include the price of the instrument in Indian currency indicating break up of:

For goods and commercial terms.

Installation, commissioning and training charges, including any incidental expenses, if any  
Agency commission charges, if any

Provide certificates for country origin of manufacturing for each line item

Price of every line item in the commercial bid should be quoted along with the total quoted price for the instrument to be operational (fixed and ready to use) in our facility

Both the Technical and Commercial bid should be put in separate sealed envelopes and put together in another cover stating “High Speed Refrigerated Centrifuge” and should reach us on or before 17:00 hours 12<sup>th</sup> Jan. 2024.

2. The vendor should have a good track record of having previously supplied centrifuges in IISC, Bangalore (please furnish details).

3. The vendor should have qualified technical service personnel based in Bangalore capable of servicing the equipment.

4. The lead time for the delivery of the equipment should not be more than ten months from the date of receipt of purchase order or nine to ten months from the date of receipt of Letter of Credit details (whichever is earlier).

6. The validity period of the quotation should be 120 days.

7. Import code of the items should be indicated.

8. If the goods are found to be defective, they have to be replaced or rectified at the cost of the supplier within 30 days from the date of receipt of written communication from us. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

9. The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time period to award of construct without thereby incurring any liability of the affected bidder or bidders.

10. All bidders are required to submit proper catalogue, technical literature. COPY paste of technical specification on catalogue will be rejected.

11. Vendors should be registered with PF, ESI, GST, MSME and other govt establishment as per Govt rules and regulation and Industrial workplace safety regulation. Copy of the same should be attached with tender.

12. The equipment should be directly shipped to IISc, Bangalore from the origin of manufacture. Important:

Quote should come only from Global Original Equipment Manufacturer (OEM) or their Indian authorized distributor.

The sealed tender documents should be addressed to The Chair, Department of Biochemistry, Indian Institute of Science, Bangalore 560 012. Last date for receiving queries is 12<sup>th</sup> Jan. 2024, before 5.00 p.m IST from the date of tender notification.

Sincerely

The Chair  
Department of Biochemistry,  
Indian Institute of Science  
Bangalore - 560 012.