

**Tender Notification for supply and installation of "Floor model Ultracentrifuge" at the Indian Institute of Science, Bangalore.**

**Global Tender**

Tender No: DBG/FST/IISc/09/2025/A

Department of Developmental Biology and Genetics (DBG)

Division of Biological Sciences

Indian Institute of Science (IISc)

Bangalore – 560012

September 2025

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## **SECTION 1 – BID SCHEDULE**

Tender No: DBG/FST/IISc/09/2025/A

Tender Date: 12.09.2025

Item Description: Supply and Installation of Floor model Ultra centrifuge

Tender Type: Two Bid System: Technical Bid (Part-A); Commercial Bid (Part-B)

Place of Submission and tender opening: Department of Developmental Biology and Genetics (DBG)  
Division of Biological Sciences,  
Indian Institute of Science (IISc),  
Bengaluru - 560012

Last Date & Time for submission of tender: 10.10.2025

Tender Fees: NIL

Earnest Money Deposit: NIL

Any Clarification: Chair  
Department of Developmental Biology and Genetics (DBG)  
Division of Biological Sciences,  
Indian Institute of Science (IISc),  
Bengaluru -560012  
Contact No: 080 2293 2548/2659  
Email: chair.dbg@iisc.ac.in

## **SECTION 2 – ELIGIBILITY CRITERIA**

### **Prequalification criteria:**

1. Bidder should have well established own establishment (Enclose Company Registration Certificate)
2. The vendor should have a good track record of having previously supplied similar equipment's in India (Self-declaration – Annexure 3)
3. The vendor should have qualified technical service personnel for the instrument based in Bengaluru.
4. Bidder should have executed at least one order of similar instrument in India in the last 2 years. (Provide copy of Purchase orders – Annexure 2)
5. The payment will be through a Letter of Credit
6. The Bidder should not be currently blacklisted by any institution, bank in India or abroad (Self Declaration- Annexure-4)
7. The Bidder should accept tender terms & conditions (Annexure-5)
8. Only the Original Equipment Manufacturer or their authorized representatives shall participate in the bid.
9. The order will be placed only on the bidder who participated in the bid

## **SECTION 3 – TERMS AND CONDITIONS**

### **Submission of Tender:**

1. All documentations in the tender should be in English
2. Tender should be submitted in two envelopes (two bid system)

Technical Bid (Part-A) – Technical bid consisting of all technical details along with commercial terms and conditions; and

Commercial Bid (Part-B) – Indicating item-wise price for the items mentioned in the technical bid

Superscripting on both the envelopes the tender number and the due date and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscripted with the Tender No & Due Date.

3. The SEALED COVER superscripting Tender number / due date & should reach the undersigned on or before due date mentioned in the tender notice. Incase due date happens to be holiday the tender will be accepted and opened on the next working day.

If the quotation cover is not sealed, it will be rejected.

4. All communications are to be addressed to the undersigned only
5. Excise Duty (ED)/ GST/ other taxes, levies, like Service Tax (ST), Education cess, etc., are to be indicated separately. BIDDER should mention Central and State GST Registration and PAN in the tender.
6. If Price is not quoted in Commercial Bid as provided in Tender document, then the bid is liable to be rejected after forfeiting Earnest Money Deposit.
7. The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of contract, without there by incurring any liability to the effected bidder or bidders or any obligation to inform the affected bidder or bidders.
8. If the foreign bidder is represented, by their Indian representatives, the foreign bidder must submit a certificate about their relationship with the Indian firm.
9. Incomplete bids will be summarily rejected.

### **Cancellation of Tender:**

Notwithstanding anything specified in this tender document, IISc Bangalore, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:

- a. To accept OR reject lowest tender or any other tender or all the tenders.
- b. To accept any tender in full or in part.
- c. To reject the tender offer not confirming the tender terms.

### **Validity Of the Offer:**

120 Days from the date of opening of the technical bid.

**Evaluation of Offer:**

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required criteria as stated in Section 2 of this document shall only be considered for Commercial Bid (Part B) opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
3. Pre-qualification of the bidders shall not imply final acceptance of the Commercial Bid. The agency may be rejected at any point during Technical evaluation or during Commercial evaluation. The decision regarding acceptance and / or rejection of any offer in part or full shall be the sole discretion of IISc, and decision in this regard shall be binding on the bidders.
4. The award of contract will be subject to acceptance of the terms and conditions stated in this tender.
5. Offer which deviates from the vital conditions (as illustrated below) of the tender is liable to be rejected:
  - a. Non-submission of complete offers.
  - b. Receipt of bids after due date and time and or by email / fax (unless specified otherwise).
  - c. Receipt of bids in open conditions.
6. In case any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bangalore shall construe that the BIDDER had accepted the clauses as of the tender and no further claim will be entertained.
7. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
8. Lowest bid will be calculated based on the total price of all items tendered.

**Prerequisite requirements:**

In case of supply of equipment/instrument, you will have to intimate well in advance the prerequisite installation requirement of the goods so that the same is kept ready well in advance for installation.

**Mode of Shipment:**

The consignment must be air-lifted, insured and transported to the installation site by the supplier.

**Customs clearance:**

The Centre will furnish the necessary papers for the import of items into India, necessary custom duty exemption certificate and other supporting documents to facilitate the import of the items.

**Warranty:**

The complete system is to be under warranty period of 3 years including free supply of spare parts and labor from the date of functional installation. If the instrument is found to be defective, it must be replaced or rectified at the cost of the supplier within 10 days of the date of receipt of written communications from us. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended. Bidder will be responsible for the proper functioning of the instruments during the warranty period.

**Extended Warranty:** The manufacturer should provide 2 years of extended warranty (including parts and labor) after completion of provided warranty. (Optional: To be priced separately)

**Purchase Order:**

1. The order will be placed on the bidder whose bid is accepted by IISc based on the terms & conditions mentioned in the tender.
2. The quantity of the items in tender is only indicative. IISc reserves the right to increase /decrease the quantity of the items depending on the requirement.
3. If the quality of the product and service provided is not found satisfactory, IISc reserves the right to cancel or amend the contract.

**Delivery and Installation:**

The system should be delivered, installed at DBG, IISc and demonstrated (without any extra charges) within 45 days from the date of receipt of confirmed purchase order. The supply of the items will be considered as effected only on satisfactory installation and inspection of the system and inspection of all the items and features/capabilities tested by the centre. After successful installation and inspection, the date of taking over the entire system by the centre shall be taken as the start of the warranty period.

**System maintenance:** Bidder should provide free service if there is a routine up gradation or software installation is required. It is also preferable that providing company/bidder should take care of the proper servicing of the instrument on a time-to-time basis.

**Payment Terms:**

The payment for the equipment can be through a Letter of Credit for the 100% of the equipment value.

100 % after satisfactory installation and demonstration.

No advance payment shall be made.

**Statutory Variation:**

Any statutory increase in the taxes and duties after suppliers offer if it takes place within the original contractual delivery date will be to IISc account subject to the claim being supported by documentary evidence. However, if any decrease takes place the advantage will have to be passed on to IISc.

**Disputes and Jurisdiction:**

Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore.

**General:**

1. All amendments, time extension, clarifications etc., within the period of submission of the tender, will be uploaded onto the IISc website only and will not be published in newspapers. Bidder should regularly visit the above website to keep themselves updated. No extension in the bid due date/time shall be considered on account of delay in receipt of any document by mail
2. The bidder may furnish any additional information, which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. It is, however, advised not to furnish superfluous information.
3. The bidder may visit the site before submission of tender, with prior intimation.
4. All imported equipment should be quoted in the currency of the country of origin, and all locally sourced items should be quoted in Indian Rupees.
5. Any information furnished by the bidder found to be incorrect either immediately or later, would render him liable to be debarred from tendering/taking up of work in IISc Bangalore.

Chair,

Department of Developmental Biology and Genetics (DBG)

Division of Biological Sciences

Indian Institute of Science (IISc),

Bengaluru -560012

Contact No: 080 2293 2548/2659

Email: [chair.dbg@iisc.ac.in](mailto:chair.dbg@iisc.ac.in)



## SECTION- 4

### Floor model Ultracentrifuge

#### Technical Specifications

Ultracentrifuge should have following control specifications:

##### **A. Operational Control Requirements:**

Centrifuge should have the following control specifications

1. Maximum Speed: 100,000 rpm or more
2. Maximum RCF (x g): 8,00,000 or more
3. Speed Control accuracy:  $\pm 2$  rpm of set speed
4. Set Temperature range: 0 to 40°C in 1°C increments
5. Temperature Control:  $\pm 0.5^\circ\text{C}$  of set temperature
6. Temperature display: Actual rotor temperature in 0.1°C increments
7. Ambient Operating Range: 10 to 35°C or more
8. Acceleration Profiles: 10 or more
9. Deceleration Profiles: 11 or more
10. Set time upto 99 hrs 59 min or More
11. User- Defined Program feature with at least 100 programs.
12. Sample imbalance protection:  $\pm 5$  ml or 10% whichever is greater
13. Easy-to-use Large 15-inch LCD Screen based touch user-interface.
14. Large Full Color LCD touchscreen display with adjustable positions.
15. Drive: Frequency-controlled, brushless direct-drive induction motor.
16. Instrument should have inbuilt safety features which can sense and calculate the rotor inertia energy and stops the system to prevent rotor failures if rotor runs above its inertia energy.
17. Remote control of instrument from multiple sources including computer, and digital devices.
18. Instrument should have inbuilt technology for high speed with high torque that allow rapid acceleration and deceleration rates without compromising integrity of samples.
19. Adaptors to accommodate small volume samples without sacrificing the maximum g force of the rotor.
20. Instrument should be suitable for use with both Fixed Angle and Swinging bucket rotors, Biosafe and other premium features.
21. Instrument should be able to handle volume starting from small such as 2ml to large volume 1500ml.

24. Quoted model must have minimum 10 installations supplied to various reputed Universities/ institutes/ICAR/CSIR institutes throughout India in past 3 years and the bidders should submit a installations report of the quoted model. Bidder should also provide a user list and at least 5 user satisfactory certificates from recognized research Institute/University in India where instrument quoted model has been extensively used for similar applications.

26. Facility to Seal ultracentrifuge tubes that seals with our fingertip. We should be able to simply insert the tube plug and press into place. No tools, no mechanical devices, or closure verification should be required

## **B. Rotor Specific Requirements:**

### **1. Fixed Angle Rotor 1:**

- i. Rotor Capacity: 8 x 6 ml or more
- ii. Rotor Speed: 100,000 rpm or more
- iii. Rotor g-Force: 800,000 x g or more
- iv. Rotor k-factor: 16 or less
- v. Durable rotors: Titanium

Tubes for the rotors: Essential requirement: Compatibility and durability should also include adapters and accessories.

- vi. Include 50 no's sealable poly propylene tubes of 2ml or more that can be run at 100,000rpm and 800,000g
- vii. Include 50 no's sealable poly propylene tubes of 5.1ml or more that can be run at 100,000rpm and 800,000g

### **2. Fixed Angle Rotor 2:**

- i. Rotor Capacity: 8 x 39 ml or more
- ii. Rotor Speed: 70,000 rpm or more
- iii. Rotor g-Force: 500,000 x g or more
- iv. Rotor k-factor: 44 or less
- v. Durable rotors: Titanium

Tubes for the rotors: Essential requirement: Compatibility and durability with autoclaving and fit to re-use, should also include adapters and accessories.

- vi. Include 50 numbers of sealable poly propylene tubes of 15ml or more that can be run at 70,000rpm and 5,04,000g
- vii. Include 6 numbers of polycarbonate bottles that can run at 60 000rpm and 371 000 g

### **3. Swing Bucket Rotor 1:**

- i. Rotor Capacity: 6 x 38.5 ml or more
- ii. Rotor Speed: 32,000 rpm or more
- iii. Rotor g-Force: 170,000 x g or more
- iv. Rotor k-factor: 206 or less

- v. Material: Titanium

Tubes for the rotors: Essential requirements: Compatibility and durability with autoclaving and fit to re-use should also include adapters and accessories.

- vi. Include 50 numbers of thin wall Polypropylene tubes of 38.5 ml or higher capacity that can be run at 32 000rpm and 1,75 000x g
- vii. Include 100 numbers of Ultra Clear tubes of 38.5 ml or more that can be run at 32,000rpm and 1,75,000 x g
- viii. Include 25 numbers of thick wall polycarbonate tubes of 31.0 ml or more that can be run at 32,000rpm and 1,75,000 x g.

#### **4. Swing Bucket Rotor 2:**

- i. Rotor Capacity: 6 x 13.2 ml or more
- ii. Rotor Speed: 41,000 rpm or more
- iii. Rotor g-Force: 286,000 x g or more
- iv. Rotor k-factor: 125 or less
- v. Material: Titanium

Tubes for the rotors: Essential requirement Compatibility and durability should also include adapters and accessories.

- vi. Include 100 no's ultra clear tubes of 13.2 ml or higher capacity that can be run at 41 000rpm and 288 000x g
- vii. Include 100 no's thin wall polypropylene tubes of 13.2 ml or higher capacity that can be run at 41 000rpm and 288 000x g

#### **5. Swing Bucket Rotor 3:**

- i. Rotor Capacity: 6 x4 ml or more
- ii. Rotor Speed: 60,000 rpm or more
- iii. Rotor g-Force: 480,000 x g or more
- iv. Rotor k-factor: 46 or less
- v. Material: Titanium

Tubes for the rotors: Essential requirement Compatibility and durability with autoclaving and fit to re-use should also include adapters and accessories.

- vi. Include 100 no's ultra clear tubes of 4 ml or higher capacity that can be run at 60 000rpm and 485 000x g.
- vii. Include 100 no's thin wall polypropylene tubes of 4 ml or higher capacity that can be run at 60 000rpm and 485 000x g

**Corresponding Adapters for tubes and other accessories for all rotors must be quoted**

### **C. Other Essential Features:**

1. Electronic Signature: Yes
2. Rotor Tracking: By rotor serial number.
3. Drive: Drive Cooling – Air-cooled
4. Noise Level 1 meter in front of Centrifuge: <52 dBA or less
5. Refrigeration System: Thermoelectric – no CFCs, ODCs
6. After power interruption/failure, centrifuge should resume the run from the last recorded parameters once the power is resumed
7. Chamber temperature should remain as set for 5 minutes after the door is open for back-to-back run
8. Humidity restrictions: <80% at <35°C (non-condensing) or better
9. Shall give audible sounds for: Boot up, Start of Run, End of Run, Diagnostics/Alert, Vacuum low enough to open door
10. Power Requirement: 200-240V, 30 A, 50/60 Hz
11. Shall have a provision to release the vacuum in the centrifuge manually in case of power failure after rotor coming to rest
12. Ability to remove moisture with vacuum
13. A solid-state thermopile shall monitor the chamber temperature
14. Shall have over speed system to ensure that the rotor does not exceed its maximum allowable speed
15. Centrifuge System should have the capability to calculate rotor energy/inertia and energy values of the rotor and stop the centrifuge to prevent rotor failures.
16. On-board/PC should be capable of calculating Pelleting time, Concentration, Refractive Index / Density, Rotor speed reduction for dense solutions and precipitating solutions, Sedimentation Coefficient.
17. Advanced Software features:
  - i. Expert software with in-built calculations and should have in-built simulations, scheduling software and references
  - ii. Real-time run graphing
  - iii. Powerful on-board simulation and calculation tools
  - iv. Speed/temperature vs. time plot
  - v. Step-by-step zonal/CF operation screens
  - vi. On screen help
18. Suitable 10 KVA stabilizer to be provided along with the instrument.
19. Warranty – Three years from the successful date of installation.

20. Company should have dedicated application specialists with a proven track record to provide training as and when required and should also have application-training Center in India. The company must provide comprehensive training for our technical staffs/students/Scientists.

21. Application and service support should be directly provided by the company, and tender should be quoted by the company directly, not through the dealer.

**Accessories:**

1. Manufacturer should supply a suitable voltage stabilizer free of cost.
2. Please include appropriate number of seals for the tubes, speed disks for the rotors and reducers and adapters as spares.

*The above-mentioned technical specifications are highly desired. However, lower technical specifications may be considered if the above-mentioned specifications are found to be unsuitable in financial terms. The Institute reserves the right to go for lower specifications taking into consideration its financial constraints and technical preferences.*

## Section 5: Technical Bid

Tender No: DBG/FST/IISc/09/2025/A

Dated: 12.09.2025

Supply and Installation of Floor model Ultra centrifuge

Department of Developmental Biology and Genetics (DBG)

Division of Biological Sciences

Indian Institute of Science (IISc)

Bangalore-560012

**Annexure-1:****Bidder details**

The bidder must provide the following mandatory information & attach copies wherever mentioned:

1 Name of the Bidder:

2 Nature of Bidder (Pvt Ltd or Public Ltd Co/Partnership firm etc)

(Attach attested copy of Certificate of Incorporation/ Partnership Deed)

3 Registration No/ Trade License,

(if any attach copy)

4 Registered Office Address

5 Address for Communication

6 Contract person

Name

Designation

7 Telephone No

8 Email ID

Website

9 PAN No.

(attach copy)

10 GST No.

(attach copy)

11 Service Tax registration No.

(attach copy)

12 Annual Turnover

(attach audit reports)

2023-24

2024-25

13 Earnest Money Deposit

Details

NIL

14 Tender Cost

NIL

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:



**Annexure-2:**

**Past Purchase Orders**

Details of the Purchase Orders executed during the last two years 2024-25 & 2023-24

Provide the following details for each order:

Order Number and date

Items Value

Name of Organization

Contact Person

Name and

Designation

Contact

Details

with Email

Date of

Completion

Enclose copy of purchase order

(Signature of the Bidder)

Printed Name

**Annexure-3:**

**Declaration Regarding Experience**

To,  
Chair,  
Department of Developmental Biology and Genetics (DBG)  
Division of Biological Sciences,  
Indian Institute of Science (IISc),  
Bengaluru -560012  
Contact No: 080 2293 22548/2659

Ref: Tender No: DBG/FST/IISc/09/2025/A

Dated: XXX

Supply and installation of Floor model Ultra centrifuge

Sir,  
I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has more than five years of experience in supplying and installing centrifuges and ultra centrifuges to Central/State Govt. universities / research institutes.

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

**Annexure-4:**

**Declaration Regarding Clean Track by Bidder**

To,

Chair,

Department of Developmental Biology and Genetics (DBG)

Division of Biological Sciences,

Indian Institute of Science (IISc),

Bengaluru -560012

Contact No: 080 2293 2548/2659

**Ref: Tender No:**

**Dated:**

**Supply and installation of Floor model Ultra centrifuge**

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm is not currently debarred / blacklisted by any Government / Semi Government Organizations / Institutions in India or abroad. I further certify that I'm competent officer in my company / firm to make this declaration.

Or

I declare the following:

Country in which the company is debarred/blacklisted / case is pending:

Blacklisted / debarred by Government / Semi Government/Organizations /Institutions:

Reason Since when and for how long:

(NOTE: In case the company / firm was blacklisted previously, please provide the details regarding Period for which the company / firm was blacklisted and the reason/s for the same)

Yours faithfully

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

**Annexure – 5:**

**Declaration for Acceptance of Terms And Conditions**

To,

Chair,

Department of Developmental Biology and Genetics

Division of Biological Sciences,

Indian Institute of Science,

Bengaluru -560012

Contact No: 080 2293 2548/2659

Ref: Tender No:

Dated:

**Supply and installation of Floor model Ultra centrifuge**

Sir,

I've carefully gone through the Terms & Conditions as mentioned in the above referred

RFP document. I declare that all the provisions of this RFP are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

**Annexure – 6:**

**Details of items quoted:**

Company Name:

Product Name:

Part / Catalog number:

Product description / main features:

Detailed technical specifications:

Remarks:

Instructions to bidders:

1. Bidder should provide technical specifications of the quoted product/s in detail.
2. Bidder should attach product brochures along with technical bid.
3. Bidders should clearly indicate which of the technical specifications (key specifications or desirable specifications) they are able to meet or otherwise, IISc may ask for clarifications or further information.

## Section 6: COMMERCIAL BID

Tender No:

Dated:

Supply and installation of Floor model Ultra centrifuge

Department of Developmental Biology and Genetics (DBG)

Division of Biological Sciences

Indian Institute of Science (IISc)

Bangalore-560012

## SECTION 6 – COMMERCIAL BID

S. No:	Description	Catalog Number	Quantity	Unit price	Subtotal
1	Instrument				
2	Accessories				
3	Extended warranty				
4	Cost of Insurance and Airfreight				
5	CIP Bengaluru international airport				



## SECTION 7 – CHECK LIST

(This should be enclosed in the Envelop A)

The following items must be checked before the Bid is submitted:

### 1. Envelope “A”: Technical Bid

a) Section 5 Technical Bid (each page duly sealed and signed by the authorized signatory)

Annexure 1: Bidders details

Annexure 2: Details of purchase orders

Annexure 3: Declaration regarding experience

Annexure 4: Declaration regarding clean track

Annexure 5: Declaration for acceptance of tender terms and conditions

Annexure 6: Details of items quoted

b) Copy of this tender document duly sealed and signed by the authorized signatory on every page.

c) Checklist

### 2. Envelope “B”: Commercial Bid

Section 6: Commercial Bid:

Your quotation must be submitted in two envelopes Technical Bid (Envelope A) and Commercial Bid (Envelope B) super scribing on both the envelopes the Tender no. and due date and both these sealed covers are to be put in a bigger cover which should also be sealed and duly super scribed with our Tender No. & Due Date.