

Tender for

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

Tender No.
CNS/IISC/JTTO/Ultra centrifuge/05/2018



Centre for Neuroscience
Indian Institute of Science
Bangalore – 560012

July 2018

Table of Contents

1	Section 1 -	Bid Schedule
2	Section 2 -	Eligibility Criteria
3	Section 3 -	Terms And Conditions
4	Section 4 -	Technical Specifications
5	Section 5 -	Technical Bid
		Annexure: 1 Bidder details
		Annexure: 2 Details of purchase orders
		Annexure: 3 Declaration of regarding experience
		Annexure: 4 Declaration of regarding clean track
		Annexure: 5 Declaration of acceptance to tender terms and conditions
		Annexure: 6 Details of items quoted
6	Section 6	Commercial Bid
7	Section 7	Check List

SECTION 1 - BID SCHEDULE

Tender No	CNS/IISC/JTTO/Ultra centrifuge/05/2018
Tender Date	10th July 2018
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	Centre for Neuroscience, Indian Institute of Science, Bengaluru - 560012
Last Date & Time for submission of tender	31st July 2018 by 5:00pm
Tender Fees	NIL
Earnest Money Deposit	NIL
Any Clarification	Senior Administrative Officer, TATA Trust project, Centre for Neuroscience, Indian Institute of Science, Bengaluru -560012 Contact No: 080 22933431

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)

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. In case 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. Quoting of Price (s): USD
6. 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.
7. 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.
8. 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 thereby incurring any liability to the effected bidder or bidders or any obligation to inform the affected bidder or bidders.
9. If the foreign bidder is represented, by their Indian representatives, the foreign

bidder has to submit a certificate about their relationship with the Indian firm.

10. 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 to the tender terms.

Validity Of The Offer:

90 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 in regard to 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.

Pre requisite 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 1 year including free supply of spare parts and labor from the date of functional installation. If the instrument is found to be defective, it has to be replaced or rectified at the cost of the supplier within 10 days from 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 standard warranty.

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 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 of the entire system by the centre shall be taken as the start of the warranty period.

Payment Terms:

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

1. 70% of the purchase order value will be released against shipping documents and remaining
2. 30% after satisfactory installation and demonstration)

No advance payment shall be made.

Statutory Variation:

Any statutory increase in the taxes and duties subsequent to 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 on 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 at a later date, would render him liable to be debarred from tendering/taking up of work in IISc Bangalore.

Senior Administrative Officer,
TATA Trust project,
Centre for Neuroscience,
Indian Institute of Science,
Bengaluru -560012
Contact No: 080 22933431

Section – 4

Floor model Ultra centrifuge

Technical Specifications

Floor Model Ultracentrifuge equipped with a Bio safe facility and necessary rotors along with tubes and accessories for purification of viral particles and isolation of different organelles is required with the following specification:

1. Operational Control Requirements:

Centrifuge should have the following control specifications

1. Maximum Speed: 100000 rpm or more
2. Maximum RCF (x g): 8,00,000 or more
3. Speed Control accuracy: ± 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. User- Defined Program feature with at least 100 programs.
11. Sample imbalance protection: ± 5 ml or 10% whichever is greater
12. Easy-to-use LCD Screen based touch user-interface.
13. Large touch-screen display with adjustable positions.
14. Drive: Frequency-controlled, brushless direct-drive induction motor.
15. Instrument should have a safety feature to avoid over speeding of the rotor by method of checking the inertia of the rotor.

2. Rotor Specific Requirements:

1. Fixed Angle Rotor:

- i. Rotor Capacity: 8 x 39 ml
- ii. Rotor Speed: 70,000 rpm or more
- iii. Rotor g-Force: 504,300 x g
- 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.
- vi. Includes Qty- 12 numbers bottles
Polycarbonate Bottle assembly of 26.3 mL or higher capacity that can be run at 60 000rpm and 371 000x g should be supplied.
- vii. Includes Qty- 25 tubes: Thick wall Polypropylene tubes of 10 ml capacity that can be run at 40 000rpm and 151 000x g should be supplied. These tubes are best suited for

differential centrifugation of subcellular fractions and viral proteins.

- viii. Includes Qty- 25 tubes: Thick wall Polycarbonate tubes of 10 ml capacity that can be run at 40 000rpm and 151 000x g should be supplied. These tubes are best suited for differential centrifugation of subcellular fractions and viral proteins.
- ix. Includes Qty- 25 tubes: Thick wall Polycarbonate tubes of 30 ml capacity that can be run at 60 000rpm and 371 000x g should be supplied. These tubes are best suited for differential centrifugation of subcellular fractions and viral proteins

3. Swinging Bucket Rotor: 1

- i. Rotor Capacity: 6 x 14-15 ml
- ii. Rotor Speed : 40,000 rpm or more
- iii. Rotor g-Force: 280,000 x g or more
- iv. Rotor k-factor: 140 or less
- v. Material: Titanium
- vi. **Includes Qty- 200 tubes:** Polypropylene and Polycarbonate tubes of 14 ml that can be run at G-force of 285,000g should be supplied.

Swinging Bucket Rotor: 2

- i. Rotor Capacity: 6 x 38-40 ml
- ii. Rotor Speed : 32,000 rpm or more
- iii. Rotor g-Force: 175,000x g
- iv. Rotor k-factor: 205 or less
- v. Material: Titanium
- vi. **Includes Qty- 50 tubes:** Thick wall Polypropylene tubes of 31 ml that can be run at 32 000 rpm, G force 175 000 should be supplied
- vii. **Include total 125 tubes of Ultra clear, PC and thinwall PP bottles that can run at G-force of 175,000g**
- viii. **Corresponding Adapters for tubes and other accessories for the rotor.**

4 Other Essential Features:

- 2. Electronic Signature: Yes (Braking-Regenerative point deleted)
- 3. Rotor Tracking: By rotor serial number
- 4. Drive Cooling: Air-cooled
- 5. Noise Level 1 meter in front of Centrifuge: <52 dBA or less
- 6. Refrigeration System: Thermoelectric – no CFCs, ODCs
- 7. After power interruption/failure, centrifuge should resume the run from the last recorded parameters once the power is resumed
- 8. Chamber temperature should remain as set for 5 minutes after the door is open for back to back run

9. Humidity restrictions: <80% at <35°C (non-condensing) or better
10. Shall give audible sounds for: Boot up, Start of Run, End of Run, Diagnostics/Alert, Vacuum low enough to open door
11. Power Requirement: 200-240V, 30 A, 50/60 Hz
12. Shall have a provision to release the vacuum in the centrifuge manually in case of power failure after rotor coming to rest
13. Ability to remove moisture with vacuum
14. A solid state thermopile shall monitor the chamber temperature
15. Shall have over speed system to ensure that the rotor does not exceed its maximum allowable speed
16. Shall have an inbuilt system to calculate rotor energy/inertia and stop the centrifuge to prevent rotor failures.
17. Advanced Software features:
 - i. Expert software **with inbuilt** calculations, simulations 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

Adapters/kits when provided should not comprise the maximum force of the rotor.

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 adaptors 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:

CNS/IISC/JTTO/Ultra centrifuge/05/2018

Dated: 10th July 2018

Supply and Installation of Floor model Ultra centrifuge

Centre for Neuroscience
Indian Institute of Science
Bangalore-560012

Annexure-1:

Bidder details

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

Details of the Bidders		
Sl.No.	Description	Particulars
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) 2016-17 2017-18	
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 2016-17 & 2017-18

Sl. No	Order Number and date	Items	Value	Name of Organization	Contact Person Name and Designation	Contact Details with E-mail	Date of Completion

Enclose copy of purchase order

(Signature of the Bidder)
Printed Name

Annexure-3:

Declaration Regarding Experience

To,

Senior Administrative Officer,
TATA Trust project,
Centre for Neuroscience,
Indian Institute of Science,
Bengaluru -560012
Contact No: 080 22933431

Ref: Tender No: CNS/IISC/JTTO/Ultra centrifuge/05/2018,

Dated: 10th July 2018

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,

Senior Administrative Officer,
TATA Trust project,
Centre for Neuroscience,
Indian Institute of Science,
Bengaluru -560012
Contact No: 080 22933431

Ref: Tender No: CNS/IISC/JTTO/Ultra centrifuge/05/2018,
Dated: 10th July 2018

Supply and installation of Floor model Ultra centrifuge

Sir,

I've care fully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm is not currently debarred / black listed 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

Sl.No.	Country in which the company is debarred /blacklisted / case is pending	Black listed / 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,

Senior Administrative Officer,
TATA Trust project,
Centre for Neuroscience,
Indian Institute of Science,
Bengaluru -560012
Contact No: 080 22933431

Ref: Tender No: CNS/IISC/JTTO/Ultra centrifuge/05/2018,
Dated: 10th July 2018

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, CNS may ask for clarifications or further information.

Section 6: COMMERCIAL BID

Tender No:

CNS/IISC/JTTO/Ultra centrifuge/05/2018,

Dated: 10th July 2018

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

Centre for Neuroscience
Indian Institute of Science
Bangalore-560012

SECTION 6 – COMMERCIAL BID

(Price to be quoted in USD)

Sl.No	Description	Catalog Number	Quantity	Unit price (USD)	Subtotal (USD)
	Instrument price				
	Accessories				
	Extended warranty				
	Cost of Insurance and Airfreight				
	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 pages 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. Envelop “B”: Commercial Bid

Section 6: Commercial Bid: (Price to be quoted in USD)

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 the 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.