

**Global Tender Request for Quote for the procurement of  
a large area multi-material spin coating work-station  
(Last date: 15<sup>th</sup> November 2024)**

This is a Request for Quote (RFQ) for the procurement of a large area multi-material spin coating system, for the Centre for Nano Science and Engineering (CeNSE) at the Indian Institute of Science (IISc), Bangalore. IISc is India's best institution on higher learning and the Center for Nano Science and Engineering (CeNSE) is home to one of the best academic fabs in the world.

CeNSE is a multidisciplinary research department at IISc that houses a 14,000 sq. ft. cleanroom and characterization facility used by 50 faculty members from various disciplines at IISc. CeNSE is also a user- facility which has hosted over 6000 participants from more than 700 universities and institutes all over the world. Consequently, any tool in CeNSE receives significant exposure to scientific community in India and beyond. The vendors are requested to factor in the value of this exposure in their quotes.

Being a user-facility puts an additional technical burden on the tool. We need a tool that can tolerate heavy usage (40 hours/week), has a high uptime, can be serviced and maintained for the foreseeable future (at least 5 years), and has a track record of reliability at comparable facilities in India and abroad. Details of existing facilities and the user program can be gleaned from:

<http://nnfc.cense.iisc.ac.in>

<http://www.mncf.cense.iisc.ac.in/>

<https://www.inup.cense.iisc.ac.in/>

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## **Section 1- Bid Schedule**

1	Tender No	CeNSE/SG/GT/2024
2	Tender Date	23 <sup>rd</sup> October 2024
3	Item Description	Procurement of a large area multi-material spin coating system
4	Tender Type	Two bid system (i) Technical Bid (Part A) (ii) Commercial Bid (Part B)
5	Place of tender submission	Chairperson Office, Attn: Dr. Sreetosh Goswami, Centre for Nano Science and Engineering Indian Institute of Science, Bangalore 560012
6	Last Date & Time for submission of tender	15 <sup>th</sup> November 2024, 5.00 PM (IST)
7	For further clarification	Dr. Sreetosh Goswami Assistant Professor Centre for Nano Science and Engineering Indian Institute of Science Bangalore – 560012, India. Email: <a href="mailto:sreetosh@iisc.ac.in">sreetosh@iisc.ac.in</a>

- Vendors will be required to submit a technical proposal and a commercial proposal in **two separate sealed envelopes**. The technical bid should contain all commercial terms and conditions, except the price. **Only vendors who will be adjudged by the committee to meet the technical requirements will be considered for the commercial negotiation.**
- **The deadline for submission of proposals is the November 15, 2024, 5:00 pm Indian Standard Time.** Proposals should arrive at the Main office, GF-15, Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore 560012, India, on or before the above deadline.
- **C.I.P. Bangalore basis (by Air Freight only).** The quotation should mention the terms of delivery, delivery schedule, estimated delivery date, and payment terms.
- **Foreign currency quotes are allowed.**
- **The decision made by the purchase committee is final.**

## **Section 2 – Eligibility Criteria**

Prequalification criteria:

1. The Bidder's firm should have existed for a minimum of 5 years. (Enclosed Company Registration Certificate)
2. The specifications quoted here must be listed in a web page or an official brochure.
3. The Bidder should have qualified technical service personnel for the instrument(s) based in India.
4. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per Annexure 4.
5. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect has to be given as per Annexure 3.

## **Section 3 – Terms and Conditions**

### **A) Submission of Tender:**

1. All documentations in the tender should be in English.
2. Tender should be submitted in two envelopes (two bid system).
  - a. **Technical Bid (Part-A)** – Technical bid consisting of all technical details and check list for technical specifications. The technical bid **must not contain** any price information.

The technical proposal should contain a technical compliance table with 5 columns.

- i. The first column must list the technical requirements, in the order that they are given in the technical requirement below.
- ii. The second column should provide specifications of the instrument against the requirement. Please provide quantitative responses wherever possible.
- iii. The third column should describe your compliance with a “YES” or “NO” only. Ensure that the entries in column 2 and column 3 are consistent.
- iv. The fourth column should state the reasons/explanations/context for deviations, if any.
- v. The fifth column can contain additional remarks from the Indian Original Equipment Manufacturer (OEM) or from their distributors. You can use this opportunity to highlight technical features, qualify response of previous columns, or provide additional details, compare your solution with that of your competitors or provide details as requested in the technical requirements table below.
- vi. **Tender documents without technical compliance documents will not be considered.**
- vii. Technical capabilities of any suggested accessories/add-ons that may enhance the usability, capability, accuracy or reliability of the tool. Vendors are encouraged to quote for as many add-ons as their tool portfolio permits.
- viii. Vendors are encouraged to highlight the advantages of their tools over comparable tools from the competitors.
- ix. Items in addition to those listed in the technical table that the vendor would like to bring to the attention, such as data sheets, technical plots etc. can be listed at the end of the compliance table. Vendors are also

encouraged to highlight the advantage of their tools over comparable tools from the competitors.

- x. If multiple systems can fulfil the requirements, vendors can submit multiple bids.
  - xi. The technical proposal will be evaluated against the technical requirement. Deviations from the technical specifications requested are allowed. Such deviations must be highlighted and justified. Their acceptance or rejection will be left to the discretion of the technical committee. Only the vendors, adjudged by the committee to be suitable to meet the technical requirements, will be considered for the commercial negotiation.
- b. **Commercial Bid (Part-B)** – Indicating item wise price for the items mentioned in the technical bid, **as per the format of quotation provided in tender**, and other commercial terms and conditions. The commercial bid should contain:
- i. Itemized cost of the system and required accessories, such as software, power supply, etc.
  - ii. All accessories needed for the instrument to function as per the technical specification must be listed.
  - iii. Itemized cost, as an option, for any suggested accessories/add-ons that may enhance the usability, capability, accuracy or reliability of the tool. Vendors are encouraged to quote for as many add-ons as their tool portfolio permits.
  - iv. The cost of shipping plus insurance up to IISc has to be included. IISc will help the shipping company to take care of the customs clearance at Bangalore Airport.
  - v. Please indicate the warranty provided with the tool. A warranty of 3 years or more is preferred.
  - vi. Provide itemized cost for required/expected spares for 3 years of operation. For sake of this calculation, the vendor may assume active tool usage of 40 hours/week. This number will be used to estimate the life cycle cost of the tool.
  - vii. The cost of annual maintenance contract (AMC). The details of AMC are given below. This number will be used to estimate the life cycle cost of the tool.
  - viii. Length of time that the tools will be supported with service and spares from the date of installation. Our requirement is that the tools be supported for at least 5 years from the date of installation. To quote the

lowest price, vendors often quote for obsolete or soon-to-be obsolete equipment. This is NOT acceptable. For a user-facility like CeNSE, it is vital that the equipment be serviceable and supported for the foreseeable future. The length of guaranteed support will be used to estimate the life cycles cost of the tool.

- ix. The commercial bid should indicate the following separately: (a) equipment price (b) optional items (c) Freight and insurance cost (d) Shipping cost and (e) the Total cost.
  - x. Foreign currency quotes are allowed.
3. The technical bid and price bid must be placed in separate sealed covers, superscripting on both the envelopes the tender no. and the due date. Both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscripted with the Tender No, Tender Description & Due Date.
  4. The SEALED COVER superscripting tender number / due date & should reach Chairperson Office, Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore 560012, India, on or before due date mentioned in the tender notice. In case the due date happens to be a holiday the tender will be accepted and opened on the next working day. If the quotation cover is not sealed, it will be rejected.
  5. All queries are to be addressed to the person identified in “Section 1 – Bid Schedule” of the tender notice.
  6. GST/other taxes, levies etc., are to be indicated separately. The BIDDER should mention GST Registration and PAN in the tender document (Indian Bidders only).
  7. If price is not quoted in Commercial Bid as per the format provided in tender document the bid is liable to be rejected.
  8. The vendor should have qualified technical service personnel for the equipment based in India and should assure a response time of <48 hours.
  9. The technical proposal must include references of at least 5 previous installations done in India within last 5 years of similar cryogenic equipment from the equipment manufacturer. Please provide the names and contact addresses of the three independent referees, so that the committee can contact them independently to get a reference. Please provide the installation report.
  10. A technical evaluation by the purchase committee may include a demonstration to verify the functionalities and capabilities of the system quoted. The purchase committee reserves the right to reject the bids based on their technical evaluation of the quality of data, capability demonstration, and service. If the data/requested capability demonstration does not happen within a stipulated timeframe, the bid

will be rejected. Any discrepancy between the promised specifications and measurements will be deemed as technical non-compliance.

11. Imported items should be shipped on C.I.P. Bangalore basis (by Air Freight only), and all components and accessories indicate component-wise and itemized breakup. Provide certificates for the country of origin of manufacturing for each line item. The price of every line item in the commercial bid should be quoted along with the total quoted price for the instrument to be operational (installed and ready to use) in our facility.
12. The purchase committee 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 affected bidder or bidders or any obligation to inform the affected bidder or bidders.
13. Incomplete bids will be summarily rejected.
14. The decision of the purchase committee will be final.

**B) 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.

**C) Validity of the offer:**

The offer shall be **valid 120 Days** from the date of opening of the commercial bid.

#### **D) Evaluation of the offer:**

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required eligibility 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 Bangalore, and decision in this regard shall be binding on the bidders.
4. The award of the contract will be subject to acceptance of the terms and conditions stated in this tender.
5. Any 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 for Basic equipment along with accessories selected for installation, operation, pre-processing and post processing, optional items, recommended spares, warranty, annual maintenance contract.

#### **E) Pre-requisites:**

The bidder will provide the prerequisite installation requirement of the equipment along with the technical bid.

#### **F) Warranty:**

The complete system is to be under warranty period of **minimum 3 years** including free supply of consumables, spare parts, and data analysis software from the date of functional installation. Vendor should include cost of any spares that are expected to be needed during the warranty period, including electronics, subcomponents, and



software. If the instrument is found to be defective, it must be replaced or rectified at the cost of the bidder within 30 days from the date of receipt of written communications from IISc, Bangalore. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

#### **G) Annual Maintenance Contract (AMC):**

An annual maintenance contract for a period of 2 years post warranty should be provided on completion of the warranty period. If that is not possible, ample justification is needed.

#### **H) Purchase Order:**

1. The order will be placed on the bidder whose bid is accepted by IISc Bangalore based on the terms & conditions mentioned in the tender document.
2. The quantity of the items in tender is only indicative. IISc, Bangalore 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, Bangalore reserves the right to cancel or amend the contract.
4. After the award of the purchase order, the vendor must provide an Order Acknowledgement within 30 days from the receipt of the Purchase Order

#### **I) Delivery, Installation and Training:**

1. The bidder shall provide the lead time to delivery, installation and made functional at IISc, Bangalore from the date of receipt of purchase order.
2. The system should be delivered, installed, and made functional **within 4 months** of the date of receipt of purchase order.
3. 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 IISc, Bangalore.
4. After successful installation and inspection, the date of taking over of entire system by the IISc, Bangalore shall be taken as the start of the warranty period.
5. No partial shipment is allowed. The bidder should also arrange for technical training for the local facility technologists and users.
6. The bidder should provide onsite application training for the local facility technologists and users.
7. The bidder should also arrange technical training for the local facility technologists and users

**J) Payment Term:**

The payment will be through a Letter of Credit and the milestone of the payment will be determined after mutual discussions with the successful bidder.

**K) Statutory Variation:**

Any statutory increase in the taxes and duties subsequent to bidder's offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bangalore 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, Bangalore.

**L) Dispute 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, India.

**M) General:**

1. All amendments, time extension, clarifications etc., within the period of submission of the tender will be communicated electronically. No extension in the bid due date/time shall be considered on account of delay in receipt of any document(s) by mail.
2. The bidder may furnish any additional information, which is necessary to establish capabilities to successfully complete the envisaged work. It is however, advised not to furnish superfluous information.
3. The bidder may visit the installation site before submission of tender, with prior intimation.
4. Any information furnished by the bidder found to be incorrect, either immediately or at a later date, would render the bidder liable to be debarred from tendering/taking up of work in IISc, Bangalore.

#### **Section 4 - Technical specifications**

1. Programmable Spin Coating System is required for uniform large area thin film coating. The system must be compatible with a glove box and necessary on-deck mounting configuration for the requirements specified below.
2. System should be capable able to accommodate wafer of 8" and 6" diameter as well as square substrate of 1cm×1cm or higher.
3. The system must be capable of spin coating both organic and metal organic systems using polar and non-polar solvents without cross contamination.
4. If this requires multiple bases or heads (*or more than one unit*) it must be recommended with detailed technical description.
5. Since the spin coating will be done at a glove box, the solvents need to be pure, free from moisture. The vendor needs to provide a description as to how solvent purification could be performed. In case the vendor is unable to meet this requirement, other vendors who may provide a solution could be referred to.
6. The vendor is encouraged to suggest customizations necessary to meet our requirements. Multiple routes can be suggested which will be evaluated by the technical committee.
7. Automatic Syringe with suck-back for multiple dispenses (10 µl and 1 ml) should be available. It should accommodate syringes from 1ml to 5ml.
8. System must be microprocessor controlled.
9. Process Chamber must be of minimum 200mm diameter or more.
10. The lid cover must be also resistant to chemicals.
11. System must have the capability of storing 20 recipes each containing up to 51 steps.
12. System should have brushless motor.
13. Speed must be up to 12,000 RPM with +/-1 RPM ramp.
14. Acceleration: Up to 10,000 RPM or higher.
15. Spin Time: 1 seconds to 99 minutes 59.9 seconds in 0.1 second increment.
16. Spin coater system should have Solid Natural Polypropylene housing or better.
17. Suitable Chucks to accommodate different size square substrates should be provided along with basic spin coater.
18. The system should have provision for seal purging for safety of equipment.
19. The chamber should have an exhaust drain reservoir.
20. Suitable vacuum pump for spin coater system should be also quoted by vendor.
21. Power supply requirement: 220V, 50Hz.
22. ETL Listed and certified to CE, CSA & UL Standards spin coaters are preferred.

23. Suitable other accessories like Single Shot Dispenser, centering tool, etc. must be quoted optionally.
24. Process chamber liner: Reusable and removable process chamber liner made of chemical resistant polymer should be quoted as a spare item.
25. Fragment Adapter: Fragment adapter (>5 mm to 25 mm) made of natural polypropylene could be indicated as an optional item.
26. Alignment tools for use with 1.75" low profile vacuum chuck for 2", 3", 100 mm, 125 mm and 150 mm wafers must be quoted.

## **Section 5 – Technical Bid**

The technical bid should furnish all requirements of the tender along with all annexures in this section and submitted to

The Chairperson,  
Attn: Dr. Sreetosh Goswami  
Centre for Nano Science and Engineering Indian Institute of Science  
Bangalore – 560012, India  
Email: [sreetosh@iisc.ac.in](mailto:sreetosh@iisc.ac.in)

## **Annexure-1**

### Details of the Bidder

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

### Details of the Bidder:

Sl No.	Items	Details
1.	Name of the Bidder	
2.	Nature of Bidder (Attach attested copy of Certificate of Incorporation/ Partnership Deed)	
3.	Registration No/ Trade License, (attach attested copy)	
4.	Registered Office Address	
5.	Address for communication	
6.	Contact person- Name and Designation	
7.	Telephone No	
8.	Email ID	
9.	Website	
10.	PAN No. (attach copy)	
11.	GST No. (attach copy)	

Signature of the Bidder

Name

Designation, Seal

Date:

**Annexure-2**

Declaration regarding experience

To,  
The Chairperson,  
Centre for Nanoscience and Engineering, Indian Institute of Science,  
Bangalore – 560012, India

Ref: Tender No: XXXXXXXXXX Dated: XXXXX

Supply and installation of a large area multi-material spin coating system at CeNSE,  
IISc Bangalore.

Sir/Madam,  
I've carefully gone through the Terms & Conditions contained in the above referred  
tender. I hereby declare that my company / firm has \_\_\_\_years of experience in  
supplying and installing \_\_\_\_\_

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

**Annexure-3**

Declaration regarding track record

To,  
The Chairperson,  
Centre for Nano Science and Engineering Indian Institute of Science,  
Bangalore – 560012, India

Ref: Tender No: XXXXXXXX Dated: XXXXX

Supply and installation of a large area multi-material spin coating system at CeNSE, IISc Bangalore.

Sir/Madam,

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

Sl.No	Country in which the company is Debarred /blacklisted case is Pending	Blacklisted / debarred by the 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)

Name

Designation, Seal

Date:



**Annexure – 4**

**Declaration for acceptance of terms and conditions**

To,  
The Chairperson,  
Centre for Nano Science and Engineering Indian Institute of Science,  
Bangalore – 560012, India

Ref: Tender No: XXXXXX Dated: XXXX

Supply and installation of a large area multi-material spin coating system at CeNSE, IISc Bangalore.

Sir/Madam,  
I've carefully gone through the Terms & Conditions as mentioned in the above referred tender document. I declare that all the provisions of this tender document 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)

Name

Designation, Seal

Date:

## **Annexure – 5**

Details of items quoted:

- a. Company Name
- b. Product Name
- c. Part / Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. Remarks

Instructions to bidders:

1. The bidder should provide technical specifications of the quoted product/s in detail.
2. Bidders should attach product brochures along with technical bid.
3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

## **Section 6 – Commercial Bid**

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

S.No	Description	Cat. Number	Quantity	Unit Price	Sub total
1	Essential items noted in the technical specification				
1.a	...(details of essential items)				
1.b	...				
2	Optional items noted in the technical specification				
2.a	... (details of essential items)				
2.b	...				
3	Accessories for operation and installation				
4	All Consumables, spares and software to be supplied locally				
5	Warranty (3 years)				
6	AMC 3 years beyond warranty				
7	Cost of Insurance and Airfreight				
8	CIP/CIF IISc, Bengaluru				

Any additional items

S.No	Description	Cat.	Number Quantity	Unit Price	Sub total

Addressed to

The Chairperson,  
Attn: Dr. Sreetosh Goswami  
Centre for Nano Science and Engineering Indian Institute of Science  
Bangalore – 560012, India  
Email: [sreetosh@iisc.ac.in](mailto:sreetosh@iisc.ac.in)

## **Section 7 – Checklist**

(This should be enclosed with technical bid- Part A)

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

(1) Sealed Envelope “A”: Technical Bid

- a. Section 5- Technical Bid (each page signed by the authorized signatory and sealed) with the below annexures:
  - i. Annexure 1: Bidders details
  - ii. Annexure 2: Declaration regarding experience
  - iii. Annexure 3: Declaration regarding clean track record
  - iv. Annexure 4: Declaration for acceptance of terms and conditions
  - v. Annexure 5: Details of items quoted.
- b. Copy of this tender document duly signed by the authorized signatory on every page and sealed.

(2) Sealed Envelope “B”: Commercial Bid

- a. 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 with Tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No., Tender description & Due Date.

Thanking you,

Dr. Sreetosh Goswami  
Assistant Professor  
Centre for Nano Science and Engineering  
Indian Institute of Science, Bangalore, India 560012.  
E-mail: [sreetosh@iisc.ac.in](mailto:sreetosh@iisc.ac.in)