

Request for Quote for the procurement of a spin coater. (Last date: 2 March 2022)

This is a Request for Quote (RFQ) for the procurement of scientific grade spin coater, 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 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/>

Procedure:

1. 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.**
2. **The deadline for submission of proposals is the March 2, 2022, 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.
3. 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.
4. The decision made by the purchase committee is final.
5. **The technical bid** must contain a point-by-point technical compliance document.
 - a. The technical proposal should contain a compliance table with 5 columns.
 - First column must list the technical requirements, in the order that they are given in the technical requirements below.
 - The second column must provide specification of the instrument against the requirement (please provide quantitative responses wherever possible)

- The third column should describe the compliance with a “YES” or “NO” only. Ensure that the entries in the column 2 and column 3 are consistent.
 - The fourth column should clearly state the **reasons/explanations/context** for deviations if any. Without clear explanation, just stating YES” or “NO” will not be considered.
 - The fifth column may contain additional remarks. It can be used to highlight the technical features, qualify response of previous columns, or provide additional details.
- b. 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.
 - c. Vendors are encouraged to highlight the advantages of their tools over comparable tools from the competitors
 - d. Relevant technical datasheets should be provided. The committee reserves the right to cross-check the information in these datasheets with publicly available information.
 - e. Items in addition to that 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.
 - f. If multiple systems can fulfil the requirements, vendors can submit multiple bids.
6. 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.
7. The commercial bid must contain:
- a. Itemized cost of the system and *required* accessories, such as software, power supply, etc.
 - b. All accessories needed for the instrument to function as per the technical specification must be listed.
 - c. 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.
 - d. 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.
 - e. Please indicate the warranty provided with the tool. Warranty of 3 years or more is preferred.
 - f. 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.
 - g. 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.

Post such submission all vendors should send an email to sreetosh@iisc.ac.in with the subject line: “Submitted bid_Bidder’s name_Tool Name” to intimate him of the submission within one day.

II. General terms and conditions:

1. The institute reserves the right to accept or reject any bid, or to annul the bidding process and reject all bids, at any time prior to the award of contract without thereby incurring any liability of the affected bidder or bidders.
2. Previous installations can be used by the committee to disqualify vendors with poor track record of service, build quality, system performance or poor availability of spares.
3. 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 should be provided.
4. The vendor should be able to repair and maintain the equipment once it is installed. Clarify if periodic (preventive) maintenance can be done by a trained on-site engineer (i.e. IISc employee) or requires a specialist from the OEM. The bidder should have qualified technical service personnel for the equipment based in India and must assure a response time if <24 hours after receiving a service request.
5. All the quotations must be valid for at least 120 days at the time of submission.
6. The quotations should clearly indicate the terms of delivery, delivery schedule, tax, and payment terms.
7. In case of the award of purchase order, the vendor must provide an Order Acknowledgement within 30 days from the receipt of the Purchase Order.
8. The lead-time for the delivery of the equipment should not be more than 3 months from the date of receipt of our purchase order.
9. The bidder is responsible for the installation of the equipment in the IISc campus.
10. Necessary training to operate the procured setup and required literature support (in English language) should be provided without additional cost.
11. Bidders should undertake to support the system with spares and software bugfixes, if any, at least for the next 5 years.
12. Data must be supplied along with the technical compliance documents. Technical bids without supporting data can be deemed as technically non-compliant.
13. Printed literature and published papers in support of all compliance to the prescribed specifications are encouraged.
14. All guaranteed specifications will have to be demonstrated, upon request, in an active installation. Failure to demonstrate any promised specifications will be deemed as technical non-compliance.

15. Technical evaluation by the institute must include demonstration to verify functionalities and capabilities of the system quoted. Any discrepancy between the promised specifications and demonstrated specifications will be deemed as technical non-compliance. If need arises, the vendor must be ready to physically visit IISc for a techno commercial discussion.
16. The intender reserves the right to withhold the placement of the final order. The right to reject all or any of the quotations and to split up the requirements or relax any or all the above conditions without assigning any reason.

III. Technical specifications of the spin coater system:

1. Programmable Spin Coater system is required for uniform thin film coating. System must be tabletop.
2. System must be microprocessor controlled.
3. Process Chamber must be of minimum 200mm diameter.
4. Lid cover must be also resistant to chemicals.
5. System must have the capability of storing 20 recipes each containing up to 51 steps.
6. Speed must be upto 12,000 RPM with +/-1 RPM ramp.
7. Acceleration: Up to 10,000 RPM or higher.
8. Spin Time: 1 seconds to 99 minutes 59.9 seconds in 0.1 second increment.
9. Spin coater system should have Solid Natural Polypropylene housing or better.
10. System should be capable able to accommodate wafer/substrate Ø6" or 5" square substrate or higher.
11. Suitable Chucks should be provided alongwith basic spin coater.
12. System should have provision for seal purging for safety of equipment.
13. The chamber should have an exhausted drain reservoir
14. Suitable vacuum pump for spin coater system should be also quoted by vendor.
15. Power supply requirement: 220V, 50Hz.
16. ETL Listed and certified to CE, CSA & UL Standards spin coaters are preferred.

17. Suitable other accessories like manual and auto dispensing, centring tool, dispensing tool, etc. must be quoted optionally.

Optional items (Spares and accessories)

Process chamber liner : Reusable and removable process chamber liner made of chemical resistant polymer.

Fragment Adapter : Fragment adapter (>5 mm to 25 mm) made of natural polypropylene.

Alignment tool : for use with 1.75" low profile vacuum chuck for 2", 3", 100 mm, 125 mm and 150 mm wafers

Thanking you,

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