

**Request for Quote (India based vendors only) for the procurement of  
a spin coater. (Last date: 16 November 2021)**

This is a Request for Quote (RFQ) from **Class I and Class II local suppliers/ manufacturers** only 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 is home to one of the best academic fabs in the world that houses a 14,000 sq. ft. cleanroom.

**Only the Indian Original Equipment Manufacturer (OEM) or their distributor shall submit a response demonstrating their capabilities to produce the requested equipment to the primary point of contact listed below. The quotations should be on FOR-IISc Bangalore basis in INR only.**

With respect to this tender, the rules laid out by the Government of India in order No. P45021/2/2017-pp-BE-II issued by the Public Procurement Section, Department or Promotion of Industry and Internal Trade, Ministry of Commerce, and Industry, dated 4th June 2020 will be followed. The bidders must go through the Government of India order stated above and follow all the rules and regulations therein.

Relevant definitions as per Government of India order:

- **Class-I local supplier** - A supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%.
- **Class-II local supplier** - A supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%.
- **Local content** – The amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.

**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 covering letter should clearly state that whether the vendor is a Class-I or Class-II local supplier distinguished by their "local content". Failing this the bid will be automatically rejected.
3. The vendor must state the percentage of the local content and provide self-certification that the item offered meets the minimum local content requirement. They should also give details of the location(s) at which the local value addition is made.

4. Separate detailed justification needs to be given to substantiate the qualification as Class 1 and Class 2 suppliers and the intender reserves the right to cross-check the factual validity of the same and one if some foreign parts or equipment is being put forward then please submit the “*bill of material*” details for the same for evaluation.
5. **The deadline for submission of proposals is the November 16, 2021, 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.
6. **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. 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.
  - e. If multiple systems can fulfil the requirements, vendors can submit multiple bids.
7. 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.

8. 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. Please include cost of shipping to Bangalore. The quote does not need to account for Customs duties.
  - e. Please indicate the warranty provided with the tool. Warrant 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.
  - h. 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 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.
  - i. 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.
  - j. The quotations should be in INR only.
  
9. As an additional option, provide cost of an annual maintenance contract (AMC) for 3 years, post warranty. The AMC must
  - a. cover 1 scheduled and 1 emergency visit per year.
  - b. The emergency visit should be supported with a 48-hour response window.
  - c. clarify if maintenance will be done by a trained onsite engineer (CeNSE employee) or a specialist from the OEM.
  - d. in case the OEM is foreign, clarify if maintenance will be done by a trained engineer from India (local representative or Indian subsidiary) or by a trained engineer from abroad.
  - e. include an itemized list of spares (e.g., maintenance kits) that are essential for scheduled visits.
  
10. The commercial bids will be evaluated based on life-cycle cost of the tool. This includes the cost of purchase, maintenance, spares, etc. The final decision will be me made by the

committee.

11. The RFQ must include references of 5 previous installations, preferably in India. Please provide the names and contact addresses of the referees, so that the committee can contact them independently. Details of such systems with model numbers and users should be provided.
12. **The quotations should be on FOR-IISc Bangalore basis in INR only. Please quote the price of each optional line item, separately.**

**All the proposals should be addressed to:**

The Chairperson,  
Attn: Dr. Sreetosh Goswami  
Centre for Nano Science and Engineering  
Indian Institute of Science  
Bangalore – 560012, India

The 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 deadline of November 16, 2021, 5:00 pm Indian Standard Time. The parcels should be delivered between 9 am to 5 pm.

Questions regarding this tender should be addressed to Dr. Sreetosh Goswami at the email address [sreetosh@iisc.ac.in](mailto:sreetosh@iisc.ac.in) with the subject line “Query \_Tool name\_Bidder’s name”.

Post such submission all vendors should send an email to [sreetosh@iisc.ac.in](mailto: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 90 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. 100% payments will be released after the completion of delivery and satisfactory installation subject to TDS as per rules. As per GFR no advance payment can be made to domestic vendors, unless an equal amount of bank guarantee is provided.
10. The bidder is responsible for the installation of the equipment in the IISc campus.
11. Necessary training to operate the procured setup and required literature support (in English language) should be provided without additional cost.
12. Bidders should undertake to support the system with spares and software bugfixes, if any, at least for the next 5 years.
13. Data must be supplied along with the technical compliance documents. Technical bids without supporting data can be deemed as technically non-compliant.
14. Printed literature and published papers in support of all compliance to the prescribed specifications are encouraged.
15. 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.
16. 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.
17. 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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