

**Request for Quote (RFQ) from domestic (India-based) manufacturers,  
Indian original equipment manufacturer or its authorized Indian distributor  
for two rotary evaporators with vacuum pumps and chillers**

**Summary**

Tender number: OC/DPH/2021/Rotary Evaporators, Vacuum pumps, and Chillers  
Tender date: 9<sup>th</sup> August 2021  
Item description: Two rotary evaporators with vacuum pumps and chillers  
Tender type: Two bid system:  
Technical Bid (Part A)  
Commercial Bid (Part B)  
Place of tender submission: Office of the Chairman  
Department of Organic Chemistry  
Indian Institute of Science  
Bangalore 560012  
Last date & time for  
Submission of tender: 23<sup>rd</sup> August 2021, 5:00 PM

Dear Sir/Madam,

This is a Request for Quote (RFQ) from domestic (India-based) manufacturers, Indian OEM, or its authorized Indian distributor only for procurement of two rotary evaporators with vacuum pumps and chillers at the Department of Organic Chemistry (OC), Indian Institute of Science, Bangalore.

All interested vendors shall submit a response demonstrating their capabilities to produce the requested equipment to the primary point of contact listed below.

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. As per this order, the government has defined a 'Class-I local supplier' as "a supplier or service provider whose goods, services or work offered for procurement, has local content equal to or more than 50%". A 'Class-II local supplier' is "a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%". Only Class-I and Class-II local suppliers are eligible to participate in this open domestic tender. Any "Non-local supplier," i.e., "a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%" is ineligible to participate in this tender.

The deadline for submission of proposals is 23<sup>rd</sup> August 2021 by 5:00 PM. Proposals should arrive at:

Office of the Chairman  
Department of Organic Chemistry  
Indian Institute of Science  
Bangalore 560012  
India

Direct all questions concerning the acquisition to Dr. Durga Prasada Rao Hari by email only at: [dphari@iisc.ac.in](mailto:dphari@iisc.ac.in)

### **General Terms and Conditions**

1. Quote should come only from domestic (India-based) manufacturers, Indian original equipment manufacturer (OEM), or their authorized Indian distributor.
2. The bid should be submitted in the two-cover system, i.e., technical and commercial bids separately in sealed envelopes. The technical bid should contain all commercial terms and conditions, except the price.
3. The technical bid must contain a point-by-point technical compliance document. The technical proposal should include a compliance table that should explain your compliance in a "yes" or "no" response against each of the items in the table listed in this RFQ. If the answer is "no," the second column should state the extent of the deviation. The third column should state the reason for the deviation if any. The fourth column can be used to compare your tool with that of your competitors or provide details as requested in the technical requirement table below.
4. In the commercial bid, the price (in INR) should include all discounts.
5. Provide certificates for the country origin of manufacturing for each line item. 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.

6. The vendor should have qualified technical service personnel for the equipment based in India (preferably in Bangalore).
7. The covering letter should clearly state that whether the vendor is a Class-I or Class-II local supplier. Failing this, the bid will be automatically rejected.
8. The vendor to 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.
9. The lead time for the delivery of the equipment should not be more than three months from the date of receipt of our purchase order. It should be clearly mentioned in the technical and commercial bids.
10. All the quotations must be valid for at least 90 days at the time of submission.
11. list of customers and references: The Bidder should have supplied similar equipment in Central Universities, preferably in centrally Funded Technical Institutes (IITs, IISC, IISER, NIT). Please provide the details and contact information.
12. The Bidder must not be blocked/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.
13. Items in addition to that listed in the technical table that you would like to bring to our attention, such as datasheets, technical plots, etc. can be listed at the end of the compliance table.
14. Vendors are encouraged to highlight the advantage of their tools over comparable tools from the competitors.
15. If needed, a meeting for any technical clarifications can be scheduled with the undersigned by sending an email.
16. The Institute reserves the right to accept or reject any bid or to annul the bidding process and reject all bids at any time before the award of contract without thereby incurring any liability of the affected bidder or bidders.
17. Warranty terms and additional warranty options are a must for all the components. Please specify the service plan like whether the local distributor will address the issue or the parent company. Minimum one year of complete system warranty.
18. Terms and conditions for the annual maintenance contract beyond the warranty period should be mentioned.
19. After the purchase order award, the vendor must provide an Order Acknowledgement within 30 days from the receipt of the Purchase Order.
- 21 Please quote the price of each optional line item separately. The quotations should be on for-IISc Bangalore basis in INR only.
- 22 The vendor should have a good track record of having previously supplied rotary evaporators with vacuum pumps and chillers (10 or more) in IISC, Bangalore (please furnish details).
- 23 If the goods are found to be defective, they have to be replaced or rectified at the cost of the supplier within 30 days from the date of receipt of written communication from us. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

Technical requirements: Please note that the requirements listed below are only guidelines. Vendors are requested to quote for equipment that meets the criteria to the best extent possible and list deviations, if any. Deviations are NOT an automatic reason for disqualification. A technical group will discuss them before making an informed decision.

## Technical specifications

### Rotary evaporator:

- Display: Digital LCD display of set and actual bath temperature & rotation speed
- Evaporation flask Capacity: 50 mL to 5 L
- Rotation Speed: 10 – 280 rpm
- Bath temperature: Universal bath from 20 °C to 210 °C with an accuracy of  $\pm 1$  °C
- Bath Capacity: 4 – 5 L and metal base support to avoid instability
- Overheat cut-off protection at 5 °C over the set temperature
- Condenser – Reflux with condensing surface is 1400 cm<sup>2</sup> or more.
- Height adjustment up to 155 mm with manually adjustable stop-end limiter & inclination angle of 20 °C – 80 °C to suit smaller flasks
- Seal: highly durable PTFE seal
- Vacuum release: Grease free cap
- Safety: Separate operating knobs for adjusting heating & rotation speed
- Locking facility for bath temperature and rotation speed
- Display of residual heat for higher safety
- Detachable operating panel to safeguard electronic components
- Vapor tube with a sleeve to allow easy removal and cleaning
- Clip with integrated screw thread for fixing and removal of evaporation flasks
- Heating Power Consumption: 1400 W
- Operating Voltage / Frequency: 230 V, 50 Hz
- Should provide CE and ISO certification
- The system should be supplied with 1 L evaporation and receiving flask

### Vacuum pump:

- Pump type: Two stages chemical resistance oil-free diaphragm pump
- Ultimate vacuum 5 – 10 mbar
- Manual Vacuum gauge to set and regulate vacuum, to be supplied with a support system to fix on the evaporator
- Pressure ranges from 0 - 1,020 mbar in 50 mbar graduations
- Should provide CE and ISO certification

### Chiller:

- Temperature Range: -10 °C to +100 °C with an accuracy of  $\pm 0.2$  C
- LCD Microprocessor Digital controller with Timer function
- Cooling capacity: 800 watts@ 20 °C
- Reservoir capacity: 4.5 L and flow rate 8 L/min
- Audible and visual alarm for temperature and water level
- Power supply: 230V, 50Hz
- Tubing for the connection to Rotary evaporator, pump & chiller needs to be supplied

### Other requirements:

- Installation and Training: should be provided free of cost.
- The cost of shipping to IISc should be included.
- List of acceptance tests for on-site (vendor) inspection and after installation at IISc.
- A set of basic experiments for performing routine checks of acceptable operation with clear instructions to be provided.

- The payment terms should be specified in the commercial proposal, which should be consistent with IISc's domestic purchase policies.
- Please provide details of the number of trained personnel in India, the number in the southern region, or Bangalore who can service the instrument.
- Please include other options currently available which can be added in the future.

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Indian Institute of Science  
Bangalore 560012  
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