

**Department of chemistry
University of Kerala,
Kariavattom, Thiruvananthapuram-695581
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No. DC/ST/Eq/1/2018-19

E-TENDER NOTICE

Tenders are invited for the "Supply, Installation and commissioning of **Rotary evaporator with vacuum pump and chiller circulator**" through e-tender only.

Tender notification Date	:- 05/10/2018
Last date of issuing tender document through www.etenders.kerala.gov.in	:- 23/10/2018
Last date of Receiving e-tender through www.etenders.kerala.gov.in	:- 23/10/2018
Date of Opening Technical Bid	:- 26/10/2018
Date of Opening Financial Bid	:- After Technical Evaluation
Earnest money Deposit	:- INR 6,000/-
Tender fee	:- INR 1416/-

Tender Submission: - Two part tender comprising of Technical bid and Financial Bid shall be submitted through e-tender website www.etenders.kerala.gov.in

Tender Inviting authority: Assistant Professor and Head, Department of Chemistry, University of Kerala, Kariavattom Campus, Thriuvananthapuram, Kerala-695581.

Specification of Rotary evaporator with vacuum pump and chiller circulator

Specifications:

Rotary evaporator

- Hand lift model, Voltage/Frequency: 220-240 V, 50 Hz Heating Power Consumption: 1300 W
- Digital display for set and actual bath temperature.
- Rotation Speed 20-280rpm
- Separate ON/OFF switches for heating bath and rotation.
- Universal heating bath for oil & water ambient to 210°C and the accuracy of $\pm 1^\circ\text{C}$
- Bath volume should be minimum 4Litres.
- Heating bath metal base support to avoid instability.

- The system should accommodate 50 mL to 5000 mL with single Joint size.
- Clamping sleeve for prevention from breakage
- Grease free PTFE valves for vacuum release, solvent feeding and avoid glass breakage.
- Condenser clamp should be supplied with system for higher safety
- PTFE vacuum seal
- Detachable panel to control all parameters from outside closed fume hood and safeguard all electronic components.
- CE certification

Vacuum Pump

- Final vacuum of approx. 20 mbar for quicker drying of samples
- Suction Capacity at least 0.75m³/hr
- Chemical Resistance –PTFE coated
- Two stage diaphragm pump for low maintenance

Recirculating Chiller

- Temperature range 0°C to 100°C
- Temperature accuracy $\pm 0.2^{\circ}\text{C}$
- 200 Watt Cooling Capacity at 20°.
- Tank Volume should be minimum 6L and Possibility to use as a Water bath
- Necessary Tubing to be provided from original equipment manufacturer
- Operating voltage – 230V

Warranty:

- **3 years warranty** should be quoted for rotary evaporator, vacuum pump and chiller.

Documents to be Uploaded

1. Signed Compliance Matrix on specifications
2. Detailed Technical Brochure
3. BoQ
4. Hard copy of Bank Guarantee if opted

Terms and conditions:

1. The Bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender. Certificate to this effect should also be included in the quotation.
2. The price quoted should be inclusive for supply, installation, demonstration and testing at the University campus, Kariavattom, Trivandrum.

3. The price should be inclusive of all taxes. It should also include all incidental expenses, if any, till complete satisfactory demonstration.
4. Users list of the specified model, preferably from research centers within Kerala, Names of Institutes with contact person and telephone/email shall be mentioned in the bid.
5. Performance Certificate from at least 3 research centers, preferably in Kerala shall be an added advantage.
6. The supplier should be fully equipped to render after sale service during warranty and thereafter, facility for servicing/maintenance of the equipment after sales should be clearly mentioned in the quotation.
7. The item should be supplied and installed within eight weeks after the release of purchase order.
8. Payment will only be made after satisfactory delivery, installation and demonstration of the equipment.
9. The University of Kerala reserves the right to accept or reject any or all tenders without assigning any reason thereof. In case of any dispute the decision of the University Authority shall be final.

The Head
Department of Chemistry
University of Kerala