

Department of chemistry
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Quotation Notice

Competitive sealed quotations are invited from various firms for the purchase of following equipments (Item 1: Rotary evaporator and Item 2: muffle furnace) from the "State Plan Fund". The quotations in sealed covers addressed to the Assistant Professor & Head, Department of Chemistry, University of Kerala, Kariavattom Campus, Thiruvananthapuram-695581. Separate quotations should be provided for each item, superscribing "Quotation for rotary evaporator" or "Quotation for muffle furnace", and should reach the department on or before 18.05.2018, 3.00 p.m. The tenders will be opened on the same day at 4.00 p.m.

Item 1: 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.

Item 2 : Muffle Furnace

Specifications :

Inner Dimension- 300 x 300 x 600mm (LxHxD)

Maximum Temperature- 1400°C

Continuous Operating Temperature- 1300°C

Heating Element- Silicon Carbide

Thermocouple- R Type

Accuracy- $\pm 1^{\circ}\text{C}$

Heat Up Time- 1hr

Insulation- Tightly Packed Super Quality Fiber Material

Microprocessor Based Digital Programmable Temperature Controller

Thyristor Power Control device

Adjustable Over Temperature Protection

Main Isolation Switch

Pilot Indicating Light

Bogie Hearth

Vertical Lifting Door

Modified Atmosphere Capability

Peep Hole with a Shutter

Warranty: Two years comprehensive Warranty is required wherever applicable. If any component including heating element, control unit, thermocouple is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost

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.

Head,
Department of Chemistry,
University of Kerala,
Trivandrum.