

**INTER UNIVERSITY INSTRUMENTATION CENTRE  
MAHATMA GANDHI UNIVERSITY**

**QUOTATION NOTICE FOR PURCHASE OF SCIENTIFIC EQUIPMENTS**

QUOTATION NOTICE No: IUIC/MGU/2023/01

Date: 13/03/2023

Quotations are invited for the Purchase of Scientific Equipments for Inter University Instrumentation Centre, School of Environmental Sciences, Mahatma Gandhi University, Kottayam.

Sl.No	Scheduled Item	Specification	Qty
1	<b>Upright Freezer</b>	<ul style="list-style-type: none"> <li>• Frost Free T type with 151-liter capacity</li> <li>• Air Cooling Technology</li> <li>• Temperature range: +4 to -25°C</li> <li>• Refrigerant type: R600a</li> <li>• Defrost Option: Auto</li> <li>• Power Consumption -1-1.5 KWh/24 Hour</li> <li>• Digital temperature controller with Light Emittted Diode Temperature Display</li> <li>• Different modes (freeze, soft freeze, fridge) &amp; Safety from accidental setting changes, door-open alarm, over-temperature alarm</li> <li>• Fault display, with Display sleep option-</li> <li>• With a Digital Voltage Stabilizer</li> <li>• Warranty- 1 year</li> </ul>	1
2	<b>PERISTALTIC PUMP</b>	<ul style="list-style-type: none"> <li>• No of Channel – One</li> <li>• Flow Rate -1- 50 ml/min</li> <li>• With ON/OFF control – Instant START/STOP</li> <li>• Programmable Timer Mode</li> <li>• Digital LCD Display OF RPM</li> <li>• Variable speed (RPM)</li> <li>• Pump Head – Engineering ABS</li> <li>• MOC – SS 304</li> <li>• Bi-directional (Clockwise, Anticlockwise)</li> <li>• Accuracy – Better than +/- 0.5 %</li> <li>• Microprocessor Based Gearless Stepper Motor Drive for Precise dosing</li> <li>• No of Rollers -02 (Dual Roller with spring loaded Track)</li> </ul>	1

		<ul style="list-style-type: none"> <li>• RPM: 1 to 300</li> <li>• Operation: 100% duty cycle –Continuous</li> <li>• Roller and Rotor – SS 304</li> <li>• Discharge Pressure: 2 bar at maximum rpm</li> <li>• Weight Approx. - 6 Kg</li> <li>• Approx. Dimensions - 250x305x300 MM</li> <li>• Operating Environment temperature - 30-60 degree Celsius</li> <li>• Operating Environment humidity - 40-70%</li> <li>• 5 meter length of compatible tubing for pH 2-10 and organic (PP/PEEK) with suitable dimensions for sample delivery</li> </ul>	
3	<b>CE certified ULTRASONIC BATH</b>	<ul style="list-style-type: none"> <li>• Stainless steel Tank size- 300 x 150 x 100 mm <ul style="list-style-type: none"> <li>➤ Capacity-3.5 Litres</li> </ul> </li> <li>• Ultrasonic Power – 120 W</li> <li>• Based on cavitation phenomenon</li> <li>• Ultrasonic Frequency -33+/- 3Khz</li> <li>• With Digital Timer &amp; Heating Facility</li> <li>• Digital temperature controller with auto tuning</li> <li>• Manufacturer should be ISO 9002 certified <ul style="list-style-type: none"> <li>➤ Accessories-SS vessels- holding basket</li> <li>➤ Weight rings for volumetric flask/measuring cylinder (Inner dia 20 mm-2 no, Inner dia 30 mm-2 no, Inner dia 50mm-2no)</li> </ul> </li> </ul>	1
4	<b>PROGRAMMABLE LABORATORY HOT AIR OVEN INNER SIZE - (90-100L)</b>	<ul style="list-style-type: none"> <li>• ISO &amp; CE certified manufacturer</li> <li>• Temperature Range: Ambient to 250°C</li> <li>• Temperature Controller: PID Controller with Pt100 Sensor</li> <li>• Display of set value &amp; present value</li> <li>• In-built 16 Segment Ramp/Soak/Spike Profile</li> <li>• Programmable, with Status Indications</li> <li>• Alarm Parameters Type: Process Low, Process High</li> <li>• Serial Communication for data transfer</li> <li>• Power-fail Recovery Servo Start</li> <li>• Display Range- -1999 to 9999 Counts</li> <li>• Temperature Accuracy: +/- 1°C or Better</li> <li>• Inner Chamber: Stainless steel</li> <li>• Insulation : Fiber Glass Wool</li> <li>• Exterior : Powder coated GI sheet</li> <li>• Shelves : minimum 2 SS Wire mesh Trays (Removable)</li> <li>• Door: Insulated with Spring Latch Lock</li> <li>• Vent Port: 2 Fume vent Ports (Adjustable)</li> </ul>	1

		<ul style="list-style-type: none"><li>• Power Supply: 230V +/- 10% 50Hz</li></ul>	
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Completed quotations should be submitted to the Director, Inter University Instrumentation Centre, School of Environmental Sciences, Mahatma Gandhi University, Kottayam- 686 560, Kerala.

Last date for submission of completed Quotations: Till 12.00 P.M on March 20<sup>th</sup>, 2023

Date of opening of Quotations: on the same day at 3.00 p.m