

**Advanced Centre for Regenerative Medicine and Stem Cell Research in  
Cutaneous Biology (AcREM-Stem)  
University of Kerala, Kariavattom,  
Thiruvananthapuram-695581**

**Date: 23.07.2025**

Competitive Sealed **Quotations** are invited for the purchase of **Autoclave, BOD incubator and Weighing Balance** with make and specification detailed below. Sealed quotations addressed to **The Honorable Director of AcREM-Stem, Department of Zoology, University of Kerala, Kariavattom Campus, Thiruvananthapuram- 695 581** should reach on or before **30/07/2025, 2.00 pm**. The quotation will be opened at **2.00 pm on 31/07/2025** at AcREM-Stem, Department of Zoology, University of Kerala, Kariavattom campus.

**1. Autoclave (1No)**

<b>Sl. No.</b>	<b>Specification</b>	<b>Description</b>
1	<b>Type</b>	It should be a vertical top loading cylindrical type, triple walled construction, inner body with stainless steel 304 or higher-grade steel
2	<b>Working temperature</b>	It should come with 125 degrees Celsius working temperature
3	<b>Capacity (L)</b>	It should have sterilizer chamber capacity of 75-80 litres
4	<b>Heater type</b>	ISI quality immersion type
5	<b>Working pressure requirement</b>	The working pressure of chamber should have at least 20 pounds per square inch
6	<b>Safety and protection</b>	<ul style="list-style-type: none"><li>It should come with a controller of auto set to 15psi &amp; 121°C</li><li>Lid should be fitted with pressure guage, safety valve, exhaust valve, vacuum breaker</li></ul>

		<ul style="list-style-type: none"> <li>• Silicon rubber gasket should be fitted in the ring to ensure steam tight joint of the lid and suitable to withstand temperature up to 140° C &amp; pressure up to 20-30 psi</li> <li>• Digital temperature cum indicator</li> <li>• Digital timer</li> <li>• Auto pressure cut off</li> <li>• Water level indicator with glass tube</li> <li>• Autopurging and exhaust with solenoid valve</li> </ul>
7	<b>Door operation</b>	<ul style="list-style-type: none"> <li>• It should come with manual sterilizer chamber door operation.</li> <li>• Foot operated lifting mechanism should be there for lid opening</li> </ul>
8	<b>Electrical Requirements</b>	3 KW
9	<b>Certification</b>	ISO, CE certification
10	<b>Accessories</b>	Perforated stainless steel basket and heat resistant glouze should be supplied
11	<b>Installation</b>	Installation and training should be given by an expert technician of the company
12	<b>Warranty</b>	Warranty 3 years from the date of installation

**\*General Terms and Conditions:**

- Nearest Service station- In Kerala, preferably in Thiruvananthapuram
- A performance certificate with two phone numbers and authorization certificate should be submitted (from an authorized govt. institute)
- 3 years fixed rate for Comprehensive AMC

**2. Weighing Balance (1 No)**

Sl. No.	Specification	Description
1	Capacity (g)	200 to 250
2	Readability (mg)	0.01
3	Repeatability (mg)	0.02
4	Linearity (mg)	Nearly 0.065
5	Calibration Type	External auto adjustment
6	Unit	Gram, milligram, cent
7	Pan size	90 mm
8	Draft Shield Type	Should have Draft Shield with acrylic glass. Automatic draft shield with integrated ionizer and learning capability.
9	Display	LCD/LED
10	Sensitivity drift between +10 °C and +30 °C	1 ppm/K
11	Output	RS232, USB
12	Battery	Lithium battery
13	Electrical Requirements	100/240V 50/60 Hz
14	Leveling	Level indicator, adjustable leveling feet
15	Certification	ISO, CE certification
16	Accessories	Standard accessories
17	Warranty	Warranty 3 years from the date of installation

***\*General Terms and Conditions:***

- . Nearest Service station- In Kerala, preferably in Thiruvananthapuram*
- . A performance certificate with two phone numbers and authorization certificate should be submitted (from an authorized govt. institute)*
- . Relevant supporting documents and Datasheet should be submitted*
- . Two years fixed rate for Comprehensive AMC*

**3. BOD INCUBATOR (1 No)**

<b>SL NO</b>	<b>Specifications</b>	<b>Description</b>
<b>1</b>	<b>Function</b>	<b>Provides the required temperature for the growth of organisms</b>
<b>2</b>	<b>Material</b>	<b>Stainless steel</b>
<b>3</b>	<b>Construction</b>	<b>Double-walled with Insulation</b>
<b>4</b>	<b>Exterior door</b>	<b>Solid door with locking option</b>
<b>5</b>	<b>Inner door</b>	<b>Glassdoor to view samples</b>
<b>6</b>	<b>Tray</b>	<b>Removable trays; 4 (Adjustable)</b>
<b>7</b>	<b>Interior illumination</b>	<ul style="list-style-type: none"> <li><b>Fluorescent/LED Dim Light with Timer:</b> Install a dimmable fluorescent or LED light equipped with an automatic ON/OFF timer.</li> <li><b>Fluorescent/LED Door Lighting:</b> Provide three fluorescent or LED tube lights mounted inside the incubator. These lights should automatically turn ON when the door is opened and turn OFF when the door is closed.</li> </ul>
<b>8</b>	<b>Heating element</b>	<b>Tubular heaters</b>
<b>9</b>	<b>Refrigeration system</b>	<b>CFC free</b>
<b>10</b>	<b>Air circulation</b>	<b>Motor blower/ Fan</b>

11	<b>Temperature</b> <ul style="list-style-type: none"><li>• Range</li><li>• Accuracy</li><li>• Uniformity</li><li>• Controller</li></ul>	<ul style="list-style-type: none"><li>• 5°C-60°C</li><li>• ± 0.5°C</li><li>• ± 1°C</li><li>• PID temperature controller</li><li>• LED display of SV and PV</li></ul>
12	<b>Power supply</b>	220-230 V, 50-60 Hz
13	<b>Capacity</b>	300L- 350L
14	<b>Protection/Safety</b>	Temperature protection needed when the set temperature is changed Temperature High / Low alarm is needed Circuit breaker and fuses are needed
15	<b>Certification</b>	ISO and CE certifications are needed
16	<b>Display</b>	Digital
17	<b>Plug type</b>	Type D/M
18	<b>Accessories</b>	<ul style="list-style-type: none"><li>• 2 additional stainless steel trays are needed</li><li>• All standard accessories are needed</li></ul>
19	<b>Installation</b>	<ul style="list-style-type: none"><li>• Installation and training should be given by an expert technician of the company</li></ul>
20	<b>Warranty</b>	<ul style="list-style-type: none"><li>• 3 years from the date of installation</li></ul>

***\*General Terms and Conditions:***

- *Nearest Service station- In Kerala, preferably in Thiruvananthapuram*
- *A performance certificate with two phone numbers and authorization certificate should be submitted (from an authorized govt. institute)*
- *Two years fixed rate for Comprehensive AMC*