

**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)

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

		<ul style="list-style-type: none"> • 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 & pressure up to 20-30 psi • Digital temperature cum indicator • Digital timer • Auto pressure cut off • Water level indicator with glass tube • Autopurging and exhaust with solenoid valve
7	Door operation	<ul style="list-style-type: none"> • It should come with manual sterilizer chamber door operation. • Foot operated lifting mechanism should be there for lid opening
8	Electrical Requirements	3 KW
9	Certification	ISO, CE certification
10	Accessories	Perforated stainless steel basket and heat resistant glove should be supplied
11	Installation	Installation and training should be given by an expert technician of the company
12	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)
- . 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

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- . Relevant supporting documents and Datasheet should be submitted***
- . Two years fixed rate for Comprehensive AMC***

3. BOD INCUBATOR (1 No)

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

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

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