

**Office of the Dean Research and Development
Indian Institute of Engineering Science & Technology (IEST), Shibpur
Howrah-711 103**

Project Code: DRC/SERB/SMSE/PS/023/16-17

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CORRIENGENDUM:

The revised specifications of Incubator Shaker will be as follow:

1. SHAKING PORTION :

The orbital shaking mechanism must be built with precision for continuous service and reproducible agitation. Acting through a triple eccentric drive transmission, a powerful ball bearing DC motor should rotate the shaking platform horizontally in a circular orbit describing a 25 mm circle.

2. SPECIFICATION OF CONTROL PANEL :

All controls are externally mounted and include all necessary switches and Indicating lamps for Main, Cooling, Heating and Shaking Mechanism. The Digital Temperature Controller, Speed regulator knob, RPM Meter also mounted on the panel.

3. TECHNICAL SPECIFICATIONS :

Size of BOD Incubation Chamber	60x 60 x 75 (10 Cuft.) (285 Lit)
Temperature Range	5 ^o C to 60 ^o C. with $\pm 0.5^{\circ}$ C to 1 ^o C
Temperature Control	By Microprocessor Based Digital Temperature Indicator cum controller
Air Circulation	Blower fan to operate alternatively ensuring prolonged operational life
Shaking Speed	40 to 250 RPM
Shaking Motor	PMDC Drive Motor
Speed Control	Stepless speed regulator
Shaking Tray Size	20" x 20" and can accommodate 500 ml, 250 ml and 100ml conical flasks
Shaking Tray	One No(Stainless Steel).
Static Tray	One No Perforated Stainless Steel Tray 18 Gauge AISI 304 Grade
Safety Device	A built-in delay relay system is provided in the control circuit to safeguard the refrigeration compressor against abrupt starting in the event of restoration of power after load shedding.
Chamber illumination	with the help of 2 Nos CFL Lamp
Operating Voltage	220/230 V. AC. Single Phase, 50 Hz

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