

## Specification of approved MODROB items for Biomedical Engineering

Sl. No.	Item	Specification	Technical Specification
1	Cone & Plate Viscometer	Capacity: .5 ml to 2.0 ml of sample fluid, accuracy: $\pm 1.0\%$ , Auto-range function working temp $0^{\circ}\text{C}$ to $100^{\circ}\text{C}$	<ul style="list-style-type: none"> <li>• High stability motor speed control for accuracy and repeatability of measurement</li> <li>• Result displayed on screen</li> <li>• Precision temperature control</li> <li>• Accurate wear resistant Cone &amp; Plate</li> <li>• Accuracy: <math>\pm 1.0\%</math> of range</li> <li>• Repeatability: <math>\pm 0.5\%</math></li> <li>• Measurement range: 40 to 141 KU, 32 to 1099 gm, and 27 to 5274 cP</li> </ul>
2	Digital Strain Gauge Indicator	Quarter-, half- and full- bridge circuits, LCD display, gage factor setting range: 0.5 to 9.9	<ul style="list-style-type: none"> <li>• Alphanumeric LCD Display ,Shape Rectangular</li> <li>• Power Supply 230 V AC</li> <li>• Micro controller based, Accuracy 0.1%</li> <li>• Membrane keypad</li> <li>• Set points with relay</li> <li>• Application Software for Computerized operation, USB interface</li> <li>• 2 Channel (<math>3\frac{1}{2}</math> digital display)</li> <li>• Acceptable Inputs- Load Cell, Strain Gauge, LVDT, Pressure Sensors, Thermocouples</li> </ul>
3	Vickers hardness tester	Force: 5 kgf. to 50 kgf, test blocks for calibration, pyramid shaped diamond indenter	<ul style="list-style-type: none"> <li>• Loading and unloading cycle is motorized.</li> <li>• Built-in projection screen to get accurate results.</li> <li>• Test Loads: 5, 10, 20, 30, 50 kgf</li> <li>• Optical Magnification: 70X</li> <li>• Optical Measuring Range (mm): 0.1 to 1.0</li> <li>• Maximum Test Height (mm): 200-250</li> <li>• Scale Least Count (mm): 0.001</li> <li>• Throat Depth (mm): 135 -150</li> <li>• Power Supply: 220 V AC, 50 Hz</li> </ul>
4	BOD Incubator	Temp. $+0^{\circ}\text{C}$ to $+80^{\circ}\text{C}$ , accuracy $\pm 0.1^{\circ}\text{C}$ , 4-6 chambers, digital display	<ul style="list-style-type: none"> <li>• Construction double walled</li> <li>• Inner chamber made of Stainless steel</li> <li>• Outer chamber made of mild steel</li> <li>• Insulated door with magnetic gasket</li> <li>• Inspection ease view glass</li> <li>• Thermostat temperature control</li> <li>• Digital display of temperature</li> <li>• Partitioned compartments with evaporator, air circulator and heater</li> <li>• Temperature ranges from <math>0^{\circ}\text{C}</math> to <math>80^{\circ}\text{C}</math></li> </ul>