



## Notice Inviting e-Tender

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**Supply and Commissioning of Medical equipment for 02 (two) new Government**  
**Medical College & Hospital, Dept. Of Microbiology**

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-153 /2023

Dated- 31.03.2023

### **AMENDMENT-I**

### **REVISED TECHNICAL SPECIFICATION**

Item No.	Item Name	Technical Specification
Item No. 1	Micro Centrifuge	<ol style="list-style-type: none"><li>1. It should be a digital micro centrifuge designed for small sample volume.</li><li>2. It should have sturdy and durable metal housing.</li><li>3. It should have auto-balancing system.</li><li>4. Rotor speed should be at least 12000 RPM.</li><li>5. It should have safety interlock that can prevent the lid from being opened during operation.</li><li>6. Overheating of motor should be prevented.</li><li>7. It should have a precision digital timer that can be set from 0 to 15 minutes at 1 min. increment.</li><li>8. It should have LED digital display that enables user to monitor the present speed or the remaining time.</li><li>9. It should have automatic brake system for rapid deceleration.</li><li>10. The lid can be opened automatically/ through switch once the rotor stops spinning.</li><li>11. It should accommodate micro or microhematocrit rotors.</li><li>12. Should be supplied with lid cover (01)</li><li>13. Number of tubes 12 nos.</li><li>14. Tube capacity 1.5- 2.0 ml</li><li>15. STANDARD &amp; SAFETY Certification: CE / EC / UK Cert</li></ol>

Item No.	Item Name	Technical Specification
		/ US FDA / BIS
Item No. 2	Refrigerated Centrifuge	<p>Table top centrifuge with maintenance free brushless motor and have low access height CFC free refrigerant LCD Digital Display of time, speed and Temperature and run conditions Compatible with all fixed angle and swinging bucket rotors Automatic rotor recognition facility Automatic imbalance detection and cut-off Should be programmable with easy preset programs for fast temperature for pre-cooling and short spin. Should have motorized lid lock system.</p> <p>Temperature Range: 0°C to 30°C</p> <p>Speed: Maximum speed: 20000 RPM (with no load)</p> <p>Rotors: <b>Fixed Angle Rotor</b> for 50 ml bottles 15 ml Falcon tube 1.5-2.0 mL Eppendorf tubes and adaptors for 0.2- and 0.5-mL tubes/ Eppendorf</p> <p><b>Rotor for 2.0 mL Eppendorf tubes (24 places or better) with RPM 20000</b></p> <p><b>Deep-well micro</b> plates rotor Two 96 well plates for swing out type with RPM <b>3000-3500</b></p> <p>Swing out rotor:</p> <p>Accessories: Bottles, falcon tubes, adapters etc One set of Other items (rotors/adapters) required for improving the applicability/system performance should to be quoted as optional</p> <p>Should carry out yearly PM with at least one PM kit</p> <p>Power Requirement: 220 v to 240 v -50 Hz If a voltage stabilizer is required, it should be supplied along with the unit</p> <p>Voltage stabilizer: Suitable voltage stabilizer to be provided</p> <p><b>STANDARD &amp; SAFETY Certification: CE / EC / UK Cert / US FDA / BIS</b></p>
Item No. 3	Laminar Flow	<p>Size: 4 x 2 x 2 (ft)</p> <p>Inner and outer chamber: SS304</p> <p>Air flow: Vertical</p> <p>Air Velocity: between 0.4 to 0.5 m/s ±20%</p> <p>HEPA Efficiency Pre-filter - 99.997% at 0.3 microns with DOP test Washable with an arrestance up to 90% at 5 microns</p> <p>Sound Level - Less than 65 dB (Acoustic)</p> <p>UV light source and visual light source Light Intensity (visual): Lux 900 to 1300 Lux</p> <p>Federal Power Supply: 220 V Single phase 50 Hz</p> <p><b>Certification: CE / EC / UK Cert / US FDA / BIS</b></p>
Item No. 4	Centrifuge	<p>RPM: up to <b>3500-4000</b> (adjustable)</p> <p>Type of Motor: Brushless (without carbons)</p> <p>Ambient operating Temperature range in Degree centigrade Celsius and humidity range: 0 to 50 degree centigrade and Relative humidity 15 to 90%</p> <p>Speed Control Accuracy in case of set speed (Plus minus RPM ): 50</p> <p>Rotor configuration: Angle Rotor</p> <p>Maximum Volume of the tube testable: 10 ml.</p>

Item No.	Item Name	Technical Specification
		<p>Rotor Size (Capacity): 16 Vacutainers</p> <p>Body Material of Medical Centrifuge: C.R.C Steel Finish with Powder Coating or stove painting / ABS plastic of injection moulding.</p> <p>Warranty in Years: 2</p> <p>Additional adapter: 6 ml. adapter 16 units</p> <p><b>Certification: CE / EC / UK Cert / US FDA / BIS</b></p>