

### **Sealed Quotation Notice**

Sealed Quotations are invited from eligible bidders for the Supply of following Lab Equipment

1. Air sampler system complete kit with accessories
2. Membrane filtration apparatus
3. Digital Colony counter

Last date and time of Receipt of Tender : 08.04.2023 5 PM

Date and Time of Opening of Tender : 10.04.2023 10 AM

### **Technical Specifications**

#### **1. Air sampler system complete kit with accessories**

Sl. No	Parameters	Technical specifications
1.	Particulate capture Mechanism	Sieve impaction
2.	Flow rate	30,60,100 litres per minute
3.	Particle diameter cut off size	1.3µm
4.	Perforation diameter	1 mm
5	Sampling volume	1600L
6.	Sampling time	10 minutes
7.	Agar volume	20 mL
8.	Dimension	210 X 110 X 220 mm (W X D X H)
9.	Case	Powder Coated Aluminium Housing.
10.	Sampling head	90 mm head: Autoclavable anodised aluminium head, with 380 holes (Ø 1 mm).

11.	Plate support	Autoclavable anodised aluminium plate support for 90 mm $\pm$ 2 plates.
12.	Input supply	230 VCA, 50Hz, 1Ph.
13.	Brand	Himedia, Product code : LA637
<b>14.</b>	<b>Approximate cost</b>	<b>RS.2,00000/-</b>

## 2. MEMBRANE FILTRATION APPARATUS WITH NITROCELLULOSE MEMBRANES, MEDIA AND VACUUM PUMP COMPLETE ASSEMBLY

1	Membrane filtration apparatus with nitrocellulose membranes, media and vacuum pump Complete assembly	<ul style="list-style-type: none"> <li>✓ Filtration Assembly Made of borosilicate glass with fritted glass filter base</li> <li>✓ Silicon stopper – 47 mm</li> <li>✓ Integral vacuum connection located above the filtrate drip to prevent contamination of the vacuum line from droplets</li> <li>✓ The filtration base with Silicon Stopper</li> <li>✓ Anodised aluminium spring clamp</li> <li>✓ Filter size must be 47mm</li> <li>✓ Effective filtration area should be 9.6 cm<sup>2</sup></li> <li>✓ Facilitates analysis of particulate or biological contamination of vacuum filtering liquid</li> <li>✓ Equipped with scaled funnel for simplifying dosing</li> <li>✓ Filtration capacity 1000ml and 47mm filtration base</li> <li>✓ <b>Spare parts :</b> <ul style="list-style-type: none"> <li>• Flask For Filter Holder</li> <li>• Funnel For Filter Holder</li> <li>• Filter Support Base</li> <li>• Filter Holder With Silicon Aluminium Clamp for Filter Holder</li> </ul> </li> <li>✓ <b>Vaccum pump</b> <ul style="list-style-type: none"> <li>• Power (V / Hz) 220 / 50</li> <li>• Max. power (W) 60</li> <li>• Max. current (A) 0.3</li> <li>• Max. vacuum (mbar) 100</li> <li>• Max. flow rate (L/min) 17</li> </ul> </li> </ul>
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		<ul style="list-style-type: none"> <li>• Motor rotation (RPM) 1450</li> <li>• Port thread (mm) 9</li> <li>• Dimension W x D x H (mm) 272 x 142 x 165</li> <li>• Weight (kg) 4.4</li> <li>• Noise level (dB) 50</li> <li>• Model : Borosil – BORO 017</li> <li>• Membrane filters Nitrocellulose 0.45 <math>\mu\text{m}</math>, of 47 mm, sterile with grid</li> </ul> <p>Hydrophilic. High flow rates. Biologically inert, non-cytotoxic. Maximum usage temperature 180 °C. Protein binding approx. 160 <math>\mu\text{g}/\text{cm}^2</math>. Should be useful for wide range of applications: gravimetric analysis, particulate analysis, microbiological analysis, sterile filtration of aqueous solutions.</p>
	<b>Approximate cost</b>	<b>Rs.1,00,000/-</b>

### 3. DIGITAL COLONY COUNTER

S. No.	Specifications	Requirement
1	<b>Application</b>	For fast and accurate bacterial or mold colony counting and to aid in determining counts of colony clusters and exceedingly large or small colonies, and can accommodate multiple dish sizes or formats.
2.	<b>Material of construction</b>	Full Stainless steel fabricated body with duly heat cured epoxy coating.
3	<b>Display and counting</b>	<p>It should consist of</p> <ul style="list-style-type: none"> <li>• Digital display up to 4 digits with confirmation by an audible tone.</li> <li>• It should consist of Magnifying lens (greater than 2X magnification with a digital marking pen)</li> <li>• Accepts petri dishes upto size 120mm diameter with a centering adaptor for standard 90mm petri dish</li> <li>• Glare-free viewing low-energy bright LED's</li> <li>• A switchable black background viewing translucent and difficult-to-see colonies.</li> <li>• Zero reset button</li> </ul>
	<b>Approximate cost</b>	<b>Rs.1,55,000/-</b>