Annexure

#	SPECIFICATIONS	Qty
01	**Optical Microscope** **Technical Specifications:** **Optical System:** Antifungal Infinity corrected optical system **Stand:** Single mold sturdy stand with anti-rust materials. Extended base with hand rests for enhanced stability and comfort. **Viewing Body:** Siedentopf Binocular tube, 30° inclined. 360° captive rotation. interpupillary distance 48-75mm **Eyepieces:** Wide Field focusable paired eyepieces WF 10x/20mm. with eye guard, antifungal coatings **Nosepiece:** Reverse angle Quadruple nosepiece (ball bearing type) with click stops and rubber grip **Objectives:** RP series DIN Infinity Corrected Plan Achromatic objectives, antifungal coatings i)4x/NA 0.10/WD 30.9mm ii) 10x/NA 0.25/WD 4.50 mm iii) 40x (spring loaded)/NA 0.65/WD 0.50mm iv) 100x (spring loaded, oil)/NA 1.25/WD 0.13mm **Mechanical Stage:** RACKLESS X axis, double plate mechanical stage plate size 200 x 140mm, X/Y travel range 78 x 54mm. Low drive movement controls. Hard coated surface for scratch resistance. Detachable double slide holder. All brass gears. Heating stage with controller. **Condenser:** Sub stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragm with snap in blue filter. Rack and pinion movements on metal guides. **Focusing:** Feather touch attrition free coaxial coarse and fine focus adjustment with auto tension adjustment for longer life and ultra-smooth movement. Weighted fine focus. **Illumination:** LED Illumination with built-in rechargeable battery making it cordless during use. **Electrical:** Universal input 100V 240V AC, 50/60 Hz Operation manual, allen wrench, Nylon dust cover, soft cleaning cloth, power cord, spare bulb, spare fuse and 10ml immersion oil TYPE A. **Digital Camera for Microscope** **Sensor:** 1/2.8" 6.0 MP Color CMOS **Active area:** 5.70mm x 4.28mm **Sensor resolution**	01

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	Dynamic 1920x1080 pixels **Static** 3264x1836 pixels **Pixel size** 2.7µm x 2.7µm **A/D conversion** 24 Bit RGB **Pixel clock** 48 MHz **Dynamic range** 65 dB **Max. exposure** 1ms-10s auto/manual, white balancing **Frame rate** 30 fps (@1080p) **Image processing** High speed dual FPGA, progressive scan, advanced noise reduction **Interface** USB 3.0, HDMI, SD card, mouse control **Optical connection** C-mount **Voltage supply** AC power (universal) **Power indication** Green LED indicating power on and ready for capture **Measurement Geometric** and axial, calibration Ambient conditions **Operating Temperature**: 0-60°C **Humidity**: 45-85% **Software Compatible Desktop computer (Core i7 7th generation or equivalent, 8 GB RAM, 1 TB Hard Disk, ATI graphic card (2 GB, 256 Bit) and DVD ROM) with LCD and color printer.** **Model & Make:** **Model:** VEGA, LABOMED or equivalent. **Make:** LABO America Inc., USA or equivalent.	
02	**Ultrapure water purification system** **Technical specifications:** **Resistivity:** • 18.2 Mohm.cm at 25°C **Conductivity:** • 0.055µS/cm at 25°C **Total Organic Carbon (TOC):** • < 5 ppb **Particles (size > 0.22µm):** • No particles with size > 0.22µm (with Millipak filters or equivalent) **Bacteria:** • < 0.01 CFU/mL (with Millipak and Biopak filters or equivalent) • <0.005 CFU/mL (with Millipak Gold or equivalent installed and used in a laminar flow hood) **Pyrogens (endotoxins):** • <0.001 EU/mL (with Biopak or equivalent filters) **RNases:** • < 1 pg/mL (with Biopak or equivalent filters) **DNases:** • < 5 pg/mL (with Biopak or equivalent filters) **Proteases:** • < 0.15 µg/mL **Flow rate:** • 0.05-2 L/min **Consumables:**	01
03	• IPAK Meta & IPAK Quanta consumable kit • Millipak 0.22µm filters • Millipak Gold 0.22µm filters **Model & Make:** • Milli-Q IQ 7000 or equivalent. • Merck. Germany or equivalent. **Ultrasonic Processor** **Technical specifications:** Capacity: ≥10-1000 mL Ultrasonic power: ≥ 500 to 750 watt Frequency: ≥ 20 kHz Tip diameter = 1/2", 3/4" and 1". **Make:** Cole-Parmer or Equivalent	01