

Inviting Quotations

Sealed Quotations are invited for the following equipments in the Department of Biotechnology as per the specifications given.

1. Research Microscope

Microscope with magnification from 10 to 80 X with built in camera

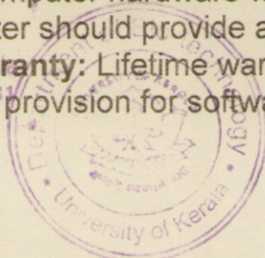
- **Objective Lenses:** 1x - 4x objectives should provide continuous zoom magnification. Viewing head rotates 360°.
- **Eyepieces:** Choose from paired widefield 5x, 10x, 15x or 20x eyepieces, all are 45° inclined, with dual diopter adjustments, interpupillary adjustment from 55mm to 75mm.
- **Total Magnification:** Zoom range of the following different magnifications
 - 5x eyepieces - 5x - 20x
 - 10x eyepieces - 10x - 40x
 - 15x eyepieces - 15x - 60x
 - 20x eyepieces - 20x - 80x
- **Specimen Stage:** Large 165mm wide x 220mm deep stage surface. Includes two 80mm stage plates (frosted glass and reversible black/white plastic contrast plates), blue filter for transmitted light and locked on stage clips.
- **Stand:** Mounted on an all-metal heavy duty post mount, should include locking support collar that permits up and down adjustments to accommodate different sized objects on stage.
- **Focusing:** Rack and pinion focusing with large dual focusing knobs with slip clutches to prevent damage to mechanism and should eliminate focus drift.
- **Illumination:** Should be cool and bright fluorescent light suitable for viewing the object at different intensities and 2D and 3D vision.
- **Should Include** Software, calibration slide, USB cable, vinyl dust cover and operational manual.

Specifications of camera

- 5 - 12 mega pixel camera built into microscope. Capable of fixing or as trinocular
- With Imaging Device and appropriate software.
 - Minimum Illumination - 3 LUX
 - Should be capable of connecting to computer via USB Port - self-powered through computer.
 - Should be capable of capturing moving images at 10-20 frames per second.
 - Effective pixels 2048 x 1536.
 - Images should be captured and saved as either jpg, bmp or .tiff files.
 - A computer hardware with appropriate specification and a colour Printer should provide along with the Microscope
- **Warranty:** Lifetime warranty for objectives, eyepieces and Camera with provision for software up gradation.

Head

Dept. of Bio-technology, University of Kerala
Karyavattom, Thiruvananthapuram-695 581



2. Online UPS with the following specifications Two

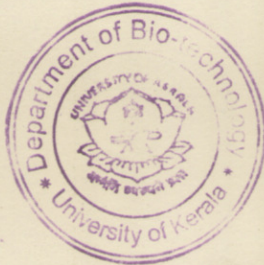
- **5 KVA online UPS with 2 hour Battery backup time on full load for attaching to ultra low temperature freezer**
- **Battery Type: Tubular battery**
- **Warranty: 3 years for battery and UPS.**

3. 5 KVA Servo Stabilizer Three

With the following Technical specification

- Input range should be 170 – 270 V/AC.
- Output voltage should be 230+5% AC.
- With high and low voltage trip circuit.
- Single variac with buckboost transformer.
- Voltmeter to read input and output voltage.
- MCB on input circuit.
- Compact and modular construction for easy handling and servicing.
- Minimum Three year warranty

Quotations should be addressed to the Head, Department of Biotechnology, University of Kerala on or before 18th Feb 2017



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