

DEPARTMENT OF PHARMACOLOGY
School of Pharmaceutical Education and Research, Jamia Hamdard

15.05.2023

PCOL/PR/2023-02

NOTICE INVITING QUOTATION FOR MICROSCOPE

Sealed quotation are hereby invited for the supply of one (01) Trinocular Microscope as per the specification mentioned in the **ANNEXURE-1**.

The quotation may be submitted to the **Office of Head, Department of Pharmacology, School of Pharmaceutical Education and Research, Jamia Hamdard, Hamdard Nagar, New Delhi -110062 latest by 11:00 AM of Monday, 22nd May, 2023.**

The envelope must be superscripted with **Quotation for Supply of Microscope (UGC Startup Grant Sanction order F. No. 30-520/2020)**.


15/05/2023

Dr. Mohammad Ahmed Khan
(Assistant Professor and PI)

On behalf of Local Purchase Committee

ANNEXURE-1: SPECIFICATIONS FOR THE TRINOCULAR MICROSCOPE

- **Optical System:** CCIS Color Corrected Plan Infinity Optical System.
- **Eyepiece:** Wide field high eye point Eyepieces 10x/20, with diopter adjustment, on Both Eye Pieces IPD 55-75mm, Prism incorporated.
- **Nosepiece:** Reversed Quadruple revolving nosepiece.
- **Objective: Anti Fungus CCIS Infinity Plan Achromatic objective** CCIS Infinity Plan Achromatic Objectives PL 4x/0.10 W.D. 15,5 CCIS Infinity Plan Achromatic Objectives PL 10x/0.25 W.D. 7
- CCIS Infinity Plan Achromatic Objectives PL 40x S/0.65 W.D. 0.71. CCIS Infinity Plan Achromatic Objectives PL 100x S Oil/1.25 W.D. 0.14.
- **Frame:** Ergonomic High Rigidity Frame.
- **Observation Tube:** Wide field Trinocular tube Viewing Angle 30 deg, 360 deg. rotation with Interpupillary distance 55-75mm
- **Stage: Both side Rackless stage** 140 x 135mm hard coated surface and slide holder which enables consistent sample movement in x-y direction across a 76x50 mm range.
- **Course and find Focusing:** Brass gears Z-Axis movement 25 mm stroke Fine focuses with 2µm minimum increment, Coarse focus with torque adjustment.
- **Condenser:** Focusable Abbe condenser N.A.1.25 with iris Diaphragm.
- **Illumination: Built- in at least 3W LED Illumination with intensity Control**
- **Accessories:** Immersion oil (5ml), power cord, Allen Hexagonal key, vinyl dust cover.
- **Power Supply:** Universal Power Supply 100W-240V.

C Mount Adaptor- 0.5X C-mount camera adapter for 1/ 2, 5" chip sensors.

Dedicated scientific HD (High Definition) Digital Camera

- Sensor Type : CMOS Sensor Size : 1/2.8 Inch
- Capture format on SD Card : Still image (8.0MP) /Video HD 1980X1080
- Live Display Model (through USB) : 1980X 1080

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- Live Display Model (through HDMI) :1920X1080 (HD) 60fps Pixel Size: 2.8µm x 2.8µm
- Scan: progressive.
- Data Transfer: HDMI (1080p) and USB2.0
- Operating Temperature : From -10 to +60 Degree Celsius noncondensing
- Max Signal to noise ratio: 38.1dB Dynamic range : 70.1 dB Sensitivity : 1,4V/Lux-sec (550nm) Slot: SD Card (max 32Gb)
- Support Device : Twin and Direct show Driver
- Supported OS: Microsoft Windows 7/8/10/11 and MACOSX.

Imaging Software

- Instant Image Capturing, Real time full screen image, Programmed Interval Captures, Video Capture by Time Settings
- Easy Measurement Calibration, Measurement in microns, inches, millimeters, Length Measurements, Ellipse, Rectangle, Irregular Shape Measurements, Perimeter, Radius, Circumference Measurements, Angle Measurements, Magnifier (zoom) function Distant Image Sharing, On-line files sending / receiving
- Sound recording, Image amalgamation, Image Adjustment Effects Automatic Cell Counting, Data Export, Report Generating and PrintOut, Interactive File Format, MP3 compatible.