

## **TECHNICAL SPECIFICATIONS(Revised) FOR STEREO MICROSCOPE**

### **1. TRINOCULAR STEREOMICROSCOPE (2 COUNT)**

- Apochromatic stereomicroscope system with a zoom ratio of 8:1 or higher.
- The observation tube should be a trinocular eyepiece tube with camera port, with an eyepiece tube inclination/viewing angle of 35-38 degrees. The eyepieces 10x/23 (x2) should have adjustable diopters and should be suitable for eyeglass wearers and non-eyeglass wearers.
- The entire optics should be apochromatically corrected, with a total magnification of 6.3x-50x or greater (with 1.0x objective and 10x eyepiece).
- The microscope should have a resolution of 250 lines per mm or higher.
- The eyepiece should be 10x(pair) with a field of view 23mm or more with diopter adjustment for both eyes.
- The objective should have a working distance of 90 mm or better.
- The microscope should have an incident light base with black & white stage plate, Approx. Dim. (LxWxH) 277 mm or higher x 200 mm or higher x 22-30 mm.
- The microscope should have a focus column of height 200-250mm, max. focus travel range 138-145 mm or greater, with adjustable focus drive.
- Illumination: Spotlight illumination with 2-arm Gooseneck, with 2 Hi-Power LEDs.
- Anti-mold design to ensure protection from contamination while working in hot and humid environments.

### **2. MICROSCOPE CAMERA (5 MEGAPIXELS) WITH MEMORY CARD, SOFTWARE, PC AND COLOR LASER PRINTER (1COUNT)**

- High definition 5 megapixels color CMOS camera with SD memory card slot for direct image acquisition. In other words, the camera should have stand-alone functionality with capture control directly on camera.
- The camera should have provision to control through PC. Live display at full HD should be 20-30fps or better @ 1920x1080 or better.
- The camera should be compatible with all stereomicroscope stands of the company.
- Software: Microscope and Digital Camera Configuration and Control all fully integrated System, Auto and Manual Exposure adjustments to allow optimized imaging. It should control the camera features gain, binning, gamma, region of interest, Automatic recording of experimental parameters for reference or reloading for subsequent experiments, image viewer including annotations, image overlay, image gallery and image comparison, Adjust contrast, brightness and gamma on every image, Merge, crop and image arithmetic, Intensity, length and area measurements, insertion of scale bars, functions to annotate images, measurement of area intensities through image stacks and online measurement.
- A branded computer with the following or better configuration and compatible color laser printer should be provided for data acquisition and analysis: i7 Processor, 4GB Ram, 1 TB HDD, Keyboard, Optical Mouse, DVD Writer, 24''TFT color Monitor, Multimedia Kit, 1394b Fire Wire Port and Cable along with UPS.

## COMMON TERMS AND CONDITIONS

- The Camera, Software and Microscope should be from same manufacturer to ensure integration and compatibility between the different components.
- Bidders should enclose ISO certification. They should certify conformity to European CE standards and other certification standards to ensure product quality.
- Credibility: Bidders must be proven international manufacturers of high-end microscopes with installations worldwide. They must show a comprehensive list of all installations in India in reputed research laboratories in the last 5 years.
- **GUARANTEE/WARRANTY PERIOD: THE TENDERERS MUST QUOTE FOR 5 YEARS COMPREHENSIVE WARRANTY (INCLUDING ALL SPARES, ACCESSORIES AND LABOR) FROM THE DATE OF COMPLETION OF THE SATISFACTORY INSTALLATION. THE WARRANTY CHARGES SHALL BE SUMMARITY REJECTED. ALSO, THE BIDDERS ARE REQUESTED TO SUBMIT THEIR QUOTE (RATES) FOR SUBSEQUENT 5 YEARS COMPREHENSIVE**