

## **Amendment Specifications for Upright Research Grade Microscope**

Microscope	<ul style="list-style-type: none"> <li>• Capable of Bright Field, Dark Field, Phase Contrast, Fluorescence, DIC upgradable</li> <li>• The system should maintain constant temperature at all magnifications</li> <li>• Trinocular phototube with two way eyepiece (port 100:0/0:100) and camera facility</li> <li>• Universal turret type condenser with at least 5 position for bright field, Dark field, Phase contrast, DIC application</li> </ul>
Focusing unit	<ul style="list-style-type: none"> <li>• Focus drive with coarse, and fine focusing; torque adjustment, should have focusing knob on both side</li> <li>• Should have integrated mechanism to eliminate any focus drift</li> <li>• Must have a rack stop facility to avoid accidental hitting of the objective with specimen holders.</li> </ul>
Eyepiece:	10x eyepieces with diopter adjustment with FOV <b>of 22 mm</b> or more
Filters	DAPI, FITC and TRITC Filter
Objectives	<p>It should support Fluorescence and DIC</p> <p>Must have 6 revolving objective nosepiece</p> <ul style="list-style-type: none"> <li>• Plan Fluor 10X N.A. 0.30, W.D. <b>5 and above</b></li> <li>• Plan Fluor 20X N.A. 0.50, W.D. 2 mm, Spring-loaded or better</li> <li>• Plan Fluor 40X N.A. 0.75, W.D. 0.62 mm +, Spring-loaded or better</li> </ul>
Light source(s)	<p>Transmitted light: LED (&gt;50,000 hours) <b>or 12V 100 Watt Halogen lamp</b></p> <p>Fluorescence illumination: Fluorescence filters with minimum 4 positions or better.</p> <p>Mercury lamp (100Watt) <b>or LED</b> for Fluorescence detection for DAPI, FITC and TRITC Filter</p>
Warranty	2 years comprehensive from the date of Installation
After Sales Support & Credentials	<ul style="list-style-type: none"> <li>• Must have local support post installation within 24 hrs of complaint registry</li> <li>• Should have at least 5 installation of the quoted model in last five years</li> <li>• Should provide CE or ISO certificate, authorize certificate from the manufacturer</li> <li>• Should provide printed brochure of the quoted model and the model should be available in the company website.</li> </ul>

Camera	High resolution CMOS 2/3" camera with resolution of more than <b>5.0 MP</b> resolution or better, pixel pitch should be 2.4µm X 2.4µm or better, image acquisition of 15-30 fps. Should include compatible adaptor and C-mount. Quantum efficiency (QE): 65% or better. The software should be capable of image capture, image filtering, colour adjustments, measurements, and fluorescence merging.
Computer	Branded PC i5 processor, minimum 8 GB RAM (expandable upto 16GB), NVIDIA graphics card with 1 GB RAM, 1TB SATA HDD, Original Windows 10 OS, DVD RW, at least 24" monitor, keyboard and optical mouse
Spares to be included	one mercury lamp (100Watt)

REGISTRAR (OFFICIATING)