

**CORRIGENDUM-3 FOR TECHNICAL SPECIFICATIONS OF TRI
HEDED FACULTY MICROSCOPE**

Tender No. 24/Path/Microscope/578/2020-Rish(Admin)

S. N.	TENDER SPECS	TO BE READ AS
2	Illumination: The microscope should have an ergonomic stand with high intensity –at least 14 watt LED, illumination system with life of 50,000 hrs or more. The intensity/brightness should be equivalent to a 12volt100 watt halogen bulb	Illumination: The microscope should have an ergonomic stand with high intensity –ranging from 10-14 watt LED, illumination system with life of 50,000 hrs or more. The intensity/brightness should be equivalent to Volt of 100 watt halogen bulb
3	Upgradability: the quoted microscope should be onsite upgradable to fluorescence with at least 8 position filter turret, stepwise motorization like motorized nosepiece, motorized universal condenser, motorized fluorescence turret, motorized stage and DIC.	Upgradability : the quoted microscope should be onsite upgradable to fluorescence with at least 6-8 position filter turret, stepwise motorization like motorized nosepiece, motorized universal condenser , motorized fluorescence turret, motorized stage and DIC.
4.	Observation Tube: Wide field tilting ergonomic trinocular tube having tilting angle range of 5° - 35° or more with three-way light path distribution for simultaneous viewing and imaging of specimens provided with paired wide field eyepieces.	Observation Tube: Wide field tilting trinocular tube having suitable tilting angle with three-way light path distribution (100/0: 20/80:0/100) for simultaneous viewing and imaging of specimens provided with paired wide field eyepieces
6	Nosepiece: Septuple (7-positions) revolving nosepiece with a slot for analyser or DIC slider	Nosepiece: Sextuple (6-positions) revolving nosepiece or Better with a slot for analyser or DIC slider to accommodate all the specified objectives simultaneously or Equivalent Higher configuration.
7	Objectives: The following Plan Apochromat objectives should be quoted: - 1. Plan Apochromat 1X/1.25X (N.A. 0.04 or higher, W.D. 5.0 mm or better) 2. Plan Apochromat 2X (N.A. 0.08 or higher, W.D. 6.0 mm or better) 3. Plan Apochromat 4X (N.A. 0.16 or higher, W.D. 13.0 mm or better) 4. Plan Apochromat 10X (N.A. 0.40 or higher, W.D. 3.0 mm or better) 5. Plan Apochromat spring loaded 20x (N.A. 0.75 or higher, W.D. 0.6 mm or better) 6. Plan Apochromat spring loaded 40x (N.A. 0.95 or higher, W.D. 0.18 mm or better, correction ring) 7. Plan Apochromat spring loaded 100X oil (N.A. 1.40 or higher, W.D. 0.13 mm or better)	Objectives: The following Plan Apochromat objectives should be quoted: - 1.REMOVED 2. Plan Apochromat 2X (N.A. 0.10 or higher, W.D. 8.5 mm or better) 3. Plan Apochromat 4X (N.A. 0.20 or higher, W.D. 20.0 mm or better) 4. Plan Apochromat 10X (N.A. 0.45 or higher, W.D. 4.0 mm or better) 5. Plan Apochromat spring loaded 20x (N.A. 0.75 or higher, W.D. 1.0 mm or better) 6. Plan Apochromat spring loaded 40x (N.A. 0.95 or higher, W.D. 0.21 mm or better, correction ring) 7. Plan Apochromat spring loaded 100X oil (N.A. 1.45 or higher, W.D. 0.13 mm or better)

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10.	<p>Tri-headed Attachment: For 1+2 persons, with tilting ergonomic binocular heads having tilting angle range of 5° - 35° or more provided with paired wide field eyepieces of at least 10X magnification, with diopter adjustment facility in both eyepieces with F.N. 22 or higher. Two colour, intensity controllable LED arrow pointer. The control buttons should be convenient and sensitive. Arrow rotational stick, arrow rotational dial and colour selection dials should be provided.</p>	<p>Tri-headed Attachment: For 1+2 persons, with tilting binocular heads having suitable tilting angle provided with paired wide field eyepieces of at least 10X magnification, with diopter adjustment facility in both eyepieces with F.N. 22 or higher. Two colour, intensity controllable LED arrow pointer. The control buttons should be convenient and sensitive. Arrow rotational stick, arrow rotational dial and colour selection dials should be provided</p>
13	<p>Colour Cooled Camera: Scientific grade digital color cooled camera with true resolution of at least 18.0 Mega Pixels without any pixel shift or software interpolation. Bit depth of 12 bit or higher, binning of 2x & 4x or better. Live frame rate of at least 10 fps at full resolution up to 55 fps. The camera should be able to work in Ultra HD/HD mode with speed of 25 – 30 fps. USB3.0 interface.</p>	<p>Colour High Resolution CCD/CMOS Camera: Scientific grade digital color High Resolution CCD/CMOS camera with true resolution of at Least 16.0 Mega Pixels or Better without any pixel shift or software interpolation, Appropriate Pixel size and better Quantum Efficiency, bit depth of 12 bit or higher, binning of 2x & 3x or better. Live frame rate of at least 6 fps at full resolution up to 45 fps at ROI mode or Better. USB3.0 interface.</p>
14	<p>Imaging Analysis System: Image capture and processing software for advanced imaging in life science and clinical applications. Easily capture and process images with excellent reproducibility and accuracy. Basic Controls, Real time preview, manual/auto exposure, white balance, gain, brightness, gamma, saturation, user friendly archive, intensity, hue, image orientation, averaging, sub-sampling, light source selection, clockwise/counter clockwise, flip vertical, flip horizontal, flip diagonal, zoom preview, cascade, tile horizontal, tile vertical, Single capture, auto increment filename and single key capture, the software should be capable of doing measurement of Point-to-point, polyline, circle from 3 points, light, density, micro meter, grid/circle overlay, manual calibration, and drag and drop data to excel. It should have capability of annotation, advanced image processing.</p>	<p>Imaging Analysis System: Image capture and processing software for advanced imaging in life science and clinical applications. Easily capture and process images with excellent reproducibility and accuracy. Basic Controls, Real time preview, manual/auto exposure, white balance, gain, brightness, gamma, saturation, user friendly archive, intensity, hue, image orientation, averaging, sub-sampling, light source selection, clockwise/counter clockwise, flip vertical, flip horizontal, flip diagonal, zoom preview, cascade, tile horizontal, tile vertical, <u>Large Image Stitching for generation of single image of sample</u>, Single capture, auto increment filename and single key capture, the software should be capable of doing <u>Auto measurement</u> of Point-to-point, polyline, circle from 3 points, light, density, micro meter, grid/circle overlay, manual calibration and drag and drop data to excel. It should have capability of annotation, advanced image processing</p>

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18	The quoted system should be onsite upgradable to fluorescence with at least 8-positions filter turret, motorization and DIC	The quoted system should be onsite upgradable to fluorescence with at least 6-8 positions filter turret, stepwise motorization like motorized 6 position or higher DIC nosepiece, motorized universal condenser with at least 7 positions, motorized fluorescence turret with at least 6-8 positions, motorized stage and DIC.
19	The supplier should have direct technical and application support from the Principal Company in India.	The supplier should have direct technical and application support from the Principal Company and only latest model should be quoted.