SPECIFICATION FOR TRINOCULAR INVERTED MICROSCOPE WITH LED ILLUMIMATION with FL

S. No	Annexure-A **Inverted Trinocular Microscopes with LED Illumination**
	1. Optical System: Infinity – (Universal Infinity – corrected) optical system optics with Multi-layer Coating & Anti – Fungus treated for component durability microscope with Parfocal and Centered Strain Free Optics 2. Body: Aluminum die-cast metal frame, with all critical movements based on ball bearing & wire guides thereby ensuring smooth & precise manipulation 3. Mechnical Stage: 200 mm (L) X 252 mm (W) Exchangeable transparent insert plate is incorporated, (Optional) XY coaxial knob place on right side of the plain stage Micro plate holder equipped with the escape function stage stroke: X = 110 mm, Y = 74 mm, 70 mm (L) X 180 mm (W) 4. Focusing Systems: Revolving nosepiece vertical movement system using the coarse and fine focusing knobs. Stroke: 20mm (Focal point: up to 18.5 mm from the plain stage top surface) Stroke per rotation : 36.8mm (Coarse), 0.2mm (Fine) 5. Condenser: Maximum numerical aperture: 0.3, Working distance: 72mm Applicable objective magnification 2X, 4X, 10X, 20X and 40X , up to 190mm height tissue flask can be loaded on the stage without detachable condenser. 7. Illumination: Light source: 4000K color temperature LED light source, Filter holder: Insert up to 6mm think with ø45mm filter, detachable, Aperture diaphragm: Diaphragm blade, manual open/close system, Slider insertion: With phase slider pocket and built-in slider position click stop mechanism, pre-centered iPC aperture in 4X, 10X, 20X and 40X, insertion direction can be adjusted by the range of ±30 degrees to right or left sides, iPC slider: Pre-centered phase contrast aperture for 4X, 10X, 20X and 40X and 2 ø45mm empty apertures 8. Nose piece: Fixed quadruple nosepiece based on precision ball-bearing mechanism with positive click stop. 9. **OBJECTIVES** (Universal Infinity – corrected), anti- fungal Plan achromatic objective 4X/0.1, WD 18.5 Achromatic phase (pre-center) objective 10X/0.25, W.D. 8.8mm Long working distance achromatic phase contrast (pre-center) objective 20X/0.4 WD 3.2 Plan Achromate Phase Contrast Objective 40x N.A. 0.55, W.D. 2.2 mm Anti – fungus treated favoring to not fungus growth 10. Observation tube: Fixed Trinocular tube, inclined 45 degrees Interpupillary distance 48-75mm Light path: eyepiece/camera port = 100/0 : 0/100 12. Eyepiece: Magnification: 10X / FN 22 13. Can be upgradeable to Fluorescence minimum Two filter 14. Power requirement AC 100-240V 50/60 Hz 0.4A 15. Should be ISO, CE certified/FDA and Anti fungus Treated certificate 16. Accessories, dust cover and power cord. 17. Specifications: 2.0 Mega Pixel CMOS Camera with Sony Exmor sensor having sensor size of 1/2", Resolution: 1920 X 1080, suitable for Fluorescence & Bright Field Imaging, frame rate of 125 @1920 X 1080 , pixel size 3.75 X 3.75 um, Binning 1X1, USB 3 port for faster data transfer, comes with a software for point to Point measurement, auto white balance, auto exposure option, basic setting: Gain, Gamma, Contrast, Auto white balance, optical Port : C-Mount compatible with Windows 10.Packing includes: 2.0 MP Camera, C-Mount adapter 0.5x, USB 3 cable, calibration slide 18. FLUORESCENCE ILLUMINATOR FOR INVERTED Microscope WITH B & G EXCITATION FILTERS : Reflected light fluorescence illuminator equipped with field stop, 3-position fluorescence slider and 3-position, B excitation filter set, G excitation filter set, ND slider, including UV shield plate, “Umbra Shield” Room light blocking plate is attachable to the condenser. Lamp house for 100W mercury burner with collector lens and connecting cable. Power supply unit for Mercury lamp & 100W mercury burner.

SPECIFICATION FOR TRINOCULAR INVERTED MICROSCOPE WITH LED ILLUMIMATION with FL

19. Optical System	Infinity corrected optical system
20. Observation tube	Trinocular Head Inclined at 30 deg., Interpupillary distance 48 - 75mm
21. Objective – for bright field and Phase Contrast application	LWD plan infinity objectives 4x/0.1 WD 18mm (for BF / FL)
	LWD plan achromat infinity phase objectiv 10x/ 0.25 WD 10mm (for BF / PH / FL)
	LWD plan achromat phase objective 20x/0.40 (for BF/PH/FL)
	LWD (for BF/PH/FL) PH40X/0.6WD2.6mm (Cover Glass1.2mm)PhaseContrastObjective
22. Nosepiece	Quintuple revolving nosepiece
23. Frame	Frame with coaxial coarse and fine focusing system with upper limit stopper and tension adjustment
24. condenser	LWD condenser with NA 0.3mm WD 72 mm
25. Phase Annulus	10X-20X Phase Annulus Plate
26. stage	PlaneStage160x250mm fixed stage
	Attachable mechanical stage with Atachable Mechanical Stage, X-Y Co-axial Control, Moving Range 120x 78 mm, Terasaki Holder, 38mmdia Petri Dish Holder, 54mmdiaSlide Glass Holder
	Auxiliary stage 70mmx180mm

27. Hardware & Software to observe, record, visualize the microscopic picture by the attached Computer with UPS system.
28. Warranty period: 03 Year from the date of installation.

SPECIFICATION FOR TRINOCULAR INVERTED MICROSCOPE WITH LED ILLUMIMATION with FL