

Date:- 18.02.2020

Revised Technical Specifications for Surgical Operating Microscope for Ophthalmic Surgery

Tender Ref. No. 24/Ophthal/Microscope/554/2020-Rish(Admn) for Operating Microscope

Sr. No.	Description	Required
1	Eye Piece	Pair of high-eyepoint widefield push-in (magnetic) eyepieces 12.5x Diopter setting from- 8D to + 5D or more, also suitable for spectacles wearers.
2	Inclination of binoculars	45-degree inclined binocular tube with focal length of 170 mm or more. Graduated knob (s) for adjustment of inter pupillary distance from 55mm to 75 mm or more.
3	Focal length (Objectives)	High-quality objective lens with apochromatic optics and focal length of 200 mm. Mount diameter 65 mm or more.
4	Magnifications	Motorised 5-step magnification changer with apochromatic optics and magnification factors: 0.4x0.6x1.0x1.6x2.5x or more.
5	Magnification Factors	4.3x to 25.5 x or more, visual field diameter: 9mm.....53mm or more.
6	Fine focussing	Motorised fine focussing, activated by a foot control panel, fine focusing range: 48 mm or more.
7	Light source	Coaxial LED/Halogen light source with colour temperature of 4,500 K - 4800 K (daylight effect).
8	Tilting	Front-to-back tilt facility with handgrip.
9	Coupling	Motorized X-Y coupling.
10	Assistant Eye Piece	Binocular adjusted assistant eye piece.
11	Foot Control Panel	Motorized, Waterproof foot control panel with 12 functions or more, control switches for on/off, increase and decrease of intensity, fine focussing, magnification changer.
12	Brightness and illumination	Illumination angles: 2 degree (for rich and homogenous red reflex) and 4 degree or more (for depth enhancement switchable by rotating knob).
13	Depth of Perception	5-7 mm at all levels of magnification.
14	Optics	Sealed optics which are dust, moisture and fungus resistant with UV coated lens. Dust cover to be provided.
15	Filters	Integrated swing-in halogen mode filter, eye protection filter and colour rendering filter by rotating knob.
16	Microscope stand	Rollable floor stand on base with lockable castors.
17	Certification	ISO or any other agency certified. Company should have been exporting this product to USA/UK/France/Germany/South Africa/Japan i.e. at least 3-5 foreign countries.
18	Company	Original manufacturer of microscope with presence in international market for last 10 years.
19	HD Recording	Preferably compatible for future upgradation to fully integrated high definition in-built camera.
20	Onsite demonstration	Onsite demonstration at AIIMS, Rishikesh required

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