



Notice Inviting e-Tender

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**Creation of Vitreo Retinal Surgery Set Up in Department of Ophthalmology of
I.P.G.M.E & R and S.S.K.M Hospital**

Bid Reference No.: WBMSCL/NIT-037/2023

Dated-31.01.2023

Amendment-I

REVISED TECHNICAL SPECIFICATIONS

Schedule III (pg 37)

Technical Specifications for Advanced Surgical Operating Zoom Microscope for Ophthalmology

Main Microscope :

- Apochromatic optics with anti-reflex multi coating
- Motorized zoom system with zoom ratio 1:6 V magnification factors : 0.4x-2.4x
- Focusing range 70 mm
- Speed control for zoom and focus
- Tilttable binocular tube f= 170 mm with integrated automatic image inverter in VR/ Cataract surgery, interpupillary distance adjustable from 55mm to 75mm
- Pair of high eye point wide field eye pieces 12.5xwith diopter setting from -8D to +5D,
- Apochromatic objective f= 200 mm

- Total magnifications: 4.3x to 25.5x with eyepiece 12.5x and objective lens $f=200\text{mm}$ with carrier ring.
- Field of view: 8.6 mm to 51.8 mm with eyepiece 12.5x and objective lens $f=200\text{mm}$
- Deep View depth of field management system
- Integrated Slit illumination; Slit width 0.2, 2.0, 3.0, 4.0mm & Slit height 12mm.
- Beam splitter should be integrated in the microscope body for additional future upgrade
(Stereo co observation attachment/ documentation)
- HD camera should be integrated in the microscope body without any external attachment
C mount & cables. Camera controls unit should be integrated in the stand.

Built-in assistant's Microscope :

- Independent assistant scope with contentious Zoom magnification changer & Separate fine focusing system
- Inclined Binocular tube with Automatic integrated image inverter for Cataract & VR surgery.
- SCI (Stereo coaxial illumination) **or equivalent** for both main surgeons. & Assistant microscope for constant brilliance and brightness, red reflex illumination and surrounding field illumination both are adjustable.
- Pair of high eye point wide field eye pieces 12.5x with diopter setting from -8D to $+5\text{D}$,
- Provision of red reflex for assistant with equal brightness

XY Coupling

- Range of adjustment 60 mm x 60 mm. Control of automatic reset of XY movements.
- Provision of inversion of XY direction of travel via foot control, Speed control for XY.

Illumination

- Fiber light guide, LED illumination system. Fiber cable should be internally rooted (External not acceptable)
- Integrated 408 nm UV filter for protection against infrared exposure
- Wireless programmable 14 function foot control panel.
- Blue Blocking Filter, Provision of retina protection device
- Provision of system of magnetic clutches for all locks for positioning of microscope across surgical field

Floor Stand

- Magnetic clutches for effortless movement and positioning
- Built in maneuvering programmable handles
- Lamp intensity adjustment, on/off via foot control panel
- Progressive speed adjustments
- Storage facility of magnification, motor speed, configuration of foot control panel, lamp brightness and focal plane for at least 9 different users
- Facility for non sterile release of suspension arm

Accessories for VR Surgery:

- Wide angle fundus viewing system with foot controlled electrical **variable** focus unit in VR surgery without moving microscope body.
- Lenses 60D & 128D mounted on system & ready to use any time during surgery (no changeover required during surgery) .
- Safety range 110mm.
- Rotation of aspheric lens holder 0 -360 Deg.

Certification:

European CE(4 Digit notified body)/US FDA

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