



## **Notice Inviting e-Tender**

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**Supply and Commissioning of Surgical Microscope for Dept. Of Plastic & Reconstructive surgery.**  
(Submission of Bid through *online*)

**Bid Reference No.: WBMSCL/NIT-194/2023**

**Dated-24.04.2023**

### **AMENDMENT I**

#### **REVISED TECHNICAL SPECIFICATION OF SURGICAL MICROSCOPE** **(with camera, recording & co-observer, face to face** **for plastic & reconstructive Surgery)**

1. Working distance:  
200-500 mm at least, continuously variable through motorized multifocal lens, activated through control panel. Manual override / alternate control.
2. Magnification range:  
Minimum range up to 1.5X-21X (12.5X eyepiece) or better
3. Zoom: Should have 6:1 motorized zoom activated through hand control and foot switch control panel
4. Focusing: Focusing: 200 – 500 mm (+/- 25 mm). Motorized via multifocal lens activated through Hand or Footswitch & Touch screen control panel. Manual over ride/ alternate override should be available. Automatic focusing preferable.
5. Eyepieces:  
Wide field eye piece for eyeglass wearers Dioptic settings -5D or less to +5D or more with adjustable eye cup interpupillary distance 55-75mm (adjustable). 12.5x eyepieces the system must provide all apochromatic optics, displaying the region of interest free of color aberrations.

6. Light Source: 300 W Xenon / equivalent LED (documents in support of claim need to be submitted) indirect type illumination with integrated 300 W Xenon back-up with fast action Lamp Change over. The system must display the remaining life time for each illuminant. The system must automatically indicate defective lamps.
7. Illumination Field Diameter:  
Should have built in automatic zoom-synchronized illumination field diameter, with manual override/ alternate Control and reset feature. The depth of field can be adjusted electronically and manually by system's handgrips
8. Automated illumination control:  
Should have Automated Illumination. Brightness control should be linked to working distance.
9. Binocular tube:  
Binocular tube: Tilt able, rotatable, length adjustable binocular tube for main surgeon with 0 – 180 degree rotation facility.
10. Balancing:  
Balancing: The system must have one touch automatic balancing of all system axes without any manual interaction or touch screen based software balancing.
11. Beam Splitter:  
The system should have Integrated Beam Splitter Stereo co observer:
12. Stereo Co observer: Should have stereo co observation attachment for side assistant.
13. Face to Face attachment:  
  
Built in face to face attachment with 0 -180° Tilt able binocular with 10X to 12.5X eyepiece (any one) with Diopter correction must be -5D to +5D range. Face-to-face operation must be possible with both, surgeon and assistant.
14. Camera:  
Full HD Video Camera with integrated recording system.
15. Display:  
24" or more Full HD Medical grade touch screen display system attached with the microscope system.  
(The monitor system must be integrated with the system)
16. Recording:  
Full in built video recording system with integrated HDD of at least 1TB.
17. Sterilized microscope cover (draping) must be supplied with the Surgical microscope (at least 30 nos.)
18. Certification: Surgical microscope must be European CE (4 digit notified body) / US FDA / BIS certified