



## **Notice Inviting e-Tender**

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**Supply and Commissioning of Various Medical Equipment for the ENT Department of**  
**Midnapore Govt. Medical College and Hospital**

(Submission of Bid through *online*)

**Bid Reference No.: WBMSCL/NIT-636/2023**

**Dated-31.10.2023**

### **Amendment-I**

## **REVISED TECHNICAL SPECIFICATION**

### **Schedule – IV**

#### **Operating ENT Microscope**

Description: It should be of high resolution and fully for image guided surgery and intraoperative fluorescence,. It should have following features

1. Motorized zoom system with 1:6 ratio
2. Maximum magnification upto 18.5x or more
3. Objective multi focal lens 200-500MM variable focal length with auto focus through microscope
4. Variable working distance range of 300mm (from 200-500mm), motorized, manual and via laser autofocus integrated within the stand.
5. Pair of wide-field eyepieces for spectacle wearers 12.5x dioptric setting +5D to **-5D or better**
6. Adjustable Ergonomic handgrip with buttons for motorized control of focus, zoom,axis movement, with programmable keys.

7. Microscope should be compatible with DICOM, Co2 laser with touchscreen monitor for another surgeon.
8. Microscope should be equipped with dual light for shadow less view while operating in deeper cavities.
9. Facility for adjusting speed of the focusing motor to adapt for different magnifications.
10. Built in co-axial illumination from high performance with 300w xenon with back up 300W xenon in same illumination module through the fiber optic cable with integrated semiautomatic lamp changeover facility.
11. Inclunable binocular tube , inclinable over range of minimum 0-180°.
12. Should have tiltable(0-180°) eyepieces, should have face to face attachment
13. Facility for dual beam laser auto focus system-
14. Vacuum auto drape system for complete microscope head.(Preferable)
15. Photography recording of still/video/digital image -other teaching aids integrated inside the unit.
16. Floor stand with contrast technologies and graphical screen for all functions of the system zoom, illumination, focus video etc.
17. Complete auto balance of whole system by single push of a button for microscope body and microscope stand even intra-operatively.
18. Stereoscopic co observation attachment for second observer with tilt able eyepieces, minimum 0-180 degree should remain fixed when tilting main microscope.
19. Integrated HD camera(3CCD OR CMOS PROCESSOR), full HD camera should be integrated in the microscope body without any external cables & attachments.
20. Integrated digital HD video recording facility with appropriate video editing software.
21. Should have adjustable, ergonomic handgrips, symmetrical. I attached clearly above the bottom edge of microscope, multifunctional key and a joystick for motorized XY fine adjustment/ operation of navigation function.
22. Should have integrated neuronavigation facility
23. Should have inbuilt ready to use intraoperative fluorescence facility with option which can be used to visualize Fluorescent area with excitation in the wavelength range from 460-500nm and observation in the wavelength range from 540-690nm.
24. Should be supplied with a foot switch.
25. 2 spare 300 W xenon bulbs should be supplied with the equipment
26. High overhead clearance for flexible positioning of the stand-even behind the surgeon
27. Should be supplied with one 32 " high definition LED monitor for display of operation distally in seminar for demonstration to gathering and digital multiaxial system with trolley stand.
28. Company should have their office in India.

**NOTE:** Any other essential hardware/software/items/ required to make all above things functional should be quoted otherwise it will be treated that some will be supplied free of cost.

All products should be same manufacturer

**Certification :** Should be either US FDA / European CE (four digit notified body) / CE / UKCERT / TUV/CDSCO/BIS

