



## Notice Inviting e-Tender

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**Procurement, supply and installation of High Definition Neuro Endoscopy set for  
Neurosurgery in the Hospital and Medical College of the Government of West Bengal**  
(Submission of Bid through *online*)

<b>Bid Reference No.: WBMSCL/NIT-394/2025</b>
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<b>Dated-17.05.2025</b>
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The following amendment have been made in the tender document,

### **Amendment –I (Revision of Technical Specification)**

The revised technical specifications for the item is given below,

#### **High-Definition Neuro Endoscopy set**

Full High Definition Neuro Endoscopy Set for the Treatment of ETV. Intraventricular Tumor Resection, Arachnoid Cysts, Colloid Cyst by Bimanual Resection Technique.  
Endoscopy Third Ventriculostomy Set, Intraventricular Tumor Resection set and Trans nasal Set.

**a. Sheath:-**

1. Advance intraventricular tumor resection trocar should have working length of 150 mm, shaft outer diameter of 8.3 mm, endoscope channel diameter of 2.8 mm, main instrument working /overflow channel should be elliptical in shape with length of 6.5 mm at least and breadth of 3.7 mm, second working channel diameter of 2.2 mm, irrigation/overflow channel 1.4 mm dia.
2. Advanced intraventricular tumor resection trocar should have a smooth tip for atraumatic insertion with 4 channels and individual obturator for large working /overflow channel.
3. The elliptical working channel and the second working channel must be merged at the target area of surgery. The outer shaft of the trocar should have a large depth scale with each and every centimeter. Locking knop should be available in both trocar and scopes for safely locking the endoscope. Trocar should be compatible with angle instruments like as curved dissector, angled hook, curved backward cutting knife. Trocar should have an option for bi manual resection technique like

traditional micro neurosurgery with increased freedom of movement. Trocar ability to put up to 3 major rigid instruments at a time must be demonstrated, including scope.

4. Trocar should have option for Bi-Manual Resection Technique with any two instruments working channel.
5. Outer shaft of the Trocar should have Large Depth Scale with each and every centimeter.
6. Advance Transnasal trocar should have suction and irrigation, lockable with endoscope working length 120 mm diameter 4.5/6 mm for each endoscope 0 deg and 30 deg (separately).
7. Transnasal trocar should have suction, cleaning and irrigation function controlled via handle.
8. Transnasal trocar handle should have rotatable around the endoscope shaft for improved flexibility in positioning the endoscope (preferably).
9. Transnasal trocar not require any irrigation pump.
10. Should have Pediatric Intraventricular endoscope outer dia of 3mm for minimally invasive paediatric surgery.
11. Should have Paediatric Intraventricular endoscope integrated with 30000 pixel fiber optical and ocular with focus.
12. The paediatric Intraventricular endoscope should have single use introducer.
13. Sealing cap should be available in Endoscope channel for Pressure balance.
14. Locking knob should be available in both Trocar and Scopes for safely lock the endoscope.
15. All endoscopes should be Autoclavable, Full High Definition (Full HD should be mentioned in endoscope)
16. Intraventricular endoscopes should be 90 Degree Angled Endoscopes in Eyepiece and transnasal endoscopes straight Endoscopes eyepiece.
17. All Endoscopes should have separate color coding (Green ring and Red ring) to identify the Direction of view (0 Deg and 30 Deg) and it should be detachable from sheath.
18. 2mm Tubular shaft Instruments should have 360 Degree Rotating Knob for comfortable rotation of working end.
19. 2mm Tubular shaft Instruments should be Detachable in three Parts (Handle, Outer Tube, 3aw Part) for Reprocessing and change the jaw inserts.
20. 2mm Tubular shaft Instruments should have Integrated Tactile Feedback to delivers small resistance indicating that instrument tip emerges from the Trocar.
21. Outer shaft of the Monopolar and Bipolar electrodes should have PEEK insulation for patient and user protection.
22. Blunt suction cannula should have option to control of suction via thump plate or via syringe and depth scale should be available in tip side.
23. 2mm Tubular shaft Instruments, Monopolar and Bipolar electrodes, FHD Angled Endoscope (90 Deg in eyepiece and 30 Deg in Direction of View) of 3rd Ventriculostomy set must be compatible to sheath of Intraventricular tumour set. Hence it is completely compatible and no additional endoscope is procured to save inventory.
24. Aluminium Container and closing lid with Storage rack, silicone protection to be provided for both 3<sup>rd</sup> ventriculostomy and Intraventricular tumor set Instruments for safe sterilization.
25. Separate Storage rack with Silicone protection should be provide for Trocar and Scopes for safety.
26. Intraventricular Trocar should have smooth tip for Atraumatic Insertion with 4 channels and Individual Obturator for Large working channel and endoscope channel.
27. Outer shaft of the Trocar should have Large Depth Scale with each and every centimeter.
28. Locking knob should be available in both Trocar and Scopes for safely lock the endoscope.
29. Intraventricular Trocar should have Angle Instruments can be used like as curved Dissector, angled hook, backward cutting knife.

30. Intraventricular Trocar should for Bi-Manual Resection Technique to traditional micro Neurosurgery due to the increased freedom of movement.
31. Intraventricular Trocar ability to put up to 3 major instruments at a time must be demonstrated, including scope.
32. Outer shaft of the Intraventricular Trocar should have Large Depth Scale with each and every centimeter.
33. Locking knob should be available in Intraventricular trocar for safely lock the endoscope.
34. Reusable Filter of aluminum container should have feature of 1000 sterilization cycles.
35. Flexible Holding device with Mechanical Arm of 3<sup>rd</sup> ventriculostomy set must be compatible to Intraventricular tumor set and Trans nasal Set.

#### **b. Endo vision Full HD Camera System:**

1. Latest 4K CMOS endoscope camera System with adjustable zoom coupler with Endoscope lock and release endo coupler.
2. Video out - 2x DVI D (1080p), 2xHD-SDI (1080p), 1x3G HD-SDI (1080i)
3. 1x1/3" CMOS 4K Camera sensor
4. Camera resolution - 3840 x2160 pixel
5. Progressive scan 50/60Hz
6. Digital zoom 1.8x and Optical zoom 2.0x
7. Optical parfocal zoom lens with 2x magnification for detail magnification
8. Focal length should be 16 to 28mm
9. Multiple camera function (White balance, Light source ON/OFF, Menu) should be activated via remote control buttons on camera head. LED light source activation/standby function should be done from the sterile area.
10. Camera head should have option for Double locking mechanism for scope safety
11. 32" Medical Grade 4K LED Monitor.
12. 4K monitor resolution should be (HxV) 3840 x2160
13. 4K monitor should have 1xDVI-D, 1xDVI-D, 2x3G SDI, Video input signal
14. 4K monitor should have 1xDVI-D, 1xDVI-D, 2x3G SDI, 1xVGA Video output signal.
15. Multipurpose Monitor Stand.
16. LED light source should have color temperature 5665 K
17. LED light source should have option for automatic light control, standby mode
18. LED light source should have display and port for test the light source cable condition
19. LED light source's Fiber Optic light cable with 3.5m long 4.4mm diameter
20. External/internal HD recording system with windows desktop with Inter Core is for documentation of whole procedure.
21. Vendor has to ensure proper training to neurosurgical faculties from our institute until they are comfortable with the system and they have to provide onsite training to Paramedical Staffs & Doctors.

#### **c. Configuration:**

1. Trocar - working length 150mm, Shaft outer Diameter 8.3 mm, Endoscope channel 2.8mm Dia, Main working channel length 6.5 mm and breadth of 3.7 mm, second Working channel 2.2mm Dia, Both Irrigation/Overflow channel 1.4mm Dia. - 1 Nos.

2. Trocar - Working length 120 mm diameter 4.5/6 mm with suction and irrigation and lockable with endoscope for 0 degree and 30 degree endoscope separately - 1 Nos.
3. 4K Endoscopes for intraventricular - shaft working length 180mm, shaft outer Diameter 2.7mm, Direction of view 0 Degree and 30 Degree - 1 Nos. (Each)
4. 4K Endoscopes for Transnasal - shaft working length 195mm, shaft outer Diameter 4mm, Direction of view 0 Degree and 30 Degree. - 1 Nos. (Each)
5. Paediatric endoscope outer dia 3 mm with integrated optical fibers - 1 Nos.
6. Pediatric endoscope ocular with focus - 1 Nos.
7. Holder for fixation of Intra ventricular Trocar and Endoscope with diameter of 3.0mm to 7.5mm -1 Nos.
8. Ergonomic Handle with irrigation button for Transnasal-1 Nos.
9. Tubular shaft Rigid working Instruments - shaft working length 265mm, shaft outer diameter 2.0mm - Blunt/ Blunt scissor - 1 Nos.
10. Tubular shaft Rigid working Instruments - shaft working length 265mm, shaft outer diameter 2.0mm - Cup Biopsy Forceps - 1 Nos.
11. Tubular shaft Rigid working Instruments - shaft working length 265mm, shaft outer diameter 2.0mm - Grasping and dissecting forceps - 1 Nos.
12. Monopolar electrodes - straight, blunt electrode with 1.1mm dia 265mm working length - 1 Nos.
13. Monopolar electrodes - hook electrode 90 deg angled with 2.2mm dia, 255mm working length -1 Nos.
14. Monopolar cable atleast 3m length for electrodes -1 Nos.
15. Bipolar fork electrode straight tip with 2.1mm dia and 265mm working length -1Nos.
16. Bipolar Electrode tip 0 deg 2.7 mm and 310 mm working length -1 Nos.
17. Bipolar Electrode tip 30 deg 2.7 mm and 310 mm working length -1 Nos.
18. Two pin Bipolar cable atleast 3.5m length for electrodes -1 Nos.
19. Monopolar electrodes - straight, blunt electrode with 1.1mm dia 255mm working length - 1Nos.
20. Blunt suction cannula - outer diameter of 2.0mm with depth scale in tip side -1Nos.
21. Tubular Shaft Rigid Working Instruments - Shaft working length 355mm, tip width 1.7 mm dissector -1 Nos.
22. Tubular Shaft Rigid Working Instruments - Shaft working length 355mm / blunt hook defection width 3.5 mm-1Nos.
23. Tubular Shaft Rigid Working Instruments - Shaft working length 355mm, backwards cutting, knife defection width 3.0 mm - 1 Nos.
24. Rigid Working Instruments shaft (2x 3.1mm) - Shaft working length 290 mm, forceps straight – 1Nos.
25. Rigid Working Instruments shaft (2x 3.1mm) - Shaft working length 290 mm, forceps Left -1 Nos.
26. Rigid Working Instruments shaft (2x 3.1 mm) - Shaft working length 290 mm, forceps right -1 Nos.
27. Rigid Working Instruments shaft (2x 3.1mm) - Shaft working length 290 mm, straight scissor - 1Nos.
28. Rigid Working Instruments shaft (2x 3.1 mm) - Shaft working length 290 mm, upward scissor - 1Nos.
29. Flexible Non Detachable with irrigation port - Shaft Working length 250 mm, micro Scissor-1 Nos.

30. Flexible Non Detachable with irrigation port - Shaft Working length 250 mm, micro grasping and Dissecting forceps - 1 Nos.
31. Flexible Non Detachable with irrigation port - Shaft Working length 250 mm, micro biopsy forceps -1 Nos.
32. Single use suction tube 4.5m dia 4mm sterile pack of 10 for Transnasal endoscope -1 Nos.
33. 10fr Single use introducer for pediatric endoscope (pack of 5) -1 Nos.
34. Storage rack with silicone protection cushioning tray - Dimension of (LxWxH) at least 540 x 253 x 56mm for Trocar and endoscope - 1 Nos.
35. Storage rack with silicone protection cushioning tray - Dimension of (LxWxH) at least 540 x 253 x 166mm for Instruments and electrodes -1 Nos.
36. Storage rack with silicone protection cushioning tray - Dimension of (LxWxH) at least 485 x 253 x 56mm for Instruments and electrodes - 1 Nos.
37. Storage rack with silicone protection cushioning tray - Dimension of (LxWxH) at least 406 x 253 x 56mm for Trocar and endoscope - 1 Nos.
38. Aluminium Container's bottom - Dimension of (LxWxH) at least 592x285x108 mm for storage rack. - 2 Nos.
39. Aluminium Container's closing lid - Dimension of (LxWxH) at least 592x285x108mm for storage rack with colour identification -1Nos.
40. Container Lid -3 Nos.
41. Reusable filters for container- 1Nos.
42. Adapter for fixation the Intraventricular Trocar -1Nos.
43. Adapter for Fixation the Transnasal Trocar -1Nos.
44. Flexible fixation element with ball and socket joint -1Nos.
45. Holding Device with Mechanical Arm –Total length 107cm, length of fixation bar 46cm with 20mm dia -1Nos.
46. Full HD 2D 3CMOS zoom camera head with zoom coupler - 1 Nos.
47. Camera Holding Device for 2D camera Head -1 Nos.
48. Full HD 2D Camera Control Unit - 1 Nos.
49. EDDY DVD Documentation System - 1 Nos.
50. 27" Full HD Flat screen -1 Nos.
51. Lateral Height Adjustment - 1nos.
52. LED Light Source - 1Nos.
53. Full HD Light cable - 1Nos.
54. Sterile camera drape (pack of 25 nos.) -1Nos.
55. Endoscopy Equipment cart (Indian Make) - 1 Nos.
56. The bidder should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.