

Department of Neurosurgery

Sr.No	Name of Equipment	Specification	Qty required	Suggested Manufacturers Name	Approx Unit cost (Rs.)	Usage	
1	CRANIOTOME	Light weight cable with heavy duty corrosion resistant, auto clavable hand pieces for cranial perforation and craniotomy. The motor should be high torque and portable. Additional craniotomy cutters and one additional cable should be provide as accessories.	2	*Man Man *Xman	125000/-	In Emergency surgeries. Increase the speed & precision of surgery with low complications to patients.	
2	Neuroendoscope (For Intraventricular surgery & ETV)	Instrument	Specification	1	*Karl storz *Aesculap	1200000- 1500000/-	Most frequently and much required item for patients of hypertensive bleed and hydrocephalus.
		Operating Sheath	Operating sheath for ventriculoscope, outer diameter 6.8 mm, working length 13.3 cm Should be USA FDA & CE Approved				
		Obturator	Optical Obturator used with 0° Scope Should be USA FDA & CE Approved				
		0° Scope	Forward Oblique-Telescope 0°, enlarged view, diameter 2 mm, length 26 cm, autoclavable, fiber optic light transmission incorporated Should be USA FDA & CE Approved				
		Operative Scope	Ventriculoscope Wide				

			<p>Angle Straight Forward Telescope 6°, angled eyepiece, outer diameter 6.1 mm, length 18 cm, working channel diameter 2.9 mm, irrigation/suction channel diameter 1.6, autoclavable, fiber optic light transmission incorporated Should be USA FDA & CE Approved</p>				
		Ventriculostomy Forceps	<p>360 degree rotatable Ventriculostomy Forceps, diameter 2.0 mm, working length 30 cm Should be USA FDA & CE Approved</p>				
		Scissors	<p>360 degree rotatable Scissors, single action jaws, pointed, diameter 2 mm, working length 30 cm Should be USA FDA & CE Approved</p>				
		Biopsy Forceps	<p>360 degree rotatable Biopsy Forceps, both jaw parts movable, Ø 2.0 mm, working length 30 cm Should be USA FDA & CE Approved</p>				
		Grasping Forceps	<p>360 degree rotatable Grasping Forceps with teeth, 2.0 mm, working length 30 cm</p>				

			Should be USA FDA & CE Approved				
		Scissors	Scissors, pointed, lightly curved jaws, double action jaws, diameter 1,7 mm, length 30 cm Should be USA FDA & CE Approved				
		Ventriculostomy Forceps	Ventriculostomy Forceps, diameter 1.0 mm, flexible, working length 30 cm Should be USA FDA & CE Approved				
		Biopsy Forceps	Biopsy Forceps, double action jaws, flexible, diameter 1 mm, working length 30 cm Should be USA FDA & CE Approved				
		45 Degree Telescope	Telescope 45°, enlarged view, ø 3.3 mm, length 25 cm, autoclavable, fiber optic light transmission incorporated, Should be USA FDA & CE Approved				
		Needle	Injection Needle, flexible, diameter 2.5 mm, working length 45 cm, disposable Should be USA FDA & CE Approved				
		Puncher Needle	Puncture Needle				

		<table border="1"> <tr> <td></td> <td>Should be USA FDA & CE Approved</td> </tr> <tr> <td>Cogulator</td> <td>Coagulating Electrode, bipolar, 5 Fr. Should be USA FDA & CE Approved</td> </tr> <tr> <td>Bipolar</td> <td>TAKE-APART Bipolar Forceps, long, flat jaws, outer diameter 2.4 mm Should be USA FDA & CE Approved</td> </tr> <tr> <td>Cord</td> <td>Bipolar High Frequency Cord with 2 x 4 mm banana-plug , length 300 cm Should be USA FDA & CE Approved</td> </tr> </table> <p>Scope holder with table attachments.</p>		Should be USA FDA & CE Approved	Cogulator	Coagulating Electrode, bipolar, 5 Fr. Should be USA FDA & CE Approved	Bipolar	TAKE-APART Bipolar Forceps, long, flat jaws, outer diameter 2.4 mm Should be USA FDA & CE Approved	Cord	Bipolar High Frequency Cord with 2 x 4 mm banana-plug , length 300 cm Should be USA FDA & CE Approved				
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3	SUJITA HEAD FIXATION SYSTEM	<p>Light weighted high quality alloy rustfree with table attachments suitable to fit in all tables.</p> <p>With Head holder ,Head frame & all in one fixation.</p>	1	<p>*Aesculap</p> <p>*AVM</p> <p>*Gesco</p> <p>*Kalelker</p>	400000-600000/-	<p>Essential for all elective brain and cervical microscopic neurosurgeries.</p> <p>The multi-purpose head frame securely fixates patients head in desired position and angels during</p>								

						the Neuro surgery.
4	ELECTRIC HIGH SPEED DRILL WITH CRANIOTOME AND DRILL SET.	<p>Electrical Drill System with Power and High Speed upto 75,000rpm. System should have inbuilt irrigation facility System should have inbuilt Endoscope Lense Cleaning facility System should have inbuilt Port for integration with nerve monitoring system Touch Screen Console to allow visible display, setting of speed, hand-piece selection. Foot control for varying the speed and foot button for reverse rotation. System should give audible beeps / alerts while in reverse action. Motor Should be light weight and not be bulky The motor should be powerful with power-120W and torque 25mN-m and should be in design to reduce vibration. Motor should be between 3 to 4 inches in length and 0.6 to 0.7 inch in diameter The motor should be have infinite duty cycle at 60000 rpm. No Lubrication or seal should be required to run the motor. The Foot control and Motor cables should be colored at ends for identification Cables should be lightweight, flexible and autoclavable. Specialized attachment and tool for cutting metal implants. Attachments should have tapered and angled design for better visibility under</p>	1	<p>*Medtronics *Aesculap</p>	1600000/-	Essential for all elective brain and cervical microscopic neurosurgeries.

		<p>microscope.</p> <p>Should have quick release and lock system for tools and attachments.</p> <p>There should be colour coding to identify matching attachments and tools.</p> <p>The powered pedicle screw placement hand piece should be quoted</p> <p>Weight of the hand piece should not be more than 900 gms</p> <p>Speed of the hand piece should not be upto 250rpm and torque 7Nm</p> <p>Should be compatible with all major pedicle screw manufactures in the market</p> <p>Reciprocating, Sagital and Oscillating Saws should be quoted in options along with blades.</p> <p><u>Attachment and Dissecting Tools</u></p> <p>System should have Footed attachments for multi level leminectormy along with 3.0mm dia tapered tools 10 nos.</p> <p>System should have 9cm and 14cm long straight attachments with 3.0mm, 4.0mm, 5.0mm diameter ball fluted tools 10nos each to be quoted.</p> <p>System should have 9cm and 14cm long angled attachments with 3.0mm, 4.0mm, 5.0mm diameter ball diamond tools 10nos each to be quoted.</p> <p>System should have micro telescopic attachments less than 5mm in dia, 12cm long Straight, curved and 15cm long hooded with telescopic base for Endoscopic applications along with 2.5mm Dia Match Head and 3.0mm Dia Match head diamond 5 nos each for both tube lengths should be quoted.</p> <p>Metal cutting attachment along with 1.6mm & 3.0mm diameter carbide tools (5 each) should be quoted.</p>				
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5	MICRONEUROSUGERY SET	Light weight with heavy duty corrosion resistant, auto clavable. International German grad steel.	1	*AVM *Gesco *Kalelker	100000/-	All basic instruments set needed in all cranial and spinal tumors vascular disorder.
6	GENERAL SET FOR CRANIOTOMY	Light weight with heavy duty corrosion resistant, auto clavable. International German grad steel.	1	*AVM *Gesco *Kalelker	50000/-	Essential to deal with mass casualties involving head injuries.
7	SPINAL SURGERY SET FOR ANTERIOR AND POSTERIOR APPROACHES FOR CERVICAL, DORSO-LUMBAR SPINE.	Light weight with heavy duty corrosion resistant, auto clavable. International German grad steel. Micro lumbar retractor , claward, soft tissue retractors with hinges, claward inter vertebral body spreader, laminar retractor , hinged finochito retractor, hinged mastoid retractors , pedical sound nerve route retractor, kerrison's punches from 1 mm to 5 mm in size and 45 and 90 degree angle, up cutting and down cutting bits.Havath peraosteal elevator.	1	*AVM *Gesco *Kalelker	400000/-	For fixation and decompression of spine in cases of trauma slip disc and tumors.