

DEPARTMENT OF NEUROSURGERY

Sl. No.	Name of the Items	Description	Requirments
1	Aneurysm clips	description	
<p>All should be Mri compatible, minimal artifact - Titanium only. If special applicator is required, that should be provided.Presterile ready to use packaging preferred. Quote entire range of clips available of the same make so that appropriate selection may be made. Clips descriptions given below are required but more sizes and types may be selected from your quotation.</p>			
a	Aneurysm clip	max. Opening 7mm force 180 grams, Blade length 9mm ,curved & straight permanent	5 each
b	Aneurysm clip	max. Opening 7.8mm force 180 grams, Blade length 11mm,curved & straight permanent	5 each
c	Aneurysm clip	max. Opening 5.7mm force 200 grams, Blade length 7mm,curved & straight permanent	5 each
d	Aneurysm clip	max. Opening 3.3mm force 110 grams, Blade length 3mm, permanent	5
e	Aneurysm clip	max. Opening 4mm force 110 grams, Blade length 5mm, permanent	5
f	Aneurysm clip	max. Opening 9.2mm force 280 grams, Blade length 15mm,curved & straight permanent	2 each
g	Aneurysm clip	temporary max. Opening 7mm force 70 grams, Blade length 9mm	1
h	Aneurysm clip	temporary max. Opening 6.8mm force 70 grams, Blade length 8.4mm,	1
i	Aneurysm clip	Sundt graft type vessel wrapping clip	2
j	Aneurysm clip	fenestrated permanent clips of various sizes	2 each

Sl. No.	Name of the Items	Description	Requirments
k	L type aneurysm clip	Aneurism clips of L type configuration with low profile sping mechanism, 7 mm, 9 mm and 12 mm straight and curved types.	5 each
2	Acrylic for cranioplasty	description	
		sterile or sterizable. Sample to be provided before selection	
	acrylic cement	methylmethacrylate medical grade dental cement for cranioplasty in powder form which polymerizes and sets with addition of liquid polymerizing agent with adequate time for moulding into shape during surgery. All components should be sterilizable by appropriate means in its own containers.	10
3	Central venous line and arterial cannula	description	
		sterile .Sample to be provided before selection	
a	arterial cannula	20 gauge arterial cannula and extension lines	50
	Arterial transducer	transducer set for measurement of invasive blood pressure monitoring. Please quote for entire set for arterial bp monitoring	30
b	cavafix	70 cm, 16 guage for insertion via basilic vein or femoral vein (entire insertion set)	50

Sl. No.	Name of the Items	Description	Requirments
c	central venous line	20 cm for subclavian line 7f (adult) and 5 f (pediatric) for triple lumen central venous line, radiopaque marker, infusion ports. (entire insertion set)	50
d	3 way with 10 cm extension		100
4	Compact discs	description	
		sample to be provided	
a	compact discs	Writable compact discs in packs of 100. supporting cd writing speeds upto 52 X.	2
b	DVD	Writable digital versatile discs in packs of 100. [4.5 gb or more] capable of 16x speed atleast. With scratch guard layer for long term archiving	2
c	Bluray DVD	Bluray DVD discs, with cover each 50 gb or more	20
d	compact disc case	thin, low profile, white, translucent semi-rigid plastic protective case for compact discs and DVDs. One case for one disc	400
5	compressed nitrogen gas	description	
		Should exchange cylinders once empty, should provide year long supply	
	compressed nitrogen gas	medical grade compressed nitrogen gas in medical grade cylinders with pressure gauge. Compatible for use in high speed pneumatic drill of any make. Capacity should be mentioned. Two cylinders to be provided. Refill to be provided as and when empty within 24 hours.	20

Sl. No.	Name of the Items	Description	Requirments
6	Epidural catheter set	description	
		16G tuhoy needle, epidural catheter with markings, adaptor, injection port	75
7	Surgical dressing material	description	
		All in sterile ready to use packaging. Identical samples to be provided prior to selection	
a	Transparent cannula site dressing	Transparent polyurathane, impervious to bacteria, but permeable to water vapour maintaining transparency. Self adhesive (10X12 cm) with a chlorhexidine gluconate gel layer (3X4 cm) and IV line securing adhesive strip and label	100
b	Transpore plaster	latex-free, hypoallergenic, transparent and perforated plastic tape 1 inch	20
c	Micropore plaster	latex free self adhesive paper tape [tan colour preferred] 1 inch	20
d	Micropore plaster	latex free self adhesive paper tape [tan colour preferred] 2 inch	20
e	Elastic crepe bandage	six inches breadth type, four inches breadth type	20
f	thromoembolism stocking	Lycra containing thromboembolism prevention stocking, thigh to ankle level, various sizes for patients in ICU, immobile patients. Snug fit	50
8	Dural graft	description	

Sl. No.	Name of the Items	Description	Requirments
		All in sterile ready to use packaging. Identical samples to be provided prior to selection	
	artificial dural graft	non-biological / biological origin , implantable, artificial dural graft. Sewable to normal dura. For permamant implant. Minimal adhesion formation. expanded polytetrafluoroethylene (ePTFE) preferred.	30
9	Endovascular surgery consumables	description	
		Hydrophilic micro-catheters and coil embolisation system for endovascular management of intracranial aneurysms and arteriovenous malformations. Quote for entire range of catheters and coils, accesories and other embolisation materials including liquid polymer emolisation material for comprehensive management of aneurysms and arteriovenous malformation. Samples and demonstration and on-site technical help mandatory with training for four neurosurgeons at an institute where the product is being used	50 sets
10	Foley catheter	description	

Sl. No.	Name of the Items	Description	Requirments
		All in sterile ready to use packaging. Sample to be provided for ascertaining quality before selection. Quote separatley for each size.	
a	Foley catheter	14F, 16F, 12F, 10F, 8F [100% pure silicone, 2 way bulb]	15
b	Urinary drainage bag	For collection of urine from Foley catheter with volume measurement lines for as little as 50 ml, non-return valve and transparent.	100
c	silicone balloon catheter	for endoscopy	15
11	Consumables for pneumatic drill	description	
		Compatible with Midas Rex legend Gold pneumatic drill, MANMAN drill and NSK drill which is being used in Neurosurgery Operation theatre. Quote for all the variety of cutting tools compatible with this drill. Needed types wil be selected. Broad specifications are given below	
12	Cutting tools	Cutting bur, [diamond and metal] please quate all varieties	50
		craiotomy blades	
		Perforator attachment [if compatible] with plunge prevention mechanism	5
13	Diffuser	Diffuser for drill, lubricant if applicable	50

Sl. No.	Name of the Items	Description	Requirments
14	Cleaning fluids and lubricants	Proprietary cleaning fluids, lubricants,brushes	20
15	Patties and cottonoids	description	
		All in sterile ready to use packaging.	
a	Neurosurgical patties	Sterile, ready to use cotton patties of different sizes, in sterile packaging. Should be of following sizes [5X5 mm, 10X 10 mm, 10X15 mm, 20X 20 mm, 20X 30 mm , 20X 40 mm, 20X50 mm] each pack should contain atleast 10 patties of same size	500
b	Neurosurgical paddies	silicone transparent, threaded radioopaque	25
c	Neurosurgical cottonoids	Sterile, ready to use cottonoids with visible[preferably black] tails fo different sizes in ready to use sterile packs	100
d	Softroll cotton	softroll cotton [need not be sterile]	20
16	Peforator with plunge guard device	description	
	Perforator with plunge guard	Perforator with inherent mechanism to stop a plunge stopping perforation once dura is reached. Should be compatible with Hudson's brace available in jipmer	25
17	CSF diversion device	description	
		All in sterile ready to use packaging. Identical samples to be provided prior to selection	

Sl. No.	Name of the Items	Description	Requirments
a	Ventriculoperitoneal shunt [medium pressure, adult size]	Burr hole design of chamber and valve with diaphragm type valve. Chamber should sit on the burrhole which allows aspiration of CSF if required. Biocompatible material. Medium opening pressure. Adult size	50
b	Ventriculoperitoneal shunt [medium pressure, pediatric size]	Burr hole design of chamber and valve with diaphragm type valve. Chamber should sit on the burrhole which allows aspiration of CSF if required. Biocompatible material. Medium opening pressure. Pediatric size	50
c	Ventriculoperitoneal shunt antibacterial [medium pressure, pediatric size]	Antibacterial incorporated within substance of the shunt material [not coated] which elutes to prevent shunt infection	20
d	Programmable shunt	Programmable ventriculoperitoneal shunt with external programming device for use in normal pressure hydrocephalus, 10 mm pressure increment settings	10
e	implantable ommaya reservoir system	implantable ommaya reservoir system of two different sizes with ventricular catheter. Capable of tapping from reservoir percutaneously or for instilling drugs	2
f	Lumboperitoneal shunt system	implantable lumbo peritoneal shunt system with Touhey needle and connectors	5

Sl. No.	Name of the Items	Description	Requirments
g	External ventricular drainage system	external ventricular drainage system which should include ventricular catheter, connecting tubes, leak proof drainage bag with volume markings and built in csf pressure scale {in a sterile and ready to use pack.}	50
h	Lumbar CSF drainage system	intrathecal catheter and Touhey needle and connecting system for Lumbar CSF drainage. Should include a leak proof collecting bag with volume scale markings.	5
18	Fibrin glue	description	
		All in sterile ready to use packaging. IF not storable on site , the material should be provided on demand withing one days time.	
	Fibrin glue	Glue for use in neurosurgery based on fibrin coagulum formed on mixing components in easy to apply chamber and nozzle system	50
		Components, if derived from pooled or single donor human blood should be free from all known pathogens	
19	Gigle saw wire cutter	description	
		Imported only, Quality to be assessed before selection. So identical samples to be provided.	
	Gigle saw wire cutter for craniotomy	should not fray/break on using. Sterilizable. Small round low profile loops at either end.	50

Sl. No.	Name of the Items	Description	Requirments
		identical sample should be provided before selection	
		In packs	
20	Lamps for microscope	description	
a	Halogen lamps	for leica f40 525 microscope	5
b	Xenon lamps	for leica f40 525 microscope, and Mollerwedel hir 700, 3/1000	1 each
21	Lumbar puncture needle	description	
		All in setrile packs. Identical samples to be provided before selection	
	Lumbar puncture needle	Single use disposable lumbar puncture needles of sizes 18G, 20G, 22G, 25G [quote separately for each size	20 each
22	IV and Suction catheters	description	
		All in setrile packs. Identical samples to be provided before selection	
a	extension tubes	100 and 200 cm	50
b	Suction catheters	Single use disposable but sterilisable if required flexible, blunt tipped catheters for suctioning inside endotracheal tube.	1000

Sl. No.	Name of the Items	Description	Requirments
c	Self contained suction catheter	Self contained suction catheter which may be used for endotracheal suctioning on ventilated patients with plastic envelope containing threadable and retractable soft blunt nosed catheter. A thumb depressable switch to initiate and stop suctioning when connected to wall suction. For multiple use over a period of one week or more	100
e	Micro drip set	Microdrip dial for precise infusion	100
23	Reagent for sodium potassium analyser	description	
	reagents compatible with sodium potassium analyser available in ICU	Compatible with 'rapidchem' analyser	20
24	Consumables for maquet ventillator	description	
a	Bacterial filter		200
b	nebuliser		200
c	Oxygen cell		5
d	Casette		5
		Please also quote all consumable items required for safe running of the ventillator.	
25	Patient restraining system	description	

Sl. No.	Name of the Items	Description	Requirments
		Easy to use patient restraining system, non traumatic reusable,	20
26	Suture materials for neurosurgery	description	
a	polypropylene monofilament	polypropylene monofilament suture of size 8-0 with atruamatic swaged needle , double armed	15
b	polypropylene monofilament	polypropylene monofilament suture of size 10-0 with atruamatic swaged needle for microvascular anastomosis , double armed	30
26	hemostatic agent	description	
		All in sterile ready to use packaging. Identical samples to be provided prior to selection	
a	Activated regenerated cellulose	hemostatic, activated regenerated celluslose for introperative hemostasis in mesh form	200
b	Activated regenerated cellulose	hemostatic activated regenerated celluslose for intropeative hemostasis in fibrillar form	200
c	Gelatin foam	sterile ready to use gelatin foam in tear away package for use as heamostatic agent in neurosurgery.	500
d	Injectable hemostatic agent	Prefilled syringe with hemostatic matrix agent for intraoperative use.	20

Sl. No.	Name of the Items	Description	Requirments
e	Bone wax	easily squashable, bone wax for sealing bleeding bone edges, sterile and ready to use in tear open packages. Should not stick to glove.	500
		SPINAL / CRANIOFACIAL IMPLANTS	
27	implant description	All should be titanium alloy which are MRI compatible and implantable. All special instruments needed for implanting should be provided on loan basis during surgery in containers which can be sterilized and ready on day of surgery.	
28	Cervical spacer	cervical spacer, titanium	5
29	CERVICAL ANTERIOR PLATING SYSTEM - TITANIUM		
	SINGLE LEVEL PLATE		
a	LENGTH	26 MM	2
b		28 MM	2
c		30 MM	2
d		32 MM	2
e		35 MM	2
f		38 MM	2
30	TWO LEVEL PLATE		
a	LENGTH	41 MM	2
b		44 MM	2
c		47 MM	2

Sl. No.	Name of the Items	Description	Requirments
d		50 MM	2
e		53 MM	2
31	CORTICAL SCREW 4 MM X 14 MM LENGTH		20
32	CORTICAL SCREW 4 MM X 16 MM LENGTH		20
33	CORTICAL SCREW 4 MM X 18 MM LENGTH		20
34	LOCKING SCREW 2.5 MM		10
36	Instrumentation for craniocervical junction fusion		
a	Contour rods	contour rods made of MRI compatible titanium with serrations for holding wires/ cables for occipitocervical junction fusion	10
b	Wires	24 G titanium wires which can be braided	10
c	Cables	Cables for insterspinous wiring and accessories for applying it [Imported only] [entiire set]	10

Sl. No.	Name of the Items	Description	Requirments
37	Halo vest	Halo ring, titanium pins and vest for extended immobilisation of upper cervical spine. Custom fit to be ensured as and when necessary. System should be MRI compatible with minimal imaging artifacts. Tool kit for applying and removing. Demonstration and technical assistance required.	3
a	Absorbable cranial fixation	Absorbable cranial fixation system	10
	Bone flap fixation system	for fixing bone flap using titanium or similar biocompatible material with thin profile, preferably with self tapping screws or similar compressing plates	10
b	Burr hole button	for cosmetic occlusion of burrholes	50
c	Philadelphia collars	Philadelphia type hard cervical collar	20
38	Skin staplers	description	
		All in sterile ready to use packaging.	
a	Skin staplers	For incision approximation. With 35 pins. Compact design. Sterile.	200
		one stapler remover with every ten staples	
b	Raney clips	plastic	100
39	sterile drapes	description	
		All in sterile ready to use packaging.	
a	incise drape	self adhesive, transparent, 1.2X1.2 m, adhesive area greater than 20X20 cm	100

Sl. No.	Name of the Items	Description	Requirments
b	craniotomy drape	central round integrated self adhesive transparent area of diameter greater than 20 cm, with surrounding flange, tubing for drainge of blood and wash fluid, rest of the non-woven material of the drape should be fluid impermeable of dimensions 2X1.6 m. Capable of covering the patients torso.	200
c	Ventriculoperitoneal shunt drape	For ventricular shunt surgery covering head to abdomen with transparent stcking operation site plastic incise drape	50
d	disposable surgeon dress	disposable surgeon dress with integrated face mask and visor for use in during surgery on patients with HIV/Hbsag	100
e	Microscope drape	Transparent thin sterile microscope drape for use with Leica F40 neurosurgical operating microscope. {sample to be provided to assess suitability	50
40	Airway	description	
a	Portex tracheostomy tube	4	5
b	Portex tracheostomy tube	8.5	5
c	Portex tracheostomy tube	8	5
d	Portex tracheostomy tube	7.5	5

Sl. No.	Name of the Items	Description	Requirments
e	Portex tracheostomy tube	7	5
f	Portex tracheostomy tube	6.5	5
g	metal tracheostomy tube - fuller's type	Fullers 30	30
h	Metal tracheostomy tube - Jackson's type	Jackson 28	5
	Silicone tracheostomy tube, cuffless with obturator, speaking hole, size 4, 6 and 8		5
i	Silicone tracheostomy tube, cuffed size 4, 6 and 8	suitable for prolonged ventilation	5
41	Incentive spirometer	Incentive spirometer with 3 ball design. Expiration and inspiration	10
42	50 ml syringe	50 ml syringe [sterile] for use with syringe infusion pumps	50
43	Ambu bag with mask	Transluscent ambubag with mask, valve and rebreathing bag	5
44	Bains circuit	Disposale	20
45	Dial flow	IV fluid flow controller	50
46	Nebulisation set		50

Sl. No.	Name of the Items	Description	Requirments
47	special drugs/solutions/items		
a	Papverine	for use intraoperatively to reverse vasospasm. Ampoules	25
b	Vasopressin	Vasopressin for Intravenous or subcutaneous use for diabetes insipidus	50
c	Nimodipine	60 mg tablet/capsule	1000
c	Nimodipine	iv preparation in vial	100
d	Desmopressin	nasal spray canisters with accessories to use it	20
e	Low molecular weight dextran	Low molecular weight dextran	50
f	Pregel		200
g	NIBP cuff	compatible with monitors in ICU.	10
h	Pressure bag	Pressure bag for pressure infusion of fluids	10
i	Povidone spray	Povidone iodine spray in canisters for preparing surgical site	50
j	Chlorhexidine handrub	Non-aquous chlorhexidine hand rub with dispensing bottle, nozzle, lever	50
k	Chlorhexidine hand wash	Chlorhexidine based surgical hand scrub with moisturiser and dispensing bottle, nozzle, lever	50
	Normal saline in bags	normal saline in 500ml quantity in bags which can be used with pressure infuser	20
l	Distilled water	in cans/ appropriate containers with dispensing knob	50
m	Instrument lubricant	Instrument lubricant concentrate, with antimicrobial activity	20

Sl. No.	Name of the Items	Description	Requirments
n	O.P. cidex solution for casset sterilizing		50
o	Cables for diathermy	ALSA, L&T, Martin diathermy available in jipmer	10
p	ketosticks	for urione sugar and ketones, bottle of 50	50
q	glucose sticks	with glucometer available in neurosurgery ICU and ward, bottle of 50	100
r	MDI adaptor for nebulisation		50
s	Nasal oxygen prong		50
t	Spo2 cable	compatible with monitors available in ICU [L&t]	10
u	Peel away door way mat	Peel away door mat system for ICU floor to reduce foot wear borne contamination of ICU floor with surface sticky peel away layers.	50
v	Face mask with shield	Surgeon face mask with clear plastic visor shield built in, with malleable nose clip. Should prevent aerosol or droplet splash on eyes.	200
48	Rapid Chem 744 (Na+/K+) analyzer reagent	Should be compatible with Siemens	3 Packets
49	Lazer Printer Cartridge	HP Laser Jet P1505n	5
50	Dot matrix Printer Cartridge	EPSON LQ-1150 II	5

Sl. No.	Name of the Items	Description	Requirments
51	Dot matrix Printer Ribbon	EPSON LQ-1150 II	20
	Item	Specification	
1	Sleek actuator mechanism balanced bayonnetted microforceps	Microforceps with sleek actuators with an excursion less than 1 cm [not curvacous body spring mechanissm, with balancing weight and color coding at the opposite end	2
2	Sleek actuator mechanism balanced bayonnetted microscissors	Microscissors with sleek actuators with an excursion less than 1 cm [not curvacous body spring mechanissm, with balancing weight and color coding at the opposite end	2
3	Sleek actuator mechanism balanced bayonnetted microneedle holder	Microneedle holder with sleek actuators with an excursion less than 1 cm [not curvacous body spring mechanissm, with balancing weight and color coding at the opposite end	2
4	Aneurysm clip applying forceps	Special forceps for applying clips in narrow corridors with 360 degree rotation or flexible angulation, very slim design, 90mm and 110 mm , mini and standard[demo required]	1 each
6	Wilson spinal frame	to flex thoracoabdominal area of patient on operation table without causing abdominal compression	1
7	Blue ray DVD writer	internal as well as extenal (quote for both)	1
9	Twist drill	hand held twist drill set with chuck, drill bits of various sizes [10]	5

Sl. No.	Name of the Items	Description	Requirments
10	electrically operated twist drill	chargeable variety with all accessories and drill bits	2
11	Brain cannula	brain cannula[ventriculostomy cannula] with opeining in the tip with obturator [stillet]	10
12	Cheetle forceps		10
13	Leyla retractor arms	flexible arms compatible with current Leyla base unit in Jipmer	3
14	J type stand for DORO head frame system	J type stand [small and large] attachable to the DORO skull frame using rail guide with black coated retractor system [2 each] on flexible retractor system	1 set
15	Silicone pediatric head holder	Pediatric silicone head fixation system for use with DORO system	1
16	Air bed	Air mattress to prevent bed sores. Demo required. High quality with CPR compatible deflation valve, multibarelled type	10
17	Digital copier, scanner	Large format able to scan A3 size scan films	2
18	Foot blocks	to raise foot end of bed	10
19	Infusion pump	syringe infusion pump	10
20	Iv infusion pump	Infusion pump compatible with IV bottles and tubings with digital display	5
21	Walker	for patient rehabilitation, adjustable light weight. Demo required	2
22	LED torch light	single LED light torchlight with 5000mdcandela or better with plastic body for use in ICU	20

Sl. No.	Name of the Items	Description	Requirments
23	Surgeon's shoes (pairs)	Plastic washable, with side holes, comfortable wear three sizes	10
24	Ultrasonic nebuliser and humidifier	for use with Maquet type ventilator currently used in ICU	6
25	Patient warming system	With accessories, temperature control, any consumables to be quoted	2
26	Zoom camera system for patient monitoring	Ceiling mountable zoom camera system with remotely controllable [wireless as well as online remote] swivelling and zooming with wireless transmission to a central monitor as well as relay over the internet with adequate security or encryption mechanism. capable of being mounted on ICU ceiling. all software and hardware, demo required.	2
27	Washable tablet format computer for use in ICU	Washable or alcohol wipable thin profile touch screen computer with built in camera, infra- red port, bar code reader, central dock for recharging capable for patient use in ICU	1
28	Table top dissection microscope	table top or stand based microscope for use in cadaver dissection lab with binocular eyepieces, powerful halogen lamp and camera to record output. Should have hand or foot controlled zoom and focus. Compact design. Demo required.	2

Sl. No.	Name of the Items	Description	Requirments
29	Sugical operating loops	Spectale mountable magnifying loops with a swivel design with good ergonomics and light weight. 4x	2