



ACU/AUTY/Neuro/Re Tender/1630 /2019-20

Date 13 DEC 2019

### RE TENDER NOTIFICATION

Adichunchanagiri University is inviting Closed tenders for the supply of Neurosurgical equipment for the Department of Neurosciences from the competitive firms.

1	Name of the work	Supply of Neurosurgery Equipment for the Department of Neurosciences
2	Tender documents available for download	12-12-2019 to 21-12-2019 up to 5:00 PM

Sl. No	Requirements for Neurosciences	Quantity (In No's)
<b>Neurosurgery Equipment's</b>		
1.	CUSA	1
2.	Neuro Drill	1
3.	General Neurosurgical instruments	1
4.	C - Arm with flat panel	1
5.	Zero Pressure Suction Machine	1

Sl. No	Anaesthetic Requirements for Neurosciences	Quantity (In No's)
1.	Fibre optic Laryngoscope	1
2.	Video Laryngoscope	1

**Note:** Kindly send quotes in 2 bid format (Technical and Financial bids sealed separately)



## NEUROSURGERY EQUIPMENTS

### 1. Equipment Name: CUSA (Cavitron Ultrasonic Surgical Aspirator)

#### Technical Specification

Sl.No.	Description	Qty.
1	CUSA Console containing : Foot switch, Cooling reservoir. Contamination Guard, in-service Video featuring user friendly control panel guide with simplified hand piece and manifold tubing, laparoscopic mode for effective Minimal invasive procedures. Unique tissue select feature allows surgeons the freedom to choose the selectivity of tissue fragmentation, maximizes tactile feedback, enabling the surgeon to avoid vital structures, offer Greater control and precision. For dissection near delicate structures. Pumps run at lower values to reduce noise in the OR. Enters a quiet "resting" state when not in use. Power maximum amplitude. Provides maximum suction power to increase tip/tissue Coupling and fragmentation ability.	1 No.
2	Tip Torquing Set	1 Set
3	36KHz Straight Hand Piece Lightest hand piece of any ultrasonic aspirator system Providing delicate control. Magnetostrictive technology utilized for increased Surgeon confidence and reliability. Curved tips provide greater visibility under an operating Microscope. Selection of nine tips for a wide variety of surgical Applications. CEM™ nosecone available to provide simultaneous or independent activation of ultrasonic and electrosurgical Functions. Complete disassembly of the hand piece for cleaning with No inaccessible channels to trap tissue. Steam serializable hand piece reduces turnaround time and is in compliance with industry standards. Redesigned colour coded packaging provides easy Identification of tips and manifold tubing.	1 Piece
4	36 KHz Standard Tip – 1.98 mm inner Diameter, 4.57 cm length.	4 Pieces
5	36 KHz Tubing Set.	6 Pieces
6	36 KHz Sterilization Case.	1 Piece
7	Contamination Guard (2 Nos. per Box)	1 Box
8	2000ml suction receptacle, reusable	2
9	CEM Nosecone to be used with all the tips as Electrocautery- 36KHz CEM Nosecone	



## **2. Equipment Name: Electrical drill (Neuro Drill) For Spine and Brain**

### **Technical Specification**

1. Should be a versatile powered system, having cranial & spine, applications
2. Should have in built user friendly interactive menu and illustrative help guide
3. Should have large Touch screen monitor
4. The various parameters should be able to adjust either from touch screen panel or from the multifunction foot switch
5. Should be able to connect multiple hand pieces at a time like Neuro Drills (up to 75000RPM),
6. Console should recognize the various hand pieces and automatically adjust the settings accordingly
7. Should have inbuilt pumps each for Irrigation (5Cc/ Min to 100Cc / Min)
8. Should have multifunction ergonomically designed foot control with light emission for easy identification
9. Should be able to control Speed / Mode, Forward / Reverse toggle, Active hand piece change from the Foot control itself
10. Should have the provision to mount the console on various sizes of IV pole
11. Should have the option of work without foot paddle
12. Should have two pumps to control irrigation
13. Attachments and Accessories:
14. Should have 9cm, 10cm - 1 No. each
15. Craniotomy Attachment (Adult) - 1 No.
16. Craniotomy Tools
17. Adult Cutter- 5 Nos. each
18. Tools (Burs) for 10 cm
19. Ball Regular (Cutting) - 4 mm, 5 mm - 1 No. each
20. Ball Diamond - 4 mm, 5 mm - 1 No. each
21. Tools (Burs) for 9 cm
22. Acron 6 mm, 7.5 mm - 1 No. Each
23. Ball Regular (Cutting) - 5 mm bur - 1 No. Each

## **3. LIST OF GENERAL INSTRUMENTS FOR NEUROSURGERY**

<b>SL.No</b>	<b>Description</b>	<b>QTY</b>	<b>Brand</b>
<b>Laminectomy Gen 1St Set</b>			
1	Perforated Tray 18"x12"x6.5"	1	Other
2	Kidney Tray	2	Other
3	Galli pot	6	Other
4	scalpel handle no. 3, 125 mm	3	INDIAN
5	scalpel handle no. 4, 135 mm	3	INDIAN
6	scalpel handle no. 7, 160 mm	3	INDIAN
7	FOERSTER swab forceps serrated, 240 mm	1	INDIAN



8	FRAZIER Suction tube 2 mm, 110 mm	1	INDIAN
9	FRAZIER Suction tube 3 mm, 110 mm	1	INDIAN
10	FRAZIER Suction tube 1,5 mm, 130 mm	1	INDIAN
11	FRAZIER Suction tube 5 mm, 160 mm	1	INDIAN
12	FRAZIER Suction tube 4 mm, 110 mm	1	INDIAN
13	Kocher Langenbeck Retractor 80x16mm	2	INDIAN
14	LANGENBECK retractor 14x70 mm, 210 mm	2	INDIAN
15	LANGENBECK retractor 55x11 mm, 210 mm	2	INDIAN
16	BACKHAUS towel forceps, 110 mm	4	INDIAN
17	BACKHAUS towel forceps, 135 mm	4	INDIAN
18	HALSTED mosquito forceps, 125 mm, str.	2	INDIAN
19	HALSTED mosquito forceps 125 mm, cvd.	2	INDIAN
20	Artery Forceps ,15cm, Straight ,Delicate	5	INDIAN
21	Artery Forceps ,15cm, Curved, Delicate	2	INDIAN
22	Kocher Forceps 8" Cvd	2	INDIAN
23	Allis Tissue and Organ Holding Forcep 4:5 Teeth, 15.0cm	1	INDIAN
24	Allis Tissue and Organ Holding Forcep 5:6 Teeth, 19.0cm	1	INDIAN
25	TOENNIS ADSON dissecting scissors 17,5cm	2	IMPORTED
26	BABY-CRILE-WOOD needleholder 15cm TC	2	INDIAN
27	MAYO HEGAR needleholder TC, 180 mm	2	INDIAN
28	RYDER needleholder TC, 200 mm	2	INDIAN
29	MAYO HEGAR needleholder TC, 200 mm	2	INDIAN
30	MAYO scissors straight, 170 mm	1	INDIAN
31	METZENBAUM scissors str. 145 mm	1	INDIAN
32	METZENBAUM fino scissors 180 mm, curve	1	INDIAN
33	METZENBAUM scissors cvd. mm	1	INDIAN
34	METZENBAUM scissors cvd. 145 mm	1	INDIAN
35	WAUGH tissue forceps serr. 1x2 Z., 200 m	1	INDIAN
36	Standard Dissecting Tooth Forceps 8"	1	INDIAN
37	forceps narrow dress., 160 mm	1	INDIAN
38	CUSHING forceps serr. 180 mm	1	INDIAN
39	ADSON forceps serrated, 120 mm	1	INDIAN
40	ADSON forceps Toothed, 150 mm	1	INDIAN
41	ADSON forceps serr. 1x2t., 120 mm	1	INDIAN
42	MICRO-ADSON forceps 1x2 teeth, 150 mm	1	INDIAN
43	Adson forceps plain 6"	2	INDIAN
44	GRUENWALD forceps bayonet., 200 mm	2	INDIAN
45	GRUENWALD nasal forceps. bayonet, 185 mm, TC	2	INDIAN
46	Grasp Forceps. YASARGIL, 5 mm, 220 mm bay.	1	IMPORTED
47	CASPAR Bone Curettes 22 cm, 3, 6 mm	1	IMPORTED
48	CASPAR Bone Curettes 22 cm, 4,4 mm	1	IMPORTED
49	CASPAR Bone Curettes 22 cm, 3,6 mm	2	IMPORTED



50	CASPAR Bone Curettes 22 cm, 4,4 mm	2	IMPORTED
51	Dissector PENFIELD,175 mm, double-ended	1	INDIAN
52	Dissector PENFIELD,195 mm, double-ended	1	INDIAN
53	Dissector PENFIELD,195 mm, double-ended	1	INDIAN
54	Dissector PENFIELD,205 mm, single-ended	2	INDIAN
55	STILLE osteotome 8 mm, 205 mm	2	INDIAN
56	STILLE osteotome 10 mm, 205 mm	2	INDIAN
57	STILLE osteotome 12 mm, 205 mm	2	INDIAN
58	STILLE osteotome 10 mm, 205 mm, cvd.	2	INDIAN
59	STILLE osteotome 12 mm, 205 mm, cvd.	2	INDIAN
60	KERRISON punch, 90°, with thin footplate 2mm	1	INDIAN
61	KERRISON punch, 90°, with thin footplate, 3mm	1	INDIAN
62	KERRISON punch, 90°, with thin footplate,4mm	1	INDIAN
63	LISTON -KEY-HORSLEY (TUDOR EDWARDS),10" 255mm	1	INDIAN
64	ANDERSON-ADSON retractor, 190 mm, sharp	4	INDIAN
65	MISKIMON retractor, 220 mm, blunt	2	IMPORTED
66	WEITLANER retractor, 130 mm, sharp	2	INDIAN
67	MOLLISON spreader, 155 mm, sharp	2	INDIAN
68	Casper Retractor set with ten Blades	1	INDIAN
69	Hemi laminectomy Retractor	6	INDIAN
70	Micro Dissectomy Retr Set with Hook & Blade	1	INDIAN
71	Kidney Tray 10"	5	INDIAN
72	Micro-Dissector CASPAR, 230 mm, 4,5 mm	2	INDIAN
73	PENNYBACKER Probe and Dissector, 230mm	1	INDIAN
74	CUSH ELEV SH NARR PERIOSTEAL,6mm,206mm	1	INDIAN
75	HOWARTH elevatorium double ended, 215 mm	1	INDIAN
76	ADSON elevator 17 cm, 8 mm	1	INDIAN
77	ADSON elevator 17 cm, 7 mm	1	INDIAN
78	SEDILLOT periosteal 15 mm, 215 mm	1	INDIAN
79	COBB Raspatory 13 mm, 290 mm	1	INDIAN
80	COBB elevator spinal 19 mm, 290 mm	1	INDIAN
81	Bergmann Mallet ,300gm ,24cm weight	1	INDIAN
82	STILLE LUER rongeur 225 mm, straight	1	IMPORTED
83	MARQUARDT bone rongeur 200 mm	1	IMPORTED
84	RÖTTGEN-RUSKIN bone rongeur, 240 mm	1	IMPORTED
85	Rongeur CUSHING,str., 180 mm, 2 x10 mm	1	IMPORTED
86	Rongeur LOVE-GRÜNW.,str., 180 mm, 3x10mm	1	IMPORTED
87	Rongeur CUSHING,downw., 180 mm, 2 x10 mm	1	IMPORTED
88	Rongeur LOVE-GRÜNW.,downw.,180 mm,3x10mm	1	IMPORTED
89	Rongeur CUSHING,upw., 180 mm, 2 x10 mm	1	IMPORTED
90	Rongeur LOVE-GRÜNW.,upw., 180 mm, 3x10mm	1	IMPORTED
91	KERRISON punch, 130°,with thin footplate	1	IMPORTED
92	KERRISON Punch, 130°, 180 mm, 2 mm	1	IMPORTED



93	KERRISON Punch, 130°, 180 mm, 3 mm	1	IMPORTED
94	KERRISON Punch, 130°, 180 mm, 4 mm	1	IMPORTED
95	KERRISON Punch, 130°, 180 mm, 5 mm	1	IMPORTED
96	Foraminotomy Punch, 180 mm, 2 mm	1	IMPORTED
97	Foraminotomy Punch, 130°, 180 mm, 3 mm	1	IMPORTED
98	Caspar Sharp Hook Tip Hook ,24.5cm, 5mm Tip Length	1	INDIAN
99	Caspar Blunt Hook Tip Hook ,24.5cm,5mm Tip Length	1	INDIAN
100	Expl./Coagulation Hook CASPAR, 245 mm	1	INDIAN
101	Expl./Coagulation Hook CASPAR, 245 mm	1	INDIAN
102	Caspar Blunt Hook Tip Hook ,24.5cm,3mm Tip Length	1	INDIAN
<b>Anterior Cervical</b>			
1	Perforated Tray 18" x12"x6.5"	1	INDIAN
2	S S Bowl 500ml	2	INDIAN
3	S S Bowl 200ml	1	INDIAN
4	Kidney Tray	1	INDIAN
5	FOERSTER swab forceps serrated, 240 mm	2	INDIAN
6	BACKHAUS towel forceps, 135 mm	4	INDIAN
7	scalpel handle no. 3, 125 mm	2	INDIAN
8	scalpel handle no. 4, 135 mm	2	INDIAN
9	scalpel handle no. 7, 160 mm	2	INDIAN
10	ADSON forceps serrated, 120 mm	1	INDIAN
11	forceps Standard dress., 160 mm	1	INDIAN
12	Forceps Standard dress., 180 mm	1	INDIAN
13	ADSON forceps 1x2 teeth, 120 mm	1	INDIAN
14	forceps narrow 1x2 t., 160 mm	1	INDIAN
15	forceps narrow 1x2 teeth, 180 mm	1	INDIAN
16	forceps tissue 1x2 t., 200 mm	1	INDIAN
17	GRUENWALD forceps bajonet., 200 mm	1	INDIAN
18	Toennis-Adson Neurosurgical Scissors 17.5cm,	4	INDIAN
19	METZENBAUM scissors cvd. 180 mm	1	INDIAN
20	MAYO scissors straight, 170 mm	1	INDIAN
21	Dissector PENFIELD,175 mm,double-ended	1	INDIAN
22	Dissector PENFIELD,195 mm,double-ended	1	INDIAN
23	Dissector PENFIELD,195 mm,double-ended	1	INDIAN
24	Dissector PENFIELD,205 mm,single-ended	1	INDIAN
25	CUSH ELEV SH NARR PERIOSTEAL,6mm,206mm	1	INDIAN
26	PENNYBACKER Probe and Dissector, 230mm	1	INDIAN
27	LANGENBECK retractor 14x70 mm, 210 mm	2	INDIAN
28	LANGENBECK retractor 55x15 mm, 210 mm	2	INDIAN
29	WEITLANER retractor, 130 mm, sharp	2	INDIAN
30	WEITLANER retractor, 165 mm, sharp	2	IMPORTED



31	CLOWARD Lamina Spreader, 135 mm	1	IMPORTED
32	Casper Pin Distractor set	1	IMPORTED
33	HALSTED mosquito forceps, 125 mm, str.	2	INDIAN
34	HALSTED mosquito forceps 125 mm,cvd.	4	INDIAN
35	Artery Forceps ,15cm,Straight ,Delicate	2	INDIAN
36	Artery Forceps ,15cm,Curved,Delicate	4	INDIAN
37	Mixer 6"	1	INDIAN
38	Allis Tissue and Organ Holding Forcep 4:5 Teeth, 15.0cm	4	INDIAN
39	DE BAKEY needleholder TC, 150 mm	2	INDIAN
40	MAYO HEGAR needleholder TC, 150 mm	1	INDIAN
41	CRILE WOOD needleholder 18cmTC	1	INDIAN
42	KERRISON punch, 130°,with thin footplate	1	IMPORTED
43	KERRISON punch, 130°,with thin FP,4 DEG,2MM	1	IMPORTED
44	Decker Rongeurs 2mm x 6mm straight	2	IMPORTED
45	Rongeur CUSHING,str., 180 mm, 2 x10 mm	1	IMPORTED
46	Rongeur CASPAR,str., 185 mm, 2 x12 mm	1	IMPORTED
47	LEMPERT Bone Curette 2 mm, 215 mm	1	IMPORTED
48	LEMPERT Bone Curette 2,4 mm, 215 mm	1	IMPORTED
49	LEMPERT Bone Curette 2,8 mm, 215 mm	1	IMPORTED
50	LEMPERT Bone Curette 2 mm, 215 mm, Cvd	1	IMPORTED
51	LEMPERT Bone Curette 2,4 mm, 215 mm,Cvd	1	IMPORTED
52	LEMPERT Bone Curette 2,8 mm, 215 mm, Cvd	1	IMPORTED
53	MAYFIELD bone rongeur 175 mm	1	INDIAN
54	BOEHLER rongeur 155 mm, 3 mm	1	INDIAN
55	BEYER rongeur 180 mm	1	INDIAN
56	RÖTTGEN-RUSKUN bone rongeur, 190 mm	1	INDIAN
57	COBB Raspatory 10 mm, 290 mm	1	INDIAN
58	Cervical Bone Graft Impactor,8 1/2", 6mm x 12mm	1	INDIAN
59	Cervical Bone Graft Impactor,8 1/2", 3.5 mm x 6mm	1	INDIAN
60	Bergmann Mallet ,300gm ,24cm weight	1	INDIAN
61	Cloward Retractor set with ten Blades	1	IMPORTED
62	Anterior Cervical radiolucent Retractor set	1	IMPORTED
<b>Craniotomy Gen 1St Set</b>			
1	Perforated Tray 18" x12"x6.5"	1	INDIAN
2	Kidney Tray	2	INDIAN
3	Galli pot	8	INDIAN
4	scalpel handle no. 3, 125 mm	2	INDIAN
5	scalpel handle no. 4, 135 mm	2	INDIAN
6	scalpel handle no. 7, 160 mm	2	INDIAN
7	FOERSTER swab forceps serrated, 240 mm	2	INDIAN
8	FRAZIER Suction tube 5 mm, 160 mm	1	INDIAN
9	FRAZIER Suction tube 5 mm, 130 mm	1	INDIAN
10	FRAZIER Suction tube 3 mm, 130 mm	1	INDIAN



11	FRAZIER Suction tube 2 mm, 110 mm	1	INDIAN
12	FRAZIER Suction tube 3 mm, 110 mm	1	INDIAN
13	Sundt3 Fr. Non-Rotatable Tip,4 1/2",6Fr	1	INDIAN
14	FRAZIER Suction tube 1,5 mm, 130 mm	1	INDIAN
15	FRAZIER Suction tube 4 mm, 110 mm	1	INDIAN
16	LANGENBECK retractor 55x11 mm, 210 mm	2	INDIAN
17	LANGENBECK retractor 40x13 mm, 210 mm	2	INDIAN
18	BACKHAUS towel forceps, 110 mm	3	INDIAN
19	BACKHAUS towel forceps, 135 mm	6	INDIAN
20	HALSTED mosquito forceps 125 mm,curved.	6	INDIAN
21	DANDY hemostatic forceps, 140 mm	12	INDIAN
22	GERALD forceps 1x2 t. straight, 175 mm	2	IMPORTED
23	Artery Forceps ,15cm,Curved,Delicate	1	INDIAN
24	Fine Artery forceps straight, 6"	5	INDIAN
25	BABY-CRILE-WOOD needle holder 15cm TC	1	INDIAN
26	RYDER needle holder TC, 200 mm	1	INDIAN
27	MAYO HEGAR needle holder TC, 180 mm	1	INDIAN
28	CRILE WOOD needle holder 20cm TC	1	INDIAN
29	METZENBAUM fine scissors 180 mm, curve	1	INDIAN
30	METZENBAUM scissors curved. 145 mm	1	INDIAN
31	MAYO scissors straight, 170 mm	1	INDIAN
32	METZENBAUM scissors 145 mm TC	1	INDIAN
33	ADSON Forceps bayonet, 175 mm	1	INDIAN
34	GRUENWALD nasal forceps. bayonet, 185 mm, TC	1	INDIAN
35	Standard Dissecting Tooth Forceps 8"	1	INDIAN
36	forceps tissue 1x2 t., 200 mm	1	INDIAN
37	CUSHING forceps serrated. 180 mm	2	INDIAN
38	McINDOE forceps serrated, 150 mm	2	INDIAN
39	MICRO-ADSON forceps 1x2 teeth, 150 mm	2	INDIAN
40	adson forceps plain 6"	1	INDIAN
41	ADSON forceps serr.1x2t., 120 mm	1	INDIAN
42	ADSON forceps serrated, 120 mm	1	INDIAN
43	Adson forceps plain 6"	1	INDIAN
44	Grasp.Forceps. YASARGIL, 5 mm, 220 mm bay.	1	IMPORTED
45	LEKSELL rongeurstrg.cve. 5 mm, 230 mm	1	IMPORTED
46	STILLE LUER rongeur 6 mm, 235 mm	1	IMPORTED
47	LEMPERT rongeur, 200 mm, straight	1	INDIAN
48	RÖTTGEN-RUSKUN bone rongeur, 190 mm	1	Osteokleev
49	KERRISON punch, 130°,with thin footplate	1	IMPORTED
50	KERRISON Punch, 130°, 180 mm, 3 mm	1	IMPORTED
51	KERRISON Punch, 130°, 180 mm, 4 mm	1	IMPORTED
52	VOLKMANN retractor. semi sharp,220 mm,9x19mm	1	INDIAN
53	SEDILLOT periosteal 15 mm, 215 mm	1	INDIAN
54	ADSON elevator 17 cm, 7 mm	1	INDIAN





55	ADSON elevator 17 cm, 8 mm	1	INDIAN
56	ADSON elevator 17 cm, 7 mm	1	INDIAN
57	Micro-Dissector CASPAR, 230 mm, 4,5 mm	1	INDIAN
58	Dissector PENFIELD, 205 mm, single-ended	2	INDIAN
59	Dissector PENFIELD, 175 mm, double-ended	1	INDIAN
60	HOWARTH elevator double ended, 215 mm	1	INDIAN
61	Sundt 3 Fr. Non-Rotatable Tip, 4 1/2", 6Fr	1	INDIAN
62	KERRISON punch, 130°, with thin footplate	1	IMPORTED
63	WEITLANER retractor, 165 mm, sharp	2	IMPORTED
64	JANSEN retractor blunt 110 mm	2	IMPORTED
65	CUSHING arterial retract. fig. 1, 190 mm	1	IMPORTED
66	CUSHING retractor 8 mm, 205 mm	1	IMPORTED
67	Dissector PENFIELD, 175 mm, double-ended	1	INDIAN
68	Dissector PENFIELD, 195 mm, double-ended	1	INDIAN
69	Dissector PENFIELD, 195 mm, double-ended	1	INDIAN
70	Dissector PENFIELD, 205 mm, single-ended	1	INDIAN
71	Brain Spatula Small	2	INDIAN
72	Brain Spatula Medium	2	INDIAN
73	Brain Spatula Large	2	INDIAN
74	Brain Spatula CUSHING, 180 mm, 7/9 mm	2	IMPORTED
75	Frazier Dura Dissector 15cm	1	INDIAN
76	Hudson Brace Set Complete	1	IMPORTED
77	GIGLI handle for wire saws,	4	INDIAN
78	DE MARTEL saw conductor 35 cm, flexible	6	INDIAN
79	OLIVECRONA wire saw 500mm	30	INDIAN
80	CONE Ventric. Cannula, 1,2 mm, 90 mm	1	INDIAN
81	CONE Ventric. Cannula, 2,4 mm, 90 mm	1	INDIAN
82	ADSON elevator 17 cm, 8 mm	1	INDIAN
83	ADSON elevator 17 cm, 7 mm	1	INDIAN
84	Rongeur CASPAR, str., 185 mm, 3 x 12 mm	1	IMPORTED
85	Rongeur CASPAR, downward, 185 mm, 3x12 mm	1	IMPORTED
86	Rongeur CASPAR, upwards, 185 mm, 3x12 mm	1	IMPORTED
87	Micro-Dissector CASPAR, 230 mm, 4,5 mm	1	INDIAN
88	Smith-Peterson ,9", STR, 3mm Rongeur	1	INDIAN
89	OSTEOTOMES STRAIGHT 6MM , 11"	1	INDIAN
90	FRAZIER retractor (Dura) sharp, 130 mm	1	INDIAN
91	DIETH.-HEGEMANN scissor 45°, 180mm, TC	1	IMPORTED
92	STANDARD scissors, bl/sh, str., 145 mm	2	INDIAN
93	FRIEDMAN rongeur 145 mm	1	IMPORTED
94	LEMPERT rongeur, 200 mm, curved	1	IMPORTED
95	Rongeur CUSHING, str., 180 mm, 2 x 10 mm	1	IMPORTED
96	Rongeur LOVE-GRÜNW., str., 180 mm, 3x10mm	1	IMPORTED
97	Rongeur CUSHING, upw., 180 mm, 2 x 10 mm	1	IMPORTED
98	Rongeur LOVE-GRÜNW., upw., 180 mm, 3x10mm	1	IMPORTED



99	DAUBENSPECK bone curette fg.0000, 200 mm	1	INDIAN
100	DAUBENSPECK bone curette fg. 000, 200 mm	1	INDIAN
<b>Burr Hole set</b>			
1	Perforated Tray 18" x12"x6.5"	1	
2	ADSON forceps serrated, 120 mm	1	INDIAN
3	forceps Standard dress., 160 mm	1	INDIAN
4	Forceps Standard dress., 180 mm	1	INDIAN
5	ADSON forceps 1x2 teeth, 120 mm	2	INDIAN
6	forceps narrow 1x2 t., 160 mm	1	INDIAN
7	forceps narrow 1x2 teeth, 180 mm	1	INDIAN
8	forceps tissue 1x2 t., 200 mm	1	INDIAN
9	GRUENWALD forceps bajonet., 200 mm	1	INDIAN
10	scalpel handle no. 3, 125 mm	2	INDIAN
11	scalpel handle no. 4, 135 mm	2	INDIAN
12	scalpel handle no. 7, 160 mm	2	INDIAN
13	Dissector PENFIELD,175 mm,double-ended	1	INDIAN
14	Dissector PENFIELD,205 mm,single-ended	1	INDIAN
15	Watson Cheyne Dissector,7" (18cm )	1	INDIAN
16	PENNYBACKER Probe and Dissector, 230mm	1	INDIAN
17	HOWARTH elevatorium double ended, 215 mm	1	INDIAN
18	FRAZIER Suction tube 5 mm, 160 mm	2	INDIAN
19	FRAZIER Suction tube 5 mm, 130 mm	2	INDIAN
20	FRAZIER Suction tube 3 mm, 130 mm	2	INDIAN
21	FRAZIER Suction tube 2 mm, 110 mm	2	INDIAN
22	FRAZIER Suction tube 3 mm, 110 mm	2	INDIAN
23	Sundt3 Fr. Non-Rotatable Tip,4 1/2",6Fr	2	INDIAN
24	FRAZIER Suction tube 1,5 mm, 130 mm	1	INDIAN
25	FRAZIER Suction tube 4 mm, 110 mm	1	INDIAN
26	BACKHAUS towel forceps, 135 mm	4	INDIAN
27	HALSTED mosquito forceps 125 mm,cvd.	4	INDIAN
28	Artery Forceps ,15cm,Curved,Delicate	4	INDIAN
29	Allis Tissue and Organ Holding Forcep 5:6 Teeth, 19.0cm	2	INDIAN
30	Allis Tissue and Organ Holding Forcep 4:5 Teeth, 15.0cm	2	INDIAN
31	MAYO HEGAR needleholder TC, 180 mm	1	INDIAN
32	DE BAKEY needleholder TC, 150 mm	1	INDIAN
33	METZENBAUM scissors cvd. 145 mm	1	INDIAN
34	JAMESON Dissecting scissor 150 mm	1	INDIAN
35	METZENBAUM scissors str. 180 mm	1	INDIAN
36	MAYO scissors straight, 170 mm	1	INDIAN
37	LANGENBECK retractor 35x8 mm, 210 mm	2	INDIAN
38	LANGENBECK retractor 28x10 mm, 210 mm	2	INDIAN
39	WEITLANER retractor, 130 mm, blunt	2	INDIAN



40	FREER septum elevat.shp/blunt, 185 mm	1	INDIAN
41	KERRISON punch, 130°,with thin footplate	1	INDIAN
42	LEMPERT rongeur, 200 mm, straight	1	INDIAN
43	Trachea retractor, 4 tooth, blunt 7"	1	INDIAN
44	Hudson Brace Set Complete	1	INDIAN
45	Kidney Tray	2	INDIAN
46	Galli pot	2	INDIAN
47	Trephine set	1	INDIAN
<b>Micro Instruments Set</b>			
1	Perforated Tray 18" x12"x6.5"	1	
2	Tumor Knife SAMII, 200 mm, 4,5 mm	1	IMPORTED
3	RHOTON Dissector, round, No. 1, 190 mm	1	IMPORTED
4	RHOTON Dissector, round, No. 2, 190 mm	1	IMPORTED
5	RHOTON Dissector, round, No. 3, 190 mm	1	IMPORTED
6	RHOTON Elevator, angled, No. 4, 190mm	1	IMPORTED
7	RHOTON Elevator, curved, No. 5, 190 mm	1	IMPORTED
8	RHOTON Dissector, small, No. 6, 190 mm	1	IMPORTED
9	RHOTON Dissector, medium, No. 7, 190mm	1	IMPORTED
10	RHOTON Dissector, large, No. 8, 190 mm	1	IMPORTED
11	RHOTON hook, semi-sharp, angled 90°	1	IMPORTED
12	RHOTON hook, blunt, angled 90°	1	IMPORTED
13	RHOTON hook, semi-sharp, angled, 45°	1	IMPORTED
14	RHOTON Needle, straight, No. 12	1	IMPORTED
15	RHOTON Curette, small, No. 13,oval	1	IMPORTED
16	RHOTON Curette, large, No. 14	1	IMPORTED
17	RHOTON Teardrop Dissector, straight	1	IMPORTED
18	RHOTON Teardrop Dissector, 90° angled,	1	IMPORTED
19	RHOTON Teardrop Dissector, 90° angled,	1	IMPORTED
20	RHOTON Teardrop Dissector, 40° angled,	1	IMPORTED
21	RHOTON Teardrop Dissector, 40° angled,	1	IMPORTED
22	Micro-Dissector 1,4 mm, 230 mm	1	IMPORTED
23	Needleholder, microsurgical, bayonet, delicate, 0.6 mm tips, 200 mm, flat handle with holes, TC, straight, titanium	1	INDIAN
24	Micro-Forceps YASARGIL,240 mm,0,9 mm,bay	1	IMPORTED
25	Tumor Knife SAMII, 200 mm, 1,5 mm		IMPORTED
26	Micro-Dissector CASPAR, 230 mm, 2 mm	1	IMPORTED
27	Micro cup-shaped Forceps, Tube Shaft,	1	IMPORTED
28	Forceps microsurgical, 220 mm, flat bayonet handle with holes, 0.6 mm, with platform, TC, straight, titanium	1	INDIAN
29	Micro-Forceps YASARGIL,200 mm,0,6 mm,bay	1	IMPORTED
30	Micro-Forceps YASARGIL,240 mm,0,9 mm,bay	1	IMPORTED
31	Grasp.Fcps. YASARGIL,5 mm, 220 mm bay.	1	IMPORTED



32	Grasp. Fcps. YASARGIL, 3 mm, 200mm, bay.	1	IMPORTED
33	Micro needle holder, TC, straight, 180mm	1	IMPORTED
34	Needleholder JACOBSON,TC,str.,180 mm	1	IMPORTED
35	Needleholder CASTROVIEJO,TC,cvd.,180 mm	1	IMPORTED
36	Diss. Scissors YASARGIL,str.,200mm,	1	IMPORTED
37	Diss. Scissors YASARGIL,curved,200 mm,	1	IMPORTED
38	Micro-Scissors YASARGIL,str.,200mm,bay.	1	IMPORTED
39	Micro-Scissors YASARGIL, cvd, 200mm, bay.	1	IMPORTED
40	Micro-Scissors VANNAS,str., 225 mm, bay	1	IMPORTED
41	Micro-Scissors YASARGIL,str., 225 mm, bay	1	IMPORTED
42	Micro scissors 45°, 180 mm, round handle	1	IMPORTED
<b>Aneurysm Applicators</b>			
1	Applying forceps STANDARD, 230 mm jaw Titanium ,double action ,rotatable	1	IMPORTED
2	Memory Clip Appl.Forceps STANDARD, 90mm	1	IMPORTED
3	Clip Applying Forceps MINI, 210 mm	1	IMPORTED
4	Micro Suction 1.7mm	1	IMPORTED
5	Micro Suction 2.5mm	1	IMPORTED
6	Micro Suction 3.5mm	1	IMPORTED
7	Micro-Needlehold.YASARGIL,str.,200mm,bay	1	IMPORTED
8	Micro-Needlehold.YASARGIL,cvd.,200mm,bay	1	IMPORTED
9	Micro-Needlehold.YASARGIL,str.,225mm,bay	1	IMPORTED
10	Micro-Needlehold.YASARGIL,cvd.,225mm,bay	1	IMPORTED
11	FRAZIER Suction tube 2 mm, 110 mm	1	INDIAN
12	FRAZIER Suction tube 3 mm, 110 mm	1	INDIAN
13	FRAZIER Suction tube 5 mm, 130 mm	1	INDIAN
14	BECKMANN EATON retractor 32 cm, sharp	2	IMPORTED
15	JANSEN retractor blunt 110 mm	1	IMPORTED
16	WEITLANER retractor, 130 mm, blunt	2	INDIAN
17	Shunt tunneler- Adult	2	INDIAN
18	Shunt tunneler- Paediatric	2	INDIAN
<b>Neuro EVD Set</b>			
1	Perforated Tray 18" x12"x6.5"		
2	scalpel handle no. 3, 125 mm	2	INDIAN
3	forceps std 1x2 t., 160 mm	1	INDIAN
4	forceps std dress., 160 mm	1	INDIAN
5	ADSON forceps 1x2 teeth, 120 mm	1	INDIAN
6	ADSON forceps serrated, 120 mm	1	INDIAN
7	GRUENWALD forceps bayonet., 200 mm	1	INDIAN
8	Artery Forceps ,15cm,Curved,Delicate	2	INDIAN
9	MAYO HEGAR needle holder TC, 150 mm	1	INDIAN
10	FOERSTER swab forceps serrated, 200 mm	1	INDIAN
11	CONE Ventric. Cannula, 1,2 mm, 90 mm	1	INDIAN
12	CONE Ventric. Cannula, 2,4 mm, 90 mm	1	INDIAN



13	JANSEN retractor blunt 110 mm	2	IMPORTED
14	METZENBAUM scissors str. 200 mm	1	INDIAN
15	METZENBAUM fino scissors 200 mm, straigh	1	INDIAN
16	Artery Forceps ,15cm,Straight ,Delicate	2	INDIAN
17	HALSTED mosquito forceps, 125 mm, str.	2	INDIAN
18	HALSTED mosquito forceps 125 mm,cvd.	2	INDIAN
19	Galli pot	3	INDIAN
20	Kidney Tray 8"	1	INDIAN
<b>VP Shunt</b>			
1	Perforated Tray 18" x12"x6.5"	1	INDIAN
2	scalpel handle no. 3, 125 mm	1	INDIAN
3	scalpel handle no. 4, 135 mm	1	INDIAN
4	scalpel handle no. 7, 160 mm	1	INDIAN
5	Artery Forceps ,15cm,Straight ,Delicate	6	INDIAN
6	Artery Forceps ,15cm,Curved,Delicate	6	INDIAN
7	HALSTED mosquito forceps 125 mm,cvd.	6	INDIAN
8	HALSTED mosquito forceps, 125 mm, str.	6	INDIAN
9	ALLIS baby tiss.fcps. 14cm 4x5	4	INDIAN
10	MAYO HEGAR needleholder TC, 150 mm	2	INDIAN
11	MAYO HEGAR needleholder TC, 200 mm	2	INDIAN
12	MAYO scissors curved, 170 mm	2	INDIAN
13	MAYO scissors straight, 170 mm	2	INDIAN
14	METZENBAUM scissors cvd. 200 mm	2	INDIAN
15	forceps Standard 1x2 t., 160 mm	2	INDIAN
16	forceps std dress., 160 mm	2	INDIAN
17	forceps tissue 1x2 t., 200 mm	2	INDIAN
18	Forceps dress., std, 200 mm	2	INDIAN
19	FOERSTER swab forceps serrated, 240 mm	2	INDIAN
20	Bowl Big	2	INDIAN
21	Bowl Small	2	INDIAN
22	Kidney Tray	1	INDIAN
23	Micro-Forceps YASARGIL,180 mm,1x2t,bay	1	INDIAN
24	GRUENWALD forceps bajonet., 200 mm	1	INDIAN
25	BACKHAUS towel forceps, 135 mm	12	INDIAN
26	Shunt tunneler-Adult	2	INDIAN
27	Shunt tunneler-Pae	1	INDIAN
28	LANGENBECK retractor 40x10 mm, 210 mm	2	INDIAN
29	LANGENBECK retractor 28x10 mm, 210 mm	2	INDIAN
30	CONE Ventric. Cannula, 1,2 mm, 90 mm	1	INDIAN
31	CONE Ventric. Cannula, 2,4 mm, 90 mm	1	INDIAN



#### **4. C-ARM Imaging System**

##### **SPECIFICATION for C-ARM WITH FLAT PANEL for Neuro – Spine Surgery**

- SHOULD BE OF INTERNATIONAL STANDARD, US FDA & CE APPROVED
- State of the art system with high frequency X-ray generator, Flat panel system and Suitable high resolution single flat screen monitor with split display.
- Should have minimum 8 frames Memory

**Generator should be of 20 KHz, High frequency and micro processor controlled with maximum output more than 2000W**

- High frequency X-ray Monobloc of 2 kw at least
- Fluoroscopy KV range- 40KV to 110KV
- Fluoro range - 0.2mA to 6.0mA
- Snap shot - 40 to 110 kV, up to 20mA
- Pulse fluoroscopy - 40 – 110 kV, 0.2 –10mA,
- Pulse rate must have: 1, 2, 4, 8, 12.5, 25 pulses / sec

##### **X-ray tube**

**Stationary anode X-ray tube with focal spot not larger than 0.6**

- Tube housing should be powered by integrated with advanced heat management system and with heat capacity more than 1,100,000 HU and cooling rate 30 Khu / min or more.
- Max. Anode heat content should be 45 KHU or more with anode heat dissipation not less than 600W

##### **Collimator**

- Iris collimator with +/- 90 deg rotation. It should be a virtual collimation without radiation.

**System should have Intuitive TFT touch screen user interface on the C-arm**

##### **FLAT PANEL DETECTOR**

**Detector Resolution should be more than 1.5 k \* 1.5 k It should have Smart Dosing C arm with flat panel detector (CMOS) technology with beam filtration LASER positioning device integrated >8", high frequency**

**The following Digital Image processing functions should be possible:**



### **In Real time**

- Edge enhancement at 5 levels in real-time
- Windowing and step windowing
- Digital image rotation and reversal without radiation.
- Stack filter (last image hold): 5 levels

### **Post processing function**

- Edge enhancement at 5 levels
- Windowing
- Zooming at 3 levels in
- Image rotation
- Grayscale inversion.
- Mosaic archiving with at least 16- image mosaic display for Patient based data management should be possible

### **MECHANICAL SPECIFICATION**

- All C-arm movements for every position should be fully counterbalanced
- Orbital rotation should be at least - 120 deg / +45 deg
- C-Arm vertical free space should be 85 cm or more and the Source-image receptor distance 109 cm or more
- C-arm depth should be at least 68cm or more
- Horizontal movement - 220mm
- Vertical movement – at least 42 cm or more and should be motor driven
- Panning motion at least 10
- Steering and Braking lever should have parallel movements of the mobile for movement in all direction.

**Interface and DICOM Software for Storage and Print should be available  
Anatomical programs to determine ideal noise reduction, pulse width,  
etc. specific to anatomy should be possible.**

### **5. Zero Pressure Suction Machine**

#### **TECHNICAL SPECIFICATION**

- Smallest digital system with integrated suction, no compromise on patient mobility and safety with full electronic monitoring which helps in reduction of treatment time
- System diaphragm pump 2 canister sizes 2 tubing's
- Container size 0.8l/0.3l
- Tubing (material , length, diameter), pvc, single, double l 1.5m
- Noise level: 42.5 dba/ 1l flow/2.5kpa(internal meas)



- Max flow:5l/m
- Duration of battery:min 4hrs max 10 hrs
- Power:20w
- Classification: class iia
- Weight:1kg
- Size 95 x 170 x235 mm
- Monitoring functions digital
- Internal memory of pump: upto 4 weeks
- Data transfer to pc: data cable
- Integrated alarm system.

## **ANAESTHETIC REQUIREMENTS FOR NEUROSCIENCES**

### **1.Equipment Name: Fibre optic Laryngoscope**

#### **TECHNICAL SPECIFICATIONS**

1. FLEXIBLE NASO-PHARYNGO LARYNGOSCOPE (Fiber optic Laryngoscope)
2. Should have a field of view of at least 75°.
3. Should have a depth of field from 3 to 50 mm.
4. The insertion tube should have maximum 3.5mm diameter or less.
5. Should have at least 130° upwards and 130° downwards angulations.
6. Should have a working length of at least 300 mm.
7. Should have a light guide illuminating system.
8. Should provide suitable light source.
9. Should be supplied with all standard accessories including storage box and list of standard accessories should be specified in the technical bid.

#### **LIGHT SOURCE**

1. Should be a halogen light source with minimum 150W light output with 5 spares.
2. Should have manual light intensity control.
3. Should have cooling system.
4. Should work with input 200 to 240Vac 50 Hz supply.
5. Should have safety certificate from a competent authority CE / FDA (US)/ STQC CB certificate/STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.





## **2. Equipment Name: Video Laryngoscope**

### **TECHNICAL SPECIFICATIONS**

1. Should be a video laryngoscope convenient for tracheal intubation.
2. Should have a camera for live Image capturing
3. Should have LED light illumination
4. Should have colour Image display facility LCD/TFT display
5. Should have provision to insert all sizes of endotracheal tube
6. Should have a provision to introduce all sizes of suction catheters
7. Should have water proof protection
8. Should be supplied with rechargeable battery and provision for re-charge.
9. Should have a battery backup facility of minimum 1hr.
10. Should have all blade sizes/adjustable for adult and paediatric laryngoscopy. If the blades are disposable, should supply 50nos. of blades compatible for both adult and paediatric along with each unit.
11. Should have safety certificate from a competent authority CE/FDA(US)/STQC CB certificate/STQCS certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate/test report shall be produced along with the technical bid.

**Dr. C.K. Subbaraya**

Registrar

Adichunchanagiri University

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