SHORT TENDER NOTICE

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Short Tender No. 9453 Dt. 31/07/2025

Sealed tenders are invited from the registered firms/ authorized agency for the purchase of Instruments & Equipments for the National Programme for Prevention and Management of Trauma and Burn Injuries of SCB Medical College, Cuttack in the financial year 2025-26 for the department of Gen. Surgery, Plastic Surgery, Orthopedics, Anesthesiology, Neurosurgery & OMFS (Dental).The Tender will be opened on scheduled date and time in office of the undersigned in presence of the bidders or their authorized representatives. In the event of the date being declared as a holiday for Government of Odisha, the due date of submission of bids and opening of bids will be the next working day. The Bidders may download the Tender documents directly from this college's website available at http://scbmch.in and also can be obtained from the Budget Section of office of the Dean & Principal, S.C.B. Medical College, Cuttack. The cost of tender paper is Rs.1000/- (Non refundable) by a bank draft/demand draft in favour of **"Dean & Principal, SCB Medical College, Cuttack"** payable at Cuttack from any Nationalized Bank. Any tender received after the due date & time will be rejected and returned to the sender un-opened. The Tender will be received through **Regd. Post/ Speed Post** only. The authority reserve the right to reject any/ all the Tenders without assigning any reasons thereof.

1.	Cost of Tender Paper	:	1000.00
2.	Date of sale of tender Paper	:	01.08.2025
3.	Last date of receipt of Tender Paper	:	14.08.2025
4.	Detail of opening of the Technical Bid	:	18.08.2025
5.	Place of opening of Tender Paper	:	Dean & Principal Office

31.7.25

Dean and Principal
SCB Medical College, Cuttack

OFFICE OF THE DEAN AND PRINCIPAL, S.C.B MEDICAL COLLEGE, CUTTACK

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SHORT TENDER PAPER No.

1.	Cost of Tender Paper	:	1000.00
2.	Date of sale of tender Paper	:	01.08.2025
3.	Last date of receipt of Tender paper	:	14.08.2025 (5.00 P.M)
4.	Date of opening of tender Paper	:	18.08.2025 (3.30 P.M)
5.	Place of opening of tender paper	:	Dean & Principal Office

TERMS AND CONDITIONS:

1. The bidders will deposit Rs.50,000/- towards EMD.
2. Photo Copy of up-to-date GST certificate.
3. Photo Copy of PAN Number and TDS filling certificate for last 3 years
4. The rate should be quoted and valid for 2 year.
5. The bidders will submit the all Certificate of the concerned Organization.
6. The list of all documents enclosed duly signed by the bidder.
7. If any information and documents furnished by the bidder are found to be incorrect, misleading at any stage the quotation/Tender will be rejected.
8. Authority reserved right to cancel any or all items without assigning any reason thereof.
9. The Tender should be submitted to the Dean and Principal, SCB Medical College, Cuttack through Registered /Speed Post only.
10. No claims shall be made against the authority i.e Dean and Principal, SCB Medical College, Cuttack in respect of interest on EMD or any other security deposit or on delay payment.
11. The bidder will mentioned their Bank name, Bank Account, IFSC code and Mobile No.
12. The annual turnover of the bidders should be Rupees 5 Crore or more for each financial year during last three financial year.
13. The Tenderer should have typically not less than 3 years of marketing experience in Equipment/Instrument.

Lucy Das
31.7.25

Dean and Principal
SCB Medical College, Cuttack

LIST OF EQUIPEMENT & INSTRUMENTS

DEPARTMENT	SL NO	NAME OF THE EQUIPEMENT & INSTRUMENTS	QUANTITY
Gen Surgery	1	Minor Burn bath top	2 nos
Plastic Surgery	1	Micro instrument set	1 nos
	2	-20 degree C Deep Freezer – Vertical upright solid door freezer	1 nos
	3	Refrigerator 400 liter	1 nos
	4	Vertical Laminar Air Flow Cabinet	1 nos
	5	Venous Coupler	1 nos
Anesthesiology	1	Portable X-ray Machine	1nos
	2	Diagnostic Blood test equipment (e.g. ABG analyzer	1nos
	3	Multipara Monitor (7 Para)	1nos
	4	Defibrillator	1nos
	5	Trauma Mannequin	1nos
	6	X-ray view box	1nos
	7	ECG Machine	1nos
	8	Sanction Machine	1nos
	9	Laryngoscope (Led)	1nos
	10	Chest tube and cricothyrotomy simulators	1nos
	11	Cervical Collar for X-ray	1nos
	12	Certical Collar Normal	1nos
	13	Chest tube and Tracheostomy kit	1nos
	14	Bipap Machine	1nos
Orthopedics	1	Tweezer Small SS (6")	2 nos
	2	Scissor Finc Size 6" SS	1 nos
	3	Scissor Finc Size 8" SS	1 nos
	4	Ball tip clamp large	2 nos
	5	Ball tip clamp Medium	2 nos
	6	. Box Clamp Larger	2 nos
	7	Punch	2 nos
	8	Curved Ball tipped pointed Tibia & Femur reducation Clamp (12")	2 nos
	9	Tibia & Fe Ball tipped pointed mur Hohman Retractor	1 nos
	10	Langenbeck Retractor Large	2 nos
	11	Langenbeck Retractor Medium	2 nos
	12	Self-retaining Clamp for Skin Medium	2 nos
	13	Self-retaining Clamp for Skin Small	2 nos
	14	Ball Tipped reduction clmap for Tibia	2 nos
	15	Ball Tipped reduction clmap for Femur	2 nos
	16	Digital Pneumatic Tourniquet Machine	2 nos
	17	C-arm Gown/Lead Gown (Light Weight)	10 nos
	18	Thyroid Shield	10 nos
	19	Electrocautery Machine	1 nos
	20	Dissecting Scissor	2 nos
Neurosurgery (Neuro Trauma)	1	Demartel Gigli Guide – 5mm	5 nos
	2	Clip Scalp Applicator Raney	2 nos
	3	Hook Spring Fish Yasargil With Bulldog Clamp 12 1/4" Long for Galea Fixation	2 nos
	4	Hook Spring Fish Yasargil With Bulldog	2 nos

		Clamp 16 Long for Galea Fixation	
	5	Forceps Micro Bayonet Yasagil Plain 0.6 MM 8" Long	1 nos
	6	Forceps Tumour Yasargil Spoon Shaped Serrated Jaw 8 3/4" Long Bayonet Shaped(3MM)	1 nos
	7	Forceps Tumour Yasargil Spoon Shaped Serrated Jaw 8 3/4" Long Bayonet Shaped(5MM)	1 nos
	8	Cannula Suction – Tapering Blunt Tip-Fully Angled Key Hole Control For Suction Power (2.5MM)	2 nos
	9	Cannula Suction – Tapering Blunt Tip-Fully Angled Key Hole Control For Suction Power (2.0MM)	2 nos
	10	Fukushima Taper Suction – Tear Drop Working Length 140 MM (Diameter-8 Fr)	2 nos
	11	Fukushima Taper Suction – Tear Drop Working Length 140 MM (Diameter-10 Fr)	2 nos
	12	Elevator – Dissector Penfield No.17" Long Double Ended	2 nos
	13	Elevator – Dissector Olivecrona Broad Double Ended	2 nos
	14	Elevator Periosteal Cushing Square Edge 16 MM 7 1/4" Long	1 nos
	15	Punch Kerrison 7" Shaft Length 45⁰ Upward Bite (3 MM)	4 nos
	16	Punch Kerrison 7" Shaft Length 45⁰ Upward Bite (4 MM)	4 nos
	17	Punch Kerrison 7" Shaft Length 45⁰ Upward Bite (5 MM)	4 nos
	18	Kerrison Punch Large Handle 45⁰ Angled Jaws Upward Bite(2MM*3MM) Shaft Length 220MM	4 nos
	19	Ferris Smith Rounger Serrated Straight 200 MM (3 MM Bite)	1 nos
	20	Rongeur-Nibbler Double Action Ruskin Angled 5 MM 18 CM Long	2 nos
	21	Rongeur-Nibbler Double Action Olivecrona Stille Angled 9 1/4" Long	2 nos
	22	Retractor Hand Held Senn Miller 3 Prong Blunt 6 1/4" Long Double Ended	2 nos
	23	Retractor Self-Retaining Wullstein Sharp Prongs 13 CM Long	2 nos
	24	Retractor Self-Retaining Mollison Sharp Prongs 16 CM Long	2 nos
	25	Retractor Self Retaining Cones 3 X 4 Sharp Prongs 6 1/2" Long Hinged Arms	2 nos
	26	Scissors Dural Schmieden Taylor Blunt Tip 6 3/4" Long	2 nos
	27	Scissors Operating Metzenbaum Curved Blunt Tip Fine Tip 7" Long	2 nos
	28	Scissors Operating Metzenbaum Curved Blunt Tip Fine Tip 5 1/2" Long	2 nos

	29	Needle Holder Mayo-Heggar 6" Long	1 nos
	30	Needle Holder Mayo-Heggar 8" Long	1 nos
	31	Forceps Dissecting Toothed Adson 4 3/4" Long	2 nos
	32	Forceps Dissecting Tungsten Carbide Tipped Adson 1X2 Teeth 4 3/4" Long Fine Tip	2 nos
	33	Forceps Heamostatic Halstead Mosquito Straight 5" Long	6 nos
	34	Forceps Tissue Holding Allis 5X6 Teeth 7" Long	6 nos
	35	Neuro Drill	1 nos
OMFS (SCB Dental)	1	HHH Kit	50 nos

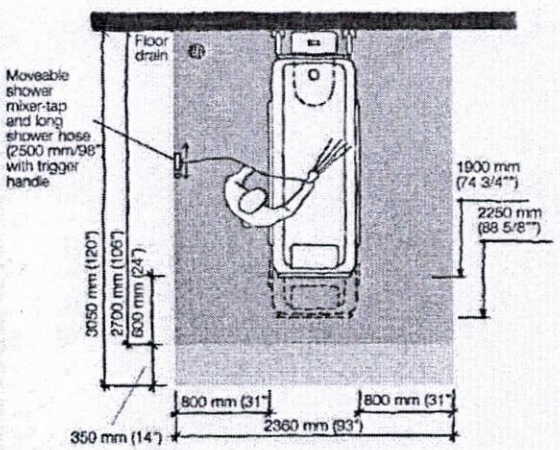
ATTACHED SPECIFICATIONS DEPARTMENT WISE :

Surgery

GEN. Suregery

PRODUCT SPECIFICATIONS

Space requirement



Blue area shows the minimum working area required for the staff to be able to use the mechanical aids in an ergonomic way from one side.

Light blue area shows required extension of working area to facilitate activities from either side to provide adequate access.

Mobility Gallery

Elderly care	Acute care	Special care
E	E	E
EMMA	EDWARD	EMIL

E, who is almost completely bedridden and totally dependant

Please contact ARJO for further information on the Mobility Gallery™.

Product Information

Lifting capacity	150 kg (330 lb.)
Weight Weight (electric)	74 kg (163 lb.) 80 kg (176 lb.)
Width (stretcher)	650 mm (25 5/8")
Total width (incl. side supports)	760 mm (29 7/8")
Total length (different stretchers)	1600 mm (63") 1900 mm (74 7/8")* 2250 mm (88 1/2")
Length of chassis (incl. wheel frame)	995 mm (39 1/8")
Max internal length of chassis	820 mm (32 1/4")
Max external width of chassis	700 mm (27 1/2")
Min external width of chassis	300 mm (11 7/8")
Height of chassis	150 mm (5 7/8")
Height, top position floor to stretcher Height, top position floor to stretcher (electric)	890 mm (35") 870 mm (34 1/4")
Height, low position floor to stretcher	570 mm (22 1/2")
Stroke range Stroke range (electric)	320 mm (12 5/8") 300 mm (11 3/4")
Colour	Grey and blue
Equipped with head pillow and foldable side supports with safety lock	
Drain hose holders included	

Available as oil hydraulic (manual) version and battery powered (electrical) version.
*Adjustable +/- 50 mm

Plastic Surgery

Department of Plastic Surgery, SCB Medical College & Hospital,Cuttack			
Sl. No	Name of the Instrument	Size	Quantity
1	Venous Coupler	Instrument Set Coupler Size-1.5 2 2.5 3 3.5	1
	Micro instrument		
2	Micro Jeweller Forceps straight	No. 5	2
3	Micro Jeweller Forceps Toothed	No. 5	2
4	Jewellers Micro Forceps Angled	5-A Titanium	2
5	Jewellers Micro Forceps	No. 5 Titanium	2
6	Jewellers Micro Forceps Toothed	No. 5 Titanium	2
7	Jewellers Micro Forceps	No. 3 Titanium	2
8	Jewellers Micro Forceps	No. 7 Titanium	2
9	Jewellers Micro Forceps Toothed	No.5 Titanium	2
10	Micro Forceps Round Handle	6" Plain Straight Titanium	2
11	Micro Forceps Round Handle	8" Plain Straight Titanium	2
12	Micro Forceps Round Handle	8" Plain Curved Titanium	2
13	Micro Spring Scissors Flat Handle	Straight 6"	2
14	Micro Spring Scissors Flat Handle	Curved 6"	2
15	Micro Spring Needle Holder	Curved 6"	
16	Dissecting Forceps Fine	Plain 6"	2
17	Dissecting Forceps Fine	Tooth 6"	2
18	Adson Forceps	Plain 5"	2
19	Adson Forceps Tooth	5"	2
20	Adson Forceps Plain	7"	2
21	Adson Forceps Tooth	7"	2
22	Adson Forceps Plain	8"	2
23	Adson Forceps Tooth 8"		2
24	Adson Forceps Fine Plain	5"	2
25	Adson Forceps Fine Tooth	5"	2
26	Fine Adson Forceps Plain	6"	2
27	Fine Adson Forceps Tooth	6"	2
28	Adson Forceps Micro Fine	Plain 5"	2
29	Adson Forceps Micro Fine Tooth	5" 0.3mm	2
30	Langenbeck Retractor Small	25cm x 6mm	2
31	Langenbeck Retractor Small Length Size	35×15mm	2
32	Langenbeck Retractor Large	45cm x 20mm	1
33	Langenbeck Retractor Large	75cm x 25mm	1
34	Langenbeck Retractor Large	65cm x 25mm	1
35	Langenbeck Retractor Large	90cm x 25mm	1
36	Debakey Vascular Forceps Straight	1.5mm 6"	1

Plastic Surgery

37	Debakey Vascular Forceps Straight	1.5mm 7"	1
38	Debakey Vascular Forceps Straight	1.5mm 8"	1
39	Debakey Vascular Forceps Straight	2mm 6"	1
40	Debakey Vascular Forceps Straight	2mm 7"	1
41	Debakey Vascular Forceps Straight	2mm 8"	1
42	Micro Spring Scissors Flat Handle	Straight 6"	2
43	Micro Spring Scissors Flat Handle	Curved 6"	2
44	Metzenbaum Scissors	5" Curved	2

The above mentioned Items include different Micro Instruments and Venous Coupler specification with Sizes

Prof.&HOD
Dept. of Plastic Surgery
SCB Medical College, Cuttack

Dr. B.B. Nayak
Professor & HOD
Dept. of Plastic Surgery
S.C.B. Medical College &
Hospital, Cuttack

Plastic Surgery

(2) 5. -20°C DEEP FREEZER - VERTICAL UPRIGHT SOLID DOOR FREEZER:

Quantity-One,

Temp. range: -16° C to -24° CCapacity : minimum capacity of300 litres.

Single Solid Door

No. of Shelves: 2 + 5 pull out drawers

AutoDefrost

Quick freezing function

High Temp. Door alarm

Low energy consumption

Power supply: 220volt

With 6 KVA Voltage stabilizer

Plastic Surgery

4.LAMINAR AIR FLOW - Quantity-One

SIZE OF THE WORKING TABLE: 6 X 2 X 2 FEET.

Microprocessor based switches and speed control.

CONSTRUCTION: Should be made of steel with powder coated, 1.5 mm. thickness.

TABLE TOP: Made of stainless steel, approx. 1.2mm thickness, mat finish and pressed on minimum 25mm. solid nuwood board.

SIDE DOOR : glass of 6mm. thickness and encased in S.S. channel.

FRONT DOOR: Spring loaded swinging type made of Poly carbonate with 6 mm. thickness.

MOTOR BLOWER ASSEMBLY: variable speed motor.

VELOCITY: 100 FPM at 6" from face of the filter.

NOISE LEVEL: Around 60 db at 1 meter from face of the equipment

PRESSURE GAUGE :Minihelic gauge

WHEELS AND LEVELLING LUGS: PU solid wheels with S.S. 304 brackets and 304 S.S. lugs.

CLEANNESS CLASS: ISO Standard 14644. 1.Class 5

STAGE FILTRATION:

I) Pre-filter-10µm with efficiency of 90% washable HDPE media PU coated with 304 S.S. frame.

II) Mini Pleat HEPA filter of 0.3 micron with an efficiency of 99.995% (anti microbial treated media)

Neuro Surgery

Emergency procurement of Instruments & Equipments for Neuro Trauma Unit of SCB Medical College and Hospital, Cuttack under COE scheme.

SL No.	NAME OF THE ITEM	NUMBER	Remarks
1.	DEMARTEL GIGLI GUIDE - 5 MM	5	
2.	CLIP SCALP APPLICATOR RANEY	2	
3.	HOOK SPRING FISH YASARGIL WITH BULLDOG CLAMP 12 1/4" LONG FOR GALEA FIXATION	2	
4.	HOOK SPRING FISH YASARGIL WITH BULLDOG CLAMP 16" LONG FOR GALEA FIXATION	2	
5.	FORCEPS MICRO BAYONET YASARGIL PLAIN 0.6 MM 8" LONG	1	
6.	FORCEPS TUMOUR YASARGIL SPOON SHAPED SERRATED JAW 8¾"LONG BAYONET SHAPED (3MM)	1	
7.	FORCEPS TUMOUR YASARGIL SPOON SHAPED SERRATED JAW 8¾"LONG BAYONET SHAPED (5 MM)	1	
8.	CANNULA SUCTION –TAPERING BLUNT TIP- FULLY ANGLED KEY HOLE CONTROL FOR SUCTION POWER (2.5MM)	2	
9.	CANNULA SUCTION –TAPERING BLUNT TIP- FULLY ANGLED KEY HOLE CONTROL FOR SUCTION POWER (2.0MM)	2	
10.	FUKUSHIMA TAPER SUCTION - TEAR DROP WORKING LENGTH 140 MM (DIAMETER-8 Fr)	2	
11.	FUKUSHIMA TAPER SUCTION - TEAR DROP WORKING LENGTH 140 MM (DIAMETER-10Fr)	2	
12.	ELEVATOR-DISSECTOR PENFIELD NO.1 7" LONG DOUBLE ENDED	2	
13.	ELEVATOR-DISSECTOR OLIVECRONA BROAD DOUBLE ENDED	2	
14.	ELEVATOR PERIOSTEAL CUSHING SQUARE EDGE 16 MM 7 ¼" LONG	1	
15.	PUNCH KERRISON 7" SHAFT LENGTH 45° UPWARD BITE (3 MM)	4	
16.	PUNCH KERRISON 7" SHAFT LENGTH 45° UPWARD BITE (4MM)	4	
17.	PUNCH KERRISON 7" SHAFT LENGTH 45° UPWARD BITE (5 MM)	4	
18.	KERRISON PUNCH LARGE HANDLE 45° ANGLED JAWS UPWARD BITE(2MM*3MM) SHAFT LENGTH 220 MM	4	
19.	FERRIS SMITH ROUNGER SERRATED STRAIGHT 200 MM (3 MM BITE)	1	
20.	RONGEUR-NIBBLER DOUBLE ACTION RUSKIN ANGLED 5 MM 18 CM LONG	2	
21.	RONGEUR-NIBBLER DOUBLE ACTION OLIVECRONA STILLE ANGLED 9 ¼" LONG	2	
22.	RETRACTOR HAND HELD SENN MILLER 3 PRONG BLUNT 6¼" LONG DOUBLE ENDED	2	

Neuro Surgery

SL No.	NAME OF THE ITEM	NUMBER	Remarks
23.	RETRACTOR SELF-RETAINING WULLSTEIN SHARP PRONGS 13 CM LONG	2	
24.	RETRACTOR SELF-RETAINING MOLLISON SHARP PRONGS 16 CM LONG	2	
25.	RETRACTOR SELF RETAINING CONES 3 X 4 SHARP PRONGS 6½"" LONG HINGED ARMS	2	
26.	SCISSORS DURAL SCHMIEDEN TAYLOR BLUNT TIP 6 ¾" LONG	2	
27.	SCISSORS OPERATING METZENBAUM CURVED BLUNT TIP FINE TIP 7" LONG	2	
28.	SCISSORS OPERATING METZENBAUM CURVED BLUNT TIP FINE TIP 5 ½" LONG	2	
29.	NEEDLE HOLDER MAYO-HEGGAR 6" LONG	1	
30.	NEEDLE HOLDER MAYO-HEGGAR 8" LONG	1	
31.	FORCEPS DISSECTING TOOTHED ADSON 4¾" LONG	2	
32.	FORCEPS DISSECTING TUNGSTEN CARBIDE TIPPED ADSON 1X2 TEETH 4¾" LONG FINE TIP	2	
33.	FORCEPS HEAMOSTATIC HALSTEAD MOSQUITO STRAIGHT 5" LONG	6	
34.	FORCEPS TISSUE HOLDING ALLIS 5X6 TEETH 7" LONG	6	

35 Neuro drill & Specification attached (one nos)

Copy Submitted to the Purchase Committee for approval.

Neuro Surgery

1. High speed Electrical Drill System for Neurosurgery

Product Quality standard certification:

1) The quoted model should be either "USFDA approved (510K/CFG)" and "European CE certified". The EUROPEAN-CE certificate should be issued from notified body having notified body number.
2) The quoted model should have IEC 60601 certified.

Manufacturer Quality standard certification:

3) The manufacturer of the quoted product should have EN ISO 13485 certificate issued from a notified body or ICMED 13485 (with or without plus)certificate issued from certification bodies accredited by NABCB or ISO 13485 certificate issued from certification bodies accredited by NABCB/Nationally Recognized Accreditation Board under IAF MLA.
4) The quoted medical device must be registered under CDSCO and the bidder shall submit the "License to import the medical device" OR "License to manufacture for sale or for distribution of the medical device". If not registered, the "Application for Grant of License to import the medical device" OR "Application for Grant of License to Manufacture for Sale and Distribution of the medical device" OR "the acknowledgment copy/screenshot of the online application for the said registration of quoted medical device" must be uploaded in the bid. The Bidder shall submit the CDSCO certificate issued to the manufacturer/Importer for the quoted medical device in its Bid document. Further, the authorized distributors are allowed to participate in the tender, by submitting the copy of the CDSCO certificate for the quoted medical device issued in favor of the Original Equipment Manufacturer/ Authorized Importer. However, the distributor shall have to submit the manufacturer's authorization form directly from the original equipment manufacturer (OEM)/ it's Indian Subsidiary as per Format T7.

Technical Specification:

1. The electric powered drill system for Neuro & Spine applications should be able to connect multiple hand pieces at a time like Neuro/spine Drill (Up to 75000RPM).
2. The supplied motor should run at a speed of up to 75000 RPM.
3. Motor torque must be in a range of 45mNm-1 ± 3mNm-1
4. Lubrication or seal should not be required to run the motor.
5. Should be sterilized by standard steam sterilization.
6. Console should recognize the various hand pieces and automatically adjust the settings accordingly
7. Should have inbuilt pumps each for Irrigation (rate should be adjustable) and Cooling
8. Should have large Touch screen monitor (8 inch or more)
9. Should be Latest model- Top model

Neuro Surgery

10. The various parameters should be able to adjust either from touch screen panel or from the multifunction foot switch (Like- toggle between multiple hand pieces, toggle between forward & reverse mode, to change start/stop & variable speed acceleration, to start stop irrigation)
11. Emergency foot control button should be there in the main console which can be used in case of non-functioning of foot pedal.
12. Should have multifunction ergonomically designed foot control with light emission for easy identification.
13. Surgeon should be able to control from the foot control itself the Speed / Mode, Forward / Reverse Toggle active hand piece change etc.
14. Should have remote control Irrigation to operate from sterile area by the surgeon himself
15. Should have in built user-friendly interactive menu and illustrative help guide
16. Should have the provision to mount the console on various sizes of IV poles
17. Weight of the drill should not be more than 90 gms and length should be less than 8.5 cm with a diameter not exceeding 1.7 cm.
18. Attachments should have tapered design for better visibility under microscope.
19. System should have quick connect but lockable attachments of various sizes.
20. There should be bold colour coding to identify matching attachments and tools.
21. Should have upgrade option of factory calibrated navigable motor for cranial, spine and MIS surgeries compatible with navigation system in future.
22. Should have options of specialized Tools with inbuilt irrigation for trans-nasal and skull base procedures, diamond and cutting option.
23. **Warranty:** 5 years of comprehensive warranty on the complete system.
24. Attachments and Accessories:

i. Short Straight Attachment: 1 No
ii. Medium Straight Attachment: 1 No
iii. Long Angled Attachment: 1 No
iv. Dura-guard: Adult: 1 Nos.
v. Perforator Driver: 1 No.
vi. Cleaning brush of different sizes: 1 each.

Consumables:

i. Fast Ball Shape Cutting Burrs (3mm& 5mm): 2 Nos. each for Short & Medium Attachments.
ii. Fast Ball Shape Cutting Burrs (2mm & 4mm): 2 Nos. each for Long Attachments

Neurosurgery

iii. Fast Acorn Shape Cutting Burs (9mm & 7.5mm): 2 Nos. each for Medium Attachment.

iv. Diamond Burrs (3mm& 4mm):2 Nos. each for Short& Medium Attachments.

v. Diamond Burrs (2mm): 2 Nos. for Long Attachments

vi. Bone Cutter Drill bits for Craniotomy: 5 Nos.

Tools: Price of perforator driver, cutting and diamond burrs of different sizes, cutting bit for craniotome compatible with the above system should be quoted.

During Technical evaluation and before opening of the price bid, the bidder shall have to physically demonstrate their quoted model of the equipment at Bhubaneswar at it's own cost for assessing the compliance to the tendered technical specification.

Anesthesiology

Technical Specifications for Multipara Monitor

(Value Segment - 12 inch display with central station)

S.No.	Specifications as per tender
1	Should have ECG, SpO2, NIBP, Respiration , Temperature& 2 IBP as standard
2	Should have the facility to display ECG, SpO2, NIBP, Respiration,2 IBP and temperature simultaneously
3	The monitor must be upgradable to 2 IBP, Main stream (Etco2),Minimalli Invasive Continuous Cardiac Output, allows the clinician to inflate the NIBP cuff to cause sub diastolic pressure in the patient's limb for the purpose of drawing blood samples.& Early deteriorationScore generation with the Help of vital parameters .
4	Should display at least 6waveforms of selected parameters simultaneously.
5	The monitor must be upgradable to calculate and display early deterioration of patient condition .it should also be upgradeableforassisting venous puncture.
6	Should have an inbuilt continuous battery backup of minimum of 3 hours;
7	Display: Color TFT touch display size of 10" or more. The operation should be through full Touchscreen and Trim Knob.
8	Should have facility for displaying multi-screen configurations
9	Should be able to store & display at least **240 hours** of tabular & graphical trends of all parameters.
10	Should be suitable for monitoring adult & pediatric patients & neonate patients
11	The SpO_2 technology should be **Masimo set/FAST**tosense hypotension, shivering & motion.
12	Should have oscillometric Technology for measurement of NIBP with Auto, STAT and Manual modes.
13	Should have different patient type selection on screen (Adult, pediatric& neonates)
14	The respiration rate should be calculated through the Impedance method.
15	Should be able to give visual & audible alarms with three levels of volume adjustment.
16	The monitor should be upgradeable to connect 4 slots Interchangeable Modular Rack
17	Should be European CE/ USFDA approved,
19	Equipment should be supplied with compatible 5 lead ECG cable (1 Nos.), SpO_2 (Adult) probe with extension cable (1 Nos.), NIBP Cuff with extension cable of Large Adult, Adult & Pediatric (1 each), Temperature probe (1 No.)
20	The installation will be done by the supplier free of cost.
21	Demonstration of equipment is a must for technical approval
22	The company should mention the make & model name/number of the quoted equipment and submit the technical brochure of the quoted model in the Technical Bid along with the compliance sheet as per technical specifications.
23	The firm should mention all the pre-installation requirements in the technical bid.
24	The monitor should be upgradeable to connect with the same make automated electronic charting system for upgrading ICU to completely paperless.

Professor & Head
P.G. Deptt. of Anaesthesiology & Critical Care
S.C.B. Medical College, Cuttack

Anesthesiology

DEFIBRILLATOR WITH MONITOR

S.No	Specifications as per tender
1.	**Description of Function**
1.1	Defibrillator is required for reviving the heart functions by providing selected quantum of electrical shocks with facility for monitoring vital parameters.
2.	**Operational Requirements**
2.1	Defibrillator should be a low energy Bi-Phasic, **Portable** and latest model. Should not weigh more than 7 Kg (+/- 10% is acceptable)
2.2	Should monitor vital parameters like **ECG&Heart Rate**
2.3	Should print the ECG on thermal recorders.
2.4	Should work on Manual and Automated external defibrillation (AED) in Bi-phasic mode. The maximum energy delivered by the device should be up to200J in manual mode and 150 J in AED mode.
2.5	Should be capable of doing synchronized cardioversion
2.6	Can be operated from mains as well as battery
2.7	Should have defibrillator self test facility.
2.8	Demonstration of the equipment quoted is a must
3	**Technical Specifications**
3.1	Should be a low energy biphasic defibrillator monitor with recorder, having capability to arrest all arrhythmia.
3.2	Should monitor ECG through external paddles and monitoring electrodes and defibrillate through external paddles. Should have automatic/manual switching to see patient ECG through paddles or leads.
3.3	Should have factory integrated compensation for chest impedance for a range of 25 to 150 ohms
3.4	Should have a built in printer/thermal recorder
3.5	Should have charging time of less than **6** seconds for maximum energy. Charging indicator should be there
3.6	Should have bright TFT colour display 6.7" or more for viewing messages and waveforms
3.7	Should have external paddles with paddle contact indicators. Single adult and paediatric paddles should be available.
3.8	Should have a battery capable of 100 shock delivery.
3.9	Should be capable of printing reports on event summary, configuration, self test, battery capacity etc.
3.10	Should have facility for self test/check before usage and set up function

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3.11	Upgradable to have SPO2, NIBP, CO2 and non-invasive pacing and internal defibrillation shock facility with the help of switched paddles of different sizes .
3.12	Should be capable of delivering energy in increments of 1-2 joules up to 10J
3.13	Should have user-friendly 1,2,3 Color coded operations
3.14	Should be capable to connect internal paddles (price for internal paddle should be quoted separately)
3.15	Should conduct automated self-test when switched on and should have a 'ready to use. indicator.
3.16	Should have patient contact indicators on paddles for immediate feedback on patient-paddle contact for ensuring maximum shock efficacy
3.17	A defibrillator should have IP 54certification. It should be upgradable to internal defibrillation through switched internal paddles of different sizes to cater to adult& pediatric Patients
3.18	It should have a ready-for-use indicator to display defibrillator's.well functioning even in switched-off mode. The defibrillator should perform self-test on an hourly, daily & weekly basis. It should have a patient contact indicator on paddles in manual mode and on the defibrillator display in AED mode.
3.19	Defibrillator's battery must have a battery charge indicator for batteries. Defibrillators must have algorithms to remove artifacts during CPR and other electromagnetic disturbances.
4	**System Configuration Accessories, spares and consumables**
4.1	Defibrillator -01
4.2	Paddles Adult/Paediatric (pair) -01
4.3	Complete set of ECG Leads along with mother cable-01
4.4	ECG Rolls- 5
4.7	AED pads 5nos. .
5	**Environmental factors**
5.1	The unit shall be capable of operating continuously in ambient temperature of 10-40°C and relative humidity of 15-90%
5.2	The unit shall be capable of being stored continuously in ambient temperature of 0-50°C and relative humidity of 15-90%
6	**Power Supply**
6.1	Power input to be 220-240VAC, 50Hz
7	**Standards, Safety and Training**
7.1	Should be US-FDA / European CE-approved product.
7.2	Should have a local service facility. The service provider should have necessary equipment recommended by the manufacturer to carry out preventive maintenance

	tests as per guidelines provided in the service/maintenance manual.

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Trauma Mannequin

Features –

- Should provide a full-body representation with minimum height of 5'5", including the limbs, torso, and head, to simulate realistic trauma scenarios.
- Should have articulated full body Mannequinto teach mechanism of limbs, torso, and head.
- Should allow primary survey and secondary survey (Inspection, & palpation).

Should be able to perform trauma airway features to practice as:

- Endotracheal, Nasotracheal intubation
  - Bag valve mask ventilation
  - Stomach auscultation to verify proper airway positioning
  - Right mainstream intubation
  - LMA, combitube insertion possibilities

Should be able to demonstrate various range of wounds Trauma Life Support curriculum such as:

- Trauma intubation head
- Seat belt contusion
- Burn arm with 1st, 2nd and 3rd degree burns
- Compound fracture radius
- Industrial hand
- Exposed viscera
- Large and small calibre entry and exit wounds
- Impaled Object
- Compound femur fracture
- Compound fracture femur
- Closed fracture tibia and fibula
- Contused ankle and foot
- Crushed foot

- Should incorporate a simulated bleeding module into the training program, ensuring that no actual blood is spilled during the training process.
- Simulated bleeding module should allow reuse.
- Should allow be able to visual inspection of bleeding and body assessment.
- Should simulated bleeding adding realism to simulated scenarios.

Amputation thigh and arm for bleeding training use of Tourniquet application, Proximal artery compression training possibilities for artery compression, gauze pack placement. It must have 1 bleeding amputation arm, bleeding trauma arm-left, Bleeding Amputation Thigh - Left, Bleeding Trauma Thigh - Right

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SPECIFICATIONS OF MOBILE X-RAY MACHINE

High frequency X-Ray machine suitable for general radiography. Should comprise following features:

1. **Control Panel:**

a. Should be Microprocessor controlled High Frequency Mobile x-ray machine.
b. Should be Micro Controller based control Panel with 7 inch or more LCD / LED display.
c. Should have LCD display : KV,mAs,APR Program selection, error display
d. Should have 2 Point Technique (KV&mAsselection) for exposure
e. Should have Status and error display, Self-diagnostic program with LCD display of earth fault error, KV error, filament error and tube head thermal overload.
f. Should have LCD display andselectiinof128ormoreA.P.R.parametersofhumanAnatomy,which helps the user toselectexposureparametersbasedonbodypart,examinationviewandsizeofthe patient.
g. ShouldhaveDualaction handswitchwithretractablecord.

2. **X-RAY GENERATOR**

a. Should be Microprocessor controlled High Frequency X-Ray Generator
b. Should have output power of 3.5KWormore
c. Should have high frequency of250KHzormore
d. Should have KV Range of 40-110KVpormore
e. Should have MaxmA of 70mAormore
f. Should have mAs rangeof250mAsormore
g. Should have ExposureTimer of1msto5sec

3. **X-RAYTUBE**

a. Should have dual focus StationaryAnodeX-RayTube
b. Should have FocalSpot:1.5mmx1.5mmorless
c. Should have AnodeHeatstoragecapacity of40KHUormore

4. **Collimator:**

a. Should have double slot manualcollimatorforadjustmentofexposure area
b. Should have Autocut-offprovisionafter45sec.

5. **SpringBalancedMobileStand:**

a. Should have Spring Balanced Mobile (SBM)stand with 4wheel design ensure esasy mobility.
b. Should be Light weight design, easytomaneuver with smooth movement of tube head
c. Should have integrated cassette storage box
d. Should have light vehicle wheels for easy mobility.
e. Should have Orbital Rotationlock, Angular Rotationlock &Parkinglock.
f. Should be Light weight of less than 150kg
g. Should have Lesser Height of 135cm or less in parking position

6. **ELECTRICALCHARACTERISTICS:**

a. ShouldworkonSinglephase220VAC,±15%,Frequency50Hz,15Amp

7. **OTHER:**

a. ShouldbeAERBTypeApproved.Copyof validAERBtypeapprovalshould beenclosed.
b. ShouldhavevalidBIScertificate.
c. ShouldbeISO13485:2016,ICMED13485 and ISO9001:2015certified.Please enclosed copies of valid certification.

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12-lead ECG Machine

ECG Functionality:

- Simultaneous lead acquisition and display of up to 12 leads.
- Up to 12 Configurable Rhythm Leads
- Full disclosure of each leads for 5 min with complete ECG report of any 10 seconds with continuous patient heart rate display
- Storage of 200 ECG for all 12 leads in XML and PDF Format on USB
- 200 ECGs internal storage, and additional storage of 200 ECGs with optional USB device.

Power Supply:

- Li-Ion battery for printing at least 25 ECG on full charge battery
- Option for second Li-Ion battery for additional extended back-up

Line power

Algorithm:

- >600 interpretative statements
- Standard measurements of intervals, duration and axis.
- Selectable interpretation
- STEMI clinical Support
- Five ECG reports, ST Segment Analysis with graphical ST Vector, frontal and transverse.
- Gender specific criteria to detect unique cardiac disease symptoms in Women.
- Right heart statements from right chest leads.
- Culprit Artery criteria that suggest any of 4 probable sites of occlusion with critical values requiring immediate clinical attention.

Signal Quality, Data acquisition & Processing:

- Leads off advisory for disconnected leads.
- Four Colour to indicate levels of waveform quality
- Detection of Lead reversals
- 8000 samples of second per lead wire
- Wide filter selection: 0.05 Hz to 150 Hz selectable as per applications
- Should have microprocessor controlled digital processing facility

Display & data input:

- High resolution colour 6.4"TFT display, with touch screen for quick use
- Continuous display of Patient Heart Rate
- Full Screen Preview of complete 12 lead report prior to printing
- Integrated graphical help screen for primary functions
- Full alphanumeric keyboard for quick patient data entry
- Storage, Recording & printout
- Built in high resolution thermal array printer (200 x 500 dpi).
- A4 size recording with rhythm for 12L ECG on single sheet
- 100-240 V, 50/60 Hz with consumption less than 70W

Certification:

- Should be USFDA approved and European CE Certified.

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Chest Drain and Cricothyrotomy Trainer

a)-Chest drain

- Reservoirs to be filled with fluid or mock blood to represent pleural effusion
- Bilateral chest drain and needle decompression pads
- Should give the impression of breathing under ultrasound when using the advanced pad
- Needle decompression air reservoirs to provide realistic release of air on insertion of needle
- Suitable for supine, sitting or leaning forwards positions
- Should work with thoracic seals when using the standard pad
- Affordable replaceable pads
- Latex free
- Should represent adult male thorax with arms raised
- Bony and soft tissue landmarks: manubriosternal joint, clavicles, ribs, pectoralis major and latissimus dorsi
- Internal ultrasound anatomy: diaphragmatic structures and collapsed lung
- Skills to be gained:
- Needle decompression of a tension pneumothorax (at both the 2nd and 5th intercostal space)
- Open, or cut-down chest drain insertion: recognition of correct position, surgical incision, blunt dissection through chest wall, perforation of pleura and finger sweep
- Suture of tube to chest wall
- Ultrasound-guided chest drain insertion (Seldinger-type), including insertion of needle under direct vision and ultrasonic recognition of chest structures
- Management of pleural effusion
- Must have augmented reality for higher realism for training of the students resembling to real world like MRI and CT scan to allow to view musculature, organs and vessels, and skeletal structure for chest drain manikin.
- Demonstration is must. OEM must have Iso certification.

b)- Cricothyrotomy Trainer

- Should provide realistic surgical training platform for cricothyrotomy
- Needle and surgical cricothyrotomy skills should be practiced on this model with interchangeable rigid and soft tracheas.
- Anatomically accurate landmarks for site training
- Interchangeable tracheas to facilitate realistic simulation of needle and surgical cricothyrotomy procedures
- Rigid trachea with simulated lung
- Soft trachea with simulated lung
- Replaceable neck skin allows repeated practice
- Manufacturer must conform to the National or International Quality Certification i.e. ISO / aEuropean CE/USFDA, etc and the manikin must be placed over a removable base for easy and controlled access during the procedure.
- Must provide with 1 rigid trachea, 1 soft trachea, 1 replaceable skin with 1 base, 1 head and direction of use.

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SPECIFICATION OF SUCTION MACHINE

It should be ½ HP

Rubber Mounted motor to reduce noise and vibration.

Metal components are powder coated to prevent rusting.

Moulded nylon components to prevent rusting and reduce noise.

Working voltage: 210/ 250 VAC, Single phase 50 Hz

Current : 2.5 Amps

Vacuum: 660mm Hg. Maximum

Vacuum : 660mm Hg. Maximum

Vacuum gauge : 0 to 760mm Hg, 2½" dial

Vacuum control: 0 to 660 mm Hg adjustable needle type vacuum regulator with dust collector.

Lubrication: Continuous oil lubrication.

Bottle capacity : 2 nos. of 2 litre capacity

Safety device : Float actuated valve to safeguard against inflow of fluids into the pump

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Technical Specification

BiPap Machine

S.No.	Item Name and tender description	Compliance/Deviation
1.	**Intended Use:**	
	Should be used for Non-Invasive Positive Pressure ventilation	
	Should be utilized for both pediatric and adult patients>18 Kgs with OSA & Respiratory Insufficiency patients	
	Back-up rate option should be available with pressure support modes.	
2.	**Detailed Description & Technical Specifications:**	
	Should be Light Weight, Portable, Low maintenance, Easy and Simple to operate	
	Should be Electrically powers, Microprocessor controlled Blowers	
	Should have a maximum pressure limit up to 30 cm of H20	
	Should have default algorithm for automatic triggering and cycling sensitivity. No need to set trigger and cycle sensitivity manually.	
	Provision of Hybrid ventilation options and comfort feature option available.	
	Integrated Humidifier should be Heated Humidifier & single unit chamber	
	Should have Provider Lock options for Clinical settings to avoid accidental change of clinical settings.	
	Should have provision of Advanced features for improving Patient Adherence therapy.	
	Flex Therapy Options– Exhalation Pressure relief option should be available	
	Check Mask fit Option – to ensure proper mask fit to improve better clinical outcome.	
	Provision for both **Adaptive** and **classic humidity** for better compliance.	
	Should display the information of Usage hours, Mask fit and AHI for better adherence to therapy.	
	Incorporated with SD provision for easy extraction of therapy compliance data.	
	Performance Check feature should be available for easy trouble shooting.	
3.	**Modes of ventilation**	
	The following modes should be available in the device	

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	• Cpap mode:	
	• S or Spontaneous Mode	
	• S/T or Spontaneous Timed Mode	
	• PC or Pressure controlled Mode	
	• T or Timed mode	
	• **Hybrid Mode: Optional :VAPS with AutoEpap algorithm**	
	• **VAPS – Volume assured Pressure Support can be enabled as a feature on all Bi-pap therapy Modes** • Should be recommended to use from 18 kg onwards	
	• **Auto- Epap Algorithm**– a default feature to treat patients with Overlap syndrome patients • In Bi-Level Therapy Modes, Auto – Epap feature can be enabled Enabled or Disabled	
4.	**Monitoring**: Measured and display parameters	
	• Pressure	
	• Exhaled Tidal volume	
	• Exhaled Minute Ventilation	
	• Respiratory Rate	
	• Estimated Leak Rate	
	• Patient trigger indicator	
5.	**Controls:**	
	• Cpap : 4 to 20 cm H20	
	• Ipap : 4 to 30 cm of H20	
	• Epap: 4 to 25 cm of H20	
	• Breath rate – 0 to 30 cm of H20	
	• Ti – 0.5 sec to 3 sec	
	• Target Tidal Volume – 200 to 1500 ml (If AVAPS enabled)	
	• Rise time should be minimum 100 ms to 600 ms	
	• Ramp Time and Ramp starting pressure should be available	
	• Avaps Feature can be enabled.	
6.	**Alarms & System Messages:**	
	• Patient Disconnection alarm	
	• Apnea alarm	
	• Low Minute Ventilation alarm	
	• Low Tidal Volume alarm	
7.	**Accessories to be supplied:**	

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	1. Power cord with Power adapter	
	2. Disposable or Reusable Tubings – 22mm	
	3. Disposable Exhalation port	
	4. Oxygen Enrichment port	
	5. Silicon or Gel Reusable Full face masks	
	One or Two Standard size(S/M/L) Full Facemask	
	6. Nasal mask	
	a. 2 medium size	
	b. 2 large size	
	7. Upgradeable to SpO2 Module & Data Module	
	8. Should have SD card or USB card slot for recording information for clinical study.	
	9. Should be supplied with integrated Heated Humidifier with heated tube option.	
	10. 2 Pollen air filters	
8.	**Standards:**	
	2 years comprehensive warranty	
	CMC for 5 years after completion of warranty for spare parts / accessories used during maintenance	
	The company should give the certificates that the model quoted is the latest and not obsolete; and spares will be easily available for next 5-7 years.	
	Should have safety certificate from a competent authority CE issued by a notified body registered in European commission & FDA (US)	

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