• • •		Bidder's Compliance Sheet			
S.No	Purchaser's Requirements (f/y-082/83)	Yes/No	page no. in	Remarks	
	Anaesthesia machine				
	Manufacturer:				
	Brand:				
	Model:				
	Country of Origin:				
1	General Requirement				
1.1	Compact and modular, Anaesthesia machine with an integrated ventilator for adult to infants and integrated airway monitor for airway pressures and volume.				
1.2	Anaesthesia workstation with circle absorber, one vaporizers, Ventilator and Monitoring with complete accessories.				
1.3	The machine should be suitable for low and minimal flow anesthesia application with compliance compensation of breathing circuit. Should have fresh gas decoupling system.				
1.4	The machine should have minimum 2 drawers				
1.5	The anesthesia machine, inbuilt ventilator, vaporizer, should be manufactured by the same company.				
1.6	The system should have upto 1 Hrs. battery backup				
1.7	System should confirm to USFDA or European CE and EN 60601-2- 13 (Requirement for safety and essential performance of anaesthesia system)				
2	Gas delivery system				
2.1	Should have pin index yokes for Oxygen & air besides separate connection for Central gas supply for Oxygen and Air.				
2.2	Machine should provide fresh gas settings and delivery with flow meters for O2 & Air				
2.3	Should have back-up O2 control which provides an independent fresh gas source and flow meter Control in case of electronic failure.				
, ,, ,	The system should be suitable to use at minimal flow upto 700ml fresh gas setting.				
2.5	Emergency Oxygen flush at 30 – 70 L/min bypassing the vaporizer.				
	In case of electricity and battery failure, manual ventilation, gas and agent delivery should be possible.				
.7	Machine shouldn't depend upon driving gas for ventilating.				
3 1	/aporizer				

3.1	Machine should have possibility to mount two quick mount type vaporizer for easy interchangeability, and safety with interlock facility.			
3.2	Should be provided with a Temperature / pressure compensated and flow independent			
3.3	Should be capable of connecting Vaporiser.for Isofluorene / Sevoflourane / Halothene / Desflorane Vaporizer			
3.4	should have extended delivery range from 0 to 6 Vol. %			
3.5	The vaporizer should require no calibration in its life time.			
4	Breathing System			
4.1	Should have fresh gas de-coupled semi closed circle absorber			
	system.			
4.2	Should have adjustable pressure relief valve from 5 to 75 mbar.			
4.3	Should have change over from Spontaneous to Bag ventilation			
N SXCS	with single step. The system should have leak and compliance test (including			
4.4	patient hoses upto the Y piece).			
_	Should have compact breathing system with approx. 1.7 Ltr.			
4.5	Volume capacity			
-	Should have an external fresh gas outlet for connecting Magill or			
4.6	Bain's circuit			
4.7				
5	Apposthesia Ventilator			
-	The system should have inbuilt ventilator with electronically			
5.1	tor 7000			
200	consumption of driving gas.			
5.2	s stalland for adult & infants			
5.3	Modes: Manual/Spont, Volume controlled.			
5.4			_	
5.			-	
5.	Breathing Frequency: 4 to 60 BPM		-	-
	Should be able to ventilate with atmospheric (room) air, in case			
5.	of total gas supply failure.	-	-	
6	Airway monitoring	-	_	
6.	Screen should be of atleast 6" inch.			
6.	Integrated monitor for electronic monitoring and display of			
	following parameters.			
6.				
6.	t plate and impossing			
6.				
6.	A L C Almost processes			
6.				
1 7	Alarm illing & alarms			



7.1	Adjustable high / low limits with audio and visual alarms for the following:	
7.2	Minute volume,	
7.3	Airway pressure (incl stenosis and disconnect),	
7.4	Insp oxygen concentration,	
7.5	Audio power supply fail alarm,	
7.6	Fail to cycle warning.	
8	Operating Environment	
	The system offered shall be designed to store and to operate	
	normally under the conditions of the purchaser's country. The	
8.1	conditions include Power Supply, Climate, Temperature,	
	Humidity, etc	
-		
8.2	Power supply: 220 - 240 VAC, SOHz fitted with appropriate plug.	
0.2	The power cable must be at least 3m in length	
9	Accessories and Spare Parts:	
9.1	2 gas (Air & O2) Anaesthesia workstation	
9.2	Trolley with drawer	
9.3	Pipeline connections for 2 gases	
9.4	Adult & Peadiatric autoclavable patient tubings (1 each)	
9.5	Anaesthetic Face mask size – Adult & child	
9.6	Vaporiser for Isofluorene	
9.7	Medical Grade Adult Test Lung	
9.8	Central gas supply hoses (Color coded)	
9.9	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
10	Standard and Safety Requirements	
10.1	Must submit 15013485:2003/ AC:2007 for Medical Devices AND	
10.2	CE (93/42 EEC Directives) or USFDA approved product certificate	
11	User & Technical Training	
11.1	Must be provided to user as per user requirement by trained professional	
12	Warranty	
12.1	Comprehensive warranty for 2 year	
13	Maintenance service during warranty period	
12.4	During the warranty period the supplier must ensure	
13.1	corrective/breakdown maintenance whenever required.	
14	Documentation	
14.1	User (operating) manual in English	
112	List of important spare parts and accessories with their part	
14.3	numbers and costing	



Technical Specification Technical Specifications for Automatic Autoclave (450 L)

S.N.	Purchaser's Specifications (FY-2082/083)	Bidder's Compliance sheet			
		Compliance Yes/No	Deviation (if any)	Corresponding page no. of data sheet/catalogue in support of specification	
Auto	clave ,Automatic (450l or more)				
Manu	ıfacturer				
Bran	d				
Type	/ Model				
Coun	try of Origin				
1	Description of Function				
1.1	Autoclave shall be able to work under high pressure and high temperature in order to sterilize wrapped instruments, unwrapped instruments, linen, glassware, plastic articles etc.				
2	Operational Requirements				
2.1	Microprocessor controlled, automated horizontal electrically heated autoclave with complete accessories.				
3	System Configuration				
3.1	Horizontal Autoclave with complete accessories.				
4	Technical Specifications				
4.1	Single door high pressure steam sterilizer with triple walled, steam jacket and separate boiler.				
4.2	Should be made up of stainless-steel SS 316 chamber, door, loading carriage, with glass wool (or equivalent) insulation.				
4.3	Operating temperature 121 °C – 134 °C				
1.4	Operating pressure: 1.2 to 1.5 Kg/cm2 (15-20 PSI)				
1.5	Capacity-~ 450 liters Size: (600x1200) mm				
	Load capacity-~ 18kw				
1.6	Heating device (steam generator) horizontally mounted, preferably separated from the chamber.				
1.7	Double locking mechanism preventing door from opening while chamber is pressurized.				
.8	Chamber is provided with two rails for easy/smooth movement of carriage.				
.9	Should provide with universal carriage and loading trolley.				
.10	Indicating lights display all functions including heating, low water, timer operation, temperature set point and actual temperature.				
	Dopera St.				
	BIONEC NO				

	Keypad shall be provided which is used for adjusting	r	1
_	the parameters.		
4.12	Spring loaded safety valves and automatic vacuum breaker for jacket.	1	
4.13	Automatic pressure control switch		
4.14	Steam generator should consist of automatic water level controller for the protection of immersion heater. Should have low water level cut-off.		
4.15	It shall have temperature sensing device for precise control and monitoring.		
4.16	Should Pre-vacuum post vacuum -~ Equipped with PRE-vacuum and post- vacuum technology, and ensures complete air removal before sterilization and effective steam evacuation after the cycle. This results in deeper steam penetration, uniform sterilization, and faster, moisture-free drying-ideal for wrapped instrument, surgical tools, and textile loads		
2	Audio/ visual Alarm for pressure failure, low water etc.		
	Accessories, spares and consumables		
2.1	Accessories: • Spare Heat resistant silicon lid gasket: - 2 nos. • Spare Immersion rod: - 2 nos. • Loading trolley for transfer of goods		
2.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	S.	
3	Operating Environment		
3.1	The system offered shall be designed to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.		
3.2	Power supply: 440V 3ph, 50Hz AC Supply fitted with appropriate plug. The power cable must be at least 3 meter in length.		
1	Standards and Safety Requirements		
1.1	Must submit ISO 9001:2015/ISO 13485,CE or USFDA certificates Electrical safety shall confirm to standards for		
	electrical safety IEC-60601.		
5	User Training		

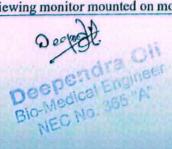


/	Must provide user training (including how to use and maintain the equipment).	
6	Warranty	
6.1	Comprehensive warranty for 2 years	
7	Maintenance Service During Warranty Period	
7.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
7.2	Installation and Commissioning	
7.3	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
8	Documentation	
8.1	The bidder should submit a valid authorization from the manufacturer.	
8.2	The bidder should submit the original brochure or e	
8.3	User (Operating) Service (Technical / Maintenance) manual in English manual in English	
8.4	List of important spare parts and accessories with their part numbers and costing.	
8.5	Bidders must completely fill the Technical Specification Form (TSF). Only YES/NO/COMPLY should not be written. Page number in the catalogue must be clearly mentioned and highlighted.	



SPECIFICATIONS OF C-ARM Machine

S.N.	Purchaser's Specifications	Bidder's Compliance Sheeet			
	Mobile C-Arm with Image Intensifier/FPD	Yes/N0	Page no. in catalogue	Remarks	
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	Description of Function				
1.1	Microprocessor controlled C-arm machine with Image Intensifier and 1K X 1K imaging chain should provide the excellent image quality at low radiation, ideally suited for general surgeries in many application fields and special application such as orthopedics, urology, Gastroenterology, pain management, Spine fixation.				
2	Operational Requirements				
2.1	It shall be suitable to be used for adult and pediatric patients in general radiography examination and it shall operate on single phase AC power supply.				
3					
3.1	A portable mobile trolley C-Arm machine with image intensifier.				
4	Technical Specifications				
4.1	IMAGE INTENSIFIER & CAMERA/FPD system				
	Input field size (approx.) 9 inch (Triple field)				
	Grid on the entrance field: circular grid				
	Digital high resolution 1k*1k CMOS camera, with at approx. 1.6 MP, 10 bits, 15 fps / 25 fps and high resolution 1024* 1024 pixel.				
4.2	Monitor				
	32 inch single 0r 17 inch dual monitor or more High Resolution (1920 x 1080) Full HD LED Monitor with Auto Clean, Active Back-light control and contrast booster with superb fluoroscopic viewing monitor mounted on mobile				



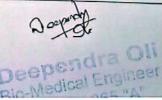
4.3	X-Ray Tube			
	Monoblock tube head having dual focus stationary anode X-Ray tube of focal spot 0.6mm (small focus) & large focus (1.5mm) should be provided	Levy 1		
	Anode Heat Storage capacity should be 42KHU or more.	-		
	System should have laser based aiming tools to reduce exposure for doctor and patients. Collimator: fixed		- Trans	
4.4	Control Unit:			
	A very compact, soft touch control panel with graphical color TFT display of min 5.7-inch size on which KV, mAs, Fluoro mA, and other indicators can be displayed Should have 2 step remote exposure switch.			
	Console Panel should have following functions and indications.			
	 Machine ON/OFF switch. Fluoro timer reset Switch (For reinitiate the exposure after 300 sec fluoro timer) KV and mAs increase and decrease switches. X-Ray ON Switch with indicators. Switches for up/down movement of "C" on both side of panel. Realtime temperature display on screen. Exposure lock switch. 			
1.5	X ray Generator	1		
]	High Frequency not less than 40 KHz.			
•	Output power should be 5KW.			
]	Fluoro & Rad. Kv 40 to 110 KV.			
	Max. mA: 80mA or more.			
]	Radiographic mAs:0.4 to 200mAs			
1	Pulse Fluoroscopic mA(peak):- • 0.1 to 3mA (Fluoro Mode) • up to 8mA (HD Mode)			
6 1	Memory system			Are the second
	Memory system Memory system should include the following:			



4.7	Image Acquisition	
	Image processing software with real time image capturing, storage, and display in 1K X 1K format.	
	Unlimited data storage with high resolution, 1K X 1K format.	
	1000 runs of 100 frames image memory with Unlimited patient creation Storage at full resolution 1024 x 1024	
	Single/dual monitor support for enhanced Last Image Hold.	
	System should have feature of post image enhancements	
	Optimal dose indicator algorithm in manual X-ray mode to avoid x-ray adjustment.	
	Should have feature of video rotation angles.	
	Image Rotation, Image Mirror support	
	Should have feature of Negative Image, Contrast adjustment, Sharpness, Brightness, Advance and Ultra Enhancements	
	Must have Customizable key map configurations	
	Dedicated Patient Mode (Without Registration), add/ modify information.	
	Image Format Support BMP, JPEG, PNG, etc.	
	Real time Horizontal and Vertical Video Flip functions.	
	Should have inbuilt APR system.	
	System should auto Save Image after exposure	
	System should store Patient Image Counter and patient name.	
	Real time digital zoom facilities.	- 100 mm - 1
	Real time noise with reduction with Averaging	
	Real time Image Flip function Horizontal & Vertical.	
	Import Patient Data	
4.8	Storage	The state of the s

Deependra Oli Bio-Medical Engineer NEC No. 385 "A"

	System should able to store image more then 10000 images.			
	Fluoro saving as per user need			
	Last image hold saving as per user need			
9	C-arm Movements (approx.)			
	Fully counter balanced movement			
	Rotation: ±180			
	Arc orbital movement: 120 or more			
	Horizontal movement: 200mm or more			
	Vertical movement: 400 or more	**************************************		
	Clearance:750 mm or more		-	
	Swivel range: ±12.5° or more			
	SID: 930 mm or more			
	System should have features of locks for all the manual movements of C-arm			
	Should have emergency switch to shutdown entire machine operations.			
5	Accessories, spares and consumables			
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.			
5.2	Accessories:			
	Lead apron-03 no Thyroid shield-03 no Lead eyewear-03 no	DEAL MARK		
6	Operating Environment			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply requirements			
	The machine should be operable on single phase 220 – 240 VAC, 50Hz with appropriate plug for X-ray generator fitted with appropriate plug for other units. The power cable must be at least 3 meters in length. electronic voltage stabilizer should be provided			
	UPS for power backup of the software should be provided.			
				- C C C C



7.1	Must submit ISO13485 for Medical Devices AND	
7.2	Must submit CE or USFDA approved product certificate.	
7.3	The product should be approved by AERB / BIS.	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 3 years should be provided.	
10	Maintenance Service During Warranty Period	
10	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
12	Documentation	
12	User (Operating) manual in English.	
12	Service (Technical / Maintenance) manual in English.	
12	Manufacturer authorization letter	

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.



	Landa Englishman (fly 002/02)	Bidd	er's Offer
.N.	Purchaser's Specifications (f/y-082/83)		Remarks
-5	Defibrillator	100/110	TTCTTTCTTTC
	Manufacturer		
	Brand		
_	Type/Model		
_	Country of Origin		
	Description of Functions		
	To be used in emergency & critical care departments to meet various		
	resuscitation and monitoring needs.		
	Operational Requirements		
_	t shall operate on AC power supply and internal battery.		
	System Configurations		
	Defibrillator must be Biphasic Light Weight and latest model with		
	complete accessories.		
_	Technical Specifications		
-	Defibrillation function:		_
	Must be compact design, Monitoring, Manual Defib and AED		(C.)
1	Automated External Paddles sets) capabilities.		
3	Able to perform synchronized defibrillation and non-invasive pacing		
1	therapy.		
1	Shall have multifunctional cable that can be attached to paddles, AED		
4	pads and shall be provided with multifuntional pads for AED,		
-	cardioversion, etc.		
1	Shall have variety of options for all patient resuscitation needs, and have		
	facility to upgrade to 12 lead, EtCO2, NIBP, SpO2, Temperature (2		
	channels) in future		
	System shall be user friendly, lightweight and easily transportable.		
	es comply,		
	Weight must be less than 7Kg with accessories		
nı	easy to carry handle		
	must have a charge indicator that illuminates when the unit is charged		
	and ready to deliver a shock:		
1	The defibrillator paddles shall be easily interchangeable among adult,		
	child, and internal paddles. It shall come with at least adult and		
	paediatric paddles.		
	Can be used for paediatric and adult defibrillation & must have		
ХI	automatic shock level settings		
	Energy settings should be up to 200 joules or more energy options		
4 1	should be available	-	
	Fast charging time up to 200J should be less than 7 sec. both in AC		
.1 1	power and battery.	D. T. L.	
	Deliver all necessary energy to patient with 20ms even in high		7
11	Deliver all liecessary ellergy to Datielit With Zufffs Evell III filkli		



6	The unit shall be able to perform defibrillation and monitoring by		
12	using disposable electrodes.		
1.12	Recharge time shall not be held longer than 7-8 seconds before	1265	
4.13	discharge.	THE PERSON NAMED IN	THE PARTY OF
	Energy charge & discharge and other selection/control buttons shall		
4.14	be available at the paddle handles as well as front of defibrillator		
4.15	Can operate within a high range of temperature (: 0 to 50° C)		
4.16	Should have built in AED and protocol should be informed by message	No let	
11.20	and voice prompt.		
4.17	Waveform should get back to basic line approximately within 3 sec.		
-11.27	after defibrillation		
	Shall have LCD display displaying at least dual ECG channel, HR, battery		
4.18	Istatus, shock indicator and various data. Bidder to specify size of LCD		
,,,,	screen (6-8inch) and atleast 3 waveforms which can be displayed.		16
4.19	Shall have audio and visual alarms. (Please indicate in the next column		
	type of alarms available)		
4.2	Must have an electrode contact-quality indicator to minimize the		
200000	risk of ineffective defibrillation.		
4.21	The unit shall be portable and the weight of the machine must be		
	within 8kg with accessories		William Property
4.22	Provision for built in Battery test function		
	Built in 2 channel thermal recorder Should be maintenance free		
4.25	ECG monitoring function: Shall have a 3-leads ECG, Lead I, II & III, monitoring capability protected		
4.20	from defibrillation by means of ECG electrodes and through-the-paddles		
4.26			
4 27	monitoring With heart rate display and alarms		
	With heart rate display and alarms With Lead-fault indicator		
4.20	Shall have an integrated thermal printer/ recorder with paper speed		
4.29	of 25 mm/sec, 50 mm/sec,		
5	Accessories, Spare Parts and Consumables		
-	Accessories:		
	Rechargeable battery, 1 piece on the unit		
	☐ Thermal paper x 1 roll/sets		
5.1	Power cord x 1 set		
	② 3 wire ECG cable x 1 set for ECG monitoring		
	Disposable ECG electrodes, 5 pieces		Maria Liver
	All standard accessories, consumables and parts required to operate the		1-1-1
	equipment, including all standard tools and cleaning and lubrication		
5.2	materials, to be included in the offer. Bidders must specify the quantity		de primi
	of every item included in their offer (including items not specified		
	above).		
-	INDUTE:	-	



,	Operating Environment	
/	The system offered shall be designed to operate normally under the	
6.1	conditions of the purchaser's country. The conditions include Power	
	Supply, Climate, Temperature, Humidity, etc.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug (3 pin).	
6.2	The power cable must be at least 3 metres in length.	
7	Standards & Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
7.2	CE (93/42 EEC Directives) and USFDA approved product certificate.	
7.3	Electrical safety conforms to standards for electrical safety IEC-60601-1	
7.3	General Requirements and IEC-60601-2-25 Safety of Electrocardiograms.	
8	User Training	
	The Supplier shall conduct user training for this equipment to enable	
8.1	operators to use the equipment properly. The training shall include the	
0.1	use of all operational functions of the equipment, as well as routine	
	checks and maintenance expected by users.	
9	Warranty	
9.1	Comprehensive warranty for 2 year after acceptance.	
10	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure planned preventive	
10.1	maintenance (PPM) along with corrective/breakdown maintenance	
	whenever required.	
11	Installation and Commissioning	
	The bidder must arrange for the equipment to be installed and	
11.1	commissioned by certified or qualified personnel; any prerequisites for	
	installation to be communicated to the purchaser in advance, in detail.	
	Documentation	
	User (Operating) manual in English	
12.2	Service (Technical / Maintenance) manual in English	



Technical Specification of Electro-hydraulic OT Table

S.N.	Purchaser's Technical Specifications (f/y-082/83)	Bidder's Compliance Sheet			
	Electro-hydraulic OT Table	Yes/N	Page No	Remarks	
A 1 8 8	Manufacturer				
	Brand				
	Type/Model				
	Country of Origin				
1.	Description of Function				
	Electro-hydraulic operating tables are tables for performing		#i====		
1.1.					
(TOP STREET	hydraulic system.				
2.	Operational Requirements				
	Electric and hydraulic Operating Table with complete standard				
2.1.	accessories.				
3.	Technical Specifications				
3.1	Five section table top including divided foot section.				
3.1		-			
3.2	It should made of SS medical Class materials with Durable and				
	Corrosion resistant properties.				
3.3	Should have latex free, radiolucent, memory foam mattress				
50.50(45.5)	with seamless PU leather.				
3.4	The form should have antibacterial, antistatic, and waterproof	ė –			
	properties.				
	The lifting column should be protected by elastic plastic cover				
3.5	that helps for easy cleaning and				
	aesthetically looking.				
3.6	The hydraulic system should be high pressure with integrated				
3.0	valve.				
3.7	Table wheel should be inside the SS Base frame				
2.0	Table should have Floor Locking system for Stability and				
3.8	movements through lock/unlock floor feet button.				
3.9	Table should have manual over ride system.				
Selection V	The keyboard must have lock and unlock button to prevent the				
3.10	accidental press to the button.				
3.11	Table should have remote control system with backlit.				
				-	
	All Sections should be X-Ray Translucent for fluoroscopy and				
3.12	should be C-Arm compatible and main section should have				
	facility for putting X-Ray cassette from either end.				
	All table positioning, i.e., height, back section, lateral tilt,	-	-		
	Trendelenburg, and reverse- Trendelenburg, height				
3.13					
	adjustment except foot and head section must be operated				
	electrically.				
3.14	It should have maximum lifting capacity of 180 kg or more				
	Inbuilt rechargeable battery capable of backup. Battery should	-			
.15	have charging circuit with auto cut off.				
-	Have charging checke with actor cut on.				
	Control				
	M.V.				
	Bio WEC No. 302 V. V. Bio West Control of the Contr				
	SP ACE ACE				
	Delleono				
	810, EC,				

Landalan del con e	-		
hould have provision of ortho attachment, floor mounted /pe .			
imensions (approx.)			
nould be approx. 500mm wide (excluding side rails) and			
djustable height (without mattress) 760mm – 1010mm or			
endelenburg adjustment at least 22° or more	_	_	_
everse Trendelenburg adjustment at least 22° or more		_	
teral Tilts 20° or more			-
ck section at least 70° up and 15° down or better	-		
ad adjustment 25° up and 25° down, adjustable by gas ring or better			
g adjustment 90° down, adjustable by gas spring or better			
ility for self-leveling back to zero position by press of one ton by remote.			
gitudinal slide: 250mm or more. It should be motorized.			
d Plate: detachable and interchangeable with Leg Plate			
Plate: detachable and interchangeable with Head Plate			
essories, Spare Parts and Consumables included			
tandard accessories, consumables and parts required perate the equipment should be supplied.			
remote -1			
	-		
ed Lateral support -1 pair		-	
am Mattress – 1			
ational Environment			
roduct offered shall be designed to be stored and to			
ite normally under the conditions of the purchaser's			
ry. The conditions include Power Supply, Climate.			
erature, Humidity, etc.			
r Supply: 220 ±22 VAC, 50 Hz with appropriate power			
and plug.			
rements			
submit ISO 9001 & ISO13485:2003/AC:2007 for			
cal Devices AND			
3/42 EEC Directives) & USFDA Registered/approved			
ct certificate.			
	imensions (approx.) rould be approx. 500mm wide (excluding side rails) and 250mm long (including head section) or better. dijustable height (without mattress) 760mm – 1010mm or exter endelenburg adjustment at least 22° or more exerse Trendelenburg adjustment at least 70° up and 15° down or better ad adjustment 25° up and 25° down, adjustable by gas spring or better adjustment 90° down, adjustable by gas spring or better at lifty for self-leveling back to zero position by press of one ton by remote. gitudinal slide: 250mm or more. It should be motorized. d Plate: detachable and interchangeable with Leg Plate Plate: detachable and interchangeable with Head Plate existence of the existence of the plate existence of the purchaser's reduct offered shall be designed to be stored and to the normally under the conditions of the purchaser's ry. The conditions include Power Supply, Climate, erature, Humidity, etc. r Supply: 220 ±22 VAC, 50 Hz with appropriate power and plug. ards, Medical Device Regulation and Safety rements submit ISO 9001 & ISO13485:2003/AC:2007 for and Devices AND	nould have provision of ortho attachment, floor mounted type. Imensions (approx.) Include be approx. 500mm wide (excluding side rails) and 150mm long (including head section) or better. Idjustable height (without mattress) 760mm – 1010mm or 150mm long (including head section) or better. Idjustable height (without mattress) 760mm – 1010mm or 150mm – 1010mm or 150mm long (including head section) or better 150mm long adjustment at least 22° or more 150mm long adjustment at least 22° or more 150mm long adjustment at least 22° or more 150mm long adjustment 25° up and 15° down or better 150mm long or better 150mm long adjustment 25° up and 25° down, adjustable by gas 150mm long or better 150mm long or long long or long long or long long or long long long long long long long long	mould have provision of ortho attachment, floor mounted type. imensions (approx.) mould be approx. 500mm wide (excluding side rails) and provided by the provided p

7.	User and Technical Training	
- 4	Must provide user training (including how to use and safe handling, keep hygiene the equipment).	
8.	Up time Service Backup, Warranty/Guarantee	
8.1.	Comprehensive warranty for 2 year after acceptance.	
0 2 1	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance	
9.	Installation and commissioning	
9.1.	The bidder must arrange for the quoted equipment with all the listed accessories and consumables to be installed on site and commissioned by certified or qualified personnel; any	
10.	Documentation on site	
10.1.	User (Operating) manual in English	
	Service (Technical/ Maintenance) manual in English	
10.3	Manufacturer authorization should be submitted	



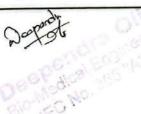
	Technical Specification on Electro-Surgical Unit wi Electro-Surgical Unit with Vessel Sealing	YES/NO	Page No. in	Remarks
	Manufacturer:			
	Country of Origin:			
	Brand Type:			
	Model No.:			
1	Description			
1.1	Electrosurgical units or Cautery are required to provide cutting and coagulation electrically during surgery and for controlling bleeding by causing coagulation (hemostasis) at the surgical site.			
2	Integral component			
2.1	Elecro-Surgical Unit: 1 Unit			
2.2	Two Bodel Foot Switch : 1 Unit	-		
2.4	Electrical Pencil Single Use with Rocker switch: 20 pieces			
2.5	Single Use patient plate: 20 pieces			
2.6	Patient Plate Cable : 1 piece		-	
2.7	Monopolar Cable : 1 piece			
2.8	Dingler Coble : 2 piece	-		
2.90	Devemble Lanaroscopic Vessel Sealer with cable: 2 piece	-		
2.30	5mm diameter, shaft length 350 mm Vessel Sealer with 4m			
2.10	No. 2 pioces	-	-	
	5mm diameter, shaft length 200 mm Vessel Sealer with 4m			1
2.11	aphle: 2 pieces			
2.1	Reusable Laparoscopic Bipolar forceps : 2 piece			
2.13	Manufacturer Trolley for ESU: 1 piece			1
3	System Configuration			-
3.1	Monopolar & bipolar cutting & coagulation			
3.2	Vessel Sealing System	-	-	
3.3	Endo Cut System		-	
4	Technical Description:			
4	The west should have following features for vessel sealing.		-	
4.1	Should have coagulation mode for bipolar vessel sealing.		-	
4.2	Should have a socket for vessel sealing integrated on the main unit.			_
	Should seal vessels up to 7 mm diameter or to coagulate vascularized			1
4.3	ticcue without changing the settings.	-	-	
1.1	should have automatic control of HF peak voltage.	-		
4.4	Terror to the season of the se	-		
4.5	Should have feature to automatically stop the current flow when			
4.6	optimal sealing is achieved.			
^	User Interface	-		
A.1	Should have minimum 26 cm diagonal screen size color touch display.			
AND COLUMN				-

Should have Intuitively-guided operation.

A.2



		_		
A.3	Should represent utilized current forms as pictograms and scale wheels and interactive graphics should show the expected and actual tissue effect.			
A.4	Number of individualized program presets should be minimum 300.			
A.5	Should be able to store user-specific settings as programs in the system menu and the representation of the programs should be possible in plain text.			
A.6	Should have illuminated multifunction sockets with status display.			
A.7	The offered system should support the user in a step-by-step menu from inserting an instrument through the selection of the current modality to the application of the selected current form.			
A.8	Should be able to export and import of the saved programs via anintegrated Wi-Fi interface via app		No.	
A.9	The sockets should be available for both monopolar and bipolar instruments and should offer automatic instrument recognition.			
A.10	The unit should recognize the instrument which is attached, the unit settings should be automatically adjusted to the recommended current forms and non-approved modes should be blocked			
A.11	Instrument activation should be illustrated by hand or footswitch pictograms.			
A.12	The sockets should color lit up and show the different states in terms of			
A.13	Should be able to store up to 6 sub-programmed with remote switching capabilities from the operating field by the surgeon (footswitch / monopolar electrosurgical pencil)			
A.14	Should have discipline-specific, indication-specific and OR-specific			
A.15	Should have at least 1 monopolar socket, 1 Bipolar socket, 1 integrated vessel sealing socket, 1 patient plate cable socket and 1 universal socket (Both monopolar and bipolar should be compatible in universal socket) in the main unit.			
В	Safety	_	_	_
B.1	The system should automatically and independently carry out a function checks of the unit and of connected accessories after switching on.			
B.2	The system should automatically detect, documents and reports malfunctioning.			
B.3	The unit should have function to automatically alert the user of any malfunctioning			
B.4	Should have function of automatic monitoring of the connection for the patient plate, alerting the user in the event of a malfunction.			



B.5	Should have function of automatic monitoring of the use of split-pad		
0.5	patient plates on the patient.		
	Should have function of automatic monitoring of the symmetry of		9
B.6	partial current flows through the split-pad patient plate with Constant Voltage.		
	Should have function of automatic monitoring of the relative current		
B.7	density of the electrosurgical current when using multi-pad patient plates.		
B.8	Depiction on the display of the current status of the neutral electrode with a scale wheel should be available.		
B.9	Should have function for automatic monitoring of theduration of activation.		
B.10	Prevention of incorrect power settings in the cutting and coagulation modes should be available.		
B.11	Neonatal function with alarm to prevent too high current outputs when using small patient plates for infants should beavailable.		
С	MODES		
C.1	The tendered unit should offer monopolar and bipolar cutting and coagulation modes as well as vessel-sealing modes.		
C.2	The settings for all cutting and coagulation modes should ensure that the cutting and coagulation quality is reproducible.		
C.3	The tendered unit must offer at least six different cutting modes, with a selection of different hemostatic effects per cutting mode.		
	The unit must offer all cutting modes listed below.		
C.4	Cutting mode for smooth inscisions with minimum to moderate hemostasis up to approx. 400W		
C.5	Cutting mode for tissue with poor conductive properties and monopolar resection with arcing regulation up to approx. 400W		
C.6	Cutting mode for controlled incision with significant hemostasis to approx. 240W		
C.7	Endo Cut Mode up to approx. 330W		
C.8	Bipolar cutting mode		
C.9	Bipolar high cutting mode for TUR / TCR		
C.10	The tendered unit must have at least ten different coagulation modes; users have a choice of different, finely adjustable hemostatic effects for		
	every coagulation mode. The coagulation modes listed below must be available.		
C.11	Coagulation mode for gentle coagulation		
C.12	Coagulation mode for intensive coagulation		
C.12	Classic Coagulation mode		
C.14	Coagulation mode for two simultaneously activated instruments (optional)		

1	IG 1 11			
C.15	Coagulation mode for tissue separation with dynamic adjustment of the modulation frequency			
C.16				
C.17	- 7 Bandtoll Hode			
C.18	- State of Mode for gentle pipolar coagulation			
C.19	- agriculturious for intensive bipolar coagulation			
C.20	- Salation mode for bipolar vessel sealing / thermofusion			
D	The sea garation mode for TOR / ICR			
-	Operating			
D.1	Must have coagulation mode with a slow and fast automated pulsed activation			
D.2	All coagulation modes must be adjustable to provide reproducible coagulation			
D.3	Modes must allow a range of applications to be performed from non- contact hemostasis of bleeding to non-contact devitalization of tissue anomalies			
E	Service & Upgrade			
E.1	The system should be equipped with up to modular type four multifunctional sockets which can be upgradable to Argon plasma coagulation & Waterjet System.			
E.2	The modular design should permit the system to be combined with other units, accessories (argon plasma flexible probes and argon plasma rigid handheld instruments) and a system cart (plasma surgery; hydro surgery; cryosurgery; smoke evacuation) & should be upgradable to waterjet System.			
E.3	Software upgrading should be able to be managed via an integrated Wi- Fi interface			
E.4	Should have function to export a detailed report on full usage, activation duration, energy delivered, mode used, error messages via an integrated Wi-Fi interface			
E.5	The system should automatically detect, document and report malfunctioning.			
E.6	The electrosurgical unit should automatically store the data of any malfunctions which occur.			
E.7	Stored problem reports should able to be accessed via an integrated Wi- Fi interface or retrieved directly from the unit.			
E.8	The unit should be designed in such a way so that maintenance work and the exchange of individual components can be undertaken on site at any time.			
E.9	Software upgrading should able to be managed via an integrated Wi-Fi interface (connected with electrosurgical unit).			
E.10	Energy supply of modules should be through docking system.			
5	Accessories, Spare and Consumables			
		and the second second second	Contract of the Contract of th	



	and the second s			
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer. All accessories must be from the same manufacturing company.			
6	Operating Environment			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
7	User and Technical Training			
7.1	Must provide user training to concerned personnel (including how to use and maintain the equipment)			
8	Warranty		-	
8.1	Comprehensive warranty for 2-year warranty after acceptance		_	_
9	Maintenance Service During Warranty Period		_	_
9.1	During the warranty period supplier must ensure preventive maintenance and corrective / breakdown maintenance whenever required.			
10	Instruction to bidders			
10.1	Must submit original catalogue and product data Sheet confirming the specification along with the tender.			
10.3	Should provide ISO certificate of Manufacturer, CE & USFDA approved Certificate, Classification in accordance with EU Directive 93/42 EEC (IIB), Protection class in accordance with IEC 60 601-1 (I), IEC 60 601-1 type			
11	Documentation	-	_	
11.1	User (Operating) manual in English	-	_	_
11.2	Service (Technical / Maintenance) manual in English			



	Technical Specification of Fiber Optic Laryngoscope			
S.N	Purchaser's Specifications (f/y-082/83)	YES/N O	Page No. in Catal ogue	Rema rks
	Fiber Optic Laryngoscope			
	Manufacturer			
	Brand			
	Type / Model			-
	Country of Origin			-
1	Description of Function			
1.1	Fiber Optic Laryngoscope is suitable for intubation of adult and paediatric patients, sterilizable and durable for repeated use in hospital operating theatre and critical-care environments.			
2	Operating theatre and entired early entired entired early entired enti			
	All surfaces shall be smooth (no edges or recessed features) to facilitate cleaning, disinfection and sterilization, and to reduce risk of nosocomial contamination.			
3	System Configuration			
3.1	Fiber Optic Laryngoscope with complete standard accessories.			
4	Technical Specifications			
Α	Laryngoscope Blades			
4.1	The offered laryngoscope blades must be of the reusable Macintosh type with integrated fiber optic illumination.			
4.2	The blades must be constructed from a single piece of chrome-plated, high-grade stainless steel to resist oxidation and corrosion during reprocessing.			
4.3	The fiber optic bundle must be internally housed, with no external fiber bundles, screwed joints, or openings that could trap contaminants.			
4.4	The blades must be compatible with all laryngoscope handles conforming to the ISO 7376 standard (green standard connector).			
4.5	The fiber optic system must provide high-intensity illumination, maintaining an illuminance of at least 1,000 lux after 4,000 autoclave cycles at 134°C for 4 minutes.	1		
В	Laryngoscope Handle		I To a second	
1.6	The offered laryngoscope handle must be designed for simplified hygienic reprocessing without the need to disassemble the battery compartment or LED light unit for cleaning and disinfection.			
.7	The handle must be 100% waterproof, allowing for wipe disinfection, manual immersion disinfection, and low-temperature gas plasma sterilization (e.g., STERRAD/VHP) without removing the batteries or LED unit.			



100	The Land			
4.8	The handle must be suitable for steam sterilization/autoclaving up to 134°C)	T	
4.9	The handle must incorporate a non-slip "Wave Design" surface to improve grip and the reliability of wipe disinfection.	,		
4.1	The operating time in continuous operation must be a minimum of 10 hours.	,		
4.11	The handle must be compatible with all laryngoscope blades conforming to ISO 7376 (green standard).			
4.12	The handle man at the state of			
4.13	The LED light source must be of high quality (LEDHo), providing a maximum brightness at least three times greater than conventional halogen lights and featuring a high colour rendering index.			
5	Accessories, spares and consumables			A A A
5.1	All standard accessories, consumables and parts required to o perate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
6	Operating Environment			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
7	Standards and Safety Requirements			
7.1	Must submit ISO 13485 for Medical Devices			
7.2	Must submit CE (93/42 EEC Directives) or USFDA approved product			
8	User Training			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	Warranty			-
9.1	Comprehensive warranty for 2 years after acceptance.			
10	Maintenance Service During Warranty Period			
10.1	During the warranty period supplier must ensure corrective/breakdown			
	maintenance whenever required.			-
11	Installation and Commissioning			
11.1	Supplier must accomplish proper installation and commissioning of the equipment.			
12	Documentation			
	User (Operating) manual in English			
	Service (Technical / Maintenance) manual in English			



Technical Specifications of High Vacuum Suction apparatus

N. T	echnical Specification F/y-082/83)	Bidder's Offer
N	Manufacturer	
E	Brand	
1	Type / Model	
	Country of Origin	
	Description of Function	
	Suction apparatus are used to extract fluid from the body during	
7 7 1	surgery or emergency treatment.	
	Operational Requirements	
	It Shall operate on mains AC supply.	
CHANCE THE STATE OF	System Configuration	
	High Vacuum Suction apparatus with complete sets of accessories	
4.0	Technical Specification	
4.1	The machine shall be portable on four wheels and with a handle for transportation.	
4.2	The vacuum pump must be oil immersed rotary vane type.	
	Motor shall be of 1/2HP, FHP	
4.4	To facilitate maintenance, the cover of the machine must be easy to open from the top & sides.	
4.5	The suction machine must be capable of producing minimum vacuum of approx. 720 mm Hg and which must be adjustable and monitored by vacuum gauge of suitable range. The suction capacity must be atleast 35 litres per minute and can be regulated.	
4.6	It must have two bottles of 2I. Each made of unbreakable polycarbonate with ABS Lid with float (over flow control device). The jars must be graduated (in cc levels). The suction bottles shall be autoclaveable.	
4.7	It shall be offered with On/Off Switch and power indicator.	
4.8	The bidder shall provide foot switch for easy operation with foot.	
4.9	It shall be equipped with approx. 350 watt,1440 RPM,0.5 HP electric motor.	
4.1	The unit shall be supplied with the bacterial filter fitted on the top.	
5.0		
5.1	Suction tubing set at least 5 metres: 02 nos.	
6.0	Spare fuse: 01 set. Operating Environment	

6.1	The product offered shall be designed to be installed and to operate normally under the conditions of the purchaser's site. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
6.2	It Should be operated by 220V -230V AC,50 with appropriate plug and the wire must be atleast 3m long.	e Complete City
7.0	Certifications And Standards.	
7.1	Must submit ISO13485:2003/AC:2007 or CE for Medical Devices AND	
8.0	User Training	
8.1	The bidder must conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.	
9	Warranty	
9.1	Comprehensive warranty for 2 year after acceptance.	
10.0	Maintenance Service during and After Warranty Period	
10.1	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.	
11.0	Installation and Commissioning	
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
11.2	Must supply preassembled unit, ready to use.	
12.0	Documentation	
12.1	Bidder should provide user (Operating) manual in English	
12.2	Bidder should provide Service (Technical / Maintenance) manual in English	

Technical Specification for ICU Ventilator

S.N.	Hospital's Purpose Specification (f/y-082/83)	Bidd	Bidder's Compliance shee	
	, , , , , , , , , , , , , , , , , , , ,	Yes/No	Page no.	Remarks
	ICU Ventilator			
	Name of Bidder:			
_	Manufacturer:			
_	Brand:			
	Type / Model:			
-	Country of Origin:			
1	Description of Function			
	ICU ventilator provides artificial respiratory support to the			
	critical patients in the intensive care units.			
2	Operational Requirements			
	Microprocessor Controlled ventilator with integrated facility for ventilation monitoring suitable for Pediatric & Adult			
-100	ventilation.			
3	System Configurations			
а	Ventilator main unit			
b	Trolley			
С	All required standard accessories and consumables			
4	Technical Specifications			
а	The ventilator should be turbine-based gas driven.			
С	It should operate from mains supply with central supply oxygen and oxygen cylinder.			
	It should operate with external AC and internal battery backup			
d	for at least 45 minutes and optionally extandable upto at			
10775	aileast 2 hours.			
	The ventilator should have both invasive and non- invasive			
e	ventilation mode.			
-	Should have at least 12" LCD/TFT inbuilt color touch screen			
f	integrated graphics and easy to use rotary knob.			
	Should have external interface with RS232 serial port of VGA			
g	for live LCD projection (shall be used			
ь	for teaching purposes)			
-	Should have automatic compliance & leakage compensation			
h	for circuit and ET tube.			
	Should have the facility of screenshot of waveforms for later			
i	analysis.			
70	Should have the facility of integrated nebulizer in the same			
j	ventilator.			
k	Should have future upgradable provision for			
IV.	mainstream CO2 measurement and Oxygen therapy.			
5	Modes of Ventilation			
	The Bidder should highlight and mention their equivalent			
	mode in the compliance sheet			
а	Non-Invasive Ventilation (NIV)			



1	Pressure-Controlled Modes: PC-AC , PC-BIPAP/PC-SIMV+	
-	o Volume	
	c Volume-Controlled Modes: VC-CMV/VC-AC, VC-SIMV	
-	u Spontaneous Modes: SPN-CPAP	
L	Should have at least the following range of settings	
	a Tidal Volume:approx. 25 - 2000ml	
_	b Respiratory rate:approx. 2-80 bpm	
	c PEEP: approx. 0 to 35 mbar	
	d Pressure Support: approx. 0 to 50 mbar	
	e FiO2 rate: 21-100 %	
	f Flow acceleration: approx. 5-200 mbar/sec	
	Inspiratory time: approx. 0.2s to 10s	
	h Flow tigger: approx. 1- 15 L/min	
	i Inspiratory pressure: approx. 3-60 mbar	
	j I:E ratio:approx. 1:9 to 4:1	
(Monitoring Parameter	
а	 ➤ Ventilation ratio (I:E) ➤ Resistance, Compliance and total respiratory rate ➤ Leakage Minute volume MVleak ➤ Inspiratory O2 concentration ➤ Curve displays: Tidal Volume, Paw, Flow, etc. ➤ Rapid shallow breathing (RSB) Must display at least 4 user selected scalar graphic (flow, pressure and volume over time), should displayed 	
b	simultaneously on the screen with set and delivered parame mentioned. Should display at least 2 loops (user selectable pressure volume, flow volume, pressure flow). Should have facility of superimposing and saving of more than 4 reference loops. Should display all waveforms and loop simultaneously	e l
с	Must provide at least 24 hours trending and browsing of monitored parameters.	
8	Alarms Parameter	
а	All alarms should be self-guiding with possible cause and remedy.	
n	Should have facility to pause audio of alarms for a period of 2 min.	



	/		_	
1	Must have audible alarms of different tones graded for high priority, immediate priority and priority tones with display of the nature of warning being highlighted on the display			
	Must provide for user adjustable alarms and volume for the following with built in default settings Airway pressures: high / low Expiratory minute volume: high / low Tidal volume: high / low Apnea-alarm time: 20 to 60 sec Spontaneous breathing frequency: high Inspiratory O2-concentration: high / low Inspiratory breathing gas temperature: high			
1	Additional Accessories, spares and consumables must provide			
а	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
b	Disposable breathing circuit for adult,pediatric -1 sets each			
c d	Silicone test lung adult, pediatric -1 set each Disposable NIV Mask -1 pc each			
11 a	Operating Environment The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country specific place. The conditions include Power Supply, Climate, Temperature, Humidity, Altitude etc.			
b	Power supply: 220 – 240V AC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meter in length.			
12	Standards and Safety Requirements			
а	Must submit ISO13485:2003/AC:2007 for Medical Devices AND			
b	CE (93/42 EEC Directives) and USFDA approved product certificate.			
13	User Training			
	Must provide user training (including how to use and maintain the equipment)			
14	Warranty			
1	Comprehensive warranty for 2 year after acceptance			
15	Maintenance Service During Warranty Period			
- 1	During the warranty period supplier must ensure preventive			
	maintenance and corrective/breakdown maintenance	- 1		
	whenever required.			
	Ospero)	-		

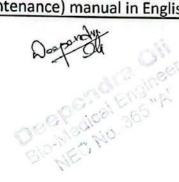
16	Installation and Commissioning	
	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
17	Documentation	
а	The bidder should submit a valid authorization from the manufacturer.	
b	The bidder should submit the original brochure or e-copy	
C	User (Operating)/ Service (Technical / Maintenance) manual in English.	



S.N	Description (F/y-082/83)	Bidder's Offer
	Infusion Pumps - Country of Origin:	
	Company:	
	Model No:	
	Technical Specification of Infusion Pump	
1	Flow rate:	
	a. 0.1 -1200 ml/hr (0.1 ml/hr in steps)	
2	Flow rate range: 0.1 - 1200 mL/h 0.01 ml/hr minimum increments for low infusion volume or for low rates.	
3	Flow rate accuracy - ± 5%	
4	Bolus range should be 1200 mL/h, adjustable from 50 mL/h to 1200 mL/h by 50 mL/h increments.	
5	Compatible with (Microinfusion set, Blood transfusion set,	
ر	Adult high-pressure intravenous set)	
	a. Adult high pressure I/V sets- 15 drops/ml	
	b. Transfusion sets-30 drops/ml	i i i i i i i i i i i i i i i i i i i
	c. Microinfusion set-60 drops/ml	
6	Setting modes should be	
1	a. g/h,ng/kg/min, ng/kg/h, microg/ min, microg/h, microg/kg/min, microg/kg/h, mg/min, mg/h, mg/24h, mg/kg/min, mg/kg/h, mg/kg/24h, mgm²/h, mg/m²/24h, g/h, g/kg/min, g, kg/h, g/kg/24h, mmol/h, mmol/kg/h, mmol/kg/24h, mU/min, m/u/kg/min,mU/kg/h,U/min, J/h, U/kg/min, U/kg/h, kcal/h, kcal/h, kcal/24h, kcal/kg/h, mEq/min, mEq/h, mEq/kg/min, mEq/kg/min, mEq/kg/h.	
	functions: Able to work with or without drip sensor.	
	pecial Functions:	
а	. Keep vein open (KVO) at the rate of 1-3 ml/hr; adjustable	
b	. Volume memory function.	
	. Volume to be infused (VTBI) mode should be present.	
P	ressure limit should be: Variable or 3 pre set levels - Range from 50 to 750 mm HG. (25	
'n	nmHg increment from 50 to 250 mmHg/50 mmHg increment fro 250 to 750 mmHG).	
n lo	perating Condition: 10-40 degree Centigradetemperature and 0-85% relative humidity.	
	orage : - degree to 45 degree centrigrade. Relative humidity 10-95%	
2 P	ower Supply:	
a.	AC 100-240 Volt.	
3 In	ternal battery should be able to work ≥ 6 hours at flow rate of 25 ml/hour.	
Sc	reen - LCD Display.	
	eight: Less than 2.5 kg	
	arm Functions:	
a.	Start Reminder	
_	Occlusion / High pressure	
	Clamp closure alarm	
d.	Bubble detection alarm	

_	T. u	
-	e. Near Completion or completion alarm	
	f. Empty alarm	
	g. AC/DC power disconnection alarm	
17	i. Door alarm	
17		
18		
19	Dynamic pressure system (DPS) should be there to neutralize pressure variations in line,.	
20	State	
21	Should be able to change rate of delivery without interruption.	
22	The device should contain at least 19 drugs profiles each software configurable	
23	The device should have the possibility of editing Drug library for setting normal infusion rate, bolus and loading dose parameters, default infusion mode, soft and hard limits for infusion rates with use of external software.	
24	Should provide pole holding system by clamp and should be able to rotate by 90 degree to keep in vertical pole as well as horizontal pole (patient bed side railing).	
25	Displays minimum 1500 last dated events in real time	
26	The pump must have same physical attributes (same key functions) like same company's syringe pump for user friendliness.	
27	The pump should run in either dedicated or in available IV sets. At least 5 units of IV sets should be supplied along with each pump. IV set price should be fixed for at least 2 years.	
28	Should provide pole holding system by clamp and should be able to rotate by 90 degree to keep in vertical pole as well as horizontal pole (patient bed side railing).	
29	Modes of operations: mL/h modes: Volume + Flow rate, Volume + Time, Flow rate + Time, Volume + Time + Rate, Ramp-up / Ramp down, Sequential / Intermittent, Secondary / Piggyback, Drop/min, Dose mode	
-	Conditions:	
1	Standards and Safety Requirements	
	Must submit valid ISO 13485, European CE (93/42 EEC Directives) approved product certificate and/or US-FDA (501K) approved product certificate must be valid.	
	Must meet IEC-60601-1-2:2001 General Requirements of Safety for Electromagnetic Compatibility.	
_		
2	User Training Must provide user training (including how to use and maintain the equipment)	
-	Warranty of 2 year	
(Comprehensive warranty of 2 year Ouring warranty period supplier must ensure preventive maintenance &	
	During warranty period supplier must ensure provinced	
c	orrective/breakdown maintenance whenever required	
1	nstallation and Comissioning	

	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
5	Documentation Documentation	
	User (Operating) manual in English	
	Service (Maintenance) manual in English	

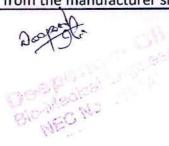


	Technical Specification of Intravenous Anaesthesia Tiva Syrin	Bidder's			
S.N	Purchaser's Specification	Comp	liance	Sheet	
	Syringe pump (Intravenous Anaesthesia, TIVA)	YES/N O	Page NO	Rem:	
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
	Description of Function				
1.	A Intravenous Anaesthesia (TIVA) syringe pump is used to administer total intravenous anaesthesia. It is used when the inhalation anaesthesia is not				
	suitable.				
	Technical Specification				
1.	The machine should be high intelligent microprocessor controlled, accurate				
	for fluid transfusion with continuous operating mode.		-	-	
	Flow rate range: 0.1-1200 ml/ hour or better.				
3.	Infusion Progress should be indicated by light with color coding.			1000	
4 1	Purge rate/ Bolus mode: Should be from 0.1 to 1200 ml / hr in increments of				
_	0.1ml/ hr or better.				
$\overline{}$	Syringe compatible with major syringe brands available in market. Alarms:				
	Alarms should be deonted by sound, words and lights				
	2 Occlusion				
	High pressure				
). I	Low Battery				
	Near Empty				
[Infusion Completion				
[?	Cable disconnection(Ac/DC)				
[2	Syringe disengaged alarams				
	VTBI near end and infusion completion				
	hould have battery backup for 6 hours or more				
_	hould be waterproof standard .	1			
. S	hould have facility to change flow rate without interruption				
	he device should have graphic LCD display for Rate, Drug name, battery ratus, occlusion level, syringe size, syringe brand etc. display at a glance				
	ne device should have various modes of infusion (Rate Mode, Volume arget Mode, Volume Time Mode, Dose rate, TCI Mode)				



1		
1	Dose rate modes should have: ng/h, ng/kg/min, ng/kg/h, μg/min, μg/h, μg/kg/min, μg/kg/h, mg/min, mg/h, mg/24h, mg/kg/min,mg/kg/h,mg/kg/24h,mg/m²/h, mg/m²/24h, g/h, g/kg/min, g/kg/h, g/kg/24h, mmol/h, mmol/kg/h, mmol/kg/24h, mU/min, mU/kg/min, mU/kg/h, U/min, U/h,U/kg/mi n,U/kg/h,kcal/h,kcal/24h ,kcal/kg/h,mEq/min,mEq/h, mEq/kg/min, mEq/kg/h options to operate.	
1	Should have "Volume to be infused (VTBI)" function, range 0.1 to 999.9 ml or better.	
14	Should provide pole holding system by clamp and should be able to rotate by 90 degree to keep in vertical pole as well as horizontal pole (patient bed side railing).	
15	Should have facility of stacking in one above the other with locking system	
16	Should be able to change the infusion rate without interruption of delivery.	
17	Delivery should be continued with previous setting once restarted.	
18	Dynamic pressure system (DPS) with upper and lower limit to demonstrate	
19	. Selectable occlusion pressure trigger level from approx.50 to 900mm of Hg.	
20.	Should have Anti bolus system ie should prevent sudden release of drugs in the aached tubing once the occlusion is released distal to the syringe.	
	Nightmode with reduced brightness of display, manual adjustment.	
22.	Delivery accuracy should be± 2% in syringe.	
23.	The device should contain at least 19 drugs profiles each software configurable	
24.	The device should have the possibility of editing Drug library for setting normal infusion rate, bolus and loading dose parameters, default infusion mode, soft and hard limits for infusion rates with use of external software.	
	Standard and Accessories	
1.	All standard Maintenance tools and cleaning /lubrication materials where applicable shall be included.	
	Operating Environment	
	The system offered shall be designed to be stored and to operate normally	
	under the conditions of the purchaser's country. The conditions include	
	Power Supply, Climate, Temperature, Humidity, etc.	2. 1 m
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
	Standards and Safety Requirements	
_	Must submit ISO13485 for Medical Devices AND	
_	European CE or USFDA approved product certificate	
	Jser Training	
	Doubled 365 V	

1.	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.		
	Warranty		
1.	Comprehensive warranty for 2 year after installation.		
	Maintenance Service during Warranty Period	17/11	
1.	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.		
	Installation and Commissioning		
1.	Supplier must accomplish proper installation & commissioning of equipment onsite.		
	Documentation		
1.	User (Operating) manual in English		
2.	Service (Technical / Maintenance) manual in English		
4.	Authorization letter from the manufacturer should be provided.		



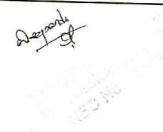
Technical Specification of Light, Operation Theatre, Ceiling (2 Dome, LED)

Light, Operation Theatre, Ceiling (2 Do LED) Manufacturer Brand Type / Model Country of Origin Description of Function Surgical lights illuminate the surgical of for optimal visualization of small, local contrast objects at varying depths in incident and body cavities. Operational Requirements A major operating light, ceiling type with main & one satellite light units. System Configuration Operating light ceiling type having dual with all standard accessories. Technical Specifications	site ow-cisions h one	res/No)	der Complian Deviation (if any)	Page no in catalogue
LED) Manufacturer Brand Type / Model Country of Origin Description of Function Surgical lights illuminate the surgical for optimal visualization of small, locontrast objects at varying depths in incident and body cavities. Description of Function surgical lights illuminate the surgical for optimal visualization of small, locontrast objects at varying depths in incident and body cavities. Description of Function a	site ow- cisions h one	res/No)		catalogue
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and body cavities. 2 Operational Requirements 2.1 A major operating light, ceiling type with main & one satellite light units. 3 System Configuration 3.1 Operating light ceiling type having dual with all standard accessories. 4 Technical Specifications	h one dome			
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main & one satellite light units. System Configuration Operating light ceiling type having dual with all standard accessories. Technical Specifications	dome			
3 System Configuration 3.1 Operating light ceiling type having dual with all standard accessories. 4 Technical Specifications				
3.1 Operating light ceiling type having dual with all standard accessories. 4 Technical Specifications				
with all standard accessories. 4 Technical Specifications				
4 Technical Specifications				
				2.000
4.1 Shall be a ceiling mounted light with				
flexible arm.	hazad -			
4.2 Shall be LED with microprocessor I	based			
technology.				
Shall have single colour high				
4.3 performance LEDs with life time more th	nan			
45,000 hours of operation.	1.			
4.4 It shall have dual dome with main lig	gnt		1	
and satellite light.				
4.5 Number of LEDs: Not less than 60 +	40			
for main light and satellite light respective	ively			
Lux intensity 150,000 Lux ex above for a				
4.6 Lux intensity: 150,000 Lux or above for n	57.57C59.7C3#Q+C-0.C5134.			
dome and 140000 Lux for satellite dome	е.			
4.7 Light field diameter shall be above 19	.5 cm			
or better				
4.8 Colour temperature shall be approx. 3	3800-			
5000 K or better.			1	
4.9 Colour rendering index shall not be le	ess			
than 90.				
Depth of illumination shall not be been	nan			
1.10 beptir of mariniation shall not be less th			1	
4.11 Illumination adjustment 30% to 100%.				
1.12 Height adjustment more than 1 metre.	- 1			
Dorbert	3 1			



4.13	Light field adjustment by autoclaveable handle.		
4.14	The light days at 111		-
4.15	Chall be to the		
4.16	The LED's must be of a dual colour suitable for long term maintenance and ease of replacement.		
4.17	Chall by the t		
4.18	The late is 6 to 1		
4.19	Installation Kit		
	The followings items shall also be included:		
a	Ceiling mounting plate/ bracket or equivalent		
b	Wires, conduits and other accessories for connecting the wall control box, the light and others.		
5	Accessories, spares and consumables		
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).		
6	Operating Environment		
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.		
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable		
7	must be at least 3 metre in length. Standards and Safety Requirements		
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND		
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.	l.	
	igh.		

20/20/20				
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.			
8.	User and Technical Training			
8.1.	Must provide user training (including how to use and safe handling, keep hygiene the equipment).			
9.	Warranty			
9.1	Comprehensive warranty for 2 year after acceptance.			
9.2	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.			
10.	Installation and commissioning			
10.1	The bidder must arrange for the quoted equipment with all the listed accessories and consumables to be installed on site and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
11.	Documentation on site			
11.1	User (Operating) manual in English			\perp
11.2	Service (Technical/ Maintenance) manual in English			_
44 0	Manufacturer authorization letter.	500 41		1



SN	Purchaser's Specifications	Bidders	Complian	ce Sheet
	MOBILE Xray MACHINE (f/y-082/83)	Yes/No	Page No in Catalogu e	Remarks
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
	Microprocessor controlled 3.5 KW High Frequency Mobile x ray machine using cutting-edge technology to optimize patient dose emission with less exposure time and reduced motion artifacts while providing excellent reproducibility and superior contrast.			
2.	TECHNOLOGY & FEATURES			
2.1	Should have Micro Controller based feather touch control Panel with LCD display, spill proof design.			
2.2	Should have SBM design-Spring balanced mobile stand system			
2.3	Should have Large Digital LCD display: KV, mAs, APR Program, error display			
2.4	Should have 2Point Technique (KV & mAs selection) for exposure			
2.5	Should have Technique selector switch for Table Radiography and Bucky, Machine ON/OFF switch, KV and mAs increase/decrease switches, stand-by & exposure switch, Collimator Lamp 'ON' switch, Ready (Stand by) and X-Ray ON indicators, Inbuilt Automatic Voltage Compensator with indicator to prevent Voltage variation & filter (e.g. Spike protection) to keep instruments and tube safe.			
2.6	Status and error display, Self-diagnostic program with LCD display of earth fault error, KV error, filament error and tube head thermal overload.			
2.7	Should have Anatomical Preprogrammed (at least 128 pre-set programs with A.P.R. utility) parameters of human Anatomy, which helps the user to select exposure parameters based on body part, examination view and size of the patient.			



2.8	Should have Dual action hand switch with retractable cord.		
2.9	Should have Complete shielded wiring and EMI Protection for noise free use.		
2.10	Should have Built in circuit breaker, automatic voltage stabilization and leak & spark proof heavy duty connectors		
3.	X-RAY GENERATOR		-
3.1	Type : Microprocessor controlled High Frequency X-Ray Generator		
3.2	Output power : 3.5 KW or more		
3.3	Frequency : 40 KHz or more		
3.4	KV Range : 40 to 110 KVp or more		
3.5	Radiographic Ma : up to 100mA		
3.6	mAs range Timer : 1 mAS – 200mAs or more		
3.7	Exposure Timer : 1ms to 4 sec or better		
4	X-RAY TUBE		
4.1	Tube Type : Stationary Anode X-Ray Tube, Thermally protected		
4.2	Focal spots (approx) : 1.5 mm x 1.5 mm or Better		
4.3	Anode Heat Storage Capacity: 42KHU or more		
5.	Collimator:		
5.1	One No. manual collimator (LBD) with +90deg rotation for adjustment of exposure area with		
6	Auto cut-off provision.	-	
6.	Spring Balanced Mobile Stand: Spring Balanced Mobile (SBM) stand with 3 or		
	more wheel design ensures easy mobility & efficient foot brake. Light weight with tube arm,		
6.1	easy to maneuver, smooth movement of tube head, integrated cassette storage box, Light vehicle wheels for easy mobility. Orbital		
	Rotation lock, Angular Rotation lock & Parking		
7	ELECTRICAL CHARACTERISTICS		
7.1	Mains Power Supply: Single phase 220 VAC, ± 10%, Frequency 50 Hz		

8.	Important Conditions	-	
8.1	a. Must have valid AERB type approval certificate and BIS certificate.		
8.2	b. Must be CE Certified or USFDA approved.		
8.3	c. Should be ISO 13485:2016, ICMED 13485 & IEC(electric safety) certified.		
8.4	d. Should be operable on 220-240VAC, 50Hz		
8.5	e. Operational Training must be provided to the staff at the time of installation.		
8.6	f. Two year of standard warranty.		
9	Installation and Commissioning		
9.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.		
10	Documentation		
10.1	User (Operating) manual in English		
10.2	Service (Technical / Maintenance) manual in English		
10.3	Manufacturer authorization letter	3%-27	



Technical Specification of Neuro Drill Set

S.N.	Purchaser's Technical Specifications (f/y-082/83)	Bidder's	's Compliance Sheet			
	Neuro Drill Set	Yes/ No	Page No. in Catalog ue	Remarks		
	Manufacturer			-		
	Brand					
	Type / Model					
1.	Country of Origin					
1.	Description of Function	-				
1.1	High-speed electric neuro drill designed for precise neurosurgical and spinal procedures requiring controlled micro-speed operation.					
2.	Operational Requirements					
2.1	Must provide precise speed control, safety, reliability, and suitability for neurosurgical and spine surgical procedures.					
3.	System Configuration					
3.9.	Includes micro-speed control unit, drill handpiece, sterilizable accessories, foot pedal control, and required operational attachments.					
4	Technical Specifications					
4.289.	Micro speed Control Unit					
4.290.	It should have liquid crystal display touch screen minimum 6", self- explanation symbols and intuitive user dialog for easy operation.					
4.291.	It should have two motor connection sockets for effortless switching between motors.					
4.292.	It should have integrated irrigation pump that allows precise adjustments of the flow between 0-75ml/min with 10% interval					
4.293.	It should be capable of recognizing automatically the motor type connected and adjust the settings respectively.					
4.294.	It should have customizable settings: Acceleration and stopping characteristics for individual motors, oscillation angle and much more.					
4.295	It should save the last configurations					
4.296	There should be separate motor control field and a pump control field in the screen display.					
	The control unit should saves the last configurations, allowing the operator to proceed right away.					
4.298	The control should be capable of controlling Speed, Irrigation, Reverse rotation and Priming on the screen					
	Deck Lynn College					



4.299	The control unit should be able to make Accelerator adjustment (min. 10% - max. 100%), Brake adjustment (min. 10% - max. 100%), Torque adjustment (min. 30%- 100%) and Oscillation adjustment.		
13	The system should have excellent cutting, and weight balance during drilling		
	Handpieces and attachments are thermo disinfector compatible		
1.302	Foot Control		
1.303	It should have foot control ON/OFF switch and irrigation ON/OFF		
1 304	It should be able to switch between the two motors	-	
4.305	Foot control must be multifunctional programmable type. Assignment to function of the button should not be fixed		
1 206	The feetswitch should be variable speed control		
4.306	It should have high quality finish and resistance against fluids that ensure a long lifetime for the foot control switches.		
4 200	High Speed Motor-1pcs		
4,308	It should be slim design, compact and light		
4.303	It should be High speed rotation of maximum 80,000/min		
4.311	It should be made of high-quality materials with titanium coatings which is long-lasting and scratch-free		
4.040	The cable should be min 3 meters		
4.312	It should be high speed motor with torque of more than 4.5Ncm or		
4.313	better		
4 314	There should be no rotating outer parts in the motor.		
4 315	The minimum motor power should be 200w		
4 316	Perforator Hand piece-1pcs		
4.317	It should deliver stable torque and achieve smooth and powerful		
4.318	Maximum Speed 1250/min		
4.319	Disposable perforator (14mm) chuck with crammed-lug release		
4.32	Craniotome Hand piece-1pcs		
10/200	Maximum Speed 80000/min		
4.322	Craniotome hand piece with two sizes adult and pediatric of duraguards should be available for variable cranial bone thickness		
4.323	The smooth and powerful cutting avoiding additional stress to the		
4.324	Must supply saw for both adult and pediatric -2pc each		
4.325	Angled and Straight Hand piece		
	It should have maximum Speed 80000/min		
4.327	It should have non slip surface		
4.328	and diameter of 5.5mm-1pc		
4.32	It should have slim design angled with working length of 35-40 mm and		
4.33	It should have slim design angled with working length of 55-60 mm and		

1	It should have facility of adjusting bur exposure into 6 steps from	T	1	_
4.331	13mm to 25mm			
4.332	All standard attachment should accommodate universal bur. The one bur should fit in all length attachment			
4.333	It should have tapered tip to ensure better visibility and access to surgical anatomy			
4.334	It should have irrigation nozzle			
	Drill Hand piece-1pcs			
4.336	Maximum Speed 80000/min			
4.337	Should accommodate twist drill 1.5mm			
4.338	Tubing Set (10 pcs)			
4.339	Should be disposable type.			
4.34	Spray Adaptor			
4.341	Lubrication and cleaning Oil Spray alcohol based (6 pcs)			
4.342	Oil spray should have alcohol for cleaning the handpieces along with lubrication.			
4.343	Should supply sterilization box with silicon mat and trolley		_	-
4.344	All motors and hand piece should be articulable			-
4.345	Burs	-		-
	Craniotome Burs long, medium and pediatric -2pcs each	N - 1/	-	
4.347	Acon bur of 7.5 mm diameter -2pcs		-	
4.348	Round Fluted bur 4mm diameter -2pcs each		+	+
	Diamond bur 2mm diameter -2pcs each			-
4.350.	Match stick bur 1.8mm diameter 2pcs	_	+	
5	Operating Environment		+	-
5.1	The equipment offered shall be designed to be stored and to operate normally under the conditions of the Nepal's climate. The conditions include power supply, climate, temperature, humidity, etc.			
5.2	Power Supply: 220V±10% AC, 50/60 Hz with appropriate power cable and plug.			
6	Standards, Medical Device Regulation and Safety Requirements		_	
6.1	Bidders must submit a valid ISO 13485:2016.		_	
6.2	Bidders must submit a valid automatically renewable European CE-marked certificate in compliance with Directive 93/42/EEC on Medical Devices, issued by a Notified Body, if the existing CE certificate has expired and US-FDA approved (510K statement). Failure to submit will result in bid rejection.			
6.3	Must submit the IEC 60601-1 test report.			
7	User and Technical Training			
7.1	Must provide user training (including how to use and safe handling, keep hygiene the equipment).			
8	Up time Service Backup, Warranty/Guarantee			
8.1	Bidders must provide a comprehensive warranty for 2 year after			
No.	acceptance.			

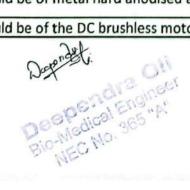


8.2	During the warranty period supplier must ensure preventive maintenance and corrective/ breakdown maintenance whenever required.	
9	Installation & Commissioning	
9.1	The bidder must arrange for the quoted equipment with all the listed accessories and consumables to be installed on site and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
10	Documentation	
10.1	User (Operating) manual in English.	
10.2	Service (Technical / Maintenance) manual in English.	
10.3	The letter of authorization for particular this tender from manufacturer or sub-distributor authorization linking to the manufacturer for particular bid must be submitted. Non submission leads to reject the bid.	
10.4	List of important spare parts and accessories with their part numbers and costing must be submitted. Non submission leads to reject the bid.	

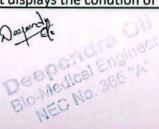


Technical Specification of Ortho with Saw & Instruments

	Purchase's Specifications	Bidder 's offer				
S.N.		Yes/N o	Page No in Catalogue	Rema rks		
	Ortho with saw, instruments and accessories					
	Manufacturer					
	Brand					
	Type / Model					
	Country of Origin					
1.	Description of Function					
1.1	Drilling machines are used in a number of orthopedics surgical procedures, for example, in making holes in bones for bone screws and in drilling out the medulla or marrow areas of bones.					
2.	Operational Requirements					
2.1	Autoclavable Battery operated drill machine with single hand piece that can be operated by attaching multiple attachments and Electrical spinal drill set with all the attachments and instruments.					
3.	System Configuration					
3. 1	Drill machine should be battery operated, autoclavable with single hand piece that can be operated by attaching multiple attachments					
4.	Technical Specifications for Ortho Drill					
4.1	Drill machine should be battery operated, autoclavable with single hand piece that can be operated by attaching multiple attachments.					
4.2	Shall be supplied with battery charger LCD Touch screen display in the 4 bay charger.					
4.3	Should be Ergonomic, quiet and light weight handpiece with less vibration.					
441	Single handed two trigger options for instant forward, reverse and safe mode operation should be available					
471	Two trigger option should allow low speed screwing, tapping & oscillating drill functions.					
4 h I	Sculptured handpiece should provide for optimum comfort and intuitive functionality.					
4/1	Device temperature and current draw should be monitored to prevent excess heat generation					
4.8	Handpiece should be of metal hard anodised aluminium construction					
4.9	Handpiece should be of the DC brushless motor type					

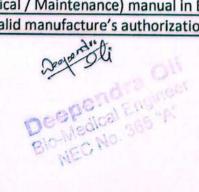


4.10	Handpiece should be of the high performance, hermetically sealed hybrid motor controller type		
4.11	Handpiece cannulation - approx. 4.4 mm diameter.		
4.12	Handsissa 9 adaptar/attaches ant suctain should be full and		
4.13	Modular hand piece with minimum 17 dedicated attachments and 13 final drive adaptors giving the facility of drilling, wire & pin driving, reaming, reciprocating and sagittal sawing in one handpiece		
4.14	Simple blade mounting mechanism to eliminate unwanted vibration and noise		
4.15	Dual trigger hand piece with drilling speed of approx. 0-1350 rpm or more.		
4.16	Hand piece should have maximum reaming torque of approx. 16Nm.		
4.17	Hand piece should have cannulation of approx. 4.4mm diameter		
4.18	Hand piece should be pulse lavage compatable.		
4.19	Electrical protection - Type BF		
4.20	Atleast Seven power source options should be available		
4.21	Should have Drilling attachment of speed approx. 0-1350 rpm with cannulation of 4.4 mm diameter.		
4.22	Should have quick release drilling and reaming attachment for Hudson/Zimmer combition with the speed of 0-330 RPM and cannulation of 4.4mm diameter		
4.23	Should have Sawing attachment for large sagittal saw with the speed of approx. 0-13500 cpm.		
4.24	Should have wire and pin driver attachment of 0.7 to 4.0mm wire capacity and speed of approx. 0-1350 RPM with 4 mm cannulation		
4.25	Should have radiolucent attachment with the speed of approx. 0- 1350 rpm		
4.26	Low noise level at 84 dB		
4.27	Handpiece weight approx – 780 grams		
	Output power – 150 watts - 240 watts		
4.29	Battery charger should have battery health check facility stating the condtion of batteries.		
4.30	The Batteries should not have any memory effect.		
	the batteries shoud have battey level indicators by led light for the instant assess of battery capcity during use and before use.		
43/1	Should have the facility of attaching the pulse lavage jet in the drill hand piece.		
4 331	Battery charger should allow 4 batteries charging bay with touch screen display that displays the condtion of each battery.		



	The drill machine should be supplied with following configuration:			
	1. Dual trigger hand piece: 1 unit			
	2. Drilling attachment: 1 unit			
	3. Drilling and reaming attachment: 1 unit			
	4. Sagittal Sawing attachment : 1 unit			
.34	5. Wire and pin Driver attachment: 1 unit			
	6. 4 bay charger with touch screen: 1 unit			
	7. Battery with 2200 mAh or more capacity : 2 unit			
	8. Aseptic Housing for the battery: 1 unit			
	9. Aseptic Shield: 1 unit			
-	10. Chuck Key: 1 unit HAND HELD Pediatric CAST CUTTER (FROM THE SAME			
.00				
	MANUFACTURER) System Saw must be light weight not weighing more than 0.35-0.4KG			
				-
	system must be battery powered		-	-
	battery capacity must be 30wH atleast			
	Battery must be lightweight and should not weigh more than			
	450gms			
	Charging time should not be more than 3hours			
	Saw must be able to work for 2hrs atleast continuously			
	System must have display to change cutting speed			
	Must have battery indicator on the display			
e	It must be micro processor controlled for better cutting performance			
Ī	System must be possible to work with both battery pack and mains			
	Speed of the saw must be approx. 14500-17500 cpm			
	II. Blades			
	3 blade designs-Approx. 64mm diameter fully round, Approx. 32mm			
	radius segmented and Approx. 40mm radius segmented			
	4 blade coatings-lon Nitride, Zirconium Nitride (ZrN), Titanium			
	Nitride (TIN) and PTFE.			
	2 blades supplied as standard, Approx. 64mm dia			_
	PTFE blade and Approx 32mm radius segmented lon Nitride blade			
	Blades compatible with POP, polyester and fibreglass		-	
	materials must be available	-	1	
	Power: Adjustable from 800watt minimum &		1	
	240volt, frequency 50/60hz			
	Noise Level not more than 75-78dBA			
	Suction: <1900 mm water Column			
	Capacity of compartment: approx. 10-12litres			
-	Filtration Hepa >0.3 micron or less			
	\.\.			

	Weight:<15-18 kg		1	
_	Speed of motor rotation: Approx. 16000 rpm high speed & low speed	7		
	cpm Approx. 12000		1 1 1	
	Air flow rate of extractor must be 30ltrs/s or more	3		
	Handpice weight must be less than 800gms.			
	Power cord length 3-5m			
	Hose length must be 2-4m			
7	Accessories, spares and consumables			
	All standard accessories, consumables and parts required to operate			
	the equipment, including all standard tools and cleaning and		1	
7.1	lubrication materials, to be included in the offer. Bidders must			- 1
	specify the quantity of every item included in their offer (including			
	items not specified above).		100	
8	Operating Environment			
1	The product offered shall be designed to be stored and to operate			
	normally under the conditions of the purchaser's country. The		la la como	- 4
8.1	conditions include Power Supply, Climate, Temperature, Humidity,			
	etc.			
9	Standards and Safety Requirements			
9.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND			
0.7	CE (93/42 EEC Directives) and USFDA certificate for drill systems and			
9.2	attachment.			
9.3	Shall meet IEC 60601-1-2:2001 General requirements of safety for			
9.3	electromagnetic compatibility			
10	User Training			
10.1	Must provide user training (including how to use and maintain the			
10.1	equipment).			
11	Warranty			
11.1	Comprehensive warranty for 2 year after acceptance.			
12	Maintenance Service During Warranty Period			
12.1	During warranty period supplier must ensure corrective/breakdown			
12.1	maintenance whenever required.			
13	Installation and Commissioning			
	The bidder must arrange for the equipment to be installed and			
12.1	commissioned by certified or qualified personnel; any prerequisites			
13.1	for installation to be communicated to the purchaser in advance, in			
	detail.			
14	Documentation			
	User (Operating) manual in English.			
	Service (Technical / Maintenance) manual in English.			
	Must submit valid manufacture's authorization letter.			
	71. 4			



S.N.	Purchaser's Specification of Patient Monitor 7 parame	ter		
	Purchaser's Specifications (f/y-082/83)		's Com	pliance
	Patient Monitor 7 parameter	Yes /No	Ref Dos Page No.	Remarks
-	Manufacturer		140.	
	Brand			
	Type / Model			
_	Country of Origin			
1	Description of Function			
1.1	It should be suitable for usage in Emergency, operation room and ICU capable of monitoring ECG, SPO2, Non invasive Blood Pressure(NIBP), Respiratory Rate, Temperature, Etco2, IBP.			
2	Operational Requirements			
2.1	The patient monitor must be user friendly, safe to use and must have battery backup and comprehensive alarm system.			
3	System Configuration			
3.1	The monitor should be at least of 7 parameter, Portable with complete accessories to operate fully.			
4	Technical Specifications			
	Monitor must be able to monitor ECG, Respiration, Spo2, NIBP, dual			-
4.1	temperature, mainstream or sidestream Etco2, two IBP and be able to		- 1	
	show upto 11 waveforms.			
4.2	At least 15" high resolution touch Screen with rotary Knob.			
4.3	Monitor must have lithium ion battery, run time more than 2 hour battery backup.			
4.4	Adult, paediatric and neonatal measurement mode.			
	It must have pace detection, defibrillator protection and should have IPX1 liquid ingress protection or better.			
	The monitor should be able to configure automatically for new parameters as they are connected.			
	Should have alarm indicators with different alarm tones and visible alarm ights indicators on top for different issues.			
- (The alarm volume and beat volume should be adjustable according to clinical practices and/or preferences.			
1.9 a	should be able to enter the patient details along with the user required		1	
a	arrhythmia analysis must be capable to monitor and analyse both paced nd non-paced patients.		+	
.0 N	IIBP			
.1 T	echnique: Oscillometric Measurement Mode: Manual, automatic,		-	
C	ontinuous and sequence.			
N	Measuring range: Systolic pressure: approx. 40mmHg-270mmHg, Diastolic		_	
.5 Pi	essure: approx. 10mmHg- 215mmHg, Mean arterial pressure: approx			
120	Juliturg- 235mmHg			
0 51	02		_	



4				4
6.1	In neonatal, paediatric and adult application, should have feature to			
0.1	ensures accuracy in low saturation and low perfusion conditions		-	
	Transducer: Dual-wave length LED SPO2 measuring range: 0%-100%			
6.2	SPO2 measuring accuracy: ±2% for range from 70% to 100%(adult)		100	
	±3% for range from 70% to 100% (Neo)		-	
6.3	Should supply (Nellcor or Masimo) Module and probe or similar types.			
7.0	ECG			
	3 and 5 lead ECG			
7.1	HR measuring range: 20bpm – 300 bpm HR measuring accuracy: ± 2 bpm	1		
	HR measuring range: 2000m – 300 dpm HR measuring accuracy. 12 dpm			
7.2	ECG Sweep should be 12.5, 25, 50 mm/s.			
8.0	TEMP			
8.1	Dual temperature with measuring range: 0-50 degree centigrade.			
0.1	Measuring accuracy: ± 0.1 degree centigrade.			
9.0	RESP		-	
9.1	RR measuring range: 0rpm – 150 rpm			
	RR measuring resolution: 1rpm		-	
10.	Etco2		-	-
10.3	Mainstream or sidestream with accessories for Adult/paediatric/Neonatal			
10.2	Measurement range from 0-150 mmHg and a resolution of 1 mmHg.			
11.0	IBP for 7 parameter system.			
11.1	2 channel IBP with accuracy of ±2% and a resolution of 1 mmHg or Better			
13	Accessories, spares and consumables			
	All standard accessories, consumables and parts required to operate the			
12 1	equipment, to be included in the offer. Bidders must specify the quantity		1	
13.1	of every item included in their offer (including items not specified above).			
	. NIBP hose (1pcs) with reusable cuff of 3 various sizes(neonate, children			
	and adult) – 1 no. each equipment		1	
	- SPO2 probe of 3 various size(neonates, children and adult)- (SPO2 probe		l	
	each set should come from patient monitor pin to hand of the patient)(i.e		1	
13.2	Extension + Spo2, For one Monitor Extension 2 Pcs + Different size of Spo2		1	
	Probe 2Pcs each)			
	- ECG Cable 5 Lead -2 set each			
	- 2 complete set of IBP (1 set cables with 2 disposable kits)			
	- Complete set of Etco2. 1 set and accessories for invasive and non-		1	1
4.0	Operating Environment			
\neg				
.	The system offered shall be designed to be stored and to operate			
4.1	normally under the conditions of the purchaser's country. The conditions			
l	nclude Power Supply, Climate, Temperature, Humidity, etc.			
_	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The			
4.2	power cable must be at least 3 metre in length.			
	and the state of the safe of metre in length.			



5.0	Standards and Safety Requirements			
5.1	Must submit ISO13485:20023 or better for Medical Devices			
15 /1	CE (93/42 EEC Directives) or USFDA approved product certificate for			
	patient monitor.			-
16.0	User Training			-
16.1	Must provide user training (including how to use and maintain the			_
16.2	Must provide Maintenance training to Biomedical staff.			-
17	Warranty			
17.1	Comprehensive warranty for 2 year after date of installation.			\dashv
18	Maintenance Service During Warranty Period			
	During the warranty period supplier must ensure corrective/breakdown			
18.	maintenance whenever required.			-
19	Installation and Commissioning			-
	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel .Any pre-requisites for installation to be communicated to the purchaser in advance in detail.			
19	.2 The Delivered Equipment manufacturing date should not be older than 2025.			
2		-		
20	.1 User (Operating) manual in English.			
20	2 Service (Technical / Maintenance) manual in English	-		
20	0.4 Valid authorization document should be provided.	7	-	-
	Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical			



	Technical Specification on Syringe Pump		Page No.	
	Syringe Pump(f/y-082/83)	YES/NO	in Catalogue	Remarks
	Manufacturer:			
	Country of Origin:			
	Brand Type:			
	Model No.:			
1	Description			
1	Flow rate range should be 0.1 ml/hr to 1200 ml/h with accuracy of $\pm 1\%$ on mechanism.			
2	Should work on the following syringe capacities 5, 10, 20, 30/35, 50/60 CC and should be compatible with min 100types of syringe			
3	Should have drug library of minimum 3800 drugs categorized in user defined 19 categories with facility to set all infusion parameters like soft limit, hard limit, bolus dose etc.			
4	The night mode programmed manually or automatically in a variable time range is must to decrease the brightness of the screen.			
5	Fast start option is mandatory with pause option programmable from 1min to 24hrs			
6	Should have direct bolus option with flow rate 50ml/hr to 1200ml/hr with increment of 50ml/hr along with programable bolus with settable dose or volume/time			
7	Variable and 3 pre-set levels pressure mode is must. Range from 50 to 900 mmHg. (25 mmHg increment from 50 to 250 mmHg / 50 mmHg increment from 250 to 900 mmHg). Can be enables / disabled and adjusted with facility to display realtime inline pressure in both digital and analog form.			
8	The Dynamic Pressure System with maximum and minumum threshold setting is mandatory.			
9	Graphical display of the following history "Volume / dose infused, pressure, flow rate" must be present.			
10	The device should have push guard for syringe protection.			
11	Should have Swinglock clamp for versatile clamp and horizontal clamp that allows the fixation on a rail or on a pole			
12	Should have Li-ion Smart battery, remaining battery life and battery charge level available on the display. Battery Life (when fully charged): > 10 h at 5 mL/h			
13	Standards and Safety Requirements			
	Must submit valid ISO 13485, European CE (93/42 EEC		132100	
	Directives) approved product certificate and/or US-FDA (501K)		A MERA	
	approved product certificate must be valid.			
	Must meet IEC-60601-1-2:2001 General Requirements of Safety			
	for Electromagnetic Compatibility.			
14	User Training			

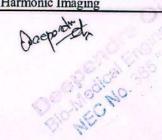
	Must provide user training (including how to use and maintain the equipment)	
15	Warranty	
	Comprehensive warranty of 2 years	
	During warranty period supplier must ensure preventive maintenance & corrective/breakdown maintenance whenever required	
16	Installation and Comissioning	
	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
17	Documentation	
	User (Operating) manual in English	
	Service (Maintenance) manual in English	



S. N.	Purchaser's Specifications F/Y- 2082/083	Bidder's Compliance S		Sheet
	Color Doppler Ultrasound Machine	Yes/No	Page no. in catalog	Remark
	Manufacturer		7000 NO.	
	Brand			
	Type/Model			
	Country of Origin			
1	Description of Function		T	
1.1	A fully digital high-end Colour Doppler Ultrasound DICOM compatible system with digital broadband/wide band beam forming capable of performing imaging application in Fetal/Obstetrics, Abdominal, Gynecology, Pediatric, Small Organ, Trans-rectal, Trans-vaginal, Urology, Cardiac Adult, Cardiac Pediatric and Peripheral vessel etc.			
2	Operational Requirements		-	
2.1	It shall operate on mains AC power supply.		1	
3	System Configuration	7	-	
3.1	System shall be supplied with main unit, 3 probes, 1 unit of black and white thermal printer and inbuilt Ultrasound gel warmer 1 unit.			
3.2	1 unit of broad bandwidth of approx. 2-5 MHz, convex array probe for OB/GYN and abdominal application.			
3.3	1 unit of broad bandwidth of approx. 5-17 MHz, linear array probe for small part and superficial scanning application.			
3.4	Phased array transducer with a frequency range of approx.1-6 MHz or better, suitable for Cardiology applications.			
4	Technical Specifications		1	
4.1	Should be compatible to best quality and light weight probe with broad band/wide band technology for ease of use.			
4.2	System should have automatic and user programmable software for 2D Imaging, and advanced and easy 3D imaging and 4D imaging applications.			
4.3	System should support broadband probes spanning a frequency of approx. 1 MHz to 17 MHz, depending on the probes.			
1.4	Should have, High resolution 21 inch or more LCD/LED Colour flat panel monitor with resolution 1920x1080 or better mounted on articulating arm with tilt and swivel function.			
1.5	Should have additional 10 inch or more with touchscreen monitor and resolution of 1,280 x 700 or better for better user control.			- 1-
1.6	System should have minimum 4 active probe ports with electronic switching facility from keyboard with the capability of connecting any of the probes in any port.			
.7	The system shall accept most of the common probe types of: convex array, liner array, phased array, TVS and 3D/4D volume probes.			



4.8	System must be offered with a 2D frame rate of at least 1500 frames/second		1 1	- 10
	or more and 230 frames/sec or more in Color Mode. Acquisition frame rate			
	should be clearly mentioned in the test in the second mode. Acquisition frame rate			
	should be clearly mentioned in the technical quote If not mentioned Please			
	attach a letter from manufacturer along with the technical bid clearly stating	1,50		
	the frame rate of the offered system.			
	System must be offered with a minimum of 8 00000 digital processed			
	channels. Original technical data sheet should be enclosed in technical bid to			
4.9	support the number of channels on the systems. If not mentioned Please			
1	attach a letter from manufacturer along with the technical bid clearly stating			
	the digital processed channels of the offered system.			
4.10	. System Should have higher Dynamic range 255db and above. dynamic			
	range and clearly mentioned in the datasheet or submit letter from manufacturer.			
4.11	System should be supplied with complete Obstetric analysis: BPD, CRL,		_	
7.11	AC, HC, FL, GS, AFI, etc. for Estimation of Gestational Age and Fetal			
	Weight, Heart Rate, growth chart, Obstetric Doppler Calculation (MCA,			
100	umbilical artery etc.) and OB/GYN report system.			
	Modes of Operation: B-Mode, B-Flow, Color Doppler mode, Power			
	Doppler (PD) mode, M mode, Pulsed Wave (PW) Doppler mode,			
4.12	Continuous Wave (CW) Doppler mode, Tissue Doppler Imaging (TDI)			
	mode, Spectral Doppler mode, Elasto-Scan Mode, Real time 3D (4-D imaging).			
4.13	System should have Cross beam imaging.			
4.14	System should have Trapezoid Imaging on linear Probe, Convex and Phase			
	array Probes with enlarged FOV.			
4.15	System Should have Dynamic Tissue Optimization done by adjusting			
	automatically Signal to Noise ratio while scanning from one organ to			
1 16	another organ.			
1.16 1.17	System Should have Automated B/D measurement.			
1.17	System should be offered with one touch image optimization and Real time			
	continuous image optimization for excellent tissue uniformity.			
.18	The system should have Tiegue Donnley Insering (TDI)			
.19	The system should have Tissue Doppler Imaging (TDI). Should have strain Elastography.			
20	System should have advance Needle visualization technique.			-
.21	System should have cine memory of at 500 MB	-		
22	System should have Linear and curved Anatomical M- Mode (AMM)			
-	features			
23	Should have ability to zoom 8x or better.			
24	PRF should be approx. 17 KHz.			
25	System should have capability of real time automatic Doppler calculations.			
26	Auto trace and automatic Doppler calculations should be available in live			
	and frozen images.			
27	Must have fully Digital /slider control TGC.			
28	Steering up to 20 degree independent of B Mode/PW on linear probe.			
9	It should have Tissue Harmonic Imaging			



System should have Automated IMT measurement. Auto IMT measurement Auto NT measurement Auto vessel diameter.,etc System should have standard Cardiac measurement package for adult and pediatric. Should have Base line shift, Spectrum inversion, Angle correction, Dynamic range adjustment should be possible. System should have special image processing technologies that aim to enhance image quality by reducing noise and artifacts, improving contrast and resolution. Bidders shall mention the name of technology. System should be capable of scanning of 38 cm or more. Scanning Depth should be clearly mentioned in the technical quote If not mentioned Please attach a letter from manufacturer along with the technical bid clearly stating the scanning depth of 38 cm in the offered system. Image storage facility on in build HDD/SSD should be minimum with			
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Image storage facility on in build HDD/SSD should be minimum with			
capacity of ITB and 8 GB of RAM.			
System can able to adjust the height up/down features			
System should have customizable user interfaces, programmable keys, and			
customizable exam protocols to optimize workflow.			
DICOM© 3.0 Connectivity			
Should have complete cardiac package with appropriate software	-		
Accessories, Spare Parts and Consumables		_	-
All standard accessories/consumables/parts required for the proper			
operation of the above item shall be included in the offer. Bidders shall			
specify, in a separate Excel worksheet, the quantity and details of any items			
		_	
Operating Environment		_	
Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The			
power cable must be at least 3 meters in length.	-		
Standards & Safety Requirements		_	
Must submit ISO13485:2003/AC:2007 for Medical Devices		_	-
CONTROL OF THE PROPERTY OF THE		_	-
The Supplier shall conduct user training for this equipment to enable			
operators to use the equipment properly. The training shall include the use		- 1	
of all operational functions of the equipment, as well as routine checks and	1		
maintenance expected by users.			
Womanty			
Warranty On the price werenty for 3 year after installation and acceptance at site			
with additional 2 years of service warranty should be provided.			
Maintenance Service During Warranty Period		and the second	
	Should have complete cardiac package with appropriate software Accessories, Spare Parts and Consumables All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form. UPS(3 kvA) to be provided with the system. Operating Environment Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meters in length. Standards & Safety Requirements Must submit ISO13485:2003/AC:2007 for Medical Devices Must Submit CE (93/42 EEC Directives) and USFDA (510K) approved product certificate. User Training The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users. Warranty Comprehensive warranty for 3 year after installation and acceptance at site	System can able to adjust the height up/down features System should have customizable user interfaces, programmable keys, and customizable exam protocols to optimize workflow. DICOM© 3.0 Connectivity Should have complete cardiac package with appropriate software Accessories, Spare Parts and Consumables All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form. UPS(3 kvA) to be provided with the system. Operating Environment Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meters in length. Standards & Safety Requirements Must submit ISO13485:2003/AC:2007 for Medical Devices Must Submit CE (93/42 EEC Directives) and USFDA (510K) approved product certificate. User Training The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users. Warranty Comprehensive warranty for 3 year after installation and acceptance at site	System can able to adjust the height up/down features System should have customizable user interfaces, programmable keys, and customizable exam protocols to optimize workflow. DICOM® 3.0 Connectivity Should have complete cardiac package with appropriate software Accessories, Spare Parts and Consumables All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form. UPS(3 kvA) to be provided with the system. Operating Environment Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meters in length. Standards & Safety Requirements Must submit ISO13485:2003/AC:2007 for Medical Devices Must Submit CE (93/42 EEC Directives) and USFDA (510K) approved product certificate. User Training The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users. Warranty Comprehensive warranty for 3 year after installation and acceptance at site



10.1	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.		
10.2	The bidder must ensure the service and complete spare parts support for 10 years of the system, including accessories.		
11	Installation and Commissioning	 _	
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.		
12	Documentation		
12.1	User (Operating) /Service manual in English.		
12.2	Manufacturer Authorization letter from manufacturer		
12.3	List of important spare parts and accessories with their part number and costing.		



Ventilator, Transport

S.N.	Purchaser's Specifications (f/y-082/83)	Bidder's Compliance Sheet
	Ventilator, Portable	
	Manufacturer	Water Control of the
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
	The portable ventilator is used during transport of a patient with	
1.1	artificial respiration support or home care of a patient after	
	discharge from a hospital.	
2	Operational Requirements	
2.1	The portable ventilator shall be light weight (< 5 kg)	
2.2	Shall be microprocessor controlled.	
	Shall operate with mains electric supply as well as with	
2.3	batterbackup .of 10 hours.	
	Shall be able to work both with cylinders (0-7 bar) and pipeline,	
2.4	connectors and high-pressure tubing of appropriate length to be	
	supplied.	
3	System Configuration	
3.1	Portable ventilator for paediatric to adult and with battery backup	
3.1	min 5 hours	
4	Technical Specifications	
4.1	Must have TFT Color Touch Screen of 8 inch or more, for	
	monitoring of the ventilation parameters, curves and loops.	
4.2	It shall be an electronically controlled pneumatic ventilator.	
	Should be Single Knob Operation, Individual presetting.	
4.5	Must have a built in Electronic Blender for Air and Oxygen.	
4.6	Must be able to accept low pressure Oxygen source in addition to	
4.0	High Pressure Oxygen.	
4.7	Must have at least 5 hours of built in battery back-up or more	
	The ventilator shall be compatible with DC power cables for	
4.8	powering the ventilator from Ambulance Cigarette lighter power	
- 1	supply.	(4)
	Shall have following settings (approx.)	
	a. TV 50 to 1500 ml ATPD +/- 10% of setting	
	b. PEEP/CPAP: 0 to 25 cm H2O (0 to 2451 Pa) cm H2O	
	c. Pressure Support: 0-60cmH2	
	d. RR up to 80bpm	
	e. l: E ratio : 1:1 to 1:99.9	
	f. FiO2: 21 – 100%	
- 1	g. Respiratory rate: 1-60 breaths per minute	



	h. Inspiratory time: approximately 0.3-3s	
	i. Inspiratory Pressure:): 10 to 80 cm H2O (980 to 7845 Pa)cmH2O	
	j. Max inspiratory flow: : 0 to 100 LPM @ 40 cm H2O (3922 Pa)	
4.11	Ventilator mode:	
	AC, SIMV with or without pressure support, and CPAP (NPPV/PPV)	
	with or without pressure support	
4.12	Shall have selectable Flow trigger or Pressure trigger or both.	
4.13	Should have provision of SPO2and Heart rate display	
4.14	Should have provision of 3FO2and Heads Shall have provision for automatic leak compensation for circuit and ET tube.	
4.15	Shall have monitoring/control of Plateau Pressure, Manual Breath, Apnea Backup, Oxygen in Use, Inverse Ratio ,PIP, Type of breath initiation, Exhaled VT, Total breath rate, I:E ratio, PEEP on display so that these can be read in outdoor conditions often associated with the field ambulances and during patient transfers.	
4.16	Shall have measurement of compliance & resistance respectively. Shall have apnoea back up ventilation and Manual breath.	
5.17	Audio-visual alarms for	
	a. Low supply pressure	
	b. High/low airway pressure	
	c. Leakage/disconnection	
	d. Power failure	
	e. Apnea	
	f. Low battery	
	f. Low battery The design of ventilator must be compact in order Fully reflective LCD The design of ventilator must be compact in order Fully reflective LCD	
5	and Silent and Dark mode capabilities for operation in all light conditions	
5.1	and tactical situations Shall fix, on rails of transport trolley and on stand with wheels.	
	in a marge and consumables	
5.2	Accessories, spares and consumation. Adult Reusable /Autoclaveable Silicon Patient Circuit	
	Paediatric Reusable/Autoclaveable Silicone Patient Circuit	
	· Oxygen Hose	
	 Rechargeable Batteries (in the unit) 	
	· HME Filters 2pcs	
	· Bacteria Filters 2pcs	
5.3	All standard accessories/consumables/parts required for the proper operation of the above equipment shall be included in the offer.	

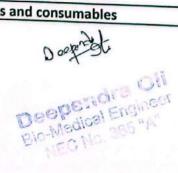


1	Operating Environment	
6		1 1 1 1 1 1 1 1 1 1
	in the sense of the fill that I seemed	
6.1	normally under the conditions of the parents conditions include Power Supply, Climate, Temperature, Humidity,	
	conditions include 1 even	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug.	
6.2	The power cable must be at least 3 metre in length.	
	Standards and Safety Requirements Standards and Safety Requirements	
7	Standards and Safety Requirements The unit offered shall be certified to meeting the relevant quality The unit offered shall be certified to meeting the relevant quality The unit offered shall be certified to meeting the relevant quality	
	The unit offered shall be certified to meeting the re- and safety requirements of CE mark and USFDA additional with any	
220020	and safety requirements of CE mark and our end of the safety requirements of CE mark and our end of the safety standards if it has. Certificates other relevant quality and safety standards if it has. Certificates	
7.1	other relevant quality and safety standards with any relevant showing the compliance of this unit offered with any relevant	
	showing the compliance of the	
	quality.	
7.2	Manufacturer must have ISO certification for quality standards.	
,	Must meets the transport standards EN 794-3 and ISO 10651-3 for	
	Must meets the transport standards EN 794-3 and 199	
7.3	I transport Verillatura er -	
7.5	both EN 13718-1 and RTCA/DO-160G for aircrafts.	
8	User Training On site operational training and technical training till the familiarity	
	On site operational training and technical training	
8.1	of the system and satisfaction of end user (single-	
	technical staff) shall be provided.	
9	Warranty	
- 4	Comprehensive warranty for 2 years.	
10	Maintenance Service During Warranty Ferrou	
10.1	Preventive & Corrective Maintenance:	
IU.I	d supplier must ensure planned	
	During the warranty period supplier must ensure planned	
	In a ventive maintenance (PPM) at least 3 nos. III a year along with	
	corrective/breakdown maintenance whenever required.	
11	Installation, Inspections and Commissioning	
	Supplier must accomplish proper installation and commissioning of	
1.1	the equipment on site.	
12	Documentation	
21	User (Operating) manual in English.	
2.1	Service (Technical / Maintenance) manual in English.	
2.2	Service (Technical / Ivialittenance) managem = 10	

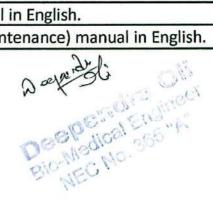


Technical specification of Video Laryngoscope Machine

S.N.	Purchaser's Specifications (f/y-082/83)	Bidd Comp She	
	Video laryngoscope	Yes/No	Remar ks
	Manufacturer	-	K3
	Brand		VII. 31
(to grant or a	Type / Model		
	Country of Origin		
1	Description of Function		
1.1	Video laryngoscope machine designed to provide clear, real-time visualization of the airway for safe and efficient intubation		
2	Operational Requirements		
2.1	Video laryngoscope with complete standard accessories		
3	System Configuration		
3.1	The offered system must be a complete video laryngoscope set for fast and reliable intubation, providing superior glottis view via an integrated video display.		
4	Technical Specifications		
4.1	The device must feature a unique transflective display technology that automatically adapts for optimal visibility even in very bright ambient light conditions.		
4.2	The display must be a minimum of 3 inches and be in a practical portrait format for intubation.		
4.3	The display unit must have an adjustable angle to minimize reflections and improve ergonomics during the intubation procedure.		
4.4	representation and a sharp image		
4.5	The grip head and display frame must be constructed from anodised aluminium.		
4.6	The handle and the camera arm must be constructed from stainless steel.		
4.7	The system must use single-use, Macintosh-style video laryngoscope blades.		\neg
4.8	The system must be powered by a rechargeable battery.		
4.9	The system shall be compatible with a dedicated charging station.		
4.10	The laryngoscope shall provide a situational field of view of the glottis and the relevant surrounding anatomy for comprehensive orientation.		
5	Accessories, spares and consumables		



1		
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6	Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
7	Standards and Safety Requirements	
7.1	Must submit IS013485:20023 or better for Medical Devices	
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 2 year after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation such as water, electricity, civil works etc. to be communicated to the purchaser in advance, in detail.	
12	Documentation	
12.1	User (Operating) manual in English.	
12.2	Service (Technical / Maintenance) manual in English.	



Technical Specification Fully Digital X-Ray Machine 600 mA or more

	Fully digital X-Ray Machine 600 mA or better	Yes/No	Page no in	Remarks
			catalogue/dat asheet	1
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	Description of Functions			
1.1	A general-purpose Fully Digital X-ray machine with 50 KW or more high frequency generator with floating table, Vertical Chest Bucky stand, console and flat panel detectors.			
2	Operational Requirements			
2.1	X-ray system with floor mounted with X-ray tube, table, and fixed multipurpose Bucky wall Stand and digital detector to share between the table and Bucky wall stand. It shall be suitable to be used for adult and pediatric patients in general Radiography examination.			
3	System Configurations			
3.1	X-ray Generator, 1 unit.			
3.2	X-Ray tube & tube support system, 1 unit.			
3.3	Detector- 2 units			
3.4	Floating patient table, 1 unit.			
3.5	Vertical Bucky stand, 1 unit.			
3.6	Control panel -1 unit			
3.7	Dry film printer-1			
4	Technical Specifications			
4.1	X-ray Generator			
4.1.1	600mA or more microprocessor based, high frequency generator.			
	current or more.			
	KVP Range 40 kV to 150kV with 1 KV adjustment.			
4.1.4	mAs range: 0.1 - 1000mAs or more			
4.1.5	Exposure time range approx. Imsec and maximum not more than 10 sec.			
4.2	X-ray Tube			
4.2.1	The X-Ray Tube shall have rotating anode.			
4.2.2	Maximum exposure voltage should be 150KV or more.			
4.2.3	Maximum exposure current should not be less than 600mA or more.			
	Should be available with Dual Focus Technology with Large focus: approx. 1.2 mm Small focus: approx. 0.6 mm Filtration should be minimum 1.0 mm Al equivalent.			
	Anode heat storage capacity shall not be less than 300 KHU or more.			



33	Flat Panel Detector		-
/			
	The Flat Panel should be a Retrofit Solution and capable to work with any of the X-Ray available in Department.		
4.3.1	Detector should be of latest tooken.		
422	Detector should be of latest technology with Cesium Iodide (CSI) Scintillator technology.		
4.3.2	Sit should not be more than 5 kg.		
4.3.3	Detector size: 35 cm × 43cm or more.		
4.3.4	Automatic Exposure Detection to any X-ray Generator without wire connection.		
4.3.5	Image Matrix Size Approx. 2.2K x2.2K Pixel or more		
4.3.6	Spatial resolution of 3.3 LP/mm or better.		
4.3.7	The Pixel size: 150µm or lesser		
4.3.8	Should have a minimum image depth of 16 bit.		
4.3.10	Preview time after exposure 5 sec or less.		
4.3.11	Battery Backup: Minimum 5 Hours or more.		
4.3.12	Surface Load Capacity: 150 Kg or more		
4.3.13	The Detector should have replaceable Lithium Ion battery.		
4.3.14	Water Resistance: IPX or equivalent		
4.4	Floor Mounted Tube Column		
4.4.1	Movement range of column along track should be approx. 2100mm		
4.4.2	Vertical travel movement range of tube assembly along column should be		
	approx. 1300mm.		
4.4.3	Rotation range of tube along Horizontal axis should be approx. ±135°.		
4.4.4	Must have electromagnetic braking/locking system.		
4.5	Floating Patient Table (4-way movement floating table)		
4.5.1	It shall be a radio-translucent floating table top with load capacity of 250 kg or more.		
4.5.2	Lateral Movement Range : approx .220mm± 10mm or better		
4.5.3	Longitudinal movement range: approx. 900mm± 10mm or better		
4.5.4	The tabletop should be made of low radiation absorption as well as water proof		
4.5.5	material. It should be able to accept all the cassette size up to 14"x17" or better.		
4.5.6	Various table accessories such as SS cassette tray, etc must be provided with		-
4.5.7	the system.		
4.5.7	The Table should consist of motorized reciprocating bucky with Grid. Grid Ratio: approx. 8:1 or 10:1		
	Grid LPI: at least 85 lines/inch		1 1
4.6	Vertical Stand Bucky		
	It should be floor mounted vertical bucky stand with oscillating Grid and SS		-
- Linear	cassette with following parameters:		
	Grid Ratio: approx. 8:1 or 10:1		
	Grid LPI: at least 85 lines/inch		
4.6.2	The Bucky must have smooth up & down movement.		
	Degrandi		
	20 26		
	A. Mr.		

1.3	It should be able to accept all the cassette size up to 14"x17" or better.		1	
4.6.4	Collimator			
4.6.5	SID: 100cm or more	-	-	
4.6.6	Should have LED Indicator light source.		-	- I-tosan
4.8	Control Panel			-
4.8.1				
4.8.2	It should have digital display of mA, kV and mAs		-	_
4.8.3	It should have minimum 2-point exposure technique (KV / MAS)		-	-
4.8.4	Shall display various x ray status, error, etc. Shall come with radiography hand switch in control room	-		
4.8.5	Anatomical preprogrammed (with at least 1000 programs) parameters of			
11010	various anatomical positions should be available to select exposure parameters			
4.8.6			-	
	retractable cord should be provided for taking images from a safer			
	distance.			
4.9	Imaging Workstation			
4.9.1	Workstation shall have core i5/i7 with high speed processor, latest operating			
	system, Latest model processor, RAM - 4GB, HDD - 500GB, latest windows			4
	10 32/64bit. Display Monitor: at least 20" size			
4.9.2				
	Processing Software facility for patient identity entry, viewing and processing images, documentation.			
4.9.3	DICOM work list, DICOM Print, DICOM Storage should be available.			
and the same of th				
5	Imaging Printer ,laser/thermal, (film based):			
4.9.5	The system must have at least two online film sizes, and should be capable to			
	print on any of the 8" x 10", 10" x 12", 14" x17" sizes. All two film input trays			
100	should be freely configurable at user level for all the mentioned film sizes. Printer should have dry image Technology, compatible with DICOM and		-	_
4.9.6	PACS without loss of information, allowing multiple modalities to be			
	connected at a time.			
4.9.7	Throughput: 70 films or more.			
4.9.10				
4.9.11	Resolution > 500 DPI.			
4.9.12	Multiple Image and slide printing capability.			
	Contrast: 14-bit contrast resolution or more.			_
5	Accessories, Spare parts & Consumables			
5.1	All standard accessories, consumables and spare parts required for the proper			
	operation of the above item shall be included in the offer.			
5.2	Bidder shall specify in a separate document the quantity and details of any			
	items included in this offer which have not been specified in this Technical			
	Specification.		1	

5.4	Online UPS (3kvA) for at least 30 minutes system backup		
		and the same of th	CONTRACTOR OF THE PARTY OF THE PARTY



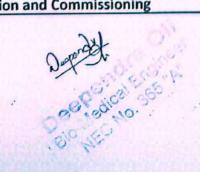


·T	Operating Environment		
.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.		
6.2	Power supply: 380-415VAC 3 phase 50Hz fitted with appropriate plug for X-ray generator and 220 – 240 VAC, Single phase 50 Hz, fitted with appropriate plug for other units.		
7	Standard & Safety		
7.1	Must Submit ISO 13485:2003/AC:2007 Certificate		 -
7.2	Must submit CE (93/42 EEC Directives) AND USFDA (510K) approved product certificate for Flat panel detector and X-ray system .CE or USFDA approved certificate for dry Imaging printer	-	
8			
8.1	2 years complete comprehensive warranty on the whole System with additional one year of service warranty.		
9	m • • •		
9.1	The Supplier shall conduct on site user training for the equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.		
10			
10	and commissioned by		
1	1 Documentation	0	
11	Hear (Operating) manual in English.		
11	- it a realid outhorization letter along with bid for Aray		- hung

Bidder must compulsorily fill out the Compliance Sheet and provide with Reference Documents or Brochures (And page no) to validate the points. Failure to do so will subjected as Non-Compliant by the Technical Evaluation Team.

Specification for Cervical Coller

S.N.	Purchaser's Specifications F/y-082/83	Bidder's offer
VIII	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
	Should have Soft foamis slightly contoured for a	
1.1	comfortable fit. Covered with100% cotton stockinet and a velcro closure.	
1.2	Loop contact closures for easier use.	
1.3	Adjustable size designed for using on a wide range of petients.	
2	Accessories, spares and consumables	
2.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
3	Standards and Safety Requirements	
3.1	Must submit ISO 13485 for Medical Devices	
3.2	Must submit CE (93/42 EEC Directives) approved product certificate.	
4	Warranty	
4.1	1 year comprehensive warranty should be provided for the bed.	
5	Maintenance Service During Warranty Period	
5.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	

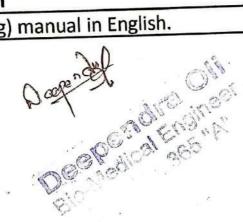


6.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.
8	Documentation
8.1	User (Operating) manual in English.

Specification for Emergency and Recovery Trolley

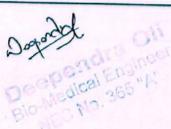
s.N.	Specification for Emergency and Recovery Tro Purchaser's Specifications(f/y-082/83)	Bidder's offer
-	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
1.1	Casters: Heavy-duty, non-staining precision ball-bearing swivel casters of 5" for smooth maneuverability.	
1.2	Caster Control: Foot-operated, centrally actuated lever at both head and foot ends with multistage switching for total lock, direction lock, or free mobility.	
1.3	Gas spring assisted seamless adjustment for Trendelenburg and	
1.4	Manually operated on a ratchet mechanism for reliable	
1.5	positioning. Hydraulic pump operated by foot levers on both sides for convenient height variation.	
1.6	Two-section X-ray permeable pre-laminated board supported on a strong M.S. tubular frame with removable stretcher.	
1.7	Accessories: Provided with Oxygen cylinder cage, sliding X-ray cassette holder, collapsible safety side railings, SS telescopic IV rod (4 hooks), utility tray, and 50 mm (2") mattress.	
1.8	Finish: Pre-treated and epoxy powder coated for corrosion resistance and durability.	
		,
10	Angle of Trendelenburg / Reverse Trendelenburg - 17	
	- Sizer Handle to hadle - 1930L x 660W mm	
11	Stretcher 10p Size. Handle to 1120W x 600-880H mm.	
	Overall Size:approx. 2030L x 1020W x 05	
2	Accessories, spares and consumables and parts require	ed
	Accessories, spares and consumables All standard accessories, consumables and parts require to operate the equipment, including all standard to and cleaning and lubrication materials, to be included the offer. Bidders must specify the quantity of every it included in their offer (including items not specific	in em
	above).	
3	. I CATOTY REDUIT CITION	
3.1	hmit ISO 13485 IOI Medicar	ato.
3.2	Must submit CE (93/42 EEC Directives) product certifica	ite.
	V V 70 01.5	

4.1	2 years comprehensive warranty should be provided for the bed.	
5	Maintenance Service During Warranty Period	
5.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
6	Installation and Commissioning	
6.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
8	Documentation	
8.1	User (Operating) manual in English.	



Specification for Head Immobilizer

	Specification for Head Immobilizer	
S.N	Purchaser's Specifications (f/y-082/83)	Bidder's offer
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
1.	A reusable, radiolucent head immobilization device used with a spine board or scoop stretcher to stabilize the head and neck of trauma patients during emergency transport.	
	Made from closed-cell foam or coated high-density foam. Waterproof, non-absorbent, and wipe-clean surface.	
1.	Resistant to blood, body fluids, and disinfectants. Latex-free materials preferred.	
	Components	
1	One base plate compatible with standard spine boards. Two lateral head blocks with large ear openings for patient monitoring.	
	Adjustable forehead strap and chin strap (Velcro or quick-release).	
	Fastening straps to secure immobilizer to the spine board	
.	Weight: ≤ 1.0 kg	
	Should accommodate adult and pediatric head sizes (adjustable straps).	



	Fluid-resistant			
	1. Easy to wipe and disinfect			
-	Suitable for chlorine or alcohol-based disinfectants			
	2 Accessories, spares and consumables			
2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
	1 base plate			
2	2 head blocks 2 2 adjustable securing straps (forehead & chin)			
	Board attachment straps			
3	Standards and Safety Requirements			
3.1				
3.2	Must submit CE (93/42 EEC Directives) approved product certificate.			
4	Warranty			
4.1	2 year comprehensive warranty should be provided for the bed.			
5	Maintenance Service During Warranty Period			
5.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
6	Installation and Commissioning			
6.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
8	Documentation			
3.1	User (Operating) manual in English.			



Mayo Trolley

S.N	S.N Purchaser's Specifications (f/y-	Bidder's Offer
•	082/83)	
	Mayo Trolley	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.1	Mayo trolley use in operating theatre	
	and in treatment rooms.	
7	Operational Requirements	
2.1	It is used for layout for surgical	
	instruments.	
3	System Configuration	
3.1	Mayo trolley with four swivels	
4	Technical Specifications	
4.1	_	
	fully with 304 grade stainless steel or	
	better.	



2	2.1	5.1 All standard accessories,
		consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).
9	100000000	Operating Environment
9	6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.
1		Standards and Safety
7.1	-	st submit ISO 9001 or 13485:2003/AC:2007
		To the later of th

7.2	7.2 CE or USFDA approved product
	certificate.
8	User Training
8.1	Not applicable.
(Warranty
9.1	Comprehensive warranty for 2 year
	from acceptance.
10	
	Warranty Period
A	Standard warranty conditions are
	applicable.
111	Installation and Commissioning
A	Must supply preassembled unit, ready
	to use.
12	Documentation
A	Not applicable.
	٦

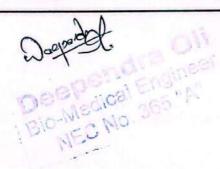


Specification of Over Bed Table

S.N	. Purchaser's Specifications	Bidder's offer
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
1.1	Imm to 1050 mm H.	
1.2	Height adjustment by Pneumatic Gas Spring mechanism.	
1.3	Made of Rectangular frame tube material.	
1.4	The edge of the top can be raised up to avoid falling of items from edge of table top.	
1.5	50 mm dia. high quality castor wheels with wheel locks.	
1.6	Laminate or ABS top,powder-coated frame.	
1.7	All corners should be rounded off so that there shall be no sharp edges.	
1.8	Stainless steel sheets/tubes are of Grade 304.	
L.9	Free upward movement to prevent body entrapment.	
2	Accessories, spares and consumables	
.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
_	Standards and Safety Requirements	
	Must submit ISO 13485 for Medical Devices	
/	Must submit CE (93/42 EEC Directives) approved product certificate.	
1 1	Warranty	
1 2	2 year comprehensive warranty should be provided.	
1	Maintenance Service During Warranty Period	
1 0	Ouring the warranty period supplier must ensure corrective/breakdown maintenance whenever equired.	
	nstallation and Commissioning	



The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.



Bed, Hospital(semi-fowler design)

	S.N. Furchaser's Specifications	Bidder's Offer
	Bed, Hospital	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
	A hospital bed is a bed specially designed for hospitalized	
	patients in need of patient ease. These beds have special features both for the comfort and well-being of the patient and for the convenience of hospital staff.	
2	Onerational Requirements	
2.1	The patient bed shall be made of solid steel construction with anti-corrosive and antirust treated baked hard epoxy	
	powder coating, ABS made side pannels	
3	System Configuration	

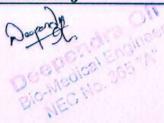


wder coated	Technical Specifications Bed base shall be anti-corrosive and antirust treated epoxy powder coated welded steel bar or epoxy powder coated 18G perforated sheet top to improve ventilation.	The patient bed shall be fixed height where the Back Rest Section could be elevated by mechanical hand crank located at the foot end of the bed.	ptacles and mosquito net pole ers	It shall come with one dual hook anti-corrosive and antirust treated epoxy powder coated or 304 grade stainless steel IV rod.	fix urinary bag on both sides.	bed shall be capped with heavy	It shall have S.S/pre-treated epoxy powder coated M.S Head and foo t panels with side rails also.	nd panel shall be detachable.	Overall approximate dimension: 1980mm length, 910mm
Hospital Bed epoxy powder coated	Technical Specifications Bed base shall be anti-corrosive and antirust treated epox powder coated welded steel bar or epoxy powder coated 18G perforated sheet top to improve ventilation.	The patient bed shall be fixed hei Section could be elevated by mec at the foot end of the bed.	Shall have 4 IV rod receptacles and mosquito net pole receptacles at the 4 comers	It shall come with one dual hook a treated epoxy powder coated or 3 rod.	Shall have provisions to fix urinary bag on both sides.	All 4 legs of the hospital bed shall be capped with heavy duty rubber footings.(It shall have S.S/pre-treated epoxy I and foo t panels with side rails also.	Both bedhead and foot-end panel shall be detachable.	Overall approximate dimension: width, 600mm height
3.1	4 4 1.	4.2	4.3	4.	4.5	4.6	4.7	4.8	4.11

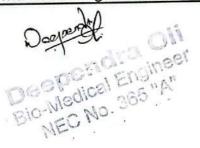
proper operation of the above item shall be incleoffer. Operating Environment The system offered shall be designed to store an normally under the conditions of the purchaser's The conditions include Climate, Temperature, Hetc. Standards and Safety Requirements Nust submit ISO 9001 or ISO 13485:2003/AC: CE approved product certicates Not applicable. Not applicable. Warranty Warranty Warranty for 2 year. Maintenance Service During Warranty Period Standard warranty conditions are applicable. Installation and Commissioning Must supply preassembled unit, ready to use. Users/Instructions manual shall be provided in En Manufacturer authorization letter	All standard accessories/consumables/parts required for the
	d in the
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	o operate untry. nidity,
	77 AND
S.N. Purchaser's Specifications 9	
6,000	Sh.

Specification for Spine Board

S.N.	Specification for Spine Boa Purchaser's Specifications	Bidder's offer
	Manufacturer	Didder 3 Offer
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
1.1	Spine board with safety belts is made of PE material with no discharge contaminator, and firmness to wear.	
1.3	The structure should be allowed X-rays because of its completely translucent property .	
1.4	Must be compatible with most head immobilization devices and strap mechanisms.	
1.5	Product Size (approx.): 1840L x 450W x 55H mm.	
1.6	Load Bearing: approx. 180kg.	
2	Accessories, spares and consumables	
2.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
3	Standards and Safety Requirements	
	Must submit ISO 13485 for Medical Devices	
3.Z I	Must submit CE (93/42 EEC Directives) approved product certificate.	
4	Warranty	
4.1	2 year comprehensive warranty should be provided for the bed.	
5	Maintenance Service During Warranty Period	
5.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
_	Installation and Commissioning	



6.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.
8	Documentation
8.1	User (Operating) manual in English.

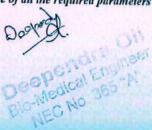


TECHINICAL SPECIFICATION FOR STRETCHER TROLLEY

S.N Purchaser's Specifications(F/Y:082/83)	Bid	der's Compliance	Sheeet
Stretcher trolley	Yes/No	Page No. in Catalogue	Remarks
Manufacturer:		_ Cutalogue	
Brand:			
Type/Model:			
Country of Origin:	77 77 77 79		
1 Description of Function			
A stretcher is a medical device used to transport patients who are unable to move or walk on their own due to injury, illness, or medical conditions. It is typically a flat platform made of a sturdy frame, often with a mattress or padding, designed to provide support and comfort during patient transport.			
2 Operational Requirements			-
2.1 Removable stretcher, Supported On the trolley	-		
3 System Configuration			
3.1 Patient stretcher Trolley, complete unit.			
4 Technical Specifications			
4.1 High-strength stainless steel or aluminum alloy frame material for durability and lightweight handling.			
Powder-coated or corrosion-resistant finish for hygiene and longevity.			
4.3 Overall size(approx.): 1950mm(L) x600(W) mm.			
4.4 Fixed height(approx.):810mm			
4.5 Trolley should be provided with 150-200 mm diameter. Swivels			
castors wheels,2 with brakes for stability.			
4.6 Removable stretcher, Supported On the trolley	-		
4.7 Should be Pre-treated and epoxy powder coated			-
4.8 Carrying capacity: 120kg or more.			
Pushing handles at both ends should be covered with PVC sleeves.			
4.1 Should have smooth edges and burr free			
5 Accessories, spares and consumables			والبارات
To be supplied with all standard accessories, spares and consumables for complete functionality of the product.			
6 Operating Environment	-		-
The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
7 Standards and Safety Requirements	and the same of th		
7.1 Shall be certified to meet ISO 9001 or ISO 13485-2003/AC-2007 and			
7.2 CE approved product certificate.			
8 User Training			
8.1 Not applicable.			
9 Warranty			- N C S 110
9.1 Warranty for 2 year after acceptance.			
10 Maintenance Service During Warranty Period			-
0.1 Standard warranty conditions are applicable.			
11 Installation and Commissioning			
1.1 Must supply preassembled unit, ready to use.			THE RESIDENCE
2 Documentation			
2.1 User's manual shall be supplied in English.			

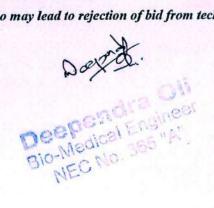
Bidder must completely fill the Technical Specification Form (TSF). Only Yes/No/All complies should not be written.

Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing



S.N Purchaser's Specifications (F/Y:082/83)	Bidder's Compliance Sheeet		
Stretcher trolley	Yes/No	Page No. in Catalogue	Remarks

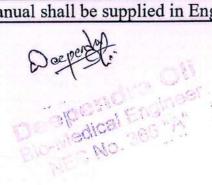
so may lead to rejection of bid from technical committee.



TECHINICAL SPECIFICATION FOR TROLLEY, MEDICINE

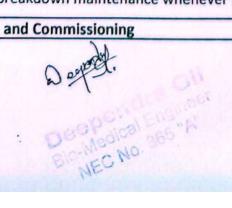
S.N	Purchaser's Specifications,F/Y-082/83	Bid	der's Com Sheeet	
	Medicine Trolley	yes/no	Page no. in catalogu e	Remarks
	Manufacturer:			n ny
1	Brand:		-	
	Type/Model:			
	Country of Origin:			
1	Description of Function			
1,1	A medicine/drug trolley for storage and delivery of medicines and drugs to patients in wards of healthcare facilities.			
2	Operational Requirements			
2.1	Stainless steel medicine trolley with swivel castors.			
3	System Configuration			
3.1	Medicine Trolley, complete unit.			
4	Technical Specifications			
4.1	It shall be constructed fully with 304 grade stainless steel sheet and tube or better.			
	Overall size: approximately 900 H x 460 W x 760 L mm			
4.3	Frame work made up of SS tubes.			
4.4	Multiple drawers (minimum 5) made of high quality materials with telescopic channels, below the platform			
4.5	Should be equipped with lock key system			
4.6	Shall be mobile on 4 x 100mm diameter (approx.) robust 360 deg. anti-rust, anti-static, noiseless, swivel castors & shall have brakes			
4./	Shall have provision for hanging one IV fluid bottle			
5	To be supplied with all standard accessories, spares and consumables for complete functionality of the product.			
6	Operating Environment			
5.1 t	The product offered shall be designed to be stored and o operate normally under the conditions of the burchaser's country. The conditions include Climate, remperature, Humidity, etc.			
7 8	tandards and Safety Requirements			
7 1 5	hall be certified to meet ISO 9001 or ISO 3485:2003/AC:2007 and			

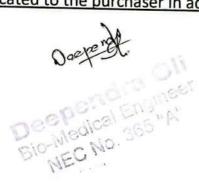
7.2	CE certificate.	in the total a	
8	User Training		
8.1	Not applicable.		
9	Warranty		y perhabit
9.1	Warranty for 2 year after acceptance.		(Letterality
10	Maintenance Service During Warranty Period		
10.1	Standard warranty conditions are applicable.		
11	Installation and Commissioning		
11.1	Must supply preassembled unit, ready to use.		
12	Documentation	500	100
12.1	User's manual shall be supplied in English.		



Specification for Wheel Chair

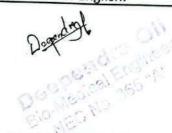
S.N.	Specification for Wheel Chair Purchaser's Specifications	Bidder's offer
	Manufacturer	
	Brand	
H C	Type / Model	
	Country of Origin	
1	Description and Specification	
	Must be made of the highest quality materials such as Chrome	
1.1	polished finish or stainless steel or high-strength aluminum alloy materials.	
1.2	Can be used for emergency staff to transfer patient from stairs	
1.3	Must have detachable armrest and foorrest.	
	The stretcher approves the patient's safety during transport	
1.4	process beacuse of its 3pieces of restraint straps with quick-release buckle.	
1.5	Front wheels: approx. 8-inch solid rubber swivel casters for smooth movement.	
1.6	Rear wheels: large self-propelling type, approx. 22-inch solid rubber or pneumatic tires with hand rims.	
1.7	Overall size approx.: 25"*42"*36"	
1.8	Should support at least 100–120 kg user weight.	
1.9	5cm thick, PU foam cushioned waterproof upholstery and easy to clean.	
2	Accessories, spares and consumables	
2.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
3	Standards and Safety Requirements	
3.1	Must submit ISO 13485 for Medical Devices	
3.2	Must submit CE (93/42 EEC Directives) approved product certificate.	
4	Warranty	
4.1	2 year comprehensive warranty should be provided .	
5	Maintenance Service During Warranty Period	
5.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
6	Installation and Commissioning	





Specification for Anesthesia Trolley

S.N.	Purchaser's Specifications(f/y-082/83)	Bidder's offer
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
1.1	Framework made of ABS plastic body with aluminum columns.	
1.2	Provided with Dust bin (2pcs), Utility Container, File Holder & S.S. rail on top.	
1.3	Trolley having multi-bin containers on top for medicines.	
1.4	Trolley having Sliding Side Shelf for writing purpose.	
1.5	locking system for 2 small & 3 big drawer.	
_	Provided with adjustable inner partitions.	
$\overline{}$	125 mm (5") Diagonal locking castors.	
	Overall Size (approx.): 850L x 520Wx 950H mm.	
2	Accessories, spares and consumables	
	All standard accessories, consumables and parts required	
	to operate the equipment, including all standard tools and	
2.1	cleaning and lubrication materials, to be included in the	
	offer. Bidders must specify the quantity of every item	
	included in their offer (including items not specified	i)
	above).	
	Standards and Safety Requirements	
	Must submit ISO 13485 for Medical Devices	
3.2	Must submit CE (93/42 EEC Directives) approved product	
	certificate.	
$\overline{}$	Warranty	
1.1	2 years comprehensive warranty should be provided for the bed.	
5	Maintenance Service During Warranty Period	
1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
6	Installation and Commissioning	
1	The bidder must arrange for the equipment to be installed	
1 1	and commissioned by certified or qualified personnel: any	
,, <u>,</u>	prerequisites for installation to be communicated to the	
	ourchaser in advance, in detail.	
8	Documentation	
.1	User (Operating) manual in English.	



Technical Specification for Bed side screen

S.N	Purchaser's Specifications F/Y-082/083 Bidder's Complia			ce Sheeet	
Tile (S	Bed side screen	yes/no	page no. in catalogue	Remark	
	Manufacturer:				
	Brand:				
	Type/Model:				
	Country of Origin:				
1	Description of Function				
	A patient screen is widely used in hospitals when the				
	doctor examines a patient in his private chamber or in				
1.1	the patient's room in the hospitals. The screen can also				
	be used in the operation room or the changing room of		1		
	the doctors and nurses.				
	Operational Requirements				
	Epoxy powder coated three fold patient screen.				
3	System Configuration				
3.1	Patient Screen with light blue curtain and fully swivel				
	twin wheel castors.				
4	Technical Specifications				
4.1	Three fold ward screen approx. total size 2450 w x 1650				
1	h mm in three sections.				
	Mild steel tubular construction with epoxy powder				
	coated treated in three section 600mm span width at		1		
4.2	each side and 1210 mm span width in the middle) and				
	mounted on wide spaced legs for each section, and each				
	foot to have two swivel castors size 50mm.				
4.3	To be supplied with hooks, springs and heavy duty curtain, firmly attached at sides, top and bottom. Curtain must have no gaps between sections				
5	Accessories, spares and consumables				
5.1	To be sumplied with all standard aggregation spares and consumables for				
6		Deliver Silver			
	The product offered shall be designed to be stored and to operate normally				
6.1	under the conditions of the purchaser's country. The conditions include				
	Climate, Temperature, Humidity, etc.				
	Standards and Safety Requirements				
7.	Shall be certified to meet ISO 9001 or ISO 13485:2003/AC:2007 and				
7.2	2 CE approved product certificate.				
	8 User Training				
	1 Not applicable.				
	9 Warranty				
	1 Warranty for 2 year after acceptance.				
	0 Maintenance Service During Warranty Period				
	1 Standard warranty conditions are applicable.				
1	1 Installation and Commissioning				



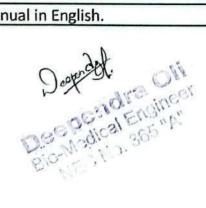
Specification for Biomedical Waste Bin

S.N.	Purchaser's Specifications	Bidder's offer
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
1.1	Bins made up of plastic.	
1.2	Bins should be foot operated	
1.3	Should be available in red / blue / black/ yellow/ white / green colours.	
1.5	Available sizes: 80 ltrs with 2 pcs rear wheels,	
2	Accessories, spares and consumables	
2.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
3	Standards and Safety Requirements	
3.1	Must submit ISO 13485 for Medical Devices	
3.2	Must submit CE (93/42 EEC Directives) approved product certificate.	
4	Warranty	
	Lyear comprehensive warranty should be provided.	
5	Maintenance Service During Warranty Period	
51	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
6	Installation and Commissioning	
6.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser	
8	Documentation	
8.1	User (Operating) manual in English.	



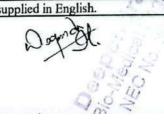
Specification for Biomedical Waste Bin set of 4

S.N.	Specification for Biomedical Waste bill set of the Purchaser's Specifications	Bidder's offer
3.IV.	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
1.1	Bins made up of plastic.	
12	Bins should be foot operated	
1.3	Should be available in red / blue / black/ yellow/ white / green colours.	
1.4	Should be provided with set of 4 bin and can be altered as required	
3 75 83 7 S. T.	Framework made up of SS tubes.	
742048000	sizes: 20-30 ltrs.	
2	Accessories, spares and consumables	
2.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
3	Standards and Safety Requirements	
3.1	Must submit ISO 13485 for Medical Devices	
3.2	Must submit CE (93/42 EEC Directives) approved product certificate.	
4	Warranty	
4.1	2 year comprehensive warranty should be provided .	
5	Maintenance Service During Warranty Period	
5.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
6	Installation and Commissioning	
6.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
8	Documentation	
8.1	User (Operating) manual in English.	



TECHINICAL SPECIFICATION FOR CRASH CART

	TINZ 002/02)	Bidder's Compliance Sheeet	
S.N Purchaser's Specifications(F/Y:082/83)		
Crash cart			
Manufacturer:			
Brand:			
Type/Model:			
Country of Origins			
Crash Cart is a set of trays/dr	awers/shelves on wheels used in hospitals for		
transportation and dispensing	of emergency medication/equipment at site of		
1.1 medical/surgical emergency f	or life support protocols potentially to save a		
patient's life.	15.0 (C)		
2 Operational Requirements			
2.1 Stainless steel trolley on stain	aless steel tubular frame.		
3 System Configuration			
Cresh Cart with removable co	ploured bins, storage units, fitted with oxygen		
3.1 Clash Cart with Temovable et	mp holder and four swivels castors.		
cylinder noider and electric in	mp noider and rear swittens		
4 Technical Specifications 4.1 Dimensions: approx. 900mm	I = 500mm W = 1500mm H		
4.1 Dimensions: approx. 900mm	L x 300mm W x 1300mm 11.		
4.2 Stainless steel top and shelf &	c equipped with atleast 6 removable coloured		
bins made of moulded plastic			
Lockable storage units = 3 dr	awers (stainless steel or moulded plastic).		
4.3 Wood or wood laminate co	nstruction drawers are NOT acceptable.		
Wood of wood failthfate co.	istruction drawers are 11.02 mersp		
		,	
To be fitted with stainless ste	el, height adjustable, twin hook/loop, IV pole		
assembly.			
assembly.			
= u 200 1	s/wheels, size 125mm dia with at least one		
4.5 Fully, 360 deg. swivel castors	S/Wheels, size 125mm tha with at least one		
castor/wheel to have locking/	brake mechanism.		
4.6 Top shelf to have stainless sto	eel guard rail above surface.		
4.7 Fitted with epoxy powder coa	ated oxygen cylinder holder and electric lamp		
I holder with clamp and cardia	c massage board.		
4.8 Must be capable of carrying l	ECG Monitor/defibrillator and other		
4.8 apparatus.			
5 Accessories, spares and con	sumables		
equipment, including all stand	dard tools and cleaning and lubrication		1
5.1 materials to be included in th	ne offer. Bidders must specify the quantity of		
every item included in their o	ffer (including items not specified above).		
Operating Environment			
The product offered shall be	designed to be stored and to operate normally		
I he product offered shall be	urchaser's country. The conditions include		1
5.1 under the conditions of the pu Climate, Temperature, Humi	dity etc		
Chimate, Temperature, Flumi	uramente		
7 Standards and Safety Requ	0.12495;2003/AC;2007 AND		
7.1 Must submit ISO 9001 or IS			1
7.2 CE or USFDA approved pro	duct certificate.		
8 User Training			
8.1 Not applicable.			
9 Warranty			
9.1 Comprehensive warranty for			-
10 Maintenance Service Durin			
10.1 Standard warranty conditions			-
11 Installation and Commissi			
11.1 Must supply preassembled u	nit, ready to use.		
12 Documentation	0.53		
12.1 User's manual shall be suppl			



Specification of Dressing Trolley

S.N.	Purchaser's Specifications,f/y-082/83	Bidder's offer
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
	The frame work made of S.S tubes and two S.S 2	
1.1	shelves with S.S raling on all four sides.	
1.2	The trolley fitted S.S bucket and S.S bowl	
1.3	The trolley mounted on 100 mm (4") diagonal locking castors	
1.4	Should have trolley mounted 125 mm (5") diagonal locking castors	7
1.5	Over all size 30L X 18W X 32"H	
1.6	It should be finish SS frame SS Shelves with SS basin & bucket	
2	Accessories, spares and consumables	
2.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
3	Standards and Safety Requirements	
_	Must submit ISO 13485 for Medical Devices	
3.2	Must submit CE (93/42 EEC Directives) approved product certificate .	
4	Warranty	
4.1	2 year comprehensive warranty should be provided.	
5	Maintenance Service During Warranty Period	
5.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
6	Installation and Commissioning	
6.1	The bidder must arrange for the equipment to be	



TECHINICAL SPECIFICATION FORBED SIDE LOCKER

S.	N Purchaser's Specifications(F/Y:082/83)	Bidder's Offer
	BED SIDE LOCKER	
	Manufacturer:	
	Brand:	
	Type/Model:	
	Country of Origin:	
1.	A bedside locker simplifies the work of the caregiver and it enhances the comfort and autonomy of the patient in terms of accessibility, convenience and storage capacity.	
1 9	2 Operational Requirements	
	All metal construction (machine pressed CRCA steel sheets) with heavy duty anti- corrosive and antirust treated epoxy powder coated .Legs Mild steel tubular construction epoxy powder coated treated	
	3 System Configuration	
3.	Bedside cabinet/locker, complete unit.	
	Technical Specifications(approx.)	
	Feet to be capped with heavy duty plastic buffers.	
4.2	Overall approximate size 820mm H x 400mm W x 400mm L	
4.3	Fitted with superimposed stainless steel top. Top to have lip or edge or retaining rail to prevent items slipping off, Finish must be smooth.	
4.4	With stainless steel towel rail.	
4.5	Bedside lockers provided with one storage cabinet and single draw under the top and space for keeping utilities.	
5	Accessories, spares and consumables	
5.1	Not applicable.	
6	Operating Environment	
.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND	
7.2	CE or USFDA approved product certificate.	
	User Training	
100	Not applicable.	
	Warranty	
	Comprehensive warranty for 2 year.	
	Maintenance Service During Warranty Period	
	Standard warranty conditions are applicable.	
- 1000	Installation and Commissioning	
	Must supply preassembled unit, ready to use.	
	Documentation	
_	Not applicable.	

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TECHINICAL SPECIFICATION FOR ICU BED (ELECTRIC)

325760	Purchaser's Specifications(F/Y:082/83)	Bidd	ler's Compliance	Sheeet
S.N	I.C.U bed (electric)	Yes/No	Page No. in Catalogue	Remarks
	Manufacturer			
	Brand			e e e e e e
	Type/Model			
	Country of Origin			
1	Description of Function			
	ICU Beds are required in the Intensive Care for comfort of the patient and to facilitate comfortable transfer to and from emergency/OT/Wards etc. It is also	ii .		
1.1	required to carry out point of care procedures including radiological procedures at the bedside.			
2	Operational Requirements			
	The system must be electrically operated and adjustable height and tilt.			
3	System Configuration			
	Electrically operated ICU bed with mattress.			
	Technical Specifications			
_	Must have four section mattress base			
	Must have X-Ray compatable with X-Ray cassette holder. Base frame & support frame must be made up of steel.			
7	Should have step less electrical adjustment for the following(approx.)			
- 1	Height: 390-7700 mm			
4.4	Back section: 0-50 ^o			
1	• Leg Section : 0-30°		P. C	THE PERSON NAMED IN
	Must have step less pneumatic adjustment for Trendelenburg (12° approx.), anti-			
4.5	Must have a manual quick release mechanism for back section adjustment during			
7.5	emergency situation			
4.7	Must be equipped with four articulated half-length tuck away side rails			Language Control
	Must be equipped with large castors (diameter approx. 125 mm) with central			restanting to
1	braking and steering facility.			-
4.9 f	ICU Bed should have 4 actuaters with wired hand set for patient. It should have function of back rest ,kneerest,hi-low ,trend/rev trend and electronic CPR in			
4 1 N	nandset Mattress of the bed must be made up of high density foam with Anti-Microbial			
a	gent incorporated into all components.			
_	Mattress must be fully radiolucent.			
l N	Must have bumpers at all four corners and place for fixing accessories			-
.12 b	Must have CPR quick release handle ergonomically located at the head end of the led.			
I	Dimensions of bed (approx. ± 10%):			
	• Length: 2000 mm			
.12	• Width: 1020mm			
	 Mattress Size: appropriate as per bed size, thickness at least 10cm 			
	Accessories, spares and consumables	-		
A	Accessories:			
F	I.C.U Bed Mainframe -01 Bed Ends, detachable : 01 pair			
5.1	Articulated half-length tuck away side rails: 04 Nos.		-	
	IV Rods: 01 No.		-	
	Mattress 10 cm Thick : 01 No.		-	
			-	
5.2 N	All standard accessories/consumables/parts required for the proper operation of the bove item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
	Operating Environment			
T	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate,			
1	Temperature, Humidity. etc.			
6.2 P	ower supply: 220 - 240 VAC, 50Hz fitted with appropriate plug. The power cable			
7 6	must be at least 3 metre in length. Standards and Safety Requirements			
	Aust submit ISO13485.and			
	CE or USFDA approved product certificate.			*****
7 2 0	Certified to be compliant with IEC 60601-2-38 Medical Electrical Equipment part			
2	2-38 Particular requirements for safety of Electrically Operated Hospital Beds.			
	Jser Training			
_	Aust provide user training (including how to use and maintain the equipment).			
	Varranty			
	Comprehensive warranty for 2 years after acceptance.			
	Maintenance Service During Warranty Period			
0.1	Ouring the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
	nstallation and Commissioning			
T	The bidder must arrange for the equipment to be installed and commissioned by			
1.1 0	ertified or qualified personnel; any prerequisites for installation to be			
a	ommunicated to the purchaser in advance, in detail.			
12 D	Occumentation			
2.1 U	Jser (Operating) manual in English.			
	ertificate of calibration and inspection from factory.			

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.



TECHINICAL SPECIFICATION FOR INSTRUMENTS TROLLEY

S.N	Purchaser's Specifications(F/Y:082/83)	Bidder's Compliance Sheet
-	Trolley, INSTRUMENTS	
	Manufacturer:	
	Brand:	
_	Type/Model:	
	Country of Origin:	
	Description of Function	
- 1	An instrument trolley for laying out surgical	
1.1	instruments in the operation theatre	
2	Operational Requirements	
2.1	Stainless steel instruments trolley with swivel castors.	
2.1	System Configuration	
2.1	instrument Trolley, complete unit.	
3.1	Technical Specifications	
4	It shall be constructed fully with 304 grade	
4.1	1	West 9000
	Overall size: approximately 900 H x 450 W x	
4.2	COOL	
-	680 L mm It shall be have 2 tiers of grade 304 stainless 1. L.	
4.3	steel shelves each provided with protective railings on three sides	
-	Steel shelves each provided with protective fallings on three stees	
	On three sides of shelves 20 mm upright	
4.4	lips/rail. Fourth side to have turned down	
4.5	edge	
4.5	Shall have push/pull handle Shall be mobile on 4 x 50mm diameter	
4.6	(approx.) robust 360 deg. swivel castors with	
	non-marking grey tyres and with at least 2	
	diagonal castors shall have brake	
- 3	Accessories, spares and consumables To be supplied with all standard accessories, spares and consumables for	
5.1	10 be supplied with all standard accessories, spaces and consumations for	
	complete functionality of the product.	
- N	Operating Environment The product offered shall be designed to be stored and to operate normally	
<i>c</i> 1	under the conditions of the purchaser's country. The conditions include	
0.1	Climate, Temperature, Humidity, etc.	
71	7 Standards and Safety Requirements	
	1 Shall be certified to meet ISO 9001 or ISO 13485:2003/AC:2007 and	
	2 CE approved product certificate.	
- 1·	8 User Training	
8	1 Not applicable.	
- 3	9 Warranty	
9	.1 Warranty for 2 year after acceptance.	
	10 Maintenance Service During Warranty Period	
	.1 Standard warranty conditions are applicable.	
_	11 Installation and Commissioning	
	.1 Must supply preassembled unit, ready to use.	

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Specification of IV Stand

-	Specification of	Bidder's offer
s.N.	Purchaser's Specifications (f/y-082/83)	- Blucer 3 Office
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
1.1	Five pronged base fitted with 50mm (2") castors	Andrew Carrier Control of the Contro
1.2	12mm inner SS rod woth double hook	
1.3	Hight adjustable	
1.4	Should have in knock down construction	
1.5	Must be SS Pipe with Plastic Base	
2	Accessories, spares and consumables	
	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
3	Standards and Safety Requirements	
21	Must submit ISO 13485 for Medical Devices	
3.2	Must submit CE (93/42 EEC Directives) approved product certificate.	
4	Warranty	
4.1	Warranty must be 2 year	
5	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
6	Installation and Commissioning	
6.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
8	Documentation	
8.1	User (Operating) manual in English.	

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Specification for Patient Transfer board

S.N.	Purchaser's Specifications	Bidder's offer
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
	Should be a patient transfer board/system suitable for transferring	
1.1	patients safely between beds, trolleys, operation tables, and X-	
	ray/fluoroscopy tables.	
1.2	Should have an overall size of approximately 1700 mm (L) × 500 mm	
1337	(W).	
1.3	Should be made of high-quality Nylon and Plywood materials with water-	
1.5	resistant properties for long-term hospital use.	
1.4	Should have a maximum load-bearing capacity of at least 200 kg.	
1.4		
1.5	Ergonomically designed to reduce strain and effort for nursing staff	
1.5	while ensuring patient safety and comfort during transfer.	
1.6	Should have a smooth, non-staining surface that is easy to clean and	
1.0	maintain in hospital conditions.	
2	Accessories, spares and consumables	
	All standard accessories, consumables and parts required to	
	operate the equipment, including all standard tools and cleaning	
2.1	and lubrication materials, to be included in the offer. Bidders	
	must specify the quantity of every item included in their offer	
	(including items not specified above).	
3	Standards and Safety Requirements	
3.1	Must submit ISO 13485 for Medical Devices	
3.2	Must submit CE (93/42 EEC Directives) approved product	
5.2	certificate.	
4	Warranty	
4.1	2 year comprehensive warranty should be provided .	
5	Maintenance Service During Warranty Period During the warranty period supplier must ensure	
5.1	IDuring the warranty period supplies	
3.1	corrective/breakdown maintenance whenever required.	
6	Installation and Commissioning	
	The bidder must arrange for the equipment to be installed and	
6.1	icommissioned by certified of qualified participation	
0.1	prerequisites for installation to be communicated to the	
	purchaser in advance, in detail.	



X-Ray View Box (LED) - DOUBLE

S.N.	Purchaser's Specifications (f/y-082/83)	Bidder's offer
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description and Specification	
1.1	Frame work should be madeup of Aluminium Sheet.	
1.2	Should be provided features with : On/Off, Lux intensity adjustable by dimmer.	
1.3	Thickness should be approx 45mm	
	Dimensions(approx.): 850*512*47 mm	
	Accessories, spares and consumables	
2.1 r r i	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
3 9	standards and Safety Requirements	
3.1 N	Must submit ISO 13485 for Medical Devices	
/. ~	Must submit CE (93/42 EEC Directives) approved product certificate.	
	Varranty	
	year comprehensive warranty should be provided.	
5 N	Maintenance Service During Warranty Period	
.1 c	Ouring the warranty period supplier must ensure orrective/breakdown maintenance whenever equired.	
6 lı	nstallation and Commissioning	
.1 q	he bidder must arrange for the equipment to be installed and commissioned by certified or ualified personnel; any prerequisites for installation to be communicated to the purchaser	

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