1 Washer Machines for Sterilization

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
Ш	Country of Origin:	
:	Description of Functions	
1.5	Washer Disinfector, single door, suitable for cleaning and disinfection of surgical instruments, anaesthetic equipment, suction bottles, cleaning buckets, general circulation goods, dental tray and glassware with a fully closed process.	
	System Configurations	
2.5	The washer disinfector, fully automatic, should have an advanced micro-processor which controls all services, programming and statistic functions. For safety reasons the service and programming functions should be coded.	
2.7	The door should be provided with interlocking system.	
2.5	The Chamber made of stainless steel 5.S.304	
2./	The chamber should be equipped with four spray arms which ensure good water penetration from all directions.	
2.5	Various attachments should be provided to suit the load to be washed. Suitable dosage of detergent to be preset with the dosing pump.	
2.6	The provision of a double wall with insulation in between enables the Washer Disinfector to run with minimum sound and heat emission.	
	The wash chamber, the inside the door, the pipework system and the circulation arms should be made entirely of stainless steel.	
2.8	Suitable for electrical operation on 400/440 volts, 3 phase, AC supply, electrical load 13 KW	
2.9	Should have the capacity of 250–275 ltrs.	
	3 Training	
3.1	Must provide user & service training.	
	Warranty	
4.1	Comprehensive warranty for 2 years.	
	Maintenance Service During Warranty Period	
5.1	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
6.1	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
6.7	2 Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
6.7	List of important spare parts, accessories and consumables with their part numbers and costing.	

6.3 List of important spare parts, accessories and consumables with their part numbers and costing.

2 laparoscopy Tower

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	riii your specification
	manuscurer vanie. Model No.:	
	modernos. Country of Drigin:	
	Description of Functions	
1.1	Laparoscopic Tower Machine for Urology Department	
2	Technical Specifications	
	MONITOR:	
	At least 27" FULL HD Monitor	
	Screen resolution 1920 x 1080 or better	
	Image format 16: 9	
	Video inputs: 2x DVI, 1x 3G-SDI, 1x VGA, 1x S-Video, 1x Composite	
	Video outputs: 1x DVI), 1x 3G-5DI, 1xComposite, including: 1x External 24 VDC - Power Supply 1x Mains Cord 1x Cable Cover 4x Mounting Screws M4	
	FULL HO CAMERA SYSTEM 1. With at least 2 camera inputs	
	1. with at least 2 camera inputs 2. Pulp and play	
	£ rug ain yey 3. Cross disciplinary	
	4. Compatible with rigid. flexible and single use endoscope	
	5. Easy control of menu via keyboard, mouse and camera head buttons	
	6. Patient data entry possible	
	7. Documentation via internal memory of 50GB and external storage medium – USB	
	8. 2 x DVI outputs	
2.3	Inclusion:	
	1. 1 main cord, 300 cm	
	2. 1 DVI-D connecting cable, 300 cm	
	3. 1 USB Flash Drive – 32 GB	
<u></u>	4. 1 USB Silicone Keyboard with touchpad CAMERA HEAD	
<u></u>	1. One-Chip FULL HD Camera Head 1920 X1080 pixels, 50/60 Hz	
<u></u>	2. Fixed focus, progressive scan, focal length f= 16	
-	3. Freely programmable camera head buttons	
\vdash	4. Standard eyepiece adaptor	
-	5. Soakable, EQ gas and hydrogen peroxide sterilizable Meight a new growth 310 growth and 120 g	
-	6. Weight a not more than 130 g. 7. Plastic Container, for Sterilization and Storage of camera heads, autoclavable, suitable for use with steam, gas and hydrogen peroxide sterilization, compatible with existing sterilization system	
	7. Plastic Container, for sterilization and storage or camera neads, autociavable, suitable for use with steam, gas and nydrogen peroxide sterilization, compatible with existing sterilization system TELESCOPE:	
	INLESCUPE: Forward-Oblique Telescope 30°, enlarged view, diameter 10 mm, length at least 31 cm, autoclavable, fiber optic light transmission incorporated, color code: red	
	To water-bungter rejectors of , emarged view, utameter 10 mini, rengin at reast 51 cm, autoculavable, niver opuc right transmission incorporated, color code, red LIGHT SOURCE:	
2.3	1. Cold Light Fountain Power LED 175, high- performance LED and one light outlet, including: Mains Cord Connecting Cable.	
	2. Fiber Optic Light Cable, with straight connector, extremely heat-resistant, enhanced light, transmission, diameter 4.8 mm, length at least 250 cm	
2.6	INSUFFLATOR:	
	1. Insufflator, with integrated Insufflator module, consisting of: Insufflator Connecting Cable, length 100 cm, Universal Wrench Insufflation Tubing Set, heatable, with gas filter, sterile, for single use, package of 10	
	2. Insufflation Tubing Set with Gas Filter, heated, 3m, hydrophobic on both sides, for single use, sterile, package of 10	
	3. Insufflation Tubing Set, reusable, sterilizable, heatable, 2.65m	
	4. Gas Filter, with connectors, hydrophobic on both sides, for single use, sterile, package of 25, for use with insufflation units with a maximum gas flow of 50 l/min	
	5. CO2 High Pressure Tube, length at least 102 cm	
2.7	IRRIGATION:	
	1. Fluid Management System	
	2. Interdisciplinary single roller pump for irrigation or suction with TFT (Thin Film Transistor) touch screen	
	3. Modular design can support basic functionalities across various fields of application.	
	4. Pump can be equipped with various software modules for multiple disciplines such as Lap, Hysteroscopy, Urology, Arthro and Spine.	
_	5. Tubing set recognition, color coded tubing sets for clear identification. One hand installation of cassette Cartridge locking lever	
	6. HYS Irrigation pressure: 20 to 150 mmHg	
	7. HYS Irrigation flow rate: 200 to 600 ml/min	
	8. Urology Software License, for cystoscopy, resection, UKS and PCPAL 9. Advanced Software License, for cystoscopy, resection, UKS and PCPAL 9. Advanced Software License for excenteded functions of installed software	
-	9. Advances contware incense for extensed functions of installed software 10. Tubing Set, Irrigation, PC, sterle, for single use, package of 10 10. Tubing Set, Irrigation, PC, sterle, for single use, package of 10	
-	10. Houng Set, Impation, Pet, Series, also single use, package of 10 11. Tubing Set, Prigation, Pet, Series, also single use, package of 10 11. Tubing Set, Prigation, Pet, Series, also single use, package of 10	
2.8	11. Tuong 2-tt, Trigatum, r-t, reusature, stermature EQUIPMENT CART:	
2.0	1. Equipment Cart, wide, tall, rides on 4 antistatic dual wheels equipped with locking brakes, mains switch on cover, energy beam with integrated electrical sub distributors with 12 sockets, grounding plugs	
	2. Dimensions in mm (w x h x d): Equipment cart. At least 830 x 1474 x 730; Shelf: At least 630 x 25 x 510; Caster diameter: At least 150 mm, consisting of: Base Module, equipment cart, wide, cover, equipment cart, wide Beam Package, equipment	
	cart, tall with 3 Shelves, wide Drawer Unit with Lock, wide Equipment Rail, long Camera Holder 2x Mains Cord, length 100 cm	
	3. Monitor Swivel Arm, height and side adjustable, can be mounted on the left or on the right side, swivel range 180°, reach 780 mm, from center 1170 mm, loading capacity max. 15 kg, with monitor mount, for use with Equipment Carts	
	4. Sub rack for Mobile Stand, low, rides on 4 antistatic dual wheels, with locking brakes, low beam module incl. cable manager and handle, dimensions in mm (w x h x d): 670 x 1019 x 677, consisting of: Base Module for Mobile Stand Beam Module for	
	Mobile Stand, small	
	5. CO2 High Pressure Tube, connection, length 102 cm	
2.9	LAPAROSCOPIC HAND INSTRUMENTS:	
	1. Grasping Forceps, rotating, dismantling, without connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, double action jaws, fenestrated, with especially fine atraumatic serration, size 5 mm, length 36 cm, consisting	
-	of: Metal Handle, with dis engageable ratchet Metal Outer Sheath, insulated Forceps Insert	
1	2. Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, atraumatic, fenestrated, curved, single action jaws, consisting of: Plastic Handle, with hemostat style ratchet Outer Tube, insulated Forceps Insert	
-		
1	3. Bowel Grasper, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, fenestrated, double action jaws, consisting of: Plastic Handle, with hemostat style ratchet outer tube, insulated Forceps Insert	
	4. Claw Forceps, 2 x 3 teeth, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, single action jaws, consisting of: Plastic Handle, with ratchet, with larger contact area outer tube, insulated Forceps Insert	
	5. KELLY Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action jaws, consisting of: Plastic Handle, without ratchet, with larger contact area Outer Tube, insulated Forceps Insert	
	6. METZENBAUM Scissors, rotating, dismantling, with connector pin for unipolar coagulation, with LUER-Lock connector for cleaning, double action jaws, curved, length of jaws 15 mm, size 5 mm, length 36 cm, consisting of: Plastic Handle, without	
1	to the Laterbook accessors, recentling uninstance part of many accessors and the finger ring Metal Outer Sheath, installed Forces Insert	
L	7. Macro Needle Holder, with tungsten carbide insert, ergonomic pistol handle with disengageable ratchet, ratchet position left, jaws curved to left, size 5 mm, length 33 cm, for use with suture material size 0/0 to 7/0 and needle sizes BV, SH or CT-1	
	8. Macro Needle Holder, ergonomic pistol handle with disengageable ratchet, ratchet release on the right side, right curved jaws, with tungsten carbide insert ø 5 mm, length 33 cm	
	9. Coagulating and Dissecting Electrode, L- shaped, with connector pin for unipolar coagulation, size 5 mm, working length 36 cm	
oxdot	10. Suction and Irrigation Tube, with lateral holes, anti-reflex surface, with two-way stopcock for single-hand control, size 5 mm, length 36 cm	
1 -	11. Suction and Irrigation Handle, with suction tube and irrigation/suction probe, sterile, for single use, package of 10, contains the Irrigation/Suction Probe for use in combination with irrigation tubing sets with patient-side silicone tube (inner	
	diameter 5 mm)	
	12. Unipolar High Frequency Cord, with 8 mm plug, length 300 cm, for use with HF units	
<u> </u>	13. Bipolar Clamping Device Jaw Sealer	
<u> </u>	14. Bipolar Clamping Device Blunt Tip Open Sealer/Divider 5 mm, nano coated – 23 cm	
	15. Bipolar Clamping Device Blunt Tip Laparoscopic Sealer/Divider 5 mm, nano coated – 37 cm	
-	16. Bipolar Clamping Device Maryland Jaw Laparoscopic Sealer/Divider 5 mm, nano coated – 23 cm	
	17. Bipolar Clamping Devices Manyland Jaw Laparoscopic Sealer/ Divider 5 mm, nano coated – 37 cm	
2.9	URETERO-RENOSCOPE SET L'Interterorescopes FT with 2 working channels 43cms:	
\vdash		
	2. Uretrorenoscope 9.5fr 43cms; Ureteral forceps 3fr 60cms PERROY DEVICE	
2.10	ENERGY DEVICE	1

	1. Energy Platform	
	2. Automatic Voltage Regulator (Max. Capacity: 2000 Watts)	
	3. Electrosurgical Device capable of monopolar hemostasis and dissection	
2.11	SWITCH	
	1. Monopolar Footswitch	
	2. Bipolar Footswitch	
	3. Clamping device footswitch	
2.12	MISCELIANEOUS:	
	1. Cautery button switch pencil cord with holster	
	2. Cautery pads	
3	Operating Environment	
3.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
3.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
4	Standards and Safety Requirements	
4.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2	CE (93/42 EEC Directives) or USFDA approved product certificate.	
5	User Training	
5.1	Must provide user training (including how to use and maintain the equipment).	
6	Warranty	
6.1	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
7.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
8	Installation and Commissioning	
8.1	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.	
9	Documentations	
9.1	User (Operating) manual in English.	
9.2	Service (Technical / Maintenance) manual in English.	
9.3	List of important spare parts and accessories with their part numbers and costing.	

Fill your Specification Straight roward to Euch property of Straight roward to Euch provided Straight Research provided Steel Straight Research Plastic Container, for steel Straight Research provided Steel Straight Research Plastic Container, for Steel Straight Research Research Plastic Container, for Steel Straight Research Resear

Pediatric Endourology Set

3

Cleaning Adaptor
Insertion Aid
Tray
Instrument Port with Sealing System and Quick Release Lock 2 channels, 1 straight channel, 1 lateral channel
Forcess for grassing stone fragments, ried, double action laws, 3 Fr., length 60 cm
Operating Environment
The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%
The unit shall be capable of obeing stored continuously in ambient temperature of -5°C-40°C and relative humidity of 10-95%
Standards & Safety Requirements
Must submit IS013485-2003/Ac-2007 for Medical Devices AND
CC (39/42 EEC Directives) or USFDA or TUV approved product certificate.

Warranty
Comprehensive warranty for 2 years. 4 Pneumatic and Ultrasonic Lithotripsy System

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	Tim your opecinication
	Manuacture i vanie.	
	Inductive Country of Origin:	
	Specification of Functions	
	Description or Trustacions Combined (Pneumatic and Ultrasonic) lithotriosy unit	
	Technical Specifications	
	recurriant specimentoris	
	a. unit to generate energy for lithotripsy through shockwave during PCNL, cystoscopy and ureteroscopy, Adjustable pulse frequency; should work on power supply of 200-220 V; Ultrasound lithotripsy system; Ultrasound frequency 24 - 26 KHz;	
2.2	Air compressor unit (integrated or separate) to generate pressure energy (8 bars) with tubing;	
2.3	Handpiece for pneumatic lithotripsy with tubing- Two numbers	
2.4	Handpiece for Ultrasound lithotripsy system with connection cable	
	Footswitch/footswitches to operate the devices	
2.6	Pump suction system with tubing and suction bottle	
	Appropriate Sterilisation tray	
	Wrench	
2.9	Connecting cables, tubing and adaptors to make the unit functional	
2.1	Pneumatic probes (2 each) -	
	a. 575-605 mm length; 1.6mm, 1mm & 0.8mm	
	b. 375-500 mm length; 2mm, 1.6 -3.2mm & 1mm	
2.11	Ultrasound probes(2 each)	
	i. 400-403mm length; 3.5- 3.8mm & 3- 3.3mm	
	ii. 300-330mm length; 3.3-3.5mm & 3.5-3.8mm	
	iii. 570- 573mm length; 1.5mm	
	iv. 360-370 mm length; 1.5-1.9mm	
2.12	All major items including trolley should be from same manufacturer	
2.13	Price of each individual items should be quoted separately for easy purchase of spares, if needed, at later date for smooth functioning of instrument.	
2.14	Standard Accessories: The quotation should clearly mention the accessories (including quantity) which are part of the main equipment and the price of which is included in the main equipment. The equipment should be fully functional with the standard accessories.	
3	Operating Environment	
3.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
3.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
4	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2	CE (93/42 EEC Directives) or USFDA approved product certificate.	
5	User Training	
5.1	Must provide user training (including how to use and maintain the equipment).	
6	Warranty	
6.1	Comprehensive warranty for 2 years after acceptance.	
7	Maintenance Service During Warranty Period	
7.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Installation and Commissioning	
8.1	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.	
	Documentations	
9.1	User (Operating) manual in English	1

9.2 Service (Technical / Maintenance) manual in English.	
9.3 List of important spare parts and accessories with their part numbers and costing.	

5 Complete Urology Tower

5		Complete Urology Tower	1
N	lo.	Item Specifications	Fill your Specification
-		Manufacturer Name:	
-		Model No.:	
-		Country of Origin:	
_		Description of Function	
-		For complete urology system and surgey procedure	
		Operational Requirements	
_		System complete with thin flexible camera (endoscope)	
_		System Configuration	
		As specified	
_		Technical Specification	
	4.4	Trolley:	
		Customized, imported, epoxy powder coated/ stainless steel tower	
		Portable on 4 antistatic, antirust, 360o swivel dual castors, 2 with brakes.	
		Shall have at least four shelves	
		Adjustable arm for fixing a flat monitor.	
		One drawer unit with lock and key.	
		Camera holder	
		Shall have excellent cable management system.	
		Power box with concealed wiring for providing electrical connections of proper rating to all the units.	
		Features of Full HD Endoscopic Camera and Camera Control Unit	
		The system shall be truly Digital Full HDTV endoscopic video camera.	
		The system should have the maximum Resolution of 1920 X 1080 pixels, progressive scan and the consistent use of 16: 9 formats for Input & Output to guarantee genuine Full HDTV.	
Ε.		The system shall have following features:	
		. Visibly Improved Imaging: CCD sensing chip should optimize image quality & Digital Source Sampling thus maximizing hi-fidelity image transmission.	
	-1	ii. Optimizes to Any Size: The system should have Optical Zoom with 2x parfocal zoom lens to enhance the quality of mage size & cross specialty standardization of the camera system, regardless of the telescope used	
\vdash			—
\vdash		iii. Plug and Go: The system should automatically optimize all settings. The nathan should be result to you are compared it is composed and the compared positive in the c	
\vdash		The system should be ready- to-use as soon as it is connected to the camera control unit.	
- 1		iv. USB Port for Capturing FULL HD Videos/ HD Still Pictures: Captured digital images in format 16:9 can be displayed on WideView monitors in the same full HD format without being converted in order to prevent a loss if image quality caused by	1
\vdash		mage stretching.	
\vdash		v. Integrated digital imaging processing module for a 5 level brightness regulation and 2 electronic anti-moirée filter for fiberscopes.	+
—		vi. Parallel live display of visualization modes besides white light mode (picture-in-picture).	
\vdash	- 1	vii. Up to three different camera modules can be connected to the FULL HD video processor module	
\perp		xiii. Side-by-side live display of visualization mode next to white light image (picture-in-picture).	
\perp		ix. Integrated picture-in-picture mode of two different camera modules in five different display sizes available.	1
		k. Primary and secondary signal source change in picture-in-picture mode can be performed easily via camera head button.	
		xi. Changes in visualization modes, device control, digital zoom, brightness, video capture, still image capture and direct print orders, picture-in-picture mode, image direction, white balance and setup settings can be performed in sterile area via	
		camera head buttons.	
		kii. Short starting time and customizable parameter adjustment.	
		iii. Grid and pointer can be displayed for improved orientation and communication during surgery.	
		idi. Grid and pointer can be displayed individually and together.	
\vdash		w. Cut and pointer can be upgarget an introduction and together. w. 2 digital zon, adjustable in 5 levels.	
\vdash			
\vdash		vi. Possibility of 180' image rotation.	
-		xvii. Possibility of vertical and horizontal image mirroring. Storage of up to 20 individual presets.	
-		xviii. System overview is individually configurable and setup status can be directly displayed with intelligent icons.	
<u> </u>	i	ix. Parameter setup can be adjusted during surgery.	
	:	ex. In combination with a compatible three-chip FULL HD camera head the following modes can be activated without special light sources or filters:	
		a. Brightening of dark areas in the endoscopic image.	
		b. Dynamic contrast enhancement	
	4.4	Modular design: Digital FULL HD camera module that should be compatible for use with video flexible endoscopes.	
	4.5	Camera control unit with camera head: 1 set	
		. Image Sensor: 3X1/3" CCD-Chip.	
		ii. Pixels : 1920 x 1080	
		ii. AGC : Microprocessor Controlled	
		w. Lens : Integrated Zoom Lens f = 15-31 mm (2x optical zoom)	
		w. Minimum light sensitivity: 17 Lux (f = 1.4 mm).	
-		. minimum ngri, seriatury:2	
-			
-		ii. Up to three different camera modules can be connected to the FULL HD video processor module input for communication with compatible camera modules, LAN connection, 4 x USB connection (2 x front, 2 x back).	
- 1-		viii Input: Keyboard input for character generator. 5- pole DIN socket.	
-	4.6	Full HD 16: 9 widescreen Medical Grade Monitor LED	
\vdash	li	. Full HD TFT Flat Screen 3d Monitor with stand size 32",	+
—		i. Aspect Ratio: 16:9 HD format	
—		ii. Brightness : 650 cd/m2	
\vdash		v. Contrast ratio: 1400 : 1	
L	,	v. Screen Dimensions : 760 x 463 x 96mm	
L		vi. Video Inputs : 2* DVI-D, 2* 3g-SDI, 1* Analog rgb(via vga), 1* s-video, 1*composite, 1*component-240 VAC	
	,	vii. video Outputs: 2* DVI-D, 2* 3g-SDI, 1* s-video, 1*composite, 1*component	
	,	viii. Accessories External 24VDC Power Supply, Mains Cord, monitor stand, 3* 3d Polarisation g	
	4.7	light source:	
	T:	Shall have long-life LED light source.	
		a. Lamp: 150 W	
		b. Shall have lamp with minimum: 30,000 hours or more	
		:. Must have color Temperatures 6000K or more	
		d. Facility of standby mode.	
		Light intensity adjustment continuously adjustable from 0 to 100% manually as well as fully automatically by the cameras video output signal.	
	- 1	. Universal jaw assembly to adapt cable of any make of fibre optic cable without adapter.	
	- 1	. Omers all aw assenting to disagn, contain y laws or in any laws	
\vdash	- '	R. Trute opin ignit cause to size action to a abpropriate with the system in diameter and religin 250-300 cm, the same most also be near-resistant., with safety locking device Accessories, pages and consumables	
\vdash		Aucusourus, spares and usinsminables/parts required for the proper operation of the above item shall be included in the offer. All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
-		Au standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Docarating Environment	
\vdash			+
\vdash	0.1	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	+
\vdash		The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	+
\vdash		Power supply:	
\vdash		Input power supply: 220/240 V AC , 50Hz single phase schuko plug	+
—		Standards and Safety Requirements	
		Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
\perp		CE or USFDA or TUV approved product certificate.	1
		Training	
L	9.1	Must provide user & service training.	
		Warranty	
		Comprehensive warranty for 2 years after acceptance.	
		Maintenance Service During Warranty Period	
1		Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
r	12	Documentation Documentation	1
		DOCUMENTATION DOCUME	1
		USEN (Depending), Interioral in English Should provide 2 sets (hardcopy and soft-copy) Service (Technical / Maintenance) annual in English Should provide 2 sets (hardcopy and soft-copy)	
	14.5	list of important spare parts, accessories and consumables with their part numbers and costing.	——

6 Endourology Set for Adult

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	II Model No.:	
	Il Country of Origin:	
	Telescopes	
	Straight Forward Telescope 0", enlarged view, ø 4 mm, autoclavable, fiber optic light transmission incorporated.	
	Forward-Oblique Telescope 30°, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated.	
	Telescope size 70	
	Plastic Container for Sterilization, especially suited for hydrogen peroxide sterilization and storage, perforated, with lid, external dimensions approx: (w x d x h): 446 x 90 x 45 mm, for use with two rigid endoscopes up to max. 32 cm working length	
	Cystoscopy Set	
	Cystoscope-Urethroscope Sheath, 22 Fr.,consisting of: Sheath Obturator and 2 LUER-Lock cones	
	Cystoscope-Urethroscope Sheath, 19 Fr., consisting of: Cystoscope-Urethroscope Sheath Obturator and 2 LUER-Lock Cones	
	Cystoscope-Urethroscope Sheath, 17 Fr., consisting of: Cystoscope-Urethroscope Sheath Obturator and 2 LUER-Lock Cones	
	Telescope Bridge with 2 lockable instrument channels	
	Grasping Forceps for removal of foreign bodies, 7 Fr. double action jaws, flexible, length 40 cm	
	Biopsy Forceps, 7 Fr., double action jaws, flexible, length 40 cm	
	Grasping Forceps, for Foreign Bodies, 5 Fr., double action jaws, flexible, length 40 cm	
	Biopsy Forceps, 5 Fr., double action jaws, flexible, length 40 cm	
	VIU Set	
	Working Element for use with optical Urethrotome. Motion by means of a spring. The thumb support is movable. In rest position, the electrode is inside the sheath.	
	Urethrotome Sheath, 21 Fr., with channel for bougies consisting of: Urethrotome Sheath and 2 LUER-Lock cones	
	Obturator, for urethrotome sheath, 21 Fr.	
1	Telescope Bridge, with channel for instruments up to 5 Fr.	1

	Supplementary Sheath, half-round, to insert a balloon catheter, to slip on urethrotome sheath	
	Supplementary Sheath, for continuous irrigation and suction, to slip on Urethrotome Sheath consisting of: 2Supplementary Sheath Sealing cap and LUER-Lock cones	
	Cold Knife straight	
	Protection Tube, for sterilization and storage of electrodes, loops, curettes and knives	
	TUR Set (Monopolar & Bipolar)	
	Resectoscope Sheath, 26 Fr., oblique beak, rotating inner sheath with ceramic insulation, quick-release lock, consisting of: Resectoscope Sheath Inner Sheath Connecting Tube for In- and Outflow	
	Visual Obturator	
	Adaptor for use ofevacuator with resectoscope outer sheath	
	Evacuator, with locking device	
	Working Element, monopolar, Motion by means of a finger grip. In rest position the electrode is outside the sheath.	
	Cutting (Loop, monopolar, 24/26 Fr. Coagulating Electrode ball-shaped, diameter 3 mm, 24/26 Fr.	
	Coaguianing Exections that are stagest, diameter 3 min, zet/zer 1. Unipolar High Frequency Cort, frequency Cort, liength 300 cm	
	Composer right requires, Cont., while it min plug, rengul sou cit. Working Element, bipolar, Motion by means of finger grip. In rest position the electrode is outside the sheath.	
	working Lemient, uponer, wouldn't y means or a miger grip. In test position the electrone is obtained the sineau. Cutting Loop, looplar, 24/26 Fr.	
	Coagulation Electrode, bipolar, pointed, 24/26 Fr.	
	Bipolar High Frequency Cord, length 400 cm.	
	Protection Tube, for sterilization and storage of electrodes, loops, curettes and knives	
	Stone Punch	
	Punch-Working Element	
	Punch Sheath, with central valve, 25 Fr., straight beak consisting of: Punch Sheath Obturator Connecting Tube for In- and Outflow	
	Sheath Insert, with channel for flexible instruments, 7 Fr., with atraumatic beak for urethroscopy, with two Seals	
	URS Set (7 Fr.)	
	Uretero-Renoscope:	
	Distal tip: 6.5 Fr.	
	Instrument sheath: 7 Fr., 1 step, 9.9 Fr. Working channel: 4.8 Fr.	
	Working, dnamer. 4.8 Hr. Helscope: Fiber optic system, direction of view 6"	
-	Telescope: Hoer aptic system, airection of view 6 Length: 43	
	Lerigui43 piled. rigid Eyepiece: apled, rigid	
	syperice: angeci, rigu	
	THE CHORNING ACCESSATION AND ADDRESS ARE INCLUDED AN OPENING. Undertor-Renorscope Undertor-Renorscope	
	Great Heinestein Aid	
	Instrument Port with Sealing System & Quick Release Lock	
	LUER-Lock Tube Connector, male	
	LUER-Lock Tube Connector, with stopcock	
	Seal	
	Flow Control Stopcock	
	Wire Tray	
	Ureteroscope (Size 7 Fr.)	
	Ureteroscope (Size 8 Fr.)	
-	Ureteroscope(Size 9 Fr.)	
	Flexible ureteroscopy short	
	Flexible ureteroscopy long	
	Ureterscopy grasper forceps Ureterscopy blossy forceps Ureterscopy blossy forceps	
	Uniterioscopy diopsy includes Uniterioscopy diopsy includes Uniterioscopy diopsy includes	
	United SQL 90 C 10 C	
	Cystoscopy size 22, 15,17 Cystoscopy size 25.19	
	Cypsuscupy size 2.1.12 Instrument Pow this bealing system and quick release lock, 2 channels	
	Grasping Forceps for stone fragments, double action jaws, 4 Fr., rigid, length 60 cm	
	Grasping Forceps for large stone fragments, double action jaws, 4 Fr., rigid, length 60 cm	
	PCNI Set	
	Angle Straight Forward Telescope 6*, with parallel eyepiece, autoclavable, fiber optic light transmission incorporated with working channel, with LUER-Lock connection for inflow, including: 2 x Sealing Cap	
	Plastic Container, for Sterilizing and Storage perforated, with transparent lid, with inserts for two angled rigid telescopes	
	Telescope Bougie Set, for tract dilation, consisting of: Telescope Bougie Set, including 6 dilation sleeves 9, 12, 15, 18, 21 and 24 Fr., with 2 rigid guide wires and 2 flexible guide wires	
	Dilator, 27 Fr.	
	Dilator, 30 Fr.	
	Operating Sheath, 26 Fr., for continuous irrigation and suction, with LUER-Lock stopcock, rotatable	
	Obturator and Dilator	
	Forceps, for grasping larger stones and stone fragments, with serrated jaws and ring handle, double action jaws, 10.5 Fr., length 38 cm	
	Forceps, for grasping stone fragments and coagula, with fenestrated jaws and U-spring handle, 11.5 Fr., length 38 cm	
-	Operating Environment The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of 15 C-45 C alon relative humidity of 10-95% The unit shall be capable of being stored continuously in ambient temperature of 57 C-40 C and relative humidity of 10-95%	
	The unit stan be capacite to being some commonsty in amount temperature or -5 C-40 C and relative holling to 10-95% Standards & Stark Requirements	
	Jaminus & Jarry requirements Must submit 1913485-2003/AC:2007 for Medical Devices AND	
	mas sourin 1502_mos.cognc.1500 or TUX appear over product certificate. E [39/42 EEC 6]	
	Warranty	
	Comprehensive warranty for 2 years.	
-	Flectrical Orthopedic Drill	

7		Electrical Orthopedic Drill	1
	No.	Item Specifications	F

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	riii your specification
	manuacurer venne. Model No.:	
	moderness. Country of Origin:	
	Country to Origin. Operational Requirements	
- 1	Operational menegumentalists	
	Defection for first restrict prece. Selection for first restrict prece. Selection for first restrict prece.	
	- Selection of the drilling and reaming with the same attachment Selection of the drilling and reaming with the same attachment Selection of the drilling and reaming with the same attachment	
	- Setschurd ruse uning and rearring with uses and oscillation mode Should have all trigger for forming flux uses and oscillation mode	
	Maximum speed of 1200 rpm in drilling, 270 RPM in reaming	
	Should have variable speed control on the hand piece	
	Should deliver maximum torque of 150 in/lbs	
	Prill torque should be 35 in/lbs	
	Should have DC brush less motor for low maintenance	
	With appropriate adaptors for drilling, reaming and pin placement and wire placement With appropriate adaptors for drilling, reaming and pin placement and wire placement	
	Future up gradation compatible for Navigation interface for Joint replacement surgeries	
	Micro processor controlled Hand piece Can be calibrate for the consistence performance	
	Weight of hand piece with battery should be not more then 3.5	
	• Fully Cannulated 4.0 mm hand piece	
	Should have Pistol grip Hand piece	
	Tool less 360 degree attachments insertion	
	Should be autoclavable	
	Dedicated Forward and Reveres switch with safe mode	
	Can be calibrating for the consistence performance	
	Sagital Saw Hand piece:	
	Should have two speed controls with standard and fast mode. Free speed of 10000 - 12000 cycles per minute	
	Micro processor controlled Hand piece Can be calibrate for the consistence performance	
	Saw Noise level should not more then 89db	
	Weight of hand piece with battery should be not more then 3.5 lbs	
	Blade mount should be adjustable to different angles with 360 degree rotation	
	Should have tool less mounting of accessories	
	Should have DC brush less motor	
	Should be autoclavable	
	Should have safe mode	
	Reciprocating Saw Hand piece:	
	Should have Safe Mode	
	Should have minimum 13500 CPM	
	Weight of hand piece with battery should be not more then 3.5 lbs	
	Micro processor controlled Hand piece Can be calibrate for the consistence performance	
	Should have DC brush less motor for low maintenance.	
	Should have Pistol grip Hand piece	
	Should have tool less mounting of accessories for all blades or attachments	
	Saw noise level should not more then 93db	
	Should be autoclavable.	
	With different blades it should have maximum speed of 13500CPM	
	Drill and reaming Attachments:	
	1/4 inch Jacobs Drill Attachment with key	
	• Keyles Chuck	
	Quick Connect attachment	
	Reamer Attachment	
	Hudson Modified Trinkle attachment	
	Pin Collet Attachment	
	Wire Collet Attachment	
	Battery Charger:	
	220-240 volts charger and should have the feature to count the charging cycle for a particular battery.	
	Should have capability to identify the worn out battery	

Should have to charge four batteries at a time	
Should have an indicator to provide battery status for charging.	
Should be able to check over autoclaved battery cycles (Number of Time and Total time)	
Battery Kit:	
NiMh/Ni Cd batteries - 4	
Should have a run time of minimum 17 minutes	
Should include Autoclavable outer housing	
Shield to protect battery from the housing	
Opening of battery housing for easy insertion of battery	
Should have option for autoclavable batteries	
Sterilization Case:	
Should be accommodate all hand piece, attachment and accessories for autoclave	
3 Training	
3.1 Must provide user & service training.	
4 Warranty	
4.1 Comprehensive warranty for 2 years.	
5 Maintenance Service During Warranty Period	
5.1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
6 Documentation	
6.1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
6.2 Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
6.3 List of important spare parts, accessories and consumables with their part numbers and costing.	

8 General Orthopedic Set

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	,
	Model No.:	
	Country of Origin:	
	Operational Requirements	
	SS TRAY - 18G (12)(RCH*15)(RCH) - 40)(A	
	SS BOUNE-BIG - CQV, 12 KUNEY TRAY - LARGE - CQV, 8	
	NUMET INST - UNING - CALVA. NUMET INST - UNING - CALVA. NUMET INST - UNING - CALVA.	
	NOMECLIP CRIV. 40()	
	SPONGE HOLDER -Qty.8	
	BP HANDLE NO. 3 -Qty.4	
	BP HANDLE NO. 4 -Qty.4	
	BP HANDLE NO. 7 - Qty.4	
	LENGAN BAG RETRACTOR - SMALL -QIy.8	
	LENGAN BAG RETRACTOR - NEDIUM - QTy, 8 LENGAN BAG RETRACTOR - LARGE - QTy, 8	
	LENGAN BAG SE INAL IDN - LANGE - 4QV,8 C-ZERNY SETRACTOR - 4QV,8	
	SECTION TO THE CONTROL OF SECTION SECT	
	ADSON FORCEP - NON TOOTHED 12 CM -Qty.4	
16	ADSON FORCEP - TOOTHED 12 CM - Qty.4	
17	DISSECTING FORCEP - NON TOOTHED 12CM -Qty.4	
	DISSECTING FORCEP - NON TOOTHED 15CM - Qty.4	
	DISSECTING FORCEP - NON TOOTHED 18CM - Qty.4	
	DISSECTING FORCEP - TOOTHED 125M . dgy.4. DISSECTING FORCEP - TOOTHED 15M . dgy.4.	
	DISSECTING FORCEP - TOUTHED 15.CM	
	UISSCLING FORCEF - TOUTHED JOURN - 4QT/A	
	PERIOSTAL ELEVATOR - STRAIGHT - Qty.4	
	MOSQUITO ARTERY - CURVED 10 CM -Qty.20	
	MOSQUITO ARTERY - STRAIGHT 10 CM - Qty. 20	
	ARTERY FORCEP - CURVED 12 CM - Qty.20	
	ARTERY FORCEP - STRAIGHT 12 CM - Qtv.20	
	ARTERY FORCE - CURVED 15 CM - Qtv.10	
	ARTEMY FORCE - STRAIGHT 15 CM - QN/10 ARTEMY FORCE - CUNVED 18 CM - QN/10	
	ARTERY FORCE - CURVED ISON - CQV, ID ARTERY FORCE - STRAIGHT ISON - CQV, ID	
	NATION TO TO THE T	
34	ALLIS FORCEP - 15 CM -Qty.15	
	ALUS FORCEP - 18 CM -Qty.10	
	KOCHERS CLAMP - STRAIGHT 12CM - Qty.10	
	KOCHERS CLAMP - STRAIGHT 15CM - Qtv.10	
	KOCHERS (LAMP - STRAIGHT 20CM - Qtv.10	
	KOCHES CLAMP - CURVED 12CM - QLY,10 KOCHES CLAMP - CURVED 13CM - QLY,10 KOCHES CLAMP - CURVED 13CM - QLY,10	
	NOCHERS CLAWIF - CURVED 25CM - QIV, 10 KOCHERS CLAWIF - CURVED 25CM - QIV, 10 KOCHERS CLAWIF - CURVED 25CM - QIV, 10	
	BABCOCK FORCEP-15 CM - Qty.4	
	BABCOCK FORCEP - 20 CM - dty.4	
44	NEEDLE HOLDER - HEAVY 18 CM - Qty.4	
	NEEDLE HOLDER - HEAVY 15 CM - Qty.4	
	NEEDLE HOLDER - HEAVY 12 CM	
	NEEDLE HOLDER - FINE TIP 12 CM - CHY,4 METS SCISSOR - CHYRE 20 CM - CHY,4	
	METZ SUSSONE - LUNYEU ZU CUN	
	WELE 24:350UT - 3 THE 20 UT - 4UV -	
	METZ SCISSOR - STRAIGHT 15 CM - Qty.4	
52	MAYO SCISSOR - CURVED 15 CM -Qty.4	
53	MAYO SCISSOR - STRAIGHT 15 CM -Qty.4	
	MIXTARD ARTERY - 12 CM -Qty.4	
	MIXTARD ARTERY - 15 CM - Qty.4	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15/C-35°C and relative humidity of 10-95% The unit shall be capable of being stored continuously in ambient temperature of -5°C-40°C and relative humidity of 10-95% The unit shall be capable of being stored continuously in ambient temperature of -5°C-40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Assistants as a strey requirements Assistant as a strey requirements Australiant as a strey requirement as a stress and a	
3.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
4	Warranty	
4.1	Comprehensive warranty for 2 years.	

9 Plaster Trolley

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
1.1	Material stainless steel (304 grade) frame complete with three sided	
1.2	2 X Bucket Holders (12L) and 35 cm bowl	
1.3	4 swivel castors	
1.4	Size: 900 x 450 x 850 mm Approx	
1.5	Height to top 900 mm Approx	
2	Operating Environment	
2.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
3	Documentations	
2 1	Hear (Operating) manual in English	

10 Oxygen Regulator with Flow meter

No.	Specifications	Fill your Specification		
	Manufacturer Name:			
	lodel No.:			
ll ll	Country of Origin:	I .		
	Technical Specifications	I .		
	Regulator:	İ		
	Bull nose screw type, medical oxygen cylinder fitting			
	Regulated to convert standard cylinder pressure (typically 2,000 psi) to approximately 4 BAR (4 atmospheres) pressure			
	Regulator delivery pressure must be factory pre-set, and not permit user adjustment	I .		
	Maintenance engineer adjustment of delivery pressure via a screw slot or covered or capped system is required			
	Regulator must be diaphragm type needle valve regulators are NOT permitted.			
	The regulator must provide genuine pressure reduction and not just flow reduction			
	Regulator must incorporate overpressure safety valve with auto venting	I .		
	Flow Meter:	I .		
	Back Pressure Controlled Flow Meter	i -		
	Sturdy and reliable Flow Motor Unit for an accurate measuring of flow of mace			

	Chromium plated Brass body.	
	Metering tube and cover made of unbreakable Poly carbonate.	
	Flow adjustment by Needle valve equipped with inlet filter – 100 µm.	
	Flow rate range 0 – 15 litres / minute.	
	Inlet pressure suitable for the cylinder.	
	Flow meter to be attached to regulator output	
	Bubble Humidifier with Safety Valve and Pressure Relief Valve:	
	Lid made of ABS Plastic	
	Jar made of Unbreakable Poly Carbonate	
	Valve Brass chromium plated	
	Humidifier jar must be steam autoclaveable / gas sterilizeable.	
	4 Standards and Safety Requirements	
4.	1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.	2 CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	5 User Training	
5.	1 Must provide user training (including how to use and maintain the equipment).	
	6 Warranty	
	Commonly and the Commonly for 3 years of the commonly and the common and	

	User Training Must provide user training (including how to use and maintain the equipment).		
6.3	Warranty Comprehensive warranty for 2 years after acceptance.		
	Anesthesia Machine with 2 Vaporizers		
No.	Manufacturer Name: Item Specifications	Fill your Specificat	
	Madel Not:		
	Country of Origin:		
1.1	Description of Functions Anaesthesia units dispense a mixture of gases and vapours and vary the proportions to control a patient's level of consciousness and/or analgesia during surgical procedures		
	Operational Requirements		
	It shall be suitable to be used for adult, paediatric and neonate patients. System Configurations System Configuration		
3.1	it shall come with the main unit and two vaporizers, one for isoflurane and the other for halothane.		
	Technical Specifications Suitable for adult, pedidatric and newborn patients.		
4.2	The unit is mounted on a trolley with minimum of four (4) anti-static swivel castors, two of the castors are provided with breaks.		
	The unit is equipped with an upper shelf. The cart has been proved with handles for manoeuvring.		
4.5	A side rail for mounting accessories is included.		
	The unit has an adjustable patient-circuit support arm. Revolving support for possible inclusion of CO2 absorber.		
4.8	Gas inlet: 3 inlets, O2, N2O and Air		
4.9	Cas Cylinder yokes: 0.2 & N2O Should come with accessories for connecting gas supply both from central supply as well as from cylinders.		
	Flow meter:		
	It shall come with 6 flow meter columns; 2 flow meter columns for each kind of gas. If the Q, and Np.6 flowmeters have a minimum range of 0.0 – 10 L/min. and a resolution of at least 0.2 L/min.		
	The air flow meter have a minimum range of $0.0 - 10 \ \text{J/m}$. And a resolution foat least to $2.1 \ \text{J/m}$. The air flow meter have a minimum range of $0.0 - 10 \ \text{J/m}$. And a resolution foat least to $2.1 \ \text{J/m}$.		
	Flows and the mixture ratios determined from flowmeter settings are accurate to within ± 10% of set values or better.		
	The unit has the ability to carry out self-diagnosis and integrity testing, including a compliance and leakage test. The unit has equipped with gas supply, gauges with scales allowing easy readout.		
	Battery backup for not less than 60 minutes of operation		
	Autoclaveable CO2 absorbent canister with minimum 2.5kg good line. The unit is equipped with a non-return and a three-way valve, including the connection tube.		
	All circuits shall be detachable, washable and Autoclaveable at most with steam of 134 degree C		
4.12	Vaporier Type of vaporier : shell be concentration calibrated type, such as variable bypass or heated blender or equivalent		
	It shall accommodate two vaporizers.		
	Come with 2 sets of concentration calibrated type vaporisers and two sets of compatible fillers for one for isoflurane and the other for halothane. Stanless sets alsopporting arm with two articulations and rail clamp Stanless sets alsopporting arm with two articulations and rail clamp Stanless sets alsopporting arm with two articulations and rail clamp		
	Vaporizer is to be maintenance free with easy re-filling		
4.13	Ventilator Microprocessor based electrically powered and electrically controlled ventilator		
	Operating modes: Manual, spontaneous, VCV		
	Tidal Volume: approximately 20 - 1500 ml		
	The unit should be able to support a minimum ventilation frequency range between 1 – 100 bpm. The unit should be able to support a minimum ventilation frequency range between 1 – 100 bpm. The unit supports an I/F arisi		
	The unit supports an inspiration pressure of 5 – 70 cmH ₂ O.		
	The unit supports a peak inspiratory flow range of 1 – 70 L/min. The unit supports a peak inspiratory flow range of 3 – 30 cm/hg. The unit supports PEP with a range of 3 – 30 cm/hg.		
	The unit supports pressure triggers in the range of 0 – 20 cmH ₂ O.		
4.14	Pressure gauges have a range of 0 – 100 cmH ₂ O and an accuracy of: ±2.5 % or better. Monitoring		
	The ventilation monitors following parameters, through a combination of numerical and waveforms:		
_	- Respiratory rate (spontaneous and mechanical) Tridal volume (inspired and expired).		
	- Minute volume (spontaneous and mechanical).		
	- Airway pressure PEEP.		
	- Compliance.		
	- O, Concentation - E ratio.		
	- Inspiration and expiration times.		
4 15	- Automatic compliance and leakage compensation for circuit and tubes. ALABM AND SETF VENCTIONALITIES ALABM AND SETF VENCTIONALITIES		
	Alarms are categorized in three categories: caution, advisory and alarm.		
	The unit is equipped with audio and visual alarms for the following parameters: With a insura spectrum of the control of the following parameters:		
	3-High airway pressure alarmSub atmospheric pressure alarm.		
	- Respiratory rate alarm Minute alarm Minute alarm Minute volume alarm Minute volume alarm		
	- winux voune aann Tidal volume alarm.		
	- Expiratory flow alarm.		
	-FiO ₂ supply failure alarm. O ₂ supply failure alarm. O ₂ supply failure alarm.		
	- Low pressure/apnoea alarm.		
	- External O ₂ gas supply failure alarm Low battery slaim.		
	- Power failure alarm.		
	Sensor disconnected alarm. System or sensor failure a larm. System or sensor failure a larm.		
4.16	The unit has a provision that prevents an anaesthesia machine from being set to dispense a hypoxic mixture. The N2O and O2 flow controls are interlocked so that the proportion of O2 to N2O can never fall below a minimum value of 25% to produce a		
	hypoxic breathing mixture. The unit has a provision that protects the patient from inadequate O ₂ supply. If the O ₂ supply pressure drops below 1.7 - 2.1 Bar (25 to 30 ps), the unit decreases or shuts off the flow of other gases and activates an alarm.		
	The unit is equipped with an Adjustable Pressure Limiting (APL) valve to prevent delivery from too high-pressured gas.		
4.18 4.19	The unit should have a provision for emergency O ₂ by-pass.		
4.18	The unit should have a provision for emergency O ₂ by-pass. DisPLAYED PARAMETERS DisPLAYED PARAMETERS DisPLAYED PARAMETERS DisPLAYED PARAMETERS DisPLAYED PARAMETERS DisPLAYED PARAMETERS DisPLAYED PARAMETERS DISPLAYED PARAMET		
4.18	The unit should have a provision for emergency O ₂ by-pass. DISPLAYED PARAMETERS The unit is equipped with a flat panel colour display indicating the following parameters and traces: Three (3) traces against time: pressure, volume, and flow.		
4.18	The unit should have a provision for emergency O ₂ by-pass. DisPLAYED PARAMETERS DisPLAYED PARAMETERS DisPLAYED PARAMETERS DisPLAYED PARAMETERS DisPLAYED PARAMETERS DisPLAYED PARAMETERS DisPLAYED PARAMETERS DISPLAYED PARAMET		
4.18 4.19	The unit should have a provision for emergency O ₂ by-pass. DisplaNAED PARAMETERS The unit is equipped with a flat panel colour display indicating the following parameters and traces: Three G) traces against time: pressure, volume, and flow. Two (2) two-axis displays: Pressure Volume and Flow-Volume. Values for all monitored parameters.		
4.18	The unit should have a provision for emergency Q, by-pass. DisPLAYED PARAMETERS		
4.18	The unit should have a provision for emergency O ₂ by-pass. DispSLAVED PARAMETERS		
4.18	The unit should have a provision for emergency Q- by-pass. DISPLAYED PARAMETERS The unit is equipped with a flat panel colour display indicating the following parameters and traces: Three G1 traces against time: pressure, volume, and flow. Two (2) two-axis displays: Pressure-Volume and Flow-Volume. Values for all monitored parameters. Alarms settings for all monitored parameters. Alarms retrois in ventilation or anaexthesia parameters. Current time. Ventilator mode.		
4.18 4.19 4.20	The unit should have a provision for emergency Q- by-pass. DisSPLAYED PARAMETERS The unit is equipped with a flat panel colour display indicating the following parameters and traces: Three G13 traces against time: pressure volume, and flow. Two (21 two-axis displays: Pressure-Volume and Flow-Volume. Values for all monitored parameters. Alarms settings for all monitored parameters. Alarms retrois for errors in ventilation or anaesthesia parameters. Current time. Ventilator mode. Statery status. System events.		
4.18 4.19 4.20	The unit should have a provision for emergency Q, by-pass. DisPLAYED PARAMETERS The unit is equipped with a flat panel colour display indicating the following parameters and traces: Three (3) traces against time: pressure, volume, and flow. Three (3) traces against time: pressure, volume, and flow. Values for all monitored parameters. Values for all monitored parameters. Alarms settings for all monitored parameters. Alarms entings for all monitored parameters. Ventilator mode. Sattery status. System events. Accessories, Spare Parts and Consumables Al standard accessories, Spare Parts and Consumables Al standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.		
4.18 4.19 4.20 5 5.1 5.2	The unit should have a provision for emergency Q- by-pass. DisSPLAYED PARAMETERS The unit is equipped with a flat panel colour display indicating the following parameters and traces: Three G13 traces against time: pressure volume, and flow. Two (21 two-axis displays: Pressure-Volume and Flow-Volume. Values for all monitored parameters. Alarms settings for all monitored parameters. Alarms retrois for errors in ventilation or anaesthesia parameters. Current time. Ventilator mode. Statery status. System events.		
4.18 4.19 4.20 5 5.1 5.2 5.3 5.4	The unit should have a provision for emergency Q- by-pass. DisSPLAYED PARAMETERS The unit is equipped with a flat panel colour display indicating the following parameters and traces: There G1 traces against time; pressure, volume, and flow. Two (2) two-axis displays: Pressure-Volume and Flow-Volume. Values for all monitored parameters. Alarm settings for all monitored parameters. Alarms or errors in ventilation or anaesthesia parameters. Current time. Ventilation mode. Ventilation mode. Statemy status. System events. Alt standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. 1 x newborn resulable breathing circuit (tubes/balloon/valves/mask). 1 x adult reusable breathing circuit (tubes/balloon/valves/mask).		
4.18 4.19 4.20 5 5.1 5.2 5.3 5.4 5.5	The unit should have a provision for emergency Q- by-pass. DISPLAYED PARAMETES The unit is equipped with a flat panel colour disolary indicating the following parameters and traces: Three (3) traces assainst time: pressure, volume, and flow. Two (2) two-axis displays: Pressure -Volume and Flow-Volume. Values for all monitored parameters. Values for all monitored parameters. Alarms settings for all monitored parameters. Alarms ser errors in wentilation or anaesthesia parameters. Current time. Ventilator mode. Battery status. System events. 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. 1 x newborn reusable breathing circuit (tubes/palloon/valves/mask). 1 x addit reusable breathing circuit (tubes/palloon/valves/mask). 1 x down events with regulator / flow metter or probe for connection to PIN index oxygen cylinder and BOC type oxygen wall outlet, at least 5 meter length, 1 set		
4.18 4.19 4.20 5 5 5.1 5.2 5.3 5.4 5.5 5.6 5.7	The unit should have a provision for emergency Q- by-pass. DISPLAYED PARAMETERS The unit is equipped with a flat panel colour disolary indicating the following parameters and traces: Three (3) traces aziants time: pressure, volume, and flow. Two (2) two-axis displays: Pressure volume and Flow-Volume. Values for all monitored parameters. Values for all monitored parameters. Alarms settings for all monitored parameters. Ventilator mode. Battery status. System events. 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. 1 x newborn revasible breathing circuit (tubes/palloon/valves/mask). 1 x addit revasible breathing circuit (tubes/palloon/valves/mask). Connecting hose with regulator/ flow meter or probe for connection to N2O cylinder or N2O wall outlet, at least 5 meter length, 1 set Connecting hose with regulator/ flow meter or probe for connection to x cylinder or wall outlet, at least 5 meter length, 1 set		
4.18 4.19 4.20 5 5.1.1 5.2.2 5.3 5.4.5 5.6.6 5.7	The unit should have a provision for emergency O ₂ by-pass. DisSPLAYED PRAMETERS The unit is equipped with a flat panel colour display indicating the following parameters and traces: Three G1 traces against time: pressure volume and Flow Volume. Values for all monitored parameters. Alarm settings for all monitored parameters. Alarms or errors in entellation or anaesthesia parameters. Alarms or errors in entellation or anaesthesia parameters. Current time. Ventilator mode. Battery status. System events. Alt excessories Voronsumables/parts required for the proper operation of the above item shall be included in the offer. 1 x newborn resulable breathing circuit (tubes/balloon/valves/mask). 1 x advant resulable breathing circuit (tubes/balloon/valves/mask). 1 x advant resulable breathing circuit (tubes/balloon/valves/mask). 2 to advantage the resulting circuit (tubes/balloon/valves/mask). Connecting hose with regulator/ flow meter or probe for connection to N2O cylinder or N2O wall outlet, at least 5 meter length, 1 set Connecting hose with regulator/ flow meter or probe for connection to N2O cylinder or N2O wall outlet, at least 5 meter length, 1 set Connecting hose with regulator/ flow meter or probe for connection to N2O cylinder or N2O wall outlet, at least 5 meter length, 1 set		
4.18 4.19 4.20 5 5.1.1 5.2 5.3 5.4 5.5 5.5 5.7 5.9 5.1	The unit should have a provision for emergency Q: by-pass. DisSPLAYED PRAMETERS The unit is equipped with a flat panel colour display indicating the following parameters and traces: Three (3) traces against time: pressure, volume, and flow, Two (2) two-axis displays: Pressure-Volume and Flow-Volume. Values for all monitored parameters. Alarm settings for all monitored parameters. Alarm settings for all monitored parameters. Alarms or errors, in werblation or anaesthesia parameters. Current time. Ventilator mode. Battery status. System events. Accessories, Spare Parts and Consumables. Accessories, Spare Parts and Consumables. Als standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. 1 x newborn resulable breathing credit (tubes/balloon/valves/mask). 1 x abdul resulable breathing credit (tubes/balloon/valves/mask). 1 x abdul resulable breathing credit (tubes/balloon/valves/mask). 1 x abdul resulable breathing credit (tubes/balloon/valves/mask). 2 to self-part for the proper operation of PIN index oxygen cylinder and BOC type oxygen wall outlet, at least 5 meter length, 1 set Connecting hose with regulator/ flow meter or probe for connection to N2O cylinder or N2O wall outlet, at least 5 meter length, 1 set Connecting hose with regulator/ flow meter or probe for connection to N2O cylinder or N2O wall outlet, at least 5 meter length, 1 set 1 x spar parts/maintenance kit (pir filters, tubing, O-rings).		
4.18 4.19 4.20 5.5 5.1.1 5.2.2 5.3 5.4 5.5.5 5.6 6.5 5.7 5.8 6.6	The unit should have a provision for emergency Q- by-pass. DISPLAYED PARAMETERS The unit is equipped with a flat panel colour disolary indicating the following parameters and traces: Three G1 traces against time: pressure, volume, and flow. Two (2) two-axis displays: Pressure-Volume and Flow-Volume. Values for all monitored parameters. Values for all monitored parameters. Alarms settings for all monitored parameters. Alarms settings for all monitored parameters. Current time. Ventilator mode. Battery status. System events. Accessories, Spare Parts and Consumables All standard accessories/consumables/carts required for the proper operation of the above item shall be included in the offer. 1. x newborn resulable brasthing circuit (tubes/halloon/valves/mask). 1. x additric reusable breathing circuit (tubes/halloon/valves/mask). 1. x additric reusable breathing circuit (tubes/halloon/valves/mask). Connecting hose with regulator/ flow meter or probe for connection to PIN index oxygen cylinder or NaIO wall outlet, at least 5 meter length, 1 set Connecting hose with regulator/ flow meter or probe for connection to NaIO cylinder or NaIO wall outlet, at least 5 meter length, 1 set Silcone test lung adult and child size, 1 set each 1 x spare part/wanternance kit (art filters, tubing, O-rings).		

1 7	Power supply:	
7.:	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
6.3	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
	Standards & Safety Requirements	
8.:	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
8.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
8.3	60601-2-13 Medical electrical equipment — Part 2-13: Particular requirements for the safety and essential performance of anaesthetic systems.	
8.4	80601-2-55 Medical electrical equipment — Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors.	
	Training	
9.:	Must provide user & service training.	
10	Warranty	
10.:	Comprehensive warranty for 2 years.	
1:	Maintenance Service During Warranty Period	
11.3	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
12	Documentation	
12.:	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
12.2	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
12:	list of important spare parts, accessories and consumables with their part numbers and costing	

12 Should have integrated high resolution LCD screen minimum 10-12" color display with touch screen facility for real-time display of scalar (Pressure, Flow and Volume against time) and loop (Pressure-volume, volume-flow and pressure-flow). Graphic display of at least 3 waveforms together out of choice of flow, volume and pressure versus time with a facility to freeze these waveforms. Facility for loops together with a facility to freeze the same. Section of the Committee C

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
1	Model No.:	
- II	Country of Origin:	
1	Description of Functions	
1.1	Should be an auto adjusting CPAP with pressures ranging from 4 to 20 cmH2O	
1.2	Unit should be light weight (less than 1.5 Kg) and noise less than 30 dBA	
1.3	The unit should have an automatic altitude setting.	
1.4	The unit should have an Automatic mode & manual mode of selection.	
1.5	Should have an Ramp Time Automatic of 5 - 45 minutes	
1.6	Should have a backlit LCD display for easy viewing	
1.7	Should be able to change the settings with easy to use rotary control dial	
1.8	The unit should have comfort feature A-Flex which adjusts air pressure based on patient need on every inhalation & exhalation	
1.9	Unit should have C-flex/C-Flex+ mode when unit is running as manual CPAP.	
	The unit should have System one resistance control for optimized pressure delivery, no matter which mask is used	
1.11	Mask fit and seal monitoring should be capable to check the seal of the mask.	
1.12	Should have advanced event detection algorithm which detects and records CA, OA,CSR, RERA, Hypopnea, Vibratory snore, Large leak & Flow limitation for helping the physicians in opting for alternate therapy.	
1.13	Should have Memory for recording the usage & compliance data .	
1.14	The unit should have 2 years warranty	
1.15	CE or USFDA or TUV approved certificate.	
1.16	MASK: Should be able to select between medium and small size.	
1.17	Mask should be provided with angled exhalation micro ports.	
1.18	Should have blue gel with silicon membrane to create an effective self adjustment seal.	
1.19	The mask should have silicone spring facility to enable patient to move in any direction.	
	HUMIDIFIER also should be supplied along with the System and should be of dry box technology such that it takes the room humidity into account while humidifying.	
	Tubing connection to be at the top of the humidifier unit.	
	Should have sensors both inside and outside the machine to allow it to accurately make changes in humidity and prevent condensation from forming inside the tube.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	User Training	
2.1	Must provide user training (including how to use and maintain the equipment).	
3	Warranty	
3.1	Comprehensive warranty for 2 years after acceptance.	
4	Maintenance Service During Warranty Period	
	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English.	
	Service (Technical / Maintenance) manual in English.	
5.3	List of important spare parts and accessories with their part numbers and costing.	

14 Bubble CPAP

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	riii your specification
	wanuscurer name: Model No.:	
	wood not	
	Lountry of Origin: Description of Functions	
	Should be suitable for treating newborns with respiratory distress weighing 500-5000g.	
	The CPAP pressure with oscillations should be generated by creating resistance in water column and bubbling of exhaled gas in the water column.	
	Should essentially have the following components,	
	A. Servo Heated Humidifier	
	It should have servo controlled heated humidifier with following features,	
	i. Temperature and flow sensor with feedback mechanism.	
	ii. Monitoring temperature of gas at chamber end and near patient end.	
	iii. Display for temperature of saturated gas.	
	iv. Should have separate modes for invasive and non-invasive ventilation.	
	v. Should have alarms for high temperature /low temperature, low water in chamber, Heater adapter faulty/disconnect, Temp cum probe faulty/disconnect and hardware faults. The Humidfier should provide a visual indication as to the location of the fault.	
	B. Patient Delivery system	
	i. The patient heating circuit should have integrated spiral heated coil for uniform heating.	
	ii. Humidification chamber should have facility for auto feed and have a chamber compressible volume of at least 260-300 ml. The chamber should have a max peak flow of at least 180l/m.	
	in Should be supplied with Nasal prongs/masks of silicon useful for babies weighing between 750-250g, It should be provided as standard accessory. The nasal masks should be suitable for preterm and term babies. The mask should be soft and anatomically shaped.	
\vdash	anatorimicany snapeu. N. Should be supplied with flexible nasal tubing which should be adaptable with the infants movement.	
\vdash	IN. Should be supplied with nexione hasait utuning winter should be adaptione with the intensity of the should be adaptione with the intensity of the should be adaptione with the intensity of the should be adaptive the should be	
\vdash	v. Ine nasal tuding since the prong or mask re-positioning and keep straps way from the patients race. vi. should be supplied with infant caps for 17-36 cm circumference. vi. should be supplied with infant caps for 17-36 cm circumference.	
	w. should be supplied with nast caps for 17-secm circumerence. with should be supplied with nast caps for 17-secm circumerence. with should be supplied with nast cannula which should be kink proof and have adhesive to secure on skin and facilitate kangaroo mother care. The adhesive used should be neonate skin friendly,	
\vdash	C. CPAP Bubble Generator	
\vdash	i. CPAP Bubble generator should have adjustable probe for pressure settings 3-10cm of H2O. It should have detachable overflow container to maintain constant water level with a minimum volume of 500ml.	
-	ii. The system should have safety mechanism with pressure relief valve and ports for pressure and fio2 monitoring.	
	D. Air-Oxygen Blender	
	i. Should have portable and lightweight and weight under 2 kg.	
	ii. Should have provision for adjusting fio 2 from 21%-100%.	
	iii. The accuracy of the set value should be within ±3%.	
	iv. Should provide a output flow rate between 0-30LPM.	
\vdash	v. The blender should be able to support an input supply pressure from 2-5 bar.	
	vi. Should have inlets for connection of air and oxygen. Necessary tubing's and adapters to connect from the external gas supply sources(air and oxygen) may be supplied as standard accessories	
	vii. Should also have provision for connecting to central air and central oxygen outlets. Necessary tubing's and adapters/key plugs may be supplied in this regard	
	viii. Necessary adapters towards mounting the blender on IV pole may be supplied as standard.	
	ix. Should be supplied with a flow meter (0-15LPM) including the wing nut towards controlling the output flow	
1.4	ACCESSORY	
	CPAP generator – 1 No	
1.5	CONSUMABLES	
	A. Patient circuit with humidifier chamber - 20 Nos	
	B. Nasal prongs (small, medium, large)-20each	
	C. Nasal Masks (small,medium,large)-20 each	
	D. Nasal Tubing-20 Nos.	
	E. Nasal cannula-20 Nos.	
	F. Infant caps (small,medium,large)-20 Nos.	
	G. The cost of the above mentioned accessory and consumables' may be separately quoted which would be valid throughout the period of warranty.	
	H. Should be supplied with a trolley mounted on quality castors to fix the humidflier, CPAP generator, IV hooks, mounting brackets for gas supply lines etc. The required adapters/fixtures for mounting the same should be supplied as slandered.	
1.6	Should have safety certificate from a complete authority CE Issued by a notified body registered in European commission/FDA (US)	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English.	
	Service (Technical/Maintenage) manual in English.	
	Section (presented) management and accessories resignification of the part numbers and costing.	
	mer at triper and again part at the assessment at the part terminate and assembly.	l

15 Pediatric Basic Surgery Set

No		Item Specifications	Fill your Specification
		Manufacturer Name:	
		Model No.:	
		Country of Origin:	
		Operational Requirements	
		1 Scalpel Handle #3	
		1 Iris Scissors Straight S/s 4 1/2"	
		1 Metzenbaum Scissors Curved 5 3/4"	
		1 Metz Lahey Delicate Scissors Straight 5 3/4	
	1.5	1 Metz Lahey Delicate Curved Scissors 5 3/4	
	1.6	6 Micro Mosquito Straight 5"	
	1.7	6 Micro Mosquito Crvd 5"	
	1.8	4 Crile Forceps Curved Delicate 5 1/2"	
	1.9	4 Kocher Forceps Straight Delicate 1x2 5 1/2"	
		4 Kocher Forceps Curved Delicate 1x2 5 1/2"	
		2 Baby Mixter 5" Curved Part Serr	
		2 Baby Mixter 7" Curved Part Serr	
		6 Backhaus Towel Clamp 3 1/2"	
		4 Ballengr Spong Forceps Straight Serrated 7"	
		1 Ryder Nh Micro Serrated 6" Tc	
		2 Tissue Forceps 1x2 5"	
		1 Dress Forceps Delicate Serrated 5	
1.	18	2 Tissue Forceps Delicate 1x2 5 1/2	
1.	19	1 Tuttle Forceps 7"	

1.20 2 Allis Tiss Forceps 5x6 6"	
1.21 2 Allis Tiss Delicate Forceps 4x5 5 1/2"	
1.22 2 Babcock Forceps 5 1/2"	
1.23 1 Benson Pylorus Separator 5 %	
1.24 1 Payr Pylorus Clmp Lt 5 3/4"	
1.25 1 Probe Double End 5"	
1.26 1 Probe Double End 5"	
1.27 1 Poole Suction Tube 16fr 7 3/4"	
1.28 2 Trach Retractor Blunt 3 Prong 6 1/2	
1.29 2 Roux D/e Retractor Small 5 1/2	
1.30 2 Langenbeck Retractor Small 9"	
1.31 2 Langenbeck Retractor Large 9"	
1.32 1 Deaver Retractor 5/8 X 8"	
1.33 2 Zalkind Ribbon Retractor 1"x 7.75"	
1.34 1 Weitlaner Beckman Ret Sh 3x4 6	
1.35 1 Balfour Retractor 1 1/4" pediatric	
1.36 2 Micro Adson Forceps Serrated 4 3/4	
1.37 1 Haight-finochietto Retractor 3 1/2"	
1.38 1 Bailey Rib Contractor	
1.39 1 Frazier Suction Tube 8fr	
1.40 2 Desmarres Lid Retractor 16mm 5 1/2"	
2 Operating Environment	
2.1 The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
2.2 The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
3 Standards & Safety Requirements	
3.1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
3.2 CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
4 Warranty	
4.1 Comprehensive warranty for 2 years.	

16 Laparotomy Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
III	Country of Origin:	
	Technical Specification	
	Set contain:	
- 1	Kidney Tray Large - Qty,6	
2	\$s Bowl - 01y.12	
	Towel Clip - Cly.1	
- 4	Bp Handle No. 7 - Qty.2	
-	Suction Tip 2mm - Qty.3	
	Suction Tip 5mm - Qty.3	
	Yankaur Suction Tip 10 Mm-31 Cm - Qty.3	
	Ss Scale - Otv.3	
9	Dissecting Tooth Force 16 Cm - Otv.6	
10	Adson Tooth Forcep 12 Cm - Qty.6	
	Adson Plain Forcep 15 Cm - Qty.6	
	Dissecting Plain Forcep 18 Cm - Qty.6	
	Dissecting Plain Forcep Fine Tip 15 Cm - Qty.6	
	Dissecting Plain Forcep 23 Cm - Qty,6	
	Dissecting Plain Forcep 30 Cm - Qty.4	
	Debakey Forcep 20 Cm - Qty.6	
17	Mosquito Artery Forcep Cvd 12 Cm - Qty.12	
	Mosquito Artery Forcep Cvd 14 Cm - Cty.18	
	Mosquito Artery Forcep St. 12 Cm - Qty.11	
	Mosquito Artery Forcep St. 14 Cm - Qty.18	
	Artery Forcep Cvd 16 Cm - Qty.18	
22	Artery Forcep Fine Cvd 18 Cm - Qty.18	
23	Artery Forcep Fine Cvd 19 Cm - Qty.24	
24	Artery Forcep Heavy Cvd 20 Cm - Qtv.10	
25	Allis Forcep 15 Cm - Qty.12	
26	Allis Forcep 20 Cm - Qty.2	
27	Babcock Forcep 18 Cm - Qty.4	
28	Babcock Forcep 20 Cm - Qty.4	
29	Kochers Clamp Cvd 20 Cm - Qty,6	
30	Kochers Clamp St. 20 Cm - Qtv.6	
31	Metz Scissor 20 Cm (1 Golden Handle) - Qty.2	
32	Metz Scissor 15 Cm - Qty.2	
33	Metz Scissor Heavy Tip 19 Cm - Qty.2	
	Mayo Scissor St. 17 Cm - Qty.3	
35	Mayo Scissor St. 19 Cm - Qty.3	
	Needle Holder 18 Cm Fine Tip - Qty.6	
	Needle Holder 18 Cm Heavy - Qty.6	
	Needle Holder 20 Cm - Qty.3	
	Needle Holder 27 Cm - Qty.3	
	Rider Needle Holder 20 Cm - Qty.3	
	Intestinal Clamp Cvd (Atraumatic) - Qtv.6	
	Intestinal Clamp St. (Atraumatic) - Qty.6	
	Standards and Safety Requirements	
2.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
	CE or USFDA approved product certificate.	
	Warranty	
3.1	Comprehensive warranty for 2 years after acceptance.	

17 Loupes 2.5x-3.5x

No.	Fill your Specification
Manufacturer Name:	
II Model No.:	
III Country of Origin:	
1 Operational Requirements	
1.1 Magnification: 2.5 x -3.5x	
1.2 Working distance:340-up to 420mm	
1.3 Depth of field: 80 - 100mm	
1.4 Field of View: 60 - 100mm	
1.5] Weight: 50 - 70g	
1.6 Frames: Ni-alloy or Titanium or ABS	
1.7 With LED	
1.8 LED brightness 30000lux	
1.9 With battery	
2 Standards and Safety Requirements	
2.1 ISO 9001 or ISO 13485:2003/AC:2007	
2.2 CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	
3 Warranty	
3.1 Comprehensive warranty for 2 years.	

18 Complete Cleft Set

No.	Item Specifications	Fill your Specification
Manufacturer Name:		
II Model No.:		
III Country of Origin:		
1 Operational Requirements		
1. Dingman Mouth Gag with 3 Blades Adults -Qty. 1		
2. Cleft Palate Raspatory - French Pattern Right & Left -Qty. 1		
3. Cleft Palate Raspatory - Barsky Type Double Ended -Qty. 1		
4. Cleft Palate Raspatory - Curved Up -Qty. 1		
5. Cleft Palate Raspatory - Curved Down -Qty. 1		
6. McIndoe Cleft Palate Raspatory - Medium -Qty. 1		
7. Mitchell Trimmer -Qty. 1		
8. Cleft Palate Knife Triangular -Qty. 1		
9. Cleft Palate Hook Right Angle & Down Bent -Qty. 1		
10. Cronin Cleft Palate Elevator Medium Right -Qty. 1		
11. Palate Dissector - Right & Left -Qty. 1		
12. Spoon Shape Elevator - Double Ended -Qty. 1		
13. Miller Bone File - Curved -Qty. 1		
14. Flevator Double Ended - Angled Right & Left -Oty. 1		

15. Elevator Double Ended - Angled Side & Flat -Qty. 1	
16. Howarth Elevator -Qty. 1	
17. Kilner Skin Retractor -Qty. 1	
18. Aluminium General Box - Anodized Small -Qty. 1	
2 Operating Environment	
2.1 The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
2.2 The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
3 Standards & Safety Requirements	
3.1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
3.2 CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
4 Warranty	
4.1 Comprehensive warranty for 2 years.	

19 Air Dermatome

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Technical Specification	
1.1	Air powered model includes flexible air hose	
1.2	On/off switch	
	Light weight	
1.4	Sterilizable	
	Adjustable graft thickness	
	Cutting thickness from 0.00 to up to 0.70 mm	
	Safety lever	
	Depth gauge	
	Dermatome blades	
1.10	Width plates range from 2 – up to 5 cm	
1.11	High operating speed 2000 to 6000 cycles per minutes	
2	Standards and Safety Requirements	
	Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
2.2	CE or USFDA approved product certificate.	
3	Training	
	Must provide user & service training.	
	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
6	Documentation	
6.1	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
6.3	List of important spare parts, accessories and consumables with their part numbers and costing.	

20 Electric Dermatome

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- II	Model No.:	
III	Country of Origin:	
1	Technical Specification	
1.1	Electric powered model includes a power source	
1.2	Connection cord	
1.3	Adjustable graft thickness	
1.4	Cutting thickness from 0.00 -up to 0.70 mm	
1.5	Safety lever	
1.6	Depth gauge	
1.7	Width plates range from 2 -up to 5 cm	
1.8	High operating speed 2000 to 6000 cycles per minutes	
1.9	Sterile blades with covers	
	Operating Environment	
2.1	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
2.2	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
	Power supply:	
3.1	Input power supply: 220/240 V AC, 50Hz single phase schuko plug	
4	Standards and Safety Requirements	
4.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
4.2	CE or USFDA approved product certificate.	
5	Training	
5.1	Must provide user & service training.	
	Warranty	
6.1	Comprehensive warranty for 2 years after acceptance.	
7	Maintenance Service During Warranty Period	
	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
8.2	Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
8.3	List of important spare parts, accessories and consumables with their part numbers and costing.	

21 Skin Tonometer

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	I
- 1	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
1.1	Display monitor	
1.2	Electrodes	
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	
2.1	(including items not specified above).	
3	Operating Environment	
3.1	Power supply: 220-240V 50/60 Hz Hz AC Single phase.	
4	Standards and Safety Requirements	
4.1	ISO 9001 or ISO 13485:2003/AC:2007	
4.2	CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	
5	Warranty	
5.1	Comprehensive warranty for 2 years.	
6	Documentation	
6.1	List of important spare parts and accessories with their part numbers and costing.	
6.2	Operating and detailed service manual should be provided	

22 Intra Operative Nerve Stimulator

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
III	Country of Origin:	
1	Technical Specification	
	The nerve stimulator should have nerve mapping facility	
	The nerve stimulator should have Remote control for sterile one handed operation	
	The stimulator should work on 9V alkaline battery	
	The Power consumption should be 8mA max	
	Stimulation current: 0.01mA to 30.00 mA	
	Should have Artifact detection feature to distinguish between artifact and EMG signals	
	Should have electrode – checking features	
	Should be able to log EMG activity throughout a procedure for records	
	Stimulation Voltage: 95V	
	Stimulation frequency: 1Hz/2Hz	
	Allowable load impedance: 0 kohms -12kohms	
	Stimulus duration: 1.0ms to 0.05ms range	
	Current measuring accuracy: +/-0.02 mA	
	Impedance measuring range: 1 KOhms – 90 Kohms for target stimulation current >0.5 mA	
	Weight: 250 g maximum	
	Accessories:	
	1- Nerve stimulation needles 24G; 25mm ,	
	2- Nerve stimulation needles 22G; 50mm Qty: 3	
	3- Nerve stimulation needles, 21G; 100mm , Qty: 3	I

4- Nerve stimulation needles 206; 150mm Qty: 3	
5- Nerve stimulation needles 18 G, 55mm length with 40cm length catheter set, Qty: 15	
6- Nerve stimulation needles 18 G, 110mm length with 100cm length catheter set Qty: 15	
2 Standards and Safety Requirements	
2.1 Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
2.2 CE or USFDA approved product certificate.	
3 Training	
3.1 Must provide user & service training.	
4 Warranty	
4.1 Comprehensive warranty for 2 years after acceptance.	
5 Maintenance Service During Warranty Period	
5.1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
6 Documentation	
6.1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
6.2 Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
6.3 List of important spare parts, accessories and consumables with their part numbers and costing.	

23 Laser Device Nd :Yag

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Technical Specification	
1.1	The device should offer 4 wavelengths- 1064nm, 532nm. 585 nm and 650 nm	
1.2	The device should have Photoaccoustic Therapy Pulse mode	
1.3	The device should satisfactorily treat following indications effectively- Pigmentation, freckles, Birth marks, Café-au-lait macules, Wrinkles, Rejuvenation, Fine hair reduction	
1.4	The device should have a minimum pulse width of 5 ns for effective and safe treatment	
1.5	The device should have a true flat-top beam profile.	
1.6	The device should have a spot size of atleast 2mm at 585 nm and 650 nm.	
1.7	The minimum shot count for 585 nm hand-piece should be atleast 20,000 and for 650 nm at least 10,000	
1.8	The device should have spot-size in the range of 2mm-8mm and should deliver adequate energy at all spot sizes.	
1.9	The device should offer at least 11 J/cm2 at 2 mm at 532 nm wavelength.	
1.1	The device should offer at least 3 J/cm2at 6mm at 1064 nm wavelength.	
1.11	The device should have fluence of at least 8 J/cm2 at 585 nm wavelength.	
1.12	The device should have fluence of at least 5 J/cm2 at 650 nm wavelength.	
1.13	The device should have a max. repetition rate of 10 Hz at all spot sizes at 1064 nm and 532 nm	
1.14	The device should come with a suitable online UPS.	
1.15	The device should have a red, variable intensity aiming beam.	
1.16	The device should have a closed cycle water heat exchanger for cooling.	
1.17	The device should have an electrical requirement of 220 V, Single phase, 8-10 Amps.	
1.18	The device should be portable.	
	The device should have 4 pairs of protective goggles.	
1.2	The device should be provided with operator manual, Laser warning signs.	
	Operating Environment	
2.1	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
2.2	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
3	Power supply:	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Standards and Safety Requirements	
	Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
4.2	CE or USFDA approved product certificate.	
	Training	
	Must provide user & service training.	
	Warranty	
6.1	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
8.3	List of important spare parts, accessories and consumables with their part numbers and costing.	

24 Skin Dermabrasion Device

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
ll ll	Country of Origin:	
	Technical Specification	
1.3	PVC vacuum hose	
1.3	Wands	
1.3	Tips	
1.4	Cotton filter (over300pcs)	
1.5	Safety fuse	
1.6	Oil filter	
1.7	Power adapter	
1.8	Suction control knobe	
	Operating Environment	
2.:	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
2.2	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
3	Power supply:	
3.:	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
-	Standards and Safety Requirements	
4.:	Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
4.2	CE or USFDA approved product certificate.	
	Training	
5.:	Must provide user & service training.	
	Warranty	
6.:	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
7.:	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
8.:	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
8.2	Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
8	list of important spare parts, accessories and consumables with their part numbers and costing	1

25 Plaster Surgery Set

No.	Item Specifications	Fill your Specification
1	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Technical Specification	
	Set contain:	
1	Scalpel handle, no. 3, 12 cm - 1pc	
2	Scalpel handle, no. 7, solid, short - 1pc	
3	Operating scissors, sharp/blunt, straight, 14.5 cm - 1pc	
4	Dissecting scissors, Kilner, curved, 15 cm - 1pc	
5	Scissors, Jameson, curved, 15.5 cm - 1pc	
6	TC Dissecting scissors, curved, serrated, 14.5 cm - 1pc	
7	TC Dissecting scissors, fine, curved, 14.5 cm - 1pc	
8	TC Iris scissors, sharp/sharp, curved, 11.5 cm - 1pc	
9	Dressing forceps, Mini-Adson, 12 cm - 2pc	
10	Tissue forceps, 1 x 2 teeth, slender, 14.5 cm - 2pc	
11	Forceps, Mini-Adson, 1 x 2 teeth, 12 cm - 2pc	
12	Dressing forceps, Micro-Adson, 15 cm - 2pc	
13	Forceps, Mixter-Baby, slight curved, 14 cm - 1pc	
14	Forceps, Mixter-Baby, strong curved, 13 cm - 1pc	
15	Forceps, Micro-Mosquito, straight, 12 cm - 4pc	
	Forceps, Micro-Mosquito, curved, 12 cm - 4pc	
17	Haemostatic forceps, Leriche, curved, 15.5 cm - 2pc	
	Forceps, Leriche, 1 x 2 teeth, straight, 15.5 cm - 2pc	
19	Dissecting forceps, Baby-Adson, curved, 14.5 cm - 2pc	
	Towel forceps, Backhaus, sharp, 11 cm - 6pc	
21	Forceps, Gross-Maier, curved, 26.5 cm - 2pc	
22	Skin Hook, Guthrie, sharp, 2-prong, 16 cm - 4pc	
23	Skin Hook, sharp, 1-prong, 16.5 cm - 2pc	
24	Patractor Dermarras 9 mm 16 cm - 10c	· · · · · · · · · · · · · · · · · · ·

25	Retractor, Desmarres, 16 mm, 16 cm -	
26	Retractor, Senn-Miller, 16cm - 2pc	
	Retractor, Mini-Langenbeck, 10mm, 16cm - 2pc	
28	Retractor, Senn-Green, 20 x 6 mm, 16 cm - 1pc	
29	Retractor, Senn-Green, 10 x 6 mm, 16 cm - 1pc	
30	Self-retaining retractor, Alm, blunt, 4 x 4 prongs, 7 cm - 1pc	
31	Self-retaining retractor, Weitlaner, 2 x 3 prongs, 11.5cm - 1pc	
32	TC Needle holder, Halsey, 13 cm - 1pc	
33	TC Needle holder, Crile-Wood, 15 cm - 1pc	
34	TC Needle holder, Mayo-Hegar, 16 cm - 1pc	
35	Atrauma forceps, De Bakey, 1.5 mm, 16 cm - 2pc	
36	Face lift hooklet, Kaye, 4-prongs, 13 cm - 1pc	
37	Probe, Bowman, cylindric, GS, no. 00/0 - 1pc	
38	Probe, Bowman, cylindric, GS, no. 1/2 — 1pc	
39	Bowl, metal, h = 40, 0 80 mm, 0.14 1— 1pc	
40	Bowl, metal, h = 55, 0 128 mm, 0.35 1— 1pc	
41	Kidney dish, 250 x 140 x 40 mm — 1pc	
42	Tendon stripper, flexible, 4 mm, 23 cm — 1pc	
	Tendon stripper, flexible, 4.5 mm, 23 cm — 1pc	
44	Tendon stripper, flexible, 5.5 mm, 23 cm — 1pc	
	Drawing probe, Bunnell, malleable, 23 cm − 1pc	
46	Tendon seizing forceps, Steinmann, 16 cm — 1pc	
47	Tendon pulling forceps, Brand, 15 cm — 1pc	
48	Tendon pulling forceps, Brand, 19 cm — 1pc	
	Tendon retriever, Carroll, 11cm — 1 pc	
50	Tendon seizing forceps, curved, $11.5\mathrm{cm}-1\mathrm{pc}$	
	Tendon seizing forceps, Kleinert-Kutz, 21 cm — 1pc	
	Tendon weaving forceps, straight, 15 cm — 1pc	
	Tendon weaving forceps, curved, 15 cm — 1pc	
54	Nerve/tendon holding and trimming instrument set, Meyer — 1 set	
	Includes:	
	Holding forceps of varying sizes — 6pc	
	Blade holder — 1pc	
	Sterilization box — 1pc	
	Lead hand, child size, malleable — 1pc	
	Lead hand, adult size, malleable — 1pc	
57	Universal hand holder set, Tuppers — 1 set	
	Including:	
	Hand table-1pc,	
	Elevated chain holder-2pc	
	Chain holder hooks-2pc	
	Ball chains 21cm, with skin hooks-4pc	
	Ball chains 32cm with skin hooks-2pc	
	Ball chains 26cm without hooks-2pc	
	Tendon hooks-4pc	
	Rubber band sliding hooks-4pc	
	Rubber bands-5pc	
	Stainless stell carrying case-lpc	
	Standards and Safety Requirements	
	Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
	CE or USFDA approved product certificate.	
	Warranty	
3.1	Comprehensive warranty for 2 years after acceptance.	

26 Complete Rhinoplasty Set

	har for the state of	F.11
No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 111	Country of Origin:	
1	Technical Specification	
	Set contain:	
	Hooks	
- 1	Round skin hooks Gillies - Qty.2	
1	Nound sain rious senies - cuty. 2 Round skin hooks medium - Clty. 2	
2	Round skin hooks medium - Qty.2	
3	Flat skin hook - Qty. 2	
4	Flat skin hook long - Qtv.2	
	Double skin hook sharp small - Qty.2	
	Double skin hook sharp medium - Cty.2	
/	Double skin hook sharp large - Qtv.2	
	Double skin hook sharp blunt - Qtv.2	
	Rasps	
9	Cross serrated rasp - Qty.2	
10	Forward cutting rasp - Qty.2	
11	Double action rasp - Qty.2	
12	Doduce action 1639 - QQ-2. Glabellar ray - QQ-2.	
13	Straight rasp - Qty.2	
14	Maltz Rasp double ended - Qty.1	
L	Elevators	
15	Killian's septal elevator straight - Qty.1	
10	Milliar's seption elevenator curved - Opt.1	
16	NIIII as septial elevator curved - QIV_1 Freer elevator - QIV_1	
18	Joseph skin elevator - Qty.1	
	Cottle elevator - Qty.1	
20	Pierce elevator - Qty.1	
	Masing graduated elevator - Qty.1	
	Tangung geodesic Copy. 1	
	Farabeuf elevator curved - Qty.1	
24	Killian's septal elevator with suction - Qty.1	
	Chisel & osteotome	
25	Chisel- 1,2,3,4,7 mm - Qtv,1 each	
20	Single guarded histories - Oky 1 each	
20	Single goarded triser - Qty. Leach	
27	Silver chisel- right & left - Qty.1 each	
	Double guarded chisel 7,8,14,16 mm - Qtv.1 each	
29	Mc Indoe nasal chisel, 13 & 15 mm - Qty.1 each	
	Retractors	
30	Aufricht retractor- wide & narrow - Qty.1 each	
	Kilber ala retractor - Qty.2	
31	kilder alar tetraction - Qty. 2	
32	Senn double end retractor- claw sharp & blunt - Qty.1 each	
33	Senn double end retractor- plain - Qty.2	
34	Senn double end retractor- fine - Qty.2	
35	Suction tip no. 7/9/12 - Qty.1 each	
36	Aufricht retractor with fibre optic connection - Qty.1	
27	Administration in the United Control of Cont	
3/	NIIII as nasai speciulm with tore optic connection - QIV.1	
-	Saws & Knives and gouges	
38	Nasal saw straight - Qty.2	
39	Nasal saw right - Qty.2	
40	Nasal saw left - Qty.2	
41	Ballinger's swivel knife - Qty.2	
42	Supply button and knife - Clyv.2	
42	Dilutanias Branatanias (A) tark	
43	Blunt gouge & Bayonet gouge - Qty,1 each Thudicum's nasal speculum - Qty,2	
44	Inuarcum s nasai speculum - uty. z	
	Forceps & needle holders	
45	Webster needle holder - Qty.2	
46	5" needle holder - Qty.2	
47	Gillies needle holder - Qty.1	
40	ames requirements - Quy. A	
48	1. t. pn neetin noner - ttyt.) 8ayonet forces - (bt.) 8ayonet forces - (bt.)	
49	payorier rorceps - Qty.1	
50	Tilley's dressing forceps - Qty.2	
51	Luc's forceps set - Qty.1 set	
52	Septum punch forceps - Qty.2	
53	Asch forceps - Oty.2	
5.4	Rashinings-1942 Walsham forceps-1942	
54	wasiani totega - vyy.e	
55	Baby Walsham forceps - Qty.1	
56	Nasal septal forceps- straight & curved - Qty.1 each	
	Scissors	L
57	Tenetomy scissors- straight & curved - Qty, 1 each	
E 0	Kilner scissors-straight & curved - Qty, 2 each	
- 50	Aufricht seisons - Oty 2	
59	Authorit 20132015 - QUY.2	l .

60 Cartilage scissors - Qty.2	
61 Columella scissors 4", 6", 8" - Qty.1 each	
2 Standards and Safety Requirements	
2.1 Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
2.2 CE or USFDA approved product certificate.	
3 Warranty	
3.1 Comprehensive warranty for 2 years after acceptance.	

27 Major Surgical Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specification	
_	Set contain:	
- 1	B. P. Handle No. 3 - Qty.10	
	B.P. Handle No.4 - Otv.10	
	Dr. Handerton Plain 7 - Qty.10	
-	Dissecting Further Film 8" - Qty.5	
	Dissecting functions Touthed 7 (N.S.)	
	Dissecting forceps Toothed 8" - Cty.5 Dissecting forceps Toothed 8" - Cty.5	
	Dissecting rotters roomed 8 - Cut. 5 Adson Dissecting Forces Plain - Cut. 5 Adson Dissecting Forces Plain - Cut. 5	
	Auson Dissecting Forces Toolhold - City 5	
	ABSON USSECTINE FORCES TOWNED - LIVE.S TOWN CITY OF CITY.S	
	Tower cips 5 - CLEV_3-0 CAC . Scisor Sturte Outling - CtV_5	
	La. scissor surture curring - Laty. 5 Mayo Scissor C & *TC - Cty. 5	
	May 0 50507 CL. 8" (1 - 10½)-5	
	MEL2Cassor Cd. 8" LC - Uty.5 May ossistor 5" st Cty.5	
	Mayo Scissor 8" - Qty.5	
	Needle Holder 7" Mayo hegar - Qtv.5	
	Needle Holder 8" fine - Qtv.5	
	Needle Holder 8" Mayo hegar - Qtv.5	
	Artery Forceps Cd. 8" - Qty.10	
	Mosq. Artery Forceps Cd Qty.20	
	Mosq. Artery Forceps st Qty.10	
	Artery Forceps Cd. 7" - Qty.30	
	Artery Forceps St. 7" - Qty.10	
	Allis Forceps 7" - Qty. 20	
24	Babcock Tissue Holding Forceps 7" - Qty.10	
	Probe and director - Qty.5	
	Suction Tip No. 1, 2, 3, 4 - Qty.5 Nos Each	
	Yaunker's Suction with detatchable tip - Qtv.5	
	Mixture Clamp 7" - Qty.5	
	Langenback Ret MEDIUM - Qty.10	
30	Langenback Ret SMALL - Qty.10	
	"C" Shaped Retractor (pair) small & med - Qtv.10 Each	
32	Sponge Holder 8" - Qty, 20	
33	Skin hook sharp - Qty.10	
	Vein loops - City.10	
	S.S.Bowls 10 cm - Qty.20	
	S.S. Kidney tray 12" - Qty.10	
	Standards and Safety Requirements	
	Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
	CE or USFDA approved product certificate.	
	Warranty	
	worstime to the control of the contr	
3.1	Completicity Williams for Experience deceptance.	

28 Autoclave (300 L)

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	, , .
- 11	Model No.:	
III	Country of Origin:	
1	Description of Function	
1.1	Autoclaves are required to sterilize objects under high temperature and pressured steam.	
2	Operational Requirements	
2.1	Suitable for hospital dressings, linen, surgical instruments, glassware, culture media and laboratory wares etc.	
2.2	Horizontal electrically heated autoclave is required.	
3	System Configuration	
3.1	Autoclave for CSSD (Central Sterile Services Department) approx. 300 L , stand alone .	
	Technical Specifications	
	Single door high pressure steam sterilizer with double walled, steam jacket and separate boiler	
	Material of construction:	
	B Sterilizer chamber SS 316	
	B Door \$\$ 316	
	B Jacket Stainless Steel	
	B Loading carriage SS 316	
	B Door Gasket : Silicon or better	
	B Insulation: fibre glass resin bonded wool or better	
	Binsulation cover: SS sheets	
	Operating temperature 121 0C – 134 0C pressure 1.1 to 2.2 kg/cm2 of steam pressure.	
	Capacity- 300 litres.	
	Digital microprocessor temperature controller with stored memory.	
	Separate cycle timer and easy to read display pressure gauges.	
	Indicating lights display all functions including heating, low water, timer operation, temperature set point and actual temperature.	
	Spring loaded safety valves and automatic vacuum breaker for jacket.	-
	Removable plug screen for chamber drain.	
	SS baffle for even steam distribution in the chamber.	
	Safety lock for door: pressure lock safety device.	
	Low water off.	
	Earth leakage breaker (ELB). Must include chart recorder for temperature and pressure, increased power rating for rapid heating applications.	
	Must include chart recorder for temperature and pressure, increased power rating for rapid heating applications. Electrical heating element to have over-temperature protection/cut out.	
	LiteCtrical neating element to nave over-temperature protection/cut out. Accessories, spares and consumables	
	Accessories, Spares are consumatives All standard accessories, Ospares are consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.	
	An statulard accessories, consumatives and parts required to operate the equipment, including all standard tools and dearing and fubrication materials, to be included in the other. Accessories:	
	PACCESSORIES. B3 dressing drums — [seamless stainless steel construction, suitable to fit into the autoclave).	
	DO de minimum of two source lid gaskets	
	B Snare heating element - 1 set	
	Layer reading element 1 Sec	
	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -20°C-60°C and relative humidity of 10-95%	
	Power supply:	
	Power supply: 380-440 V (3 Phase), 50Hz fitted with appropriate plug.	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Shall meet IEC 61010-2-040 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials.	
_	Training	
	Training Must provide user & service training.	
	was through user a service draining. Warranty	
	TWO I COUNTY OF THE PROPERTY O	
	Compensative warranty for 2 years. Maintenance Service During Warranty Period	
	manufactures service using wastering related to the control of the	
	Supplier must ensure planned preventive mannermance (PPW) along with corrective/preakdown mannermance whenever required. Documentation	
	Documentation User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Ose (Operating Internal of English Annual provide a Sestimation) and soft-copy) Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Should provide a Sestimation of Service (Technical / Maintenance) manual in English Servic	
	Jervise (recinitar) spanners increases in a construction of the co	

12.3 List of important spare parts, accessories and consumables with their part numbers and costing.

29 Hot Air Oven 60L

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
II	Country of Origin:	
1	Description of Function	
1.1	Hot Air Oven is required for heating a sample under controlled conditions.	

2.1 Microprocessor based system with PID-temperature controller with integrated auto diagnostic system with fault indicator. 3.1 Microprocessor based Hot Air Oven. 4.1 Digital display mode 4.2 Digital display mode 4.3 Digital display mode 4.3 Capacity 50 littes 4.3 Capacity 50 littes 4.4 Forced air circulation by quiet air turbine/Fan to ensure uniform temperature. 4.5 Fitted with load indicator and safety themostat take over indicator lamp. LCD/LED Indicator. 4.6 Fitted with load indicator and safety themostat take over indicator lamp. LCD/LED Indicator. 4.7 Femperature Variation +/ 1. 4.7 Femperature Range- ambient to 250 oC 4.8 Output available for data acquisition. 5. Accessories, spares and consumabley parts required for the proper operation of the above item shall be included in the offer. 6. Operating Environment 6. The unit shall be capable of perating in ambient temperature of 10°C-45°C and relative humidity of 10-95% 7. Nover supply: 200/240 V Af., 50ths single phase schuko plug. 8. Standards and Safety Requirements 8. Standards and Safety Requirements 9. Taining 9. Must provide user & service training. 9. Must provide user & service training. 1.0 Morranty 1.0 Comprehensive warranty for 2 years after acceptance. 1.1 Ministenance Service During Warranty Period 1.1 Supplier must susue planned prevently examilatenance (PM) along with corrective/breakdown maintenance whenever required. 1.2. Service (Technical / Maintenance) manual in English Should provide 2 sets/hardcopy and soft-copy) 1.1 User (Operating Bruin Human Langelle Ministenance) manual in English Should provide 2 sets/hardcopy and soft-copy) 2.1 User (Operating Bruin Human Langelle Ministenance) manual in English Should provide 2 sets/hardcopy and soft-copy) 2.2 Service (Technical / Maintenance) manual in English Should provide 2 sets/hardcopy and soft-copy) 3. User forestend paramal in English Should provide 2 sets/hardcopy and soft-copy) 3. User forestend paramal in English Should provide 2 sets/hardcopy and soft-copy) 3. User forestend para		Operational Requirements	
3.1 Microprocessor based Not Air Oven. 4. Technical Specifications 4. Technical Specifications 4. Technical Specifications 4. Digital display mode display dis	2.1	Microprocessor based system with PID-temperature controller with integrated auto diagnostic system with fault indicator.	
4 Digital display mode 4.1 Digital temperature control 4.2 Digital temperature control 4.3 Capacity 30 littes 4.4 Digital temperature control 4.5 Stated with load indicator and safety thermostal take over indicator lamp. LED/LED indicator. 4.5 Stated with load indicator and safety thermostal take over indicator lamp. LED/LED indicator. 4.7 Temperature Range- ambient to 250 oC 4.7 Temperature Range- ambient to 250 oC 5. Accessories, spares and consumables 5. Accessories, spares and consumables 6. Operating Environment 6. Operating Environment 6. Operating Environment 6. The unit shall be capable of poerating in ambient temperature of 10°C-45°C and relative humidity of 10-95% 6. The unit shall be capable of poerating in ambient temperature of 20°C-60°C and relative humidity of 10-95% 7. In jour power supply: 2002/400 VAC, 50Hz single phase schulo plug 8. Standards and Safety Requirements 8. Standards and Safety Requirements 9. Standards and Safety Requirements 9. Standards and Safety Requirements 9. Training 9. T	3	System Configuration	
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12.2 Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy) and soft-copy)			
12.3 List of important spare parts, accessories and consumables with their part numbers and costing.			
	12.3	List of important spare parts, accessories and consumables with their part numbers and costing.	

	Autoclave (75 L)	
No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Description of Function	
	Autoclaves are required to sterilize objects under high temperature and pressured steam.	
	Operational Requirements	
	Suitable for hospital dressings, linen, surgical instruments, glassware, culture media and laboratory wares etc.	
	System Configuration	
	Autoclave approx. 75I, stand alone	
	Technical Specifications	
	Single door high pressure steam sterilizer with double walled, steam jacket and separate boiler	
4.2	Material of construction:	
	BSterilizer chamber SS 316	
	B Door \$\$ 316	
	☐ Jacket Stainless Steel	
	□ Loading carriage SS 316	
	□ Door Gasket : Silicon or better	
4.3	Operating temperature 121 OC - 134 OC pressure 1.1 to 2.2 kg/cm2 of steam pressure	
	Capacity- 75 litres	
4.5	Digital microprocessor based PID temperature controller with stored memory	
	Separate cycle timer and easy to read display pressure gauges.	
4.7	Indicating lights display all functions including heating, low water, timer operation, temperature set point and actual temperature.	
4.8	Spring loaded safety valves and automatic vacuum breaker for jacket.	
4.9	Removable plug screen for chamber drain.	
4.10	SS baffle for even steam distribution in the chamber.	
	Safety lock for door: pressure lock safety device.	
4.12	Low water off.	
4.13	Earth leakage breaker (ELB)	
4.14	Must include chart recorder for temperature and pressure, increased power rating for rapid heating applications.	
	Electrical heating element to have over-temperature protection/cut out and maximum electrical power must not to exceed 4.5 KW.	
	Accessories, spares and consumables	
	All standard accessories, consumables and parts required to operate the equipment.	
5.2	Accessories:	
	8 3 dressing drums – (seam less stainless steel construction, suitable to fit into the autoclave)	
	B A minimum of two spare lid gaskets	
	B Spare heating element - 1 set	
6	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
	Power supply:	
	Tipput power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Topic period adaptive to the process and any p	
	Jaminus and Jainty requirements Must submit 1901488-2003/12-2007 for Medical Devices AND	
	wiss station (1902-1906) and the process of the pro	
	Shall meet IEC 61010-2-040 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials.	
_	Training	
	ıranıng Must provide user & service training.	
	Must provide user & service training. Warranty Warranty	
	warranty Comprehensive warranty for 2 years.	
	Comprehensive warranty for Z years. Maintenance Service During Warranty Period	
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	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts, accessories and consumables with their part numbers and costing.	1

	Autoclave (50 L)	
No.	Item Specifications	Fill your Specification
_	Manufacturer Name:	
II	Model No.:	
III	Country of Origin:	
	Description of Function	
1.1	Autoclaves are required for sterilizing an object in high temperature and high pressure steam.	
2	Operational Requirements	
2.1	Microprocessor based electrically heated vertical steam sterilizer	
3	System Configuration	
3.1	Microprocessor based Autoclave (Vertical Model) with complete accessories.	
4	Technical Specifications	
4.1	capacity: approx. 50 L.	
4.2	Vertical type.	
4.3	Stainless steel.	
4.4	Digital controlled temperature and pressure system.	
4.5	Steam sterilization, up to 134° C	
	Digital temperature and pressure gauges.	
4.7	Safety devices : over heat (low water cut-off switch , safety valve and release valve)	
4.8	Automatic controlled sterilization cycle.	
4.9	2 modes sterilization (121°c - 134°c)	
4.10	Exhaust system.	
4.11	Stainless steel basket.	
4.12	Double wall case.	
5	Accessories, spares and consumables	
5.1	All standard accessories, consumables and parts required to operate the equipment.	
5.2	Spare heating element- 1 set	
5.3	A minimum of two spare lid gaskets	
6	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
7	Power supply:	
7.1	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
8	Standards and Safety Requirements	

8.	1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
8.	2 CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
8.	shall meet IEC 61010-2-040 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials.	
	9 Training	
9.	1 Must provide user & service training.	
1	0 Warranty	
10.	1 Comprehensive warranty for 2 years.	
1	1 Maintenance Service During Warranty Period	
11.	1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
1	2 Documentation	
12.	1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
12.	2 Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
12	2 List of important coars parts, accordarias and consumables with their part numbers and corting	

| Authority 1962 | See Section 1

33 Microbiology Safety Cabinet II

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
	Microprocessor controlled Class-2 type A2 biological safety cabinet suitable for working with microorganisms assigned to biological safety levels 1, 2 & 3, providing full protection to personnel, specimens and environment.	
	NSF International standard 49 / EN 12469 certified and tested. Certificate is to be provided along with HEPA H14/ULPA filters on inflow as well as exhaust with an efficacy of 99.999% for equal or more than 0.3 u size particles (DOP test Certificate to	
	be produced).	
	30% exhaust air via high performance exhaust filter and 70% air should be recirculated.	
	Dimensions of work chamber in the range of 1100-1300 mm (L), 500-700 mm (W), 550-800 mm (H).	
	Main body made up of rust proof stainless steel single piece (sides and back wall).	
	Main door index by or index promovement in all directions in the chamber (Comfort for users while working). Safe and erronmic design for movement in all directions in the chamber (Comfort for users while working).	
	Siliding front window, electrically operated, made up of safety (UV) glass, completely tight sealed while closed for complete protection	
	seainst contamination and functions between the states of	
	Spanis containing the temperature of the temperatur	
	TWO persons to resultations are consistent to work only when the front panel is fully closed.	1
_	Display of the following parameters:	1
	Departy of the Conforming Definition of Jarms. A Obtical & Constitution of Jarms.	
	to Operate acceptance internation of districts.	
	s. Low down flow air velocity.	
	d. Impulsion/exhaust fan malfunction.	
	c. mjournation (smith digital display).	
	E. Edward flow in m3/hr.	
	1. Camus an row in rejon. R. Laminar for a rejon; in m/sec.	
	E. Carmian from an enter for IV.	
	in. Labject mod meter in GV. (abject propriature	
	i. Cabinet remperature remperature. Stainless steel an under working surface to allow safe collection of soilled fluid.	
	Justinius Steen Jean Linguist working surrace to anow sare conection or spinet minu. Low noise level <558BA Low noise level <558BA	
	Low most reven would be a both ends for eas.	
	Jervice purs with supports at our miss for gas. Minimum one electrical socket inside the chamber.	
	william one electrical societies and the control of	
	Light interiasty in the working chamber should not be less than 2000 tax. Working aperture 200 - 220 mm.	
	working operture 200-220 min. It should have an adiustable chair and a foot rest.	
	To shook have an adjustance claim and an accompatible wheel trolley.	
	Launier should be mounted on a completione white it outley. Leakage of University of the should be should	
	reasage of OV rays and to ensure contaminant or potential nazaroous material. Essential Accessories	
	ESSETILED ALLESSORIES One inflow HEPA HIL4/IU.PA filter and (Original & compatible to the cabinet. DOP tested)	
	Une Introv HEVA HAP/ULVA TREE and Unignal & comparison to the datinet, DUV tested) should be supplied in addition by the firm with each of the cabinets as soare accessories.	
	snoon be supplied in additional by the min with each of the capitals as spare accessories. Input power supplied in 200 ± 20 × 10 × 10. Sept.	
_	INDUIT DOWER SUDDITY. ZO ZO ZO W N. N. C., SUNZ. Operatine Environment	
	Uperating Environment The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	ine product ordered shall be designed to be stored and to operate normally under rower with purple, time product ordered shall be designed to be stored and to operate normally under rower with purple, time to produce the removal of the product ordered shall be designed to the product of the rower purple, to produce the rower purple, the product of the rower purple. The power pulph, 2-20-2401/5 of the AC Single phase with appropriate plug. The power work is minimum 3 Meters.	
	Power supply: Z.DZAUV, Su rz. AL. Single phase with appropriate pile, I ne power cable must be minimum as weter Suitable UPS with maintenance free batteries for minimum one-hour back-us should be supplied with the system.	
	Suitable UPS with maintenance tree datteries for minimum one-nour back-up should be supplied with the system. Standards and Safety Requirements	
	Standards and Safety Requirements Must submit ISD 13485-2003 / Acc 2007 for Medical Devices AND	
	Must summt ISDI34852/2001/for Medical Devices AND CE (93/42 EEC Insertives) or USP Don or TIV approved product certificate.	
	LE (93/42 EEL Directives) or US-IDA or TUV approved product certificate. USER Taining USER Taining	
	Must provide user training (including how to use and maintain the equipment).	1

5.1 Comprehensive warranty for 2 years after acceptance.	
6 Maintenance Service During Warranty Period	
6.1 During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
7 Installation and Commissioning	
7.1 Supplier must accomplish proper installation and commissioning of the equipment on site.	
8 Documentation	
8.1 User (Operating) manual in English	
8.2 Service (Technical / Maintenance) manual in English	
0.3 List of important cases posts and consequences with their and symbols and casting	

34 Chemistry Analyzer (2007/HR)

No.	Item Specifications	Fill your Specification
NO.	Manufacturer Name:	riii your specification
	Manutaturer Name: Model No.:	
	Country of Origin: Technical Societification	
1		
	Fully automated, latest and bench top analyzer to perform the analysis of substrates, enzymes	
	and special parameters from whole blood, serum, plasma and urine samples	
	System should be Discrete, fully selective random access with a provision to test STAT samples	
	System should have four different on-board technologies (Photometry, Potentiometry, Fluorescence Polarization and Turbidimetry) to measure substrates, enzymes, Homogeneous immunoassays, TDM's and Drugs.	
	System should have facility for programming 125 - 150 different test parameters and the reagents should be available from the same manufacturer.	
	System should have a routine throughput of 200 tests / hr	
	Onboard sample capacity should be at least 90 or more	
	Flexibility to use different sample containers like primary tubes with different sizes, sample cups, micro cups and cup on tube for easy processing.	
	Facility to keep reagent bottles / cassettes for at least 30 common tests with on board refrigeration is must.	
	Sample volumes should be less than 2 - 10 ul per test.	
	System should have high sensitive pressure sensors to detect any incorrect pipetting even at 2 ul sample volume	
	Onboard sample and calibrator dilution should be available (1 – 100 times)	
	System must use disposable cuvettes to prevent any carryover without using any onboard washing	
	System should be used for testing special parameters like HbA1c, Lactate, hsCRP, D-Dimer, Ferritin, IgA, IgM, IgG, ASO, Cyclosporine, MPA and electrolytes (Na, K and CI), TDM, DAT tests besides the routine clinical parameters.	
	On-board reagent stability should be for at least 3 months and calibration of the parameter.	
	should be typically with lot. No daily calibration should be required by the system to save the reagents.	
	System should have 12 wavelength photometer with mono and bi-chromatic measurements.	
	Light source should be 20 W halogen lamp with lamp save feature.	
	System should have external windows NT based data control work station with flat screen monitor for programming the tests and entering the patient data.	
	System should external printer to take printout of patient results.	
	Patient samples and Reagents can be scanned with barcode scanner for easy operation.	
	System should have 1 x RS 232 bidirectional interface and in-built modem for remote diagnostics access.	
2	Operating Environment	
	The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%.	
	The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%.	
3	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Suitable UPS with maintenance free batteries for minimum 30 min. back-up shall be supplied with the system.	
4	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	Should be FDA/CE/BIS approved product.	
	Shall meet internationally recognised for Electromagnetic Compatibility[EMC) for electromedical equipment: 61326-1.	
	Certified to be compliant with IEC 61010-1, IEC 61010-2-281, 61010-2- 101 for safety.	
5	User Training	
	Must provide user training (including how to use and maintain the equipment).	
6	Warranty	
	Comprehensive warranty for 2 years from acceptance.	
7	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.	
8	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 user in advance, in detail.	
9	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts and accessories with their part number and costing.	

35 Colorimeter

Manufacture Name: Manu	Fill your Specification
Ill Country of Origin:	
1 Description of Function 1. General purpose colorimeter use in clinical laboratory. 2 Descriptional Requirements 2. Illiforgrossor controlled system. 3. System Configuration 3.1 Colorimeter with complete accessories. 4 Technical Specifications 4.1 Must have 8 no of fifters wave length from 340 nm to 730 nm. 4.2 Must have 8 no of fifters wave length from 340 nm to 730 nm. 4.3 Detector must be encased soil proof photocell. 4.4 Detector must be encased soil proof photocell. 4.5 Lamp source: Broad spectrum (ED or halogen covering full visible range 5 Accessories, spares and consumables 8 Source and round curette m inimum volume 1 ml. 8 Govertes: 91 nos 8 Esource and round curette m inimum volume 1 ml. 8 Govertes: 91 nos 8 Lamps: 0.2 nos 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.	
1.1 General purpose colorimeter use in clinical laboratory. 2 Operational Requirements 2.1 Microprocessor controlled system. 3 System Configuration 3.1 Colorimeter with complete accessories. 4 Technical Specifications 4.2 Must have 8 not of listers wave length from 340 nm to 730 nm. 4.2 Must have 8 not of listers wave length from 340 nm to 730 nm. 4.3 Detector must be encased soil proof photocell. 4.4 Must have 8 not diffisher swave length from 340 nm to 730 nm. 4.5 Issuer and concentration, calculation, percentage transmission and optical density. 4.5 Issuer sware from the service of the state	
2 Decrational Requirements 3 System Configuration 3.1 Colorimetre with complete accessories. 4 technical Specifications 4.1 Must have 8 no of filters wave length from 340 nm to 730 nm. 4.2 Must have 9 2 digit LED display calibrated directly in optical density. 4.3 Detector must be encased soil proof photocell. 4.4 Must have a 2 digit LED display calibrated directly in optical density. 4.5 Lamp source: Broad spectrum LED or halogen covering full visible range 5 Accessories, sparse and connectration, calculation, percentage transmission and optical density. 4.5 Lamp source: Broad spectrum LED or halogen covering full visible range 5 Accessories, sparse and connectration, calculation. 8 Govertes: 9 nones 8 Source and round curette m inimum volume 1 ml. 8 Covertes: 9 nones 8 Lamps: 0.2 nos Alt 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.	
2.1 Microprocessor controlled system. 3 System Configuration 3.1 Colorimeter with complete accessories. 4 Technical Specifications 4.1 Must have 8 no of filters wave length from 340 nm to 730 nm. 4.2 Must have 8 no of filters wave length from 340 nm to 730 nm. 4.3 Detector must be encased soil proof photocol line of the state	
3 System Configuration 3.1 Colorimetre with complete accessories. 4 sechnical Specifications 4.1 Must have 8 no of filters wave length from 340 nm to 730 nm. 4.2 Must have 9 2 digit LED display calibrated directly in optical density. 4.3 Detector must be encased soil proof photocell. 4.4 Must have 8 2 digit LED display calibrated directly in optical density. 4.5 Lamp source: Broad spectrum LED or halogen covering full visible range 5 Accessories, sparse and concentration, calculation, percentage transmission and optical density. 4.5 Lamp source: Broad spectrum LED or halogen covering full visible range 5 Accessories, sparse and consumables 8 Source and round curette m inimum volume 1 ml. 8 Covertes: 01 nos 8 Lamps: 02 nos Alt 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.	
3.1 Colorimeter with complete accessories. 4 Technical Specifications 4.1 Must have 8 no of filters wave length from 340 nm to 730 nm. 4.2 Must have 2 2 digit EU display calibrated directly in optical density. 4.3 Detector must be encased still proof photocol. 4.4 Must have facilities for concentration, calculation, percentage transmission and optical density. 4.5 Lamp source: Broad spectrum ED or halogene covering full visible range 5 Accessories, sparse and consumables 8 Source and round covette m inimum volume i ml. 8 Covertes: 10 nos 8 Lamp: 0.2 nos 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.	
4 Technical Specifications 4.1 Must have 8 no of filters wave length from 340 nm to 730 nm. 4.2 Must have 8 no of filters wave length from 340 nm to 730 nm. 4.3 Detector must be encased spill proof photocell. 4.3 Detector must be encased spill proof photocell. 4.4 Must have facilities for concentration, calculation, percentage transmission and optical density. 4.5 Liams source: Broad spectrum LED or halogen covering full visible range 5 Accessories, spares and consumables 6 Source and round curette minimum volume 1 ml. 8 Covertes: 01 nos. 8 Liams: 02 nos. 8 Liams: 02 nos. Alt 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.	
4.1 Must have 8 no of filters wave length from 340 nm to 730 nm. 4.2 Must have a 2 digit LD display calibrated directly in optical density. 4.3 Detector must be encased soil proof photocell. 4.4 Must have facilities for concentration, calculation, percentage transmission and optical density. 4.5 Lamp source: Broad spectrum LEO or halogen covering full visible range 5 Accessories, sparse and consumables 8 Source and round curette minimum volume 1 ml. 8 Covertes: 10 nos 8 Lamp: 0.2 nos 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.	
4.2 Must have a 2 digit LED display calibrated directly in optical density. 4.3 Detector must be encased soil moor photocoll. 4.4 Must have facilities for concentration, calculation, percentage transmission and optical density. 4.5 Lamp source. Broad spectrum LED or halogen covering full visible range 5. Accessories, spares and consumables B Source is not consumable is not consumable in the source is not consumable	
4.3 Detector must be encased spill proof photocell. 4.4 Must have facilities for concentration, calculation, percentage transmission and optical density. 4.5 Lamp source: Broad spectrum ED or halpens covering full visible range 5 Accessories, sparse and consumables 8 Source and round curette minimum volume 1 ml. 8 Covrettes 10 nos. 8 Lamp: 02 nos 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.	
4.4 Must have facilities for concentration, calculation, percentage transmission and optical density. 4.5 Lamp source: Broad spectrum LED or halogen covering full visible range 5 Accessories, spares and consumables B Square and round curette minimum volume Lml. B Cycertes: 30 nos B Lamp: 0.2 nos 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.	
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B Square and round cuvette minimum volume 1 ml. B Cuvettes 10 nos B Lamp: 02 nos 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.	
B Covettes 10 nos. B Lamp: 02 nos 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.	
B Lam pt: 02 nos 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.	
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.	
6 Operating Environment	
6.1 The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6.2 Power supply: 220-240V/50 Hz AC Single phase with appropriate plug. The power cable must be minimum 3 Meter	
7 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.	
7.3 Must comply with IEC 61010 Safety requirements for electrical equipment for measurement, control, and laboratory use	
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 on site.	
12 Documentation	
12.1 User (Operating) manual in English	
12.2 Service (Technical / Maintenance) manual in English	
12.3 List of important spare parts and accessories with their part numbers and costing.	

36 Incubator for Lab

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specification	
	Size of inner chamber: 100-150 liters capacity.	
	Double walled construction with complete inner chamber made of highly polished stainless steel	
	Outer chamber should be of steel sheet finished with powder coated point	
	Insulation to maintain desired temperature	
	Inner chamber should be fabricated with ribs for adjusting shelves to convenient height and 3 shelves to be supplied	
	Shelves should be made of polished stainless steel sheet as per chamber	
	Doors to be insulated and fitted with heavy hinges and should have double glass window	
	Temperature should be thermostatically controlled with range from 20-80° C. Air ventilators to be provided on both side	
	The equipment should be provide with control panel having a thermostat control knob, on-off switch, pilot lamp and timer, digital indicator	
	Operating Environment	
	The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%	
	The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Suitable UPS with maintenance free batteries for minimum 30 min. back-up shall be supplied with the system.	
	Standards and Safety Requirements	
	Must submit ISO12495-2002/AC-2007 for Madical Devices AND	l

Should be FDA/CE approved product.	
Shall meet internationally recognised for Electromagnetic Compatibility(EMC) for electromedical equipment: 61326-1.	
Certified to be compliant with IEC 61010-1, IEC 61010-2-281, 61010-2-101 for safety.	
5 User Training	
Must provide user training (including how to use and maintain the equipment).	
6 Warranty	
Comprehensive warranty for 2 years from acceptance.	
7 Maintenance Service During Warranty Period	
During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.	
8 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 user in advance, in detail.	
9 Documentation	
User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
List of important spare parts and accessories with their part number and costing.	

37 Hematology Analyzer S Part Differential

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
	Description of Function	
	A 5-part differential hematology instrument uses the principle of flow cytometry to differentiate white blood cells (WBC) into their five major sub-populations—neutrophils, lymphocytes, monocytes, eosinophils, and basophils—based on cell size and	
	complexity (granularity). A 5-part differential hematology instrument uses the principle of flowcytometry to differentiate white blood cells (WBC) into their five major sub-populations—neutrophils, lymphocytes, eosinophils, and	
	basophils—based on cell size and complexity (granularity).	
2	Technical Specifications	
_	The Principle should be Flow cytometry and multi-angular laser scattering, Electric impendance method and Colorimetry method	
	Should accept two modes of sampling: Whole blood, pre-diluted blood	
	Sinound accept two mouses of sampling - whose broods, pre-undeed broods System should be fully Automatic.	
	System should be tony recommende. Throughput:	
	Intrographic. Up to 125 samples per hour (CBC+DIFF)	
	Up to 1.25 samples per nour (Exc-tulier) Up to 90 samples per hour (Exc-tulier) Up to 90 samples per hour (Exc-tulier)	
	Up to 40 samples per hour (body fluid)	
	Loading capacity:	
	Up to 100 sample tubes	
	Data storage capacity:	
	Up to 100,000 patient results including all numeric and graphical	
	Should include 36 reportable parameters (whole blood): WBC, Lym%, Mon%, Neu%, Bas%, Eos%, IMG%, Lym#, Mon#, Neu#, Eos#, Bas#, IMG#; RBC, HGB, HCT, MCV,MCH, MCHC, RDW-CV, RDW-SD, RET%, RET#, IRF, LFR, MFR, HFR, NRBC#,NRBC%; PLT,	
	MPV, PDW, PCT, P-LCR, P-LCC, IPF.	
	Body fluid mode	
	Shall have fully automatic, open system.	
	Sample volume: < 30ul.	
	Calibration: independent automated calibration and manual calibration for minimum two test modes.	
	Typical counting time: approximately 60 seconds for differential.	
	Shall have with self-test canability.	
	Jainst rever with services capability. Display: ECS screen.	
	Usasies, Los sactest. Indication of self-test failures and assistance messages, sample ID, date and time are reported with test results.	
	Inducation to services rander additionable report the control of t	
	Supplier Complete with detailed and analysis and data management software. Results are reported on extended lake printer.	
	Shall have built-in RS232, USB2.0 or equivalent, for allowing data transfer and network capability via LIS.	
	On board memory for about 100-150 tests records.	
	Bar code scanner included	
	LAN Connection	
	storage capacity about 200000 result minimum.	
	ability to view 5 parts differential in histogram	
	Shall quote rates for reagents & consumables, calibrators & controls, printer paper, separately and it must be valid for at least 3 years.	
3	Accessories, spares and consumables	
	Reagents for 500- 1000 reaction should be provided with the instrument.	
	Laptop and printer.	
	Suitable on - line UPS (about 2 KVA) is required to support the instrument.	
	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.	
- 4	Operating Environment	
	Operating Environment. The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	The product office and be designed to be stored and to operate normally under your supply, climate, reimperature, runnoutly, etc. for soutant. Power supply 22-2404/50 Hz AC Single phase with appropriate plug. The power capible must be minimum 3 Meter the product of the produ	
_	Power supply: Z.D24.0V; So trz A.C. Single phase with appropriate ping; The power capie must be minimum a wieter Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate	
	Must comply with IEC 61010 Safety requirements for electrical equipment for measurement, control, and laboratory use	
- 6	User Training	
	Must provide user training (including how to use and maintain the equipment).	
7	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
8	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
9	Installation and Commissioning	
	Supplier must accomplish proper installation and commissioning of the equipment on site.	
10	Documentation	
	User (Operating) manual in English	
	Service (Technical/ Maintenance) manual in English	
	List of important spare parts and accessories with their part numbers and costing.	

38 Hormone Analyzer 36 Test/Hr

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
	Fully automated, sample selective analyzer for heterogeneous immunoassays, continuous loading, self contained Min. throughput 30 results/hr Serum, Plasma	
	Specify Load/unload capacity	
	Specify Number of Rack positions, RD standard	
	Specify Number of Tray (racks/ samples)	
	processed with priority	
	Primary tubes: 5 to 10ml; 16x100, 16x75, 13x100, 13x75mm	
	Sample cup: 2.5ml Cup on tube:	
	Cup on tube: Cup on top o a 1£x75/100mm 5 to 50µl	
	Ready to use Rack Packs with 2-D barcode temperature controlled reagent compartment	
1 -	(20°C) onboard capacity max. 15 tests 180 disposable cups	
	360 disposable tips (Assay Tip), liquid level and clot detection, sample and test specific dilution	
	Colored touch-screen monitor, customized keyboard and computer	
	RS 232 serial interface, bi-directional, query and batch mode	
	Running cost details important and all start up kits neede for operation and calibration	
	Running cost details important and all start up kits neede for operation and calibration	
2	Operating Environment	
	The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%	
	The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%	
3	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Suitable UPS with maintenance free batteries for minimum 30 min. back-up shall be supplied with the system.	
4	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	Should be FDA/CE/BIS approved product.	
	Shall meet internationally recognised for Electromagnetic Compatibility[EMC] for electromedical equipment: 61326-1.	
	Certified to be compliant with IEC 61010-1, IEC 61010-2-281, 61010-2- 101 for safety.	
5	User Training	
	Must provide user training (including how to use and maintain the equipment).	
6	Warranty	
	Comprehensive warranty for 2 years from acceptance.	
7	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.	
8	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.	
9	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts and accessories with their part number and costing.	

	Item Specifications	Fill Your Specifications
	ELISA Reader	riii roui specifications
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
	Description of Function	
	ELISA Reader is required to Read the Color Density known as OD (Optical Density) in ELISA (Enzyme Linked Immuno-Sorbent Assay.) Plates.	
	Operational Requirements ELISA Reader complete with Printer is required.	
	Exchange Complete with Finder 13 required. Technical Specifications	
3.1	Should have 8-12 measuring channel & reference channel	
	Should have wave length range of 340-750 nm 6 filters 340, 405. 450, 492, 540, 630nm with provision for fitting any additional filters	
	Should have an absorption range of 0-4.000A	
	Should have a resolution of 0.001A	
	Should read within 6-8 seconds The control panels should have soft color touch screen display, capable of showing graph etc.	
3.7	Should have external & internal programmable time & speed shaking	
	Should be able to read all types of plates	
3.9	Should have a single halogen lamp with save features as light source	
	Should have user defined programs 30 or more.	
	RS232/USB output for Printer, PC connectivity and Data acquisition should be there	
	Should have data memory of 300 plates. Should have data memory of 300 plates. Should have data memory of 300 plates.	
3.14	anound neve external primer, logistation on intermining complete results at groups extended and spike protection for 30 minutes back-up. Should come with UPS for the system (Washer & Reader) of suitable rating with voltage regulation and spike protection for 30 minutes back-up.	
	System Configuration Accessories, spares and consumables	
4.1	System as specified.	
	Halogen Lamps : 2	
4.3	External Printer	
	Dust Cover -01 Set of pipettes consisting of single channel variable volume color pipettes 0.5-10 ul, 5-40 ul, 40-200 ul, 200-1000 ul	
	set or piectes consisting of single channel variable volume 500 or piectres U.S10 UI, 3-40 UI, 3-00 UI, 3-00 UI, 3-00 UII (3-00 UII) (3-00 UIII) (3-00 UIII) (3-00 UIII) (3-00 UIII) (3-00 UIII) (3-00 UIIII) (3-00 UIIIII) (3-00 UIIIII) (3-00 UIIIII) (3-00 UIIIIII) (3-00 UIIIIIII) (3-00 UIIIIIIIII) (3-00 UIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
	o claimint variable volume con materialismine paperies 2-30 or and 2-2-300 of. Operating Environment	
5.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
5.2	Power supply: 220-240V/ 50 Hz AC Single phase with appropriate plug. The power cable must be minimum 3 Meter	
6	Standards and Safety Requirements	
6.1	Must submit (S013485:2003/AC-2007 for Medical Devices AND C. (2014) C. (2014	
	EE (93/42 EEE Directives) or USFDA approved product certificate. Must comply with IEE 6.1010 Safety requirements for electrical equipment for measurement, control, and laboratory use	
	was comply with EC 20200 safety requirements for electrical equipment for measurement, control, and above acry use	
	On site operational training till the familiarity of the system and satisfaction of end user shall be provided.	
8	Warranty	
8.1	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
9.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required. Installation and Commissioning	
10.1	Installment and Commissioning Supplier must accomplish proper installation and commissioning of the equipment on site.	
11	Documentation	
11.1	User (Operating) manual in English	
	Service (Technical / Maintenance) manual in English	
	List of important spare parts and accessories with their part numbers and costing.	
	EUSA Washer Manufacturer Name:	
	wanuscurer value. Model No.:	
	Country of Origin:	
	Description of Function	
	A washer for microtitre plates designed to ensure thorough washing of reagents between Enzyme-Linked Immunosorbent Assay (ELISA) steps.	
2	Operational Requirements	
2.1	8 channel System Configuration	
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3.1		
	Technical Specifications	
4.1	8-channel strip manifold, open system.	
4.1 4.2	8-channel strip manifold, open system. Rinse & prime programme.	
4.1 4.2 4.3	8-channel strip manifold, open system. Rinse & prime programme. Rinse & prime pr	
4.1 4.2 4.3 4.4	8-channel strip manifold, open system. Rinse & prime programme. Wash parameters include: 16-character assay name, number of cycles, wash volume, flow rate and variable soak times. Dispense only and aspirate only modes for reagent addition and removal.	
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4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.10 4.11 4.12 4.13 4.14 4.15 6.1 6.2 6.3 7 7 7.7 7.2 7.3 8 8.1 9 9 9 10 10 11 11 11 11 11 11 11	8 channel strip manifold, open system. Wash parameters include: 16 character assay name, number of cycles, wash volume, flow rate and variable soak times. Dispense only and aparize only modes for reagent addition and removal. Shall have built-in multi-speed shaler for improved CVs and reduced assay backgrounds. Shall have built-in multi-speed shaler for improved CVs and reduced assay backgrounds. Shall have built-in multi-speed shaler for improved CVs and reduced assay backgrounds. Shall have built-in multi-speed shaler for improved CVs and reduced assay backgrounds. Shall have built-in vacuum & pressure pump assembly. Botton for waste rines and wash. Accommodates ERL U or V-shape bottom plates. Wash cycles: Between 1-10. Shall have built-in vacuum & pressure pump assembly. Bottles for waste rines and wash. Shall have built-in vacuum & pressure pump assembly. Bottles for waste rines and wash. Accommodates ERL U or V-shape bottom plates. Wash cycles: Between 1-10. Shall have built-in vacuum & pressure pump assembly. Bottles for waste rines and wash. Accommodates ERL to V-shape bottom plates. Wash cycles: Between 1-10. Shall have built-in vacuum & pressure pump assembly. Bottles for waste rines and wash. Accommodates ERL to V-shape bottom plates. Wash cycles: Between 1-10. Shall have built-in vacuum assembly built-in vacuum as	
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40 Blood Gas Analyzer

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
III	Country of Origin:	
1	Description of Function	
	Blood gas analysers are used to measure blood gases, electrolytes, pH values and biochemical parameters of the blood	
2	Technical specifications	
	Automated analyzer	
	Compact system for measuring pH, pCO2, pO2, -HCO3 in blood	
	Fast and accurate result of test made available in about 60 seconds.	
	May have provision of modular platform for further up gradation to include glucose, lactate & hemoglobin.	
	Built in printer	
	Barcode reader for reagents and other consumables, patient ID and quality control data	
	Automatic aspiration from syringe or capillary Sample size: approximate 250ul – 50ul	
	Easy-to follow computer assisted guidance for operator	
	Sample type: whole blood, serum, plasma	
	All parameters must be measured from a single sample	
	Approximate time for analysis: around 2 minutes	
	Automatic calibration, programmable 1 and 2 point calibration; in case of non-automatic calibration,	
	Please provide the calibration kit.	
	Data storage: approximate 500 patients	
	Ambient temperature:18 - 30 °C	
	Reagents and waste level detection by software	
	Save mode	
	Measurable parameters (approximate measurable ranges):	

	ph 6.5 - 7.8	
	pCO2 10 - ISO mmHg	
	pO2 10 - 700 mm Hg	
	Gluc 20 - 500 mg/dl or better	
	tHb 5 - 25 g/dL and/or Hct 15-60%	
	ctHb mmol/l 0.5 – 16.5	
	soz o - 100%	
	f02Hb 0 = 100%	
	fCOHb 0 – 100%	
	fMethb 0 – 100%	
	fhHb 0 = 100% optionally	
	Calculated parameters (approximate calculated ranges):	
	HCO3 0 - 100mmol/L	
	BE-30 - 30 mmol/L	
	tCO2 0 - 100mmol/L	
	pH(T) 6.5 - 7.8	
	N 0-10	
	02SAT 15-100%	
	Connection to PC at least R5 232	
	Self diagnosis system	
	No maintenance required for the electrodes	
3	Consumables:	
	Specify all Consumables for 2 year (with a usage rate of min 10 tests/day)	
	sensor cards (box)	
4	Power Supply	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Suitable UPS with maintenance free batteries for minimum 30 min. shall be supplied with the system.	
5	Environmental factors	
	The unit shall be capable of being stored continuously in ambient temperature of 0 -55deg C and relative humidity of 15-90%	
	The unit shall be capable of operating in ambient temperature of 20-50 deg C and relative humidity of 80%	
6	Standards and safety	
	Should be FDA or CE approved product certificate.	
	User Training	
	Must provide operating and service trainings	
	Warranty	
	Comprehensive warranty for 2 years.	
8	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts, accessories and consumables with their part numbers and costing.	

41 Electrophoresis

No.	Item Specifications	Fill your Specification
1 -	Manufacturer Name:	
	Model No.:	
- 1	Country of Origin:	
	Technical specifications	
	The equipment should meet the following specifications:	
	The instrument should be bareh for automated aggree get hased electrophoresis system with sequential processing of each electrophoresis sten from application, migration, incubation, staining, destaining, during scanning and quantification to	
1.	allow walk-away operation.	
1.	Haemoglobin/ CSF/ Transferrin Isoelectric Focusing.	
	It should have a wide Test Menu which include: Alkaline Haemoglobin electrophoresis; Acid Haemoglobin electrophoresis; Serum Protein electrophoresis; Immunofixation; Bence-Jones protein electrophoresis and Immunofixation; Pentavalent	
1.	Immunofixation and provision to upgrade for future use in Hb/ CSF/ Transferrin Isoelectric Focusing; High resolution (H.R), and Split Beta Serum Protein electrophoresis; SDS Urine Protein electrophoresis; Upoproteins; Cholesterols, LDH Isoenzymes; CCK Isoenzymes; Park J Broenzymes	
1.	It should be able to perform tests on urine and CSF without concentration.	
	The system should have capacity to run at least 20 protein samples, 12 haemoglobin samples and 6 immunofixations simultaneously on one gel.	
	The system should have option for simultaneous run of blood, urine and CSF samples.	
	The system isloud have updo on a simulateous run or updo, unite and CSF satispies. The system isloud have updo on a simulateous run or updo, unite and CSF satispies. The system isloud have updo on a simulateous run or updo, unite and CSF satispies.	
	Interspection of the state of t	
	The system should have automatic regulation of voltage, current, power and volt hour.	
) In a system should nearly automatic regulation or voltage, current, power and voit nour. If the temperature control on the instrument should be precise, Petite reflect driven.	
	I he temperature control on the instrument should be precise, vertiler effect driven. The system should have facility for on-board reasents.	
	The system should be compatible with ready to use, pre-standardized reagent kits.	
	The system should have capacity for user defined programming for at least 15 methods.	
	The drying in the system should be by convection heater with laminar air flow.	
	The staining compartment of the system should be able to operate at least 6-8 different reagents/ stains.	
	The system should be supplied with compatible gel scanner/ densitometer and easy to use intuitive software for gel quantification and analysis.	
	The instrument should have optimal patient data storage facility.	
	The instrument should allow customizable reporting formats and print outs of graphical reports including results, images, traces, demographics and logos.	
	9 The instrument should have compact foot print.	
	2 The instrument should have voltage range of 3.5 to 350 V, current range of 3.5 to 200 mA and power range of 0 to 30 W.	
	1 The instrument should be capable of quality control measures such as automatic Levey Jennings analysis, standard deviations and flagging of normal and abnormal results.	
	2 To be supplied with computer (minimum i5 processor, 500 GB HDD and 4 GB RAM), A4 size laser printer and appropriate bar code reader.	
	3 24. Start-up kit for at least 100 tests should be provided free of cost.	
	2 Power Supply	
2.	1 Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
2.	2 Suitable UPS with maintenance free batteries for minimum 30 min. shall be supplied with the system.	
	Environmental factors	
3.	The unit shall be capable of being stored continuously in ambient temperature of 0 -55deg C and relative humidity of 15-90%	
3.	The unit shall be capable of operating in ambient temperature of 20-50 deg C and relative humidity of 80%	
	Standards and safety	
4.	Should be FDA or CE approved product certificate.	
	Suser Training	
	Must provide operating and service trainings	
	Warranty Warranty and service domining.	İ
	3 Comprehensive warranty for 2 years.	
	Documentation Documentation	
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42 Water Distiller SL/HR

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
II	Country of Origin:	
	Technical Specifications	
	Minimum Distilled water output: 5L/h	
	Maximum water supply required: 11/min	
	Flow regulator for water supply	
	Conductivity of water produced: 2 µS/cm or less	
	Automatic cut-out for low water level in the boiler	
	Automatic switch off when distillate reservoir is full	
	Heating elements should be silica glass sheathed	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220-240V/ 50 Hz AC Single phase with appropriate plug. The power cable must be minimum 3 Meter	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Installation and Commissioning	
	Supplier must accomplish proper installation and commissioning of the equipment on site.	
	Documentation	
	User (Operating) manual in English	
	Service (Technical / Maintenance) manual in English	
	List of important spare parts and accessories with their part numbers and costing.	

43 Automated Blood Culture Machine

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	

1	Technical Specifications	
	The system should be fully automated, continuous Monitoring Technology.	
	Should have simple user interface for enhanced ease of use i.e any lab staff member can load the bottles.	
	Should have colorimetric/ fluoroscent sensor in each bottle for rapid, visual detection of positives prior to entry.	
	Advanced algorithms for individual bottle types, for special circumstances.	
	Data management systems with bar-code scanning capabilities.	
	Should have fully automated quality control.	
	Bottle should have media to detect Bacteria & Yeast in one bottle only.	
	Should have seamlessly integrated modular unit for culturing blood of minimum 200 samples.	
	Should have software for contamination tracking, blood volume quality indicator reporting, time to detection and positivity & negativity detection rates.	
	Should be able to interface bi-directionally to an LIS.	
	UPS of adequate capacity and latest PC configuration to be provided.	
	Temperature: 68 degrees F to 86 degrees	
	Relative Humidity: 10% to 85%	
2	Accessories, spares and consumables	
	Reagents for 500-1000 reaction should be provided with the instrument.	
	Suitable on - line UPS (about 2 KVA) is required to support the instrument.	
	Consumables should have high stability and long shelf life.	
	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.	
3	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220-240V/ 50 Hz AC Single phase with appropriate plug .The power cable must be minimum 3 Meter	
4	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate	
	Must comply with IEC 61010 Safety requirements for electrical equipment for measurement, control, and laboratory use	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
6	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
7	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
8	Installation and Commissioning	
	Supplier must accomplish proper installation and commissioning of the equipment on site.	
9	Documentation	
	User (Operating) manual in English	
	Service (Technical / Maintenance) manual in English	
	List of important spare parts and accessories with their part numbers and costing.	
	Should be FDA or CE approved product certificate.	
	User Training	
	Must provide operating and service trainings	
	Warranty	
	Comprehensive warranty for 2 years.	
	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
12.2	List of important spare parts, accessories and consumables with their part numbers and costing.	

44 Real Time PCR Machine

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
1	Description of Function	
	A real-time PCR detection system consists of a thermal cycler equipped with an optical detection module to measure the fluorescence signal generated during each amplification cycle as the fluorophore binds to the target sequence.	
2	Technical Specifications	
	The system should be automated DNA and RNA purification systems for both real-time PCR and post-PCR (end point) analysis using in-built Peltier based PCR machine.	
	System should support applications including absolute quantitation, simultaneous analysis data for relative quantitation of Unlimited plates of 96 wells each, (4-6 color multiplexing), allelic discrimination (SNP), dissociation curve analysis as well as	
	pathogen detection and plus/minus assay using internal positive control.	
	Instrument should have 96-well sample block of 0.1ml capacity, able to run fast and standard run on the same block. It can also have 6 separate Peltier-controlled blocks with a fixed gradient with a 25 degree range.	
	System should complete Fast 40 cycle protocol in less than 40 minutes and standard protocol in under 2 hours.	
	The vendor should offer a complete solution for Fast real-time PCR: Fast instruments, Fast reagents, Fast protocols and Fast assays. Sample Ramp Rate: fast Mode: ±3.5°C/sec Standard Mode: ±1.6°C/sec 9600 Emulation Mode: +0.8 and -1.6°C/sec	
	9C/sec Pear Block Ramp Rate: 5.5°C/sec Temperature range: 4°C- 100°C Temperature Accuracy: ±0.25°C (35°C- 95°C) of set point/ display temperature measured at 3 minutes after clock start Temperature Uniformity: ±0.50°C, 30 seconds after clock	
	start	
	Excitation source should be single blue LED light source or Tungsten Halogen or high intensity Xenon lamp and emission detection by photodiodes or cooled CCD camera. There should be enough excitation and emission filters to cover majority of	
	dyes.	
	System should be flexible to support 96 well plates, individual tubes and 8 strip tubes.	
	System software should provide simultaneous analysis data for relative quantitation of Unlimited plates of 96 wells each.	
	Normalization of reaction due to non-PCR related fluctuations such as pipetting variations, should be possible by using ROX™ or any other calibrated dye.	
\vdash	System should support reaction volume 5-30 µL.	
\vdash	All assays should run using Universal Thermal Cycling conditions to eliminate optimization of PCR conditions.	
	The instrument software must be capable of detecting and analyzing a different gene, SNP or pathogen target in every well of the 96-well plate. The instrument software should not restrict the number of assays or targets that can be run on a single 96-	
\vdash	well plate.	
\vdash	The system should have easy door design for loading and unloading 96-well plates or individual 0.2 ml PCR tubes.	
-	System should collect data for all filters for all wells regardless of plate setup. The software should allow reanalysis of data so that data is never lost.	<u> </u>
-	The instrument should be pre-calibrated for at least seven dyes including the following during installation at the customer site: FAM*/SYBR* Green I, VIC*/JOE**, NED**/TAMRA**/ and ROX**.	<u> </u>
-	The user should be able to use any of these dyes in an experiment without needing to recalibrate the instrument. Addition of new dyes should be possible without hardware change.	<u> </u>
	A dedicated licensed full version software for primer and probe design with comprehensive assay design and development guidelines for quantitative and qualitative real-time assays, should be provided to enable designing of custom oligo assays.	
-	System should be standardized for at least two homogeneous reaction chemistries including SYBR Green I and dual color TaqMan or four color hybridization probes (FRET).	
-		
-	The vendor should be able to offer pre-validated and functionally tested Gene Expression Assays as well as SNP Genotyping Assays and the flexibility to design specific assays for new templates of interest.	
-	The instrument software should utilize a multi-componenting algorithm designed to provide precise deconvolution of multiple dye signals to enable the simultaneous detection of multiple fluorophores.	
-	The instrument may have display with an LCD touchscreen that is a 6.5 inch, full VGA (640 x 480).	
_	Analysis work station should be of latest branded Pentium IV with licenced windows XP, operating system and colored laser printer.	
_	Instrument should be with standalone operation independent of Computer work station.	
_	System should have a prot for USB Drive for uploading and downloading data and programs.	
-	System should have Gradient function for the temperature programmable of 20 °C gradient range. Compatable with all kind of kits in market. Should be egen system for both reagents & disposable plastic consumables.	
-	Comparative with all kind or kits in market, should be used with in the filter settings. Texas Red, and VS, Any new yes should be used with in the filter settings.	
	Texas new, and u.y.s. Any new uyes should be used with in the inter settings. System should be free of passive reference dye.	
	- system should be need to passive tententies date. System should be need to passive tententies date. System should be need to passive tententies date. System should be need to passive tententies date. System should be need to passive tententies date. System should be need to passive tententies date.	
	-spaces industrial to explain to information to an information to	
	The real time PCR software should allow the user to do the analysis of all type of application like:	
	The ten unite fun southers income anow one uses to do the energies of an type of approximate. A absolute quantitation a Absolute quantitation	
	b. Advanced Relative quantitation	
	C. NUMBER VERBURG QUARTER (SPP)	
	t. mutuper-vt-a musu mutuu musu mise musu musu musu musu musu musu musu mu	
	6. Endpoint Genotyping	
	C. Cupitative Gene detection	
	B. High Resolution Melting curve analysis (HRM) for mutation studies	
	E. Tigir resolution interior current c	
	Nessessary control / QC kits for installation should be supplied along with instruments	
	Software should be compatible with Win 7 to Win 10 with future upgradation	
	RT PCR software should be of multi user installation facility and allow the user to design the experiment or plate layout conveniently.	
	Software should allow to import / export formats like Txt export, Charts: Data and image.	
	System software should support remote access for trouble shooting.	
	Software should have the provision to use barcode scanner and import / export option for plating layout to reduce the time in plating layout.	
	A laptop/ desktop PC with good configuration should be supplied	
	Should provide AMC terms and conditions	
3	Accessories, spares and consumables	
	Reagents for 500-1000 reaction should be provided with the instrument.	
	Suitable on - line UPS (about 2 KVA) is required to support the instrument.	
	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.	
4	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220-240V/ 50 Hz AC Single phase with appropriate plug. The power cable must be minimum 3 Meter	
5	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate	
	Must comply with IEC 61010 Safety requirements for electrical equipment for measurement, control, and laboratory use	
6	User Training	
	Must provide user training (including how to use and maintain the equipment).	
7	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
8	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
9	Installation and Commissioning	

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45 Fetal Monitor

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Il Model No.:	
	Country of Origin:	
	1 Technical specifications	
	2 Operational Requirements :	
	1 Range: 30 - 240 bpm	
	2 Accuracy: < +/- 2 bpm	
	Alarms: Tachycardia, Bradycardia, Signal Loss, Dual rate detection	
2.	4 Mode: Directional Pulsed Doppler	
	Disply: FHR values, Pulse indicator, Conficence indicator, Line graph Trace Line graph	
2.	6 Repetition rate: 3.0 KHz	
	Frequency: 1.5 MHz & 2.0 MHz	
	8 Safety: Type BF protection	
	9 Light Weight, handset, portable	
	1 High resolution LDC display	
	1 Audible & visual alarm	
2.1	2 Power: AC 220V 50Hz, Built in 9.6V rechargeable batteries.	
	Environmental factors	
	1 The unit shall be capable of being stored continuously in ambient temperature of 0 -55deg C and relative humidity of 15-90%	
3.	2 The unit shall be capable of operating in ambient temperature of 20-50 deg C and relative humidity of 80%	
	4 Standards and safety	
4.	1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	S User Training	
	1 Must provide operating and service trainings	
	2 Warranty	
	3 Comprehensive warranty for 2 years.	
	6 Documentation	
	1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	2 Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
6.	3 List of important spare parts, accessories and consumables with their part numbers and costing.	

46 Delivery Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- II	Model No.:	
III	Country of Origin:	
1	Technical Specification	
	Set contain:	
	B.P.Handle No.3 - Qty.1	
2	B.P.Handle No.4 - Qty.1	
	Dissecting Forceps Tooth 15cm - Qty.2	
	Dissecting Forceps Plain 15cm - Qty.1	
	Scissor Mayo St. 18cm - Qty.1	
	Scissor Mayo St. & Curved 16cm - Qty.1 Each	
	Scissor Episectomy - Qtv.1	
	Needle Holder 18cm - Qty.2	
	Placenta Puncture Forceps - Qty.1	
	Sponge Holder 20cm - Qty.2	
	Sponge Holder 26cm - Qty.1	
	Anterior Vaginal Retractor - Qty.1	
	Artery Forceps Curved 16cm - Qty.2	
	Cord Clips - Qty.1	
	Sim's Speculum Medium - Qty.1	
	Sim's Speculum Large - Qty.1	
	Towel Clip - Qty.4	
	5. 5. Bowl 6 cm - Qty. 2	
	Big Kidney Tray - Qty.1	
	Allis FORCEPS 8 " - Qty.2	
	Mosquito Artery cd - Qty.2	
	Standards and Safety Requirements	
	Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
	CE or USFDA approved product certificate.	
	Warranty	
3.1	Comprehensive warranty for 2 years after accentance	

47 Digital Thermometer

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
III	Country of Origin:	
1	Description of Function	
1.1	Clinical digital thermometer to check the temperature of body.	
2	Operational Requirements	
2.1	Human oral use.	
	System Configuration	
	Digital Thermometer, Clinical.	
	Technical Specifications	
	Flat type, wide thermometer, safe to use, no glass, no mercury.	
	Scale: Celsius scale.	
4.3	Measurement range: 32°C to 45°C	
4.4	Accuracy: +/- 0.1°C between 35°C to 42°C.	
4.5	Display: Liquid crystal display, easy to read.	
	Shall works on battery. There shall be low battery indicator.	
4.7	Shall have facility of beep sound and switch off.	
	Water proof for ease of cleaning.	
	Shall provide battery. Bidder to indicate the type of and number of battery to be supplied.	
	Accessories, Spares and Consumables	
5.1	Packing:	
	B Single piece packing in plastic barrel with cover.	
- 6	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.	
. 7	Standards and Safety Requirements	
7.1	CE (93/42 EEC Directives) or USFDA approved product certificate.	
8	User Training	
	Not applicable.	
	Warranty	
	Warranty for 2 years after acceptance.	
	Documentation	
10.1	User's manual to be supplied in English.	

48 Examination Screen

No.	Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
ll ll	Country of Origin:	
	Description of Function	
1.:	A patient screen is widely used in hospitals when the doctor examines a patient in his private chamber or in the patient's room in the hospitals. The screen can also be used in the operation room or the changing room of the doctors and nurses.	
	Operational Requirements	
2.:	1 Epoxy powder coated or Better , three or four fold patient screen.	
3	3 System Configuration	
3.:	1 Patient Screen with light blue curtain and fully swivels twin wheel castors.	
-	4 Technical Specifications	
4.:	1 Three or four fold ward screen approx. total size 2450 w x 1650 h mm in three or four sections.	
4.2	Mild step in the construction with epoxy powder coated or better treated in three or four section 600mm span width at each side and 1210 mm span width in the middle) and mounted on wide spaced legs for each section, and each foot to have the sevel tables rose in the side and 1210 mm span width in the middle) and mounted on wide spaced legs for each section, and each foot to have the sevel tables rose in the side and 1210 mm span width in the middle) and mounted on wide spaced legs for each section, and each foot to have the sevel tables rose in the side and 1210 mm span width in the middle) and mounted on wide spaced legs for each section, and each foot to have the sevel tables rose in t	

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	
	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	
5.1	lincluding 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. The conditions include Climate, Temperature, Humidity, etc.	
7	Warranty	
1 7	Construction of the Construction	

49 Couch

-		_
No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
	Country of Origin:	
	Description of Function	
1.1	Examination couch for use of health checkup and treatment of patients.	
- 2	Operational Requirements	
2.1	An examination couch with upholstered top in two pieces. Adjustable headrest on gas spring.	
3	System Configuration	
3.1	Examination couch with mattress.	
4	Technical Specifications	
4.1	The examination couch shall be made of a solid steel sheet and plate construction with anti-corrosive and antirust treated epoxy powder coating with upholstered top.	
4.2	All 4 legs of the bed shall be capped with heavy duty rubber footings.	
4.3	Overall size of the table must not be less than 1890mm L x 600mm W x 825mm H	
4.4	Strong Mild steel tubular construction epoxy powder coated treated. The top base of machine pressed double bent Mild steel sheet epoxy powder coated treated finish	
4.5	Gas spring assisted adjustable backrest of approx. size 450mm L x 310mm H with upholstered top.	
4.7	Swinging tray must be attached near headrest for BP apparatus and/or other health checkup minor equipment.	
4.8	The mattress shall be foldable and shall be designed to bend with the positioning of the bed when the backrest of the bed is adjusted.	
4.9	Bidder shall indicate the weight capacity and the total weight of the mattress in kilogram (kg)	
4.10	The mattress shall have mid-firmness, with foam density of approximately 0.55kg/ cubic foot, to avoid that the patient would sink down into foam with antibacterial, antistatic, acid resistance, waterproof and washable vinyl or vinylized nylon cover.	
4.11	The joints must be smooth and neat finish.	
	Accessories, spares and consumables	
	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications	
5.1	Form.	
6	Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.	
7	Warranty	
7.1	Comprehensive warranty for 2 years after acceptance.	
8	Maintenance Service During Warranty Period	
8.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	

50 Infant Transport Incubator

No. Item Specifications	Fill your Specification
Manufacturer Name:	
Model No.:	
III Country of Origin:	
1 Description of Function	
1.1 Required for transportation of premature babies and neonates and it can be used for long distance transportation.	
2 Operational Requirements	
2.1 It shall be self-contained mobile intensive care station including power supply unit and infusion stand.	
3 System Configuration	
3.1 Transport Incubator, complete unit with all standard accessories.	
4 Technical Specifications	
4.1 Microprocessor controlled, easy access control panel with feather touch switches.	
4.2 It shall be mounted on collapsible trolley having lockable rust free casters of the size 4 inches dia. or more and with facility to mount two A type Aluminium oxygen cylinders on rack under the Incubator .	
4.3 Single walled incubators with at least two large pot holes for access. Iris ports for ventilator & other tubings. Bed level at least 80 cm. above ground level. Two shelves cabinet with door.	
4.4 Mattress to hood distance at least 30 cm.	
4.5 Air Mode: Adjustable set temperatures between 20 oC to 39 oC. Display of set temperatures with resolution of 0.1 oC. Skin mode adjustable set temperatures between 34 oC to 38 oC. Display of set temperatures with resolution of 0.1 oC.	
4.6 Alarms of high, low and probe failure for the set air mode up to +2.5 oC and skin mode of + 0.5 oC of temperatures.	
4.7 Oxygen monitor in incubator hood with display of 21 to 100% Oxygen alarms for high, low and probe failure.	
4.8 Heart and Oxygen saturation monitor: Fixed, built monitors, dual wavelength probe for Oxygen saturation with digital LED display for Heart rate and Oxygen saturation. Alarms for high and low for Heart Rate, Oxygen saturation and probe failure.	
4.9 The system must have an internal rechargeable maintenance free battery to ensure continued functioning of the unit for at least 3 hours during transport. It shall have automatic switch circuit for change over from battery to AC and vice versa.	
4.10 One suction apparatus with negative suction pressure of 5- 120 mm Hg must be provided.	
4.11 Shall provide IV fluid stand to support two infusion bottles.	
One Syringe infusion pump with stand compatible with 10, 20, and 50 ml syringes compatible with available brand of syringes. Range of infusion rate 1 to 99 ml / hr.in steps of 0.1ml. Shall have display functions for infusion rates, alarms for occlusions,	
end of infusion and it shall have internal rechargeable battery.	
4.13 Overall Dimensions with trolley (approx.):	
B Height less than 60".	
B Depth less than 30".	
□ Width 33"-36". □	
B Weight 90-100 kg or less.	
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.	
6 Operating Environment	
6.1 The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6.2 Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
7 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 or TUV approved product certificate.	
7.3 Shall meet IEC 60601-2-50 Medical Electrical Equipment PART 2: Particular Requirements for the Safety of Baby Incubators.	
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 warranty period supplier must ensure preventive maintenance corrective/breakdown maintenance whenever required.	
11 Documentation	
11.1 User (Operating) manual in English.	
11.2 Service (Technical / Maintenance) manual in English.	
11.3 List of important spare parts and accessories with their part numbers and costing.	

51 Phototherapy Machine

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
II	Country of Origin:	
1	Description of Function	
1.1	Phototherapy units are used to treat hyperbilirubinemia, a condition characterized by high bilirubin concentrations in the blood. These units are also called: bilirubin lamps, bilirubin lights, fibreoptic phototherapy blankets, neonatal phototherapy units.	
- 2	Operational Requirements	
2.1	It must be LED based single surface phototherapy unit used for clinical management of neonatal hyperbilirubinemia.	
-	System Configuration	
3.1	Phototherapy Unit (LED type), complete unit with all standard accessories.	
-	Technical Specifications	
4.1	Single surface, LED phototherapy unit with blue power.	
4.2	Light Source :	
	□ Blue power LEDs for phototherapy	
4.3	Wavelength: Blue Light: Peak between 450 and 470nm.	
4.4	There shall be no UV and no IR radiation.	
4.5	Phototherapy Intensity Adjustment:	
	□ Intensity at 30 cm: Low level > 20 μW/cm 2/nm. High level > 30 μW/cm 2/nm.	
	BEffective area: 250mm round (at 30cm).	
4.6	Therapy timer: An accurate LCD timer for recording therapy time with reset facility.	
4.7	Life of LED: Minimum 20,000hours of use.	
4.8	It must have flexible neck for easy use with Radiant Warmer.	
4.9	Flexible Mobile Stand:	
	B Base of Stand: Sturdy mild steel with epoxy powder coated base with casters.	
	🖪 Approx. 4 inch dia castors with break/locking mechanism.	
	Ill Easily slides below all standard trolleys.	
	B Height: Adjustable from 1,000 to 1,500mm +/-50mm (from ground).	
	INTilk adjustment: 0º (horizontal) to approx. 40º (both sides).	
4.10	It shall have thick gauge Stainless Steel top of baby tray with foldable transparent acrylic side panels. The baby tray shall have facility for trendelenburg and anti-trendelenburg position.	1

4.11 It shall have breakage free Stainless Steel clips and holders for acrylic panels.	1
4.12 Shall provide foam / bubble mattress.	
4.14 It shall have X-ray cassette guide facility.	
4.16 It shall have facility to provide phototherapy from underneath also.	
5 Accessories, spares and consumables	
5.1 Accessories:	
🖪 Phototherapy eye pads for preterm and term babies: 05 each.	
5 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 5 (including items not specified above).	
6 Operating Environment	
6.1 The system offered shall be designed to store 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 must be at least 3 metre in length.	
7 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.	
7.3 Shall meet IEC 60601-2-50 Medical Electrical Equipment PART 2-50: Particular Requirements for the Safety of Infant Phototherapy Equipment.	
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 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 to be communicated to the purchaser in advance, in detail.	
12 Documentations	
12.1 User (Operating) manual in English.	
12.2 Service (Technical / Maintenance) manual in English.	
12.3 List of important spare parts and accessories with their part numbers and costing.	1

	Infant Warmer	
No.	Item Specifications	Fill your Specific
140.	Manufacturer Name:	riii your speciii
- 1	Model No.:	
	Country Origin:	
	Technical Secification	
	It should be Microprocessor based Servo Controlled Warmer with the Service adjustable height for user comfort.	
	It should have visually coded control panel and color-coded safety alarms for simple understanding.	
	The Heating element should have life time warranty and should be of Quartz or Calrod type.	
	The size of heating element should be precisely matched to the bed size for even heat distribution.	
	The system should be made of FR grade materials to dampen the fire and retards continuous burning.	
	The system should not have any access to heater element to protect the user from accidental contact during operation.	
	The Unit should have Medical grade power inlet in case of any short circuit happens the fuse will blow off and protect the Care given and equipments.	
	Warm up time should be less than 15 minutes.	
	The heater output should be less than 600 watts and adjustable in twenty steps of 5% increment.	
	All the parts that could come in potential contact with the patient should be made of 8io-compatible materials.	
	It should use probe guard to prevent damage of the skin probe to enhance the life of the probe.	
	The unit should stop heating if the temperature exceeds the desired value by 1 degree C and restarts only when the temperature falls back into the 1 degree C.	
	It should have +/- 15 Degree Continuous Bed tilting mechanism with self locking facility and should be operable from both sides.	
	The overhead should 90 degrees swivel to either side for easier access and enable taking x-rays.	
	Its should have an integrated Slide out XRay below the X-Ray Transparent mattress, which can be pulled in and out without moving the infant.	
	It should have side rail system to fit accessories and allow flexibility on positioning of accessories.	
	It should have APGAR time with audible tones on one, five and ten minutes.	
	Its mattress size should be450-460x600-640x25-30 mm.	
	It should use themister base probes with probe interchangeability +- 0.1 degree C at 30-40 degree C	
	It should have independent observation light independent of Warmer mains on/off) with intensity of minimum 500 Lux at centre of mattress with high lamp life.	
	It should have independent observation ignit interpretation of writing interpretation of the control. It should have independent observation ignit interpretation of writing interpretation of writing interpretation of the control o	
	Unit surfaces indoor de accession and instruction in a property of the control of	
	The oring another septiments of the property quarty completely addressed to the property of the property quarty completely addressed to the property quart	
	It should be supplied with one of power on and commodusy during operation. It should be supplied with one of power on and commodusy during operation.	
	Accessories	
_	Reusable Temperature probe-2 Nos.	
	B Disposable temperature protect a row	
	a suppose to temperature protes at rock. Balties a Mattress at rock a	
	La maturess EX-ray tray	
	uning you Binstruments shelf	
-	Operating Environment	
	Decreasing consuments The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
	The system united are also be designed to store and outper are incommon united and experience of the system of the	
	Fower supply, and Safety Requirements	
	Jacobianus and Jacobianus Programment Services (1997) (199	
	most admint 15015401,2000/MCL00V for Medical Devices into	
	Shall meet IEC 60001-2-50 Medical Electrical Equipment PART 2-50: Particular Requirements for the Safety of Infant Warmer Equipment.	
	Johan meet EC 000072-30 webbar 1ectrical Equipment PAKT 250. Particular Negumentens for the Salety or maint warmer Equipment. User Training	
	User I raining Must provide user training (including how to use and maintain the equipment).	
	was portice user canning fincuoung now to use and maintain one equipments. Warranty Warranty	
	warianity Comprehensive warranty for 2 years after acceptance.	-
	Maintenance Service During Warranty Period	-
	Maintenance service juring warranty period During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	+
	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.	+
		+
	Documentations User (Operating manual in English.	+
	User (Operating) manual in English. Service (Technical) Maintenance) manual in English.	+
	pervice (recrimcar) infantieriance) manual in English.	

		1
	Baby Capsule Phototherapy	
	No. Co. of the No.	F.11
No.	Item Specifications	Fill your Spec
	Manufacturer Name:	
	Model No.:	
III	Country of Origin:	
	Technical Specification	
1	Description of Function	
	Used to treat of hyperbilirubinemia in neonates concentrations in the blood.	
2	Technical Specifications	
	Mobile assembly with casters and accessories basket for easy movement within the unit	
	Microprocessor control of the radiance applied to the patient and monitors treatment time and the service life of the light emitting source	
	Alphanumeric display with backlight and easy-to-operate membrane keypad	
	Emission in the blue light spectrum for treating bilirubin	
	High radiance in the center and edges of the light focus	
	Approx 15 SuperLEDs	
	No infrared or ultraviolet light emission	
	Average service life of 20,000 hours.	
	Radiance emitted: 47 uw/ cm².nm (maximum)	
	Mean radiance: 32.6 uw/ cm².nm	
	Dimensions of the lighted spot on the mattress approx: 32 x 20 cm	
	Height approx: 41.5 cm (tabletop), 120 cm (mobile)	
	Width approx: 40 cm (tabletop), 46.8 cm (mobile)	
	Length approx: 59.5 cm (tabletop), 83.8 cm (mobile)	
	Weight approx: 13.4 kg (tabletop), 31.9 kg (mobile)	
3	Accessories, spares and consumables	
	Optical probe to measure radiance	
	Eye protection kit (glasses)	
	Gel mattress	
	Circular pillow	
	Skin temperature sensor	
	Skin sensor adhesives	
	Sliding drawers.	
4	Power Supply	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
5	Environmental factors	
	The unit shall be capable of being stored continuously in ambient temperature of 0 -55deg C and relative humidity of 15-95%	
	The unit shall be capable of operating in ambient temperature of 20-50 deg C and relative humidity of 80%	
6	Standards and Safety Requirements	
	Should be FDA or CE approved product certificate.	
7	User Training	
	Must provide operating and service trainings	
- 8	Warranty	

Comprehensive warranty for 2 years.	
9 Documentation	
User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
List of important spare parts, accessories and consumables with their part numbers and costing.	

54 Mobile X-Ray Machine

No.	Item Specifications	Fill your Specification
NO.	Manufacturer Name:	riii your Specification
	manuacuret vanie: Model No.:	
	Tourtry Origin:	
- "	Country of Origin. Technical Specifications	
_	A microprocesor controlled mobile x-ray imaging unit is to include but not limited to the following:	
	A microprocessor controlled -ray generator, 2 0 KW	
	It should have a digital display of mAs and kV and an electronic timer.	
	KV range:40kV to 125kV	
	mA range: 300 mA or more. Please specify mA and seconds separately and not mAs alone.	
	Shortest exposure time: I ms.	
	X-Ray Tube: .	
	Output should match the output of the generator,	
	Must have a rotating anode with at least: 2500 rpm and focal spot size should be less than Imm.	
	Rotating anode tube system, with focal spots, 0.6/1.2 mm of large heat storage capacity, > 120,000 HU	
	Collimator- Manually adjustable multileaf collimator, rotatable ±90*	
	The exposure release switch should be detachable with a cord of at least 5 meters	
	Remote control operating distance > 10 metres	
	Remote control operating radius- 180 deg	
	Lightweight manual driven unit, with braking system.	
	Small source image distance, please specify.	
	Direct 220-240v/S0Hz single phase power line connection with built in line voltage compensation.	
	Grid(Ratio 6:1) of following sizes should be provided (1) each 12"x15" & 10"x12"	
:	User Training:	
2.:	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.	
- 3	Warranty	
3.:	Comprehensive warranty for 2 years from acceptance.	
-	Maintenance Service During Warranty Period	
4.:	During warranty period supplier must ensure preventive maintenance & corrective/breakdown maintenance whenever required.	
	Installation and Commissioning	
	The equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
-	Documentation	
6.:	User (Operating) manual in English.	
6.3	Service (Technical / Maintenance) manual in English.	
6.3	List of important spare parts and accessories with their part numbers and costing.	

	Dental X-ray	
No.	Item Specifications	Fill your Specifica
	Manufacturer Name:	Fill your Specifica
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	It should be digital. Suitable for Adult and Pediatrics. Designed for imaging the maxillofacial region using a rotating x-ray beam (panoramic radiography), which produces a single image of the dental arch as a fixed elliptical shape; and/or to obtain	
	images of the complete skull (cephalometric radiography) or of a region of interest from various angles.	
	Leak radiation: Outside one meter <0.002Mg/h(national standard:0.25Mg/h)	
	60 KV 70 KV. 0mAs to 15 mAs	
	mobile cart	
	Soft Arm	
	Microprocessor controlled	
	Separate exposure switch	
	Exposure Time 0.1 to 4.0 second	
	Total Filtration≥2.0 mmAL	
	Tube Head&cone are internally LEAD coated	
	Focal spot size should be: 0.6 mm - 0.8 mm	
	Magnification: 1.2-1.5x	
	Very smell focal spot(0.3mm-0.4mm)	
	Automatic Exposure Control (AEC) is required which is used to control the length of x-ray exposure.	
	Constant potential: high-frequency required	
2	User Training:	
2.1	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.	
3	Warranty	
3.1	Comprehensive warranty for 2 years from acceptance.	
	Maintenance Service During Warranty Period	
4.1	During warranty period supplier must ensure preventive maintenance & corrective/breakdown maintenance whenever required.	
	Installation and Commissioning	
5.1	The equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
6	Documentation	
6.1	User (Operating) manual in English.	
	Service (Technical / Maintenance) manual in English.	
	List of important soare parts and accessories with their part numbers and costine.	

	Portable Ultrasound Machine	
		•
No.	ltem Specifications	Fill your Spec
	Manufacturer Name:	
	Model No.:	
II	Country of Origin:	
1	Description of Function	
1.1	A general purpose fully digital B & W Ultrasound imaging system.	
- 2	Operational Requirements	
2.1	It shall operate on mains AC supply.	
	System Configuration	
	System shall come with main unit, 1 probe, 1 unit of black and white video thermal printer and Ultrasound gel warmer 1 unit.	
	Technical Specifications	
	Latest technology and all digital beam former general purpose standalone ultrasound machine with integrated light weight mobile cart.	
	Main applications: OB/GYN, abdominal, peripheral vessels and small parts.	
	The system shall have at least 12" or higher flat LCD monitor with tilk 8 swivel facilities.	
	Shall have 8-mode. M-mode. B/M mode. 28 mode & 20 mode.	
	The system must have at least two active probe ports for easy use and convenient operation.	
	256 Grev shades for share contrast resolutions.	
	250 otrey strates not strain promises resolutions. Controls for depth, gain compassation, body markers with transducer position.	
	Common ser uelpun, genir compensation, uody markers with transacioen position. Shall have real time continuous dynamic focus.	
	Sital nave real unit commons of the common cours. Shall have faither commons of the course of the co	
	Shahi mave raduniy tor image zoom, reeze, text aminuaturii. The system shall have extensive calculation software package for Ob/Gyn and general imaging.	
	The system shall nave exercisive functional software facility and calculated and	
	Ine system must nave provision for measurement and calculation of distance, area, volume, neart rate and circumrerence on the image. The system shall have Tissue Harmonic Imagine.	
	ine system snaii nave itsue Harmonic imaging. Near and far gain addustable.	
	Contrast, adjustable.	
	Focus: auto adjustable.	
	Shall have an alpha-numeric keyboard with easy access scans controls and track ball and status display.	
	Cine memory of 250 frames for cine loop playback.	
	Frame rate: not less than 50fps.	
	Display depth: minimum 28-30cm.	
	Dynamic range, selectable up to approximately 165dB.	
	Image storage: Minimum 200 patient's images on main unit.	
	Shall have facility for inbuilt CD writer.	
	System shall be DICOM ready and capable of being interfaced with HIS/RIS/PACS.	
	Facility for future upgradeability.	
	Probe: 2 to 5 MHz convex probe for Obs. /Gyn. and abdominal application is to be supplied.	
	Accessories, spares and consumables	
5.1	Accessories:	
	BBlack and white video thermal printer with 50 rolls of high density recording paper: 01 no.	
	B DVD/CD Recorder with DICOM media transfer.	
	© Ultrasound gel warmer: 01 unit.	
5.2	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.	
- 6	Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	

6.3 Shall provide UPS of suitable rating with voltage regulation and spike protection for 30 minutes back-up.	
7 Standards and Safety Requirements	
7.1 Must submit ISO 13485:2003/AC: 2007 AND	
7.2 CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
7.3 Electrical safety conforms to standards for Electrical Safety IEC 60601-2-37 Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic an	d monitoring equipment.
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 preventive maintenance and corrective/breakdown maintenance whenever required.	
11 Documentation	
11.1 User (Operating) manual in English.	
11.2 Service (Technical / Maintenance) manual in English.	
11.3 List of important spare parts and accessories with their part number and costing.	

57 Conventional X-Ray Machine

No. Item Specifications I Manufacturer Name:	Fill your Specification
	· · · · · · · · · · · · · · · · · · ·
II Model No.:	
III Country of Origin: 1 Description of Function	
1.1 A general purpose X-ray machine for routine X-ray examinations at healthcare facilities.	
2. Operational Requirements 2. Operational Requirements	
2.1 It shall be suitable to be used for adult and paediatric patients in general Radiography examination.	
3 System Configuration	
3.1 X-ray Generator,1 unit	
3.2 X-Ray tube & tube support system, 1 unit	
3.3 Radiographic patient table, fixed height1 unit	
3.4 Floor mounted bucky stand, 1 unit	
4 Technical Specifications	
I Should be floor to floor mounted	
X-ray Generator:	
Microprocessor based, high frequency inverter generator, the generator shall have at least 50kHz.	
Generator Output: not less than 30 Kw Radiographic voltage: 40 kV to 140kV, in 1Kv step.	
Radiographic current approx : 10 s 350 mA	
Republic Control of the Control of t	
Anatomical Programmable Radiographic mode shall be available.	
Manual & automatic exposure control and automatic brightness control shall be available.	
Shall come with overload protection device.	
Floor Mounted Tube Stand:	
Longitudinal travel: approx. 1750mm.	
Vertical travel: from 630 -1850mm or in the range.	
Movement arrested by electromagnetic brakes.	
Rotation of tube arm around vertical axis: 1800: lockable at 00 to +/- 900.	
X-Ray Tube:	
Maximum tube output shall match with the generator output of not less than 20 Kw.	
X-ray tube rotating: +/-90*.	
Large focus not more than 1.2 mm. Small focus not more than 0.6 mm.	
Strain locus toch more tagen to strain. Maximum tube vote tagen to strain.	
Makinum ube voltage 140 kV. Filtration: min 2.5mm Al equivalent.	
riu atun: min 2.5min ze equivaent. Cooling method pssive or forced air and/or oil cooling.	
Anode rotating speed: More than 3000 rpm.	
Anode heat capacity shall not be less than 200 KHU.	
Collimator:	
Manually adjustable.	
Manually selectable filters.	
Light localizer with timer controlled light.	
Built-in light switch should be provided.	
Turning angle should be min +/- 45 degree. Light source: halogen lamp or better.	
Light South Table: Radiography Patient Table:	
Radiography table shall be fixed height, 4-way floating top type with foot switch control.	
Come with grid and cassette tray, with grid ratio: approx 8:1 or more. Grid line number: 40 line/cm. Focus distance: 115cm.	
Cassette size: accept all sizes from cassette 5" x 7" cm to 14" x 17" type.	
Radiography table shall be fixed height of about 60cm.	
Table top to film distance: approx. 6cm.	
Table top transverse movement : approx. ±14cm.	
Table longitudinal movement : approx. ± 29cm.	
Table top dimension: approx. 2000 x 800 mm (LxW)	
Table movement arrested by electromagnetic brakes.	
Floor Mounted Bucky Stand: Vertical travel: from 460-1700mm or in the range.	
Vertical travei: from 46b/1700mm or in the range. Moving Grid with Grid ratio approx: 8:1 or more. Grid line number: 40 lines/cm.	-
Moving Critia with card ratio approx: 8:1 or more, ciria line number: au linesyzm. Shall come with Automatic Exposure Control for vertical bucky exposures.	
Shart colle with Automatic Exposure Control to reverse bucky exposures. Cassete size: accept all sizes from 5"x"? to 14"x1". Casset size: accept all sizes from 5"x"? to 14"x1".	
Cassette McL. dute pt an Mass Italia 3.7. (Jan 3.17.) Movement arrested by electromagnetic brakes.	
wovernier, air eased y rectiful ingrient, blakes. Control Console:	
Digital Display.	
Minimum 3 Point Exposure Technique.	
Status display, error display.	
Shall have area dose product determination and display.	
Shall come with radiography remote control in control room.	
Accessories, spares and consumables	
All standard accessories, consumables and parts required to operate the equipment. Power supply:	
Power supply: 415 ± 5%V (3 Phase), 50Hz fitted with appropriate plug	
Power supply: 415 ± 53% (3 Fnase), Suhz mixed with appropriate plug Environmental Factors	
The unit shall be capable of being stored continuously in ambient temperature of 0 -55deg C and relative humidity of 15-95%	
The unit shall be capable of operating in ambient temperature of 20-50 deg C and relative humidity of 80%	
Standards & Safety Requirements	
Should be CE or FDA approved product certificate.	
Warranty	
	1
Comprehensive warranty for 2 years.	
Comprehensive warranty for 2 years. Documentation	
Comprehensive warranty for 2 years. Documentation User (Operating Imanual in English Should provide 2 sets(hardcopy and soft-copy)	
Comprehensive warranty for 2 years. Documentation	

58 Echo Ultrasound Machine

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
III	Country of Origin:	
1	Description of Function	
1.1	Colour Doppler Echocardiography System is required to study the anatomical abnormalities and blood flow in the heart and associated vessels.	
2	Operational Requirements	
2.1	El Latest generation Electronic Phased array Colour Doppler system with minimum 512 electronic independent channels.	
	B System must be DICOM ready and capable of being interfaced with HIS/RIS/PACS.	
	图 Must be upgradable to next generation system on site.	
	BFrequency compounding or better technology for better resolution and penetration.	
3	System Configuration	
3.1	Colour Doppler System with all application packages, quad loop for serial studies with high frame rate review. Harmonic imaging capability in all modes. (Tissue, Contrast, Anglo) Integrated Stress Echo Package, Digital Storage and Retrieval – OIno.	
	B 1-3 MHz Adult Cardiac probe Electronics Phased Array probe- 01 ea.	
	B 3-11 MHz Electronics Phased Array Probe for Vascular applications- 01 ea.	
	图 Multi-plane TEE Probe: 4-8 MHz for Adult as well as Paediatric echocardiography.	
	B 5-10 MHz Electronic phased array probe for Paediatric cardiology.	
	图 Colour Printer - 01no.	
	□ B/W Video Thermal Printer -01no.	
4	Technical Specifications	
4.1	Latest generation Electronic Phased array colour Doppler system with Minimum 512 Electronic independent channels.	
4.2	256 gray shades for sharp contrast resolutions	

4.3	Multi-dimensional Beam former for generating two images simultaneously-one at low end of bandwidth and one at high end-then selectively retrieves and mixes the components together for finely textured 2-0 or B mode image with superior contrast resolution	
4.4	Adult Cardiac and Vascular Probes to be supplied which must be latest generation wide band transducers without frequency selection for higher sensitivity of response over a broader frequency range of operation. All probes to be phased array.	
	Probes for paediatric application and Trans oesophageal Echo for future requirement.	
4.5	Harmonic Imaging: System must have following modes in harmonic with separate setting for:	
	©Tissue Harmonic.	
	B Contrast Harmonic - both triggered and real time	
	图 Harmonic Anglo.	
L.	B Quantification of harmonics in aging	
	Harmonic imaging capability in Adult Cardiac, Paediatric Cardiac and linear Probe. Gain control in two dimensions for additional level of flexibility to image quality control.	
	Sam control in two dimensions for algobra resolution are of the incompany of the control in two dimensions for algobra resolution are of the incompany of the i	
	Frame rate may be 300 FP5 or more.	
	Steerable PW/CW in all Phased Array probes.	
4.11	High definition acoustic zoom for enlarging sections of 2D and colour flow images with more acoustic information for greater clarity and detail while maintaining an optimal frame rate.	
4.12	Modes - 4D, M-Mode, Steerable PW/CW Doppler, Colour Doppler, and High Definition colour flow with capability of automatically picking up colour flow as a function of focal depth	
4.13	Monitor must be 15" or more, high resolution colour monitor.	
	Tilt and Swivel monitor must be able to view in all angles and all light conditions.	
4.14	Colour Flow Imaging for:	
-	Bincreased lateral & spatial resolution. Bincreased lateral & spatial resolution. Bincreased lateral & spatial resolution. Bincreased lateral & spatial resolution.	
-	abutection or even storic areas of turbournet, obspissing a more physiological blood now appearance without loss of trame rate. B Colour flow with apability of butantiately picting up colour flow as a function of float elepth B Colour flow with apability of butantiately picting up colour flow as a function of float elepth	
4.15	La codul now with regionally of comproved contract resolution. Tissue Colorian (8-colory) for improved contract resolution.	
	Application software for Adult, Paediatric, Foetal and Peripheral Vascular and Trans oesophageal applications. (All application packages must be built into the system).	
	Cine loop memory- more than 120MB of memory.	
	🛚 High Frame rate review for better clarity of playback images study in slow motion.	
	B Quad loop with memory for pre and post image comparison of any procedure.	
<u> </u>	☐ Memory: 256 frames or more in quad loop. M Mode & Doppler Scroll Memory. 40 seconds or more.	
4.40	Errame grabber facility for post analysis.	
	Various maps for pre and post processing. ECG triggers failing.	
	Excus upgets activity. User defined system and application pre-sets for multi-user department.	
	Oser Gemeter system into application pie vect for independent of the control of t	
	Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress protocol.	
4.23	Tissue movement colorization with quantification possibility for IHD/CAD patients.	
	Three transducer ports will be preferred.	
	Colour Map resolution up to 128 levels.	
	Study Manager (> 1.5 GB) for on-cart digital acquisition, review and editing of complete patient studies.	
	Facility of Real time perfusion studies System Peripherals shall include:	
4.20	- ayacen respire also alculation include. GEO Writer with salculation facility on playback.	
	B Colour Video Printer.	
	B B/W Thermal Printer.	
5	Accessories, spares and consumables	
5.1	Accessories:	
	B DVD/CD Recorder with 100 CDs and 100 DVDs	
	B Colour Print Paper - 500 sheets	
\vdash	BB/W Thermal Pager - 10 rolls BECK Cable - 2007 as	
	BCCC CARRE - 12/10s. BM D 18s - 10pcs	
5.7	and Disc-1000s. Additional parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.	
	Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	UPS of suitable rating conforming to international standards shall be supplied for minimum 30 min. backup for the entire system.	
	Standards and Safety Requirements	
	Must submit ISO13485.2003/AC.2007 for Medical Devices AND CE (93/42 EEC Diversibles or USFDs approved product certificate.	
	LE 193/42 ELE Unrectives jor US-DIA approved product certificate. The product shall comply to IEC 60501-2-37 etc. Indicate Equipment - Part 2-37: Particular Requirements for the Safety of Ultrasonic Medical Diagnostic and Monitoring Equipment.	
	The product shar control reasons are control expension and the control	
	Type or protection against electric shocks for ultrasound probes Type "BF"	
	For ECG electrodes Type 'CF"	
8	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years.	
	Maintenance Service during: Warranty Period During the warranty period souplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
10.1	During time warranty period supplier must ensure planned preventive maintenance (virw) along with corrective/preakdown maintenance whenever required. Documentation	
11.1	Documentation: User (Operating) manual in English	
	Service (Technical / Maintenance) manual in English	
	List of important spare parts and accessories with their part numbers and costing.	

59 C-Arm Machine

59	C-Arm macnine	1
No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	riii your specification
	Model No.:	
	Modern No Country of Origin:	
	Country or Origin. 1 Description of Function	
	This equipment is used in orthopaedic fractures for imaging of bone pathology or fractures on display monitor during operation/ reduction of fractures.	
	Institution is used in outside each institution in the control of	
	Operational requirements for commodus morroscopy, image storage and retrieval the system oriented shall be a general morroscopy/radiology system, it should be a horroscopy in companion type. System Configuration	
	X-ray C-Arm Mobile with complete accessories	
	Technical Specifications	
	X-Ray Generator	
	Microprocessor based, high frequency inverter generator	
	Generator Output: not less than 2kW at 100kV	
	Fluoroscopic/ Radiographic KV range	
	Lower limit shall not exceed 40 KV	
	Higher limit stall not be less than 120 KV	
	Theoretical minimal and a reger to the LEGA V	
	Lower limit shall be ~0.1 mA	
	Upper limit shall be "9 mA	
4.2	X-Ray Tube	
	Rotating anode type	
	Single focal spot, shall not be more than 0.6 mm	
	Nominal voltage: 110 kV	
	Anode heat storage capacity not less than 300 KHU	
	Inherent filtration should be at least 3 mm Al eq	
4.3	Collimator	
	Operator controlled automatic collimation	
4.4	C-Arm	
	- Focus - I.I. Distance shall be at least 100 cm	
	- Depth shall be ~ 75cm	
	- Horizontal travel at least 200mm	
	- Vertical travel at least 450 mm	
	- Orbital movement shall be ~125*	
	· Swivel range shall be "12"	
	Rotation about horizontal axis shall be more than +/-180*	
4.5	Image Intensifier	
	· At least 23 cm input screen with direct coupling with camera	
	- Shall be at least 52 lp/ cm	
	Noise reduction, scattered light trap for high contrast dynamics	
	- CCD camera technology with ABC and AGC control	
4.6	TV Monitor	
	· 2 units LCD monitor side by side for live and reference image	
	- Shall be at least 43 cm with automatic brightness control	
4.7	Image rotation	
	- Shall be at least 625 scanning lines at 50 Hz	
	-Trolley for 2 display screens and with the alphanumeric keyboard included	
	- High resolution and anti glare	-
4.8	Imaging Modes	-
	- Fluoroscopy mode shall have the following facilities:	1
	- Continuous fluoroscopy with last image hold	1
_	- Last image hold with at least two frames image memory	
-	- Continuous fluoroscopy with image acquisition rate: about 20 frame/second.	
	· Hard disk with image storage capacity of at least 30000 images	1

- RAM Memory of 256 images	
· Mosaic display of 16 images	
· Zoom (x 2)	
Measures: at least distances, angles	
- Come with CD/DVD/RW drive	
4.9 Video printer for B/W thermal printing on paper, size 20 x 25 cm, resolutions about 300 dpi; The video printer can be placed on the monitor trolley	
4.1 Indicate here other features and software functions included in this offer	
5 System Configuration Accessories, spares and consumables	
5.1 Video printer for B/W thermal printing 01 no.	
5.2 Sterilizable textile cover and clips, for the X-ray tube and the Cassette holder for 24 x 30 cm	
5.3 All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
6 Operating Environment	
6.1 The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6.2 Should work on 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs and sockets.	
7 7 Standards and Safety Requirements	
The unit offered shall be certified to meeting the relevant requirements of TUV, CE mark (MDD), FDA and/ or any equivalent quality and safety standards.	
8 User Training	
8.1 On site operational training till the familiarity of the system and satisfaction of end user shall be provided.	
9 Warranty	
9.1 Comprehensive warranty for 2 years.	
10 Maintenance Service During Warranty Period	
10.1 Preventive & Corrective Maintenance:	
During the warranty period supplier must ensure planned preventive maintenance (PPM) at least 3 nos. in a year along with corrective/breakdown maintenance whenever required.	
11 Installation, Inspections and Commissioning	
11.1 Supplier must accomplish proper installation and commissioning of the equipment on site.	
11.2 Inspections to verify the compliance of the offered equipment as per the specifications	
12 Documentation	
12.1 User (Operating) manual in English	
12.2 Service (Technical / Maintenance) manual in English	
12.3 List of important spare parts and accessories with their part numbers and costing.	
12.4 Log book with instruction for daily weekly, monthly and quarterly maintenance checklist.	

60

Computed Radiography System (CR)

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 1	Country of Origin:	
	1 Description of Function	
	Used for processing of all standard medical x-ray and imaging films.	
	Technical Specifications	
	Computed Radiology (CR) must be a state of the art system	
	Adhering to following specifications. CR system should broadly comprise of following modules/ components:	
	a) Image recording system (cassettes & reading plates)	
	b) Image reading system (reader/ digitizer)	
	c) Identification & CR processing workstation.	
	d) Dry imager.	
	1. Image recording system (cassettes & imaging plates).	
	The following sizes of radiography cassettes along with image plates should be supported by the unit	
	a. 35 cm X 43 cm or 14" X 17" :4 nos.	
	b. 35 cm x 35 cm or 14" X 14" 2 nos.	
	c. 24 cm x 30 cm or 10" X 12": 4 nos.	
	1. 18 m x 3 cm or 3 x 12 cm os.	
	U. 16 UITA 24 UITU II 6 A 10 : Z ITUS. 2. Image reader (CR reader (Lightizer)	
-	2. Integret reason (c. treader / digitizer should be able to process 65 image plates/hr or more of the largest size cassette	
\vdash	3 In eck reader / digitarer should be able to process be image plates/fir or more of the largest size cassette	
-		
-	c) It should have a resolution of 6 pixels/mm (minimum) for standard resolution cassettes & 10 pixel / mm (minimum) for high resolution cassette reading.	
\vdash	d) Digitiser must have a resolution of 20 pixel / mm (minimum) for screening mammography.	+
	e) Gray scale resolution: CR reader / digitizer should have a minimum resolution of 12bits/ pixel for images sent to CR processing station.	
	3. Identification Station & processing server	
	a) The processing station must have 2GB RAM, at least 2x 500 GB HDD in RAID configuration and 21" clinical grade monitor. The PC hardware and monitors must be from reputed brands. The monitor should have a wide viewing angle and it should be	
	clinical grade monitor with at least 1.3 MP resolution.	
	b) Processing server capable of identification of patient demographics to the acquired images will be preferred, else a separate identification station must be provided.	
	c) The server and /or ID station must be DMWL (DICOM modality worklist) compliant to access patient and study data from HIS or RIS.	
	d) It should provide display of acquired images with greater details of demographics viz. patient/ study listing for easy access	
	e) The server must provide full amount of post processing features viz. geometric corrections, window level algorithms, annotation like markers, predefined text, drawing lines and geometrical shapes, multi-scale image processing, measuring distance	
	and angles, shuttering, histograms, zoom, grey scale reversal, edge enhancement, noise reduction, indication of gray scale saturation level, latitude reduction etc.	
	f) it should facilitate full fledged DICOM printing and should be able to print multiple formats of patient study.	
	g) Should be able to send DICOM images to DICOM workstation or PACS without loss of information	
	h) Should be equipped with DICOM CD writer for transferring image	
	i) Should be able to store image on external device viz. CD or pen drive etc.	
	i) The system should have a facility to indicate over specify the image preview time.	
	k) The software must have dedicated paediatric and mammography image processing.	
	4) Dy imager	
	a) The system must have a dry imager without need of any wet chemistry	
	a) the system must have a wry mage; a whoot recurs or any wet crimentary b) It must be any mage; a wry mage; a whoot recurs or any wet crimentary b) It must be any mage; a wry mage; a whoot recurs or any wet crimentary b) It must be a wry mage; a wrong the whoot recurs or any wet crimentary c) It must be a wrong a wry mage; a wrong the wron	
-	9) it must be obtained an unique moderates to be connected at a time. (2) The system must be able to print at least 60 films, he of the largest size.	
-	Cy in exystem must be able to print at least to tilms, in or the largest size (4) The system must be able to print at least to tilms, in or the largest size (4) The system must deliver it is first film within 80 seconds from the request sent	+
\vdash		
-	e) The imager must have spatial resolution of 500 ppi minimum	
-	f) The system must have contrast resolution of 14 bits/pixel or more. The system must have at least three online film sizes and should be capable of printing any of the 8" X 10", 10" X 12", 11" X 14" or 14" X 17" films.	
\vdash	g) The imager should support daylight loading of films.	+
-	5. Suitable UPS back up must be provided for 15 minutes backup for the whole system	
\vdash	6. The firm should attach detailed installation list along with users' complete address and telephone number.	
	7. Additional specialty software /hardware if any should be quoted separately as optional.	
	Power supply:	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Environmental factors	
	The unit shall be capable of being stored continuously in ambient temperature of 0 -55deg C and relative humidity of 15-95%	
	The unit shall be capable of operating in ambient temperature of 20-50 deg C and relative humidity of 80%	
	Standards & Safety Requirements	
	Should be CE or FDA approved product certificate.	
	User Training	
	Must provide operating and service trainings	
	Warranty Warranty	
	Testions Comprehensive warranty for 2 years.	
-	Compensions wait airui vi 2 years.	
-	Documentation User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
-	User Uperating; manuai in English Should provide 2 sets; Inacropy and soft-copy) Service (Technical / Maintenance) manual in English Should provide 2 sets[harctopy and soft-copy)	+
-	Service (technical / Maintenance) manual in English should provide 2 sets/hardcopy and soft-Copy) List of important spare parts, accessories and consumables with their part numbers and costing.	

61 Dental Unit

ο.	Item Specifications	Fill your Specification
- 1	Manufacturer Name:	
Ш	Model No.:	
- 111	Country of Origin:	
	Description of Function	
	A Dental chair for Dental treatment	
	Operational Requirements	
	It shall operate on AC power supply.	
	System Configuration	
	Dental Unit with complete attachments and accessories.	
	Patient chair, 1 unit	
3.2	Working stool, 2 units	
3.3	High speed hand piece, 2 units	
3.4	Low speed motor with 1 straight hand piece & 1 contra-angle hand piece, 1 set	
3.5	A built-in light cure unit	
3.6	A built-in ultrasonic scaler with one each of pointed and flat scaler tips	
3.7	One air compressor at least 1 horse power	
3.8	One suction unit at least 1 horse power	
3.9	One unit of automatic amalgamator	
.10	One set of amalgam carrier with tips and one amalgam well	
3.11	One set of 4 pieces of amalgam condensers	
3.12	One set of 5 pieces of amalgam carvers	
3.13	One set of 5 pieces of burnishers	
3.14	Bidder shall indicate brand and model information here and provide technical data document for major components specified above.	
4	Technical Specifications	
4.1	Patient type: adult & paediatric & deformity.	
42	Main unit standard configuration as follow:	1

4.3		
	Patient chair:	
4.4	With electrical chair movement and deluxe double articulated headrest.	
4.5	With one left armrest as standard.	
4.6	3 pre-set chair positions: start, treatment and rinsing position.	
4.7	Electrical patient chair loading capacity: not less than 1323N (135kg).	
4.8	Backrest movement range 105*-175*.	
4.9	The lowest position of the patient chair from the ground shall not be less then 380mm.	
	The highest position of the patient chair from the ground shall not be less than 780mm.	
4.11	Chair movement is controllable by the 4 way foot control at the chair base without touch panel.	
	No cables on the floor, hygienic and clean.	
4.13	One main switch to control air, water and power.	
4.14	The chair position is locked while an instrument is working.	
4.15	With chair-backrest safety system, backrest and seat movement can be stopped once it meets obstacle.	
	Dentist element:	
	Dentist element with whip arm system.	
4.18	Height of dentist element is adjustable.	
	1X-ray film viewer (12V, 2000cd/m2).	
4.20	1 silicon mat for the dentist element which can be sterilized.	
4.21	I three way stringe.	
4.22	3 ISO 4-hole/Midwest hand piece hoses.	
4.23	Jair pressure meter.	
4.24	Assistant element:	
4.25	1 three way syringe.	
	A time way symble. I strong such hose.	
4.20	A STORY SALEDON TROPE. 1 STORY SALEDON TROPE. 1 STORY SALEDON TROPE.	
4.27	1. Sainve get.07. With suction filter system.	
4.20	win studen mer system. Water unit:	
	The cuspidor can be swivelled and removable for easy cleaning. (any filter and best discinguated and removable for easy cleaning.	
4.31	Cup filler and bowl rinsing systems shall prevent over filling of cup and prolong rinsing of bowl. Preferably programmable. With sudowsite whether boards currents (240)	
	With automatic water heating system (24V)	
4.33	With water venturi and air water separator system	
	Fresh water bottle, at least 1.5L	
4.35	Operating light:	
4.36	Colour temperature: 3800-4500K.	
	12V, 50 Watt Halogen bulb or Better.	
4.38	Dental light intensity: min 25000lux with intensity dimming function.	
	Working stool, 2 units.	
4.40	Mobile on 5 castors.	
4.41	Height of seat and backrest is adjustable.	
4.42	Backrest angle is adjustable and lockable.	
	Come with NSK or equivalent high speed hand piece, 2 units.	
4.44	Come with NSK or equivalent low speed motor with 1 straight hand piece & 1 contra-angle hand piece, 1 set.	
4.45	Come with a built-in light cure unit.	
	Come with a built-in ultrasonic scaler with one each of pointed and flat scaler tips.	
	Come with one unit of automatic amalgamator.	
4.48	Come with one set of amalgam carrier with tips and one amalgam well.	
	Bidder shall indicate brand and model/ part number information here and provide catalogue of each piece of item offered here.	
4.49	Come with one set of 4 pieces of amalgam condensers, one each of serrated small size, serrated big size, smooth small size & smooth big size.	
	Bidder shall indicate brand and model/ part number information here and provide catalogue of each piece of item offered here.	
4.50	Come with one set of 5 pieces of amalgam carvers, double-ended, made of stainless steel, one size each from small, medium up to large size.	
	Bidder shall indicate brand and model/ part number information here and provide catalogue of each piece of item offered here.	
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No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 11	Country of Origin:	
	Technical Specifications	
1.3	NSK or equivalent high speed hand piece	
	Operating Environment	
2.:	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
2.2	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
3	Standards and Safety Requirements	
3.:	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
3.2	CE or USFDA or TUV approved product certificate.	
	Warranty	
4.:	Comprehensive warranty for 2 years after acceptance.	
	Documentation	
5.:	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	

No. Item Specificatio

Item Specificatio

Item Specificatio

In Model No.:

In Model No.:

In Courty of Origin:

Technical Specifications

Technical Specifications

1.2 Auroscope head with 3 standard specula, Nasal speculum, Laryngeal stem to take tongue depressor, Laryngeal or post nasal mirror

1.2 Auroscope head with 3 standard specula, Nasal speculum, Laryngeal stem to take tongue depressor, Laryngeal or post nasal mirror

1.2 Auroscope head with 3 standard specula, Nasal speculum, Laryngeal stem to take tongue depressor, Laryngeal or post nasal mirror

1.3 Large handle and two spare lamps.

1.4 Head Mirror

1.5 All to be supplied complete in plastic covered case.

2. Operating Environment

2.1 The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.

3. Standards and Safety Reaguriments

3. Il Must submit 15013485.2003/AC.2007 for Medical Devices AND

2. IC 193/42 EEC Directively or USFDA approved product certificate.

4. User Training

4. User Training

4. User Training (Including how to use and maintain the equipment).

5. Warranty

5. Comprehensive warranty for 2 years after acceptance. Item Specifications Fill your Specification

ENT Diagnostic Set

63

64 Trial Lens Set No.

I Manufacturer Name: Fill your Specification

- II	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
	Full – aperture trial lenses 267 pieces of accurate power degrees perfect finish	
	Metal rim/handles – with power degrees engraved on both sides	
	Standard removable tray with labels	
	Dimensions: W 518 mm x L 318mm x H 35mm +/- 2mm	
	Standard Carrying Case of aluminum framework, aluminum cover	
	Dimensions: W 545mm x L 355mm x H 100mm +/- 2mm	
	Weight: 6-8 kg	
	FRAME:	
	Separate adult size and pediatrics size frame should be there	
	P.D.: One touch adjustment	
	P.D.: 48 – 60mm, movable about 20mm in each 10mm.	
	Axis of astigmatism: Provides each 5	
	Nose pad : Adjustable in width and height	
	Temple : In angle and length	
2	Operating Environment	
2.1	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
2.2	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
3	Standards and Safety Requirements	
3.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
3.2	CE or USFDA or TUV approved product certificate.	
4	Warranty	
4.1	Comprehensive warranty for 2 years after acceptance.	
	Documentation	
5.1	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	

65 Ultrasound A-B Scan

No. Item Specifications	Fill your Specification
Manufacturer Name:	Till Your Specification
I Model No:	
III Country of Origin:	
1 Technical Specifications	
1.1. High resolution dedicated A and B, ophthalmic scanning unit B scan will cross vector.	
1.2. The system should consist of fourth generation microcomputer and high speed digital electronics, with highest resolution monitor.	
1.3 Technical features:	
1.4 · A-scan	
1.5 · Three a scan modes	
1.6 - Auto biometric, manual biometric, diagnostic	
1.7 Complete IOL program capabilities include SRK1 SRK11 SRK. T Hollady or Binkhorest formulas.	
1.8 - Save in memory capacity at least 45 cases for a-scan images and corresponding IOL data.	
1.9 · 10mhz solid probe	
1.1 - The unit should incorporate, audio feed back for probe alignment.	
1.11 -B-scan	
1.12 - 256 gray levels	
1.13 - User definable, DGC curve	
1.14 - Pre & post processing capabilities.	
1.15 - Volume, distance and area/ perimeter measurement	
1.16 - Selectable a-vector for simultaneous A/B display.	
1.17 - Annotation/arrow placement	
1.18 - Archiving of at least 150 patients in a single data file with an unlimited number of data files possible.	
1.19 Complete IOL calculation capability with IOL data storage.	
1.2 B-scan sector angle at least 55°	
1.21 - Standard accessories	
1.22 - Should include :	
1.23 Console with 7" display	
1.24 - Alphanumeric keyboard	
1.25 - Trackball	
1.26 · Foot pedal	
1.27 - 78.10 MHz, A-B scan probe	
1.28 - A scan calibration cylinder	
1.29 · Probe holders etc.	
1.3 - Vendors may quote other accessories	
1.31 - Standard accessories should include :	
1.32 - Console with 7" display	
1.33 - Alphanumeric key board	
1.34 · Trackball	
1.35 - Foot pedal	
1.36 · 100 & 12.5 MHz, A-B scan probe	
1.37 · A scan calibration cylinder	
1.38 · Probe holders etc	
2 Accessories, spares and consumables	
2.1 All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
3 Operating Environment	
3.1 The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
3.2 The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
4 Power supply:	
4.1 Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
5 Standards and Safety Requirements	
5.1 Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
5.2 CE or USFDA or TUV approved product certificate.	
6 Training	
6.1 Must provide user & service training.	
7 Warranty	
7.1 Comprehensive warranty for 2 years after acceptance.	
8 Maintenance Service During Warranty Period	
8.1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
9 Documentation	
9.1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
9.2 Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
9.3 List of important spare parts, accessories and consumables with their part numbers and costing.	
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66 Ophthalmology Surgical Microscope No. Item Specifications

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 1	Country of Origin:	
	1 Technical Specifications	
1.	1 Versatile surgical microscope of international repute suitable for all Ophthalmic Surgeries.	
1.	2 Microscope body with motorized zoom magnification system with apochromatic optics and anti-reflection multi –coating.	
1.	3 Zoom, factor range: 0. 4x2.4x; motorized fine objective lens focal length 200mm	
1.	4 Stereo coaxial Illumination for unique detail recognition	
1.	High contrast & stability of Red reflex even with strongly pigmented decentered and ametropic eye.	
	Focusing with range 50mm or more: manual front -to back tilt facility with range of 180 degrees with the facility of image inverting for VR surgery.	
1.	7 Motorized x-y coupling with range of 40mm X 40mm or more.	
1.	8 Key for resetting to initial position of x-y coupling and focus	
1.	Automatic depth of focus management by press of a button.	
1.	Independent integrated binocular assistant microscope with 5-step magnification changer and focusing it should be without beam splitter with independent optics.	
1.1	1 Full retinal protection device & integrated handgrips pair of high eye point wide push –in (magnetic) eyepieces 10x, 12.5x, field of view Diameter 15-50mm or more.	
1.1	2 Diopter setting from -8D to +5D or better, also suitable for spectacles wearers.	
1.1	Waterproof foot control panel with 14 functions and 3.0m cable for control of at least on /off and Intensity control, zoom fine focusing, x-y movements.	
1.1	High quality programmable floor stand with large swivel arm magnetic breaks and clutches for easy positioning through handles and suspension arm.	
1.1	Load caring capacity at least 20 Kg or more.	
1.1	Stand should have integrated power supply for all motorized functions with display and programmable facility for speeds of zoom, focus, x-y movements and setting of intensity.	
1.1	7 Stand should be rust free & have integrated dual illumination system 180 W Xenon superlux with backup Xenon & 2nd illumination system 12V 100W Halogen with Beak up Halogen.	
1.1	8 Cold light fiber Optic with dual o/p port for Stereo coaxial illumination system (SCI).	
1.1	It should have separate fiber cable Xenon & Halogen Illumination with manual change over.	
1.	2 OPTIONAL ACESSORIES: 3 CCD Digital Camera attachment with colour television & video recording system; video objective lens, C-mount adapter, Beam splitter 80:20 & BIOM with two lenses for VR Surgery.	
1.2	1 It should be USFDA or European CE approved.	
	2 Accessories, spares and consumables	
2.	1 All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
	3 Operating Environment	
3.	1 The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
3.	2 The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
	Power supply:	
4	Input power supply: 220/240 V AC . 50Hz sinele phase schuko plug	

	Standards and Safety Requirements	
5.	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
5.	2 CE or USFDA or TUV approved product certificate.	
	Training	
6.	Must provide user & service training.	
	Warranty	
7.	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
8.	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
9.	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
9.	2 Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
9.	List of important spare parts, accessories and consumables with their part numbers and costing.	

67 Phaco Machine

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68 Autorefractometer

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	Till Your Specification
	Model No.:	
-	Country of Origin:	
	Description of Function	
1.:	Measuring instruments used to determine the ratio of the velocity of light in a vacuum to the velocity of light in another medium (i.e., index of refraction).	
	Technical Specifications	
2.:	Should have in the system.	
2.2	Should have refractive measurement sphere from -25 to +22D in steps of 0.25D.	
2.3	Should have refractive measurement cylinder from -10 to +10D in steps of 0.25D.	
2.4	Should have refractive measurement axis angle from 1 to 180° in steps of 1°.	
2.5	Should have at least 0, 12 and 13.5 vertex distance.	
2.6	Should measure a minimum pupil diameter of 2.5mm.	
2.:	Should have at least 5 inches LCD/LED display.	
2.8	Should have vertically adjustable chin rest of at least ±25mm.	
2.9	Should have motorized table.	
- 3	Accessories, spares and consumables	
3.:	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
-	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
4.2	2 The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
	Power supply:	
5.:	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Standards and Safety Requirements	
6.:	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
6.2	CE or USFDA or TUV approved product certificate.	
	Training	
7.:	Must provide user & service training.	
	Warranty	
8.:	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
10.3	List of important spare parts, accessories and consumables with their part numbers and costing.	

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	riii your specification
_	Manuacuret vanie. Model No.:	
	rouser wo Country of Origin:	
	Louising or origin. Description of function	
_	L VESTIPPION OF TUNCOID Mid YAG frequency-doubled lasers, usually operated in pulsed modes, used to coagulate abnormal vascular tissue in the retina and other photocoagulation procedures in the eye. They are typically coupled to a bio microscope slit lamp or an indirect	
1.3	No. TAC irrequency-doubled lasers, usually operated in pulsed modes, used to coagulate abnormal vascular tissue in the retuna and orner photocoagulation procedures in the eye. I ney are typically coupled to a bio microscope six lamp or an indirect ophthalmoscope.	
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_	Technical Specifications	
	BEAM CHARACTERISTICS:	
	Should have treatment laser type Argon, Dye, Krypton, and Frequency-Doubled Nd: YAG.	
	Principal wavelengths shall be 530-540 nm.	
2.3	Delivered power of different lasers shall be as:	
	i. Argon blue-green 3 W,	
	ii. Argon green 1 W,	
	iii. Dye 1 W,	
	iv. Krypton green 1.5 W,	
	v. Krypton yellow 1.5 W,	
	vi. Krypton red 1 W,	
	vii. Nd: YAG 1 W.	
2.4	Delivery Mode - Single, repeat.	
	The amount of time the patient is exposed to activated laser energy shall be 0.01-2 Sec.	
	Repeat time shall be 0.1-2 Sec	
	Spot diameter @ retina shall be 50-1,000µm	
	AIMING BEAM:	
2.5	1. Wavelength shall be 630 nm	
	2. Power shall be <1 mW.	
	DELIVERY SYSTEM TYPE:	
	1. Sit lamp is required.	
	1. Jin range is required. 2. Intracular proper is required.	
	L. macioner join required. 3. Hand picture is required.	
	3. Ratio pieces to require. Accessories:	
	Accessories: Dust covers 1	
	Ouscovers 1 Allen Kev - 1 set	
	iridotomy and capsulotomy lens,(2 each)	
	Appropriate UPS backup	
	spare bulb - 2 Nos	
	Should be supplied with motorized table	
	Should provide protective goggles to be exclusive for ND-Yag Laser	
	Accessories, spares and consumables	
	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
- 1	Power supply:	
5.:	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Standards and Safety Requirements	
6.:	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
	CE or USFDA or TUV approved product certificate.	
	Training	
	Must provide user & service training.	
	Warranty Warranty	
	variantly (Comprehensive warranty for 2 years after acceptance.	1
	Comprehensive was retrieved from the control of the	
	maintenance service ourning warranty remou	
	Supplier must ensure planned preventive maintenance (PPM) along with corrective/oreakdown maintenance whenever required.	
10	Documentation User (Operating) manual in English Should provide 2 sets/hardcopy and soft-copy)	
		
	2 Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
	List of important spare parts, accessories and consumables with their part numbers and costing.	

70 YAG Laser

No.	Item Specifications	Fill your Specification
1	Manufacturer Name:	
- II	Model No.:	
III	Country of Origin:	
	Description of Function	
	Neodymium-doped yttrium-aluminum-garnet (Nd:YAG) lasers, usually Q-switched, used to cause a photo disruptive effect in the eye (e.g., posterior capsulotomy), forming a plasma and generating immense localized mechanical shock waves (micro	
1.1	explosions) that, when highly focused, can destroy tissue. These lasers have built-in slit-lamp bio microscopes or are coupled to a slit-lamp or indirect ophthalmoscope by fixed mirrors.	
2	Technical Specifications	
	BEAM CHARACTERISTICS:	
	i. Operating mode: O-switched	
	ii. Mode structure: Fundamental	
	iii. Energy range: Single pulse, 0.3-10mJ	
	iv. Pulse width shall be 4 n sec	
	v. Burst shall be 1-3 pulses/burst	
	vi. Repetition rate	
	a. Single pulse shall be 1-2 Hz	
	b. Burst shall be 1 Hz.	
	s. Survision et a	
	viigop: agie shall be 16 deg	
2.2	TAIL COLOR BIRDE TO BE AND SEARCH SEA	
	RIMINIO DEAM. I. Type: Dual Laser	
	it. It should have variable intensity	
2.3	III. II. STANDA INVENTINENT COMPATIBLE VILLE VIL	
	Commanded and Exempe	
	is Working distance shall be 100 mm	
2.4	INFORMATION CONTROLS	
2.7	i. Selected energy is required	
	is Shot selection is required	
	iii. Power output is required	
	III. TOWER DEBUTE STEEDINED	
2.5	w. since course is required.	
	COUNT REPORT DE SUCCIONA. COUNT REPORT DE SUCCIONA. COUNT REPORT DE SUCCIONA. COUNT REPORT DE SUCCIONA.	
	Control regiments 7.00	
	i. Contact les	
	ii. TV, 35 mm adapter	
	iii. Head restraint	
	in Tool Section 1	
	v. Dust covers- 1	
	v. Allen Key - 1 set	
	vii. Spare bulb - 2 Nos	
3	Accessories, spares and consumables	
	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
	The unit shall be capable of beginning in animality in 2007 Carlo effective humidity of 10-95% The unit shall be capable of beginning the store of 2007 Carlo effective humidity of 10-95%	
	The Unit state of Capacity of	
	Tweer supply: 220/240 V AC , 50Hz single phase schuko plug	
	Standards and Safety Regizer when the standard programmer is a standard programmer in the standard programmer is standard programmer in the standard programmer is standard programmer in the standard programmer is standard programmer in the standard programmer is standard programmer in the standard programmer is standard programmer in the standard programmer is standard programmer in the standard programmer is standard programmer in the standard programmer is standard programmer in the standard programmer is standard programmer in the standard programmer is standard programmer in the standard programmer is standard programmer in the standard programmer in the standard programmer is standa	
	Must submit 150 9001 or 150 13485:2003/AC: 2007 AND	
	CE or USFDM or TUV approved product certificate.	
	Training	
	Must provide user & service training.	
	Maranty Maranty State States S	
	worstime to the control of the contr	
	Compensate warranty not a year acceptance. Maintenance Service During Warranty Period	
	Institutioning Service Using Vision Provided Transport (PPM) along with corrective/breakdown maintenance whenever required.	
	Supplier must ensure planned preventive manuferlance (**r**********************************	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Oser (Operating) manuscian in English Should provide 2 sets (Intercopy) Service (Technical / Maintenance) manual in English Should provide 2 sets (Intercopy) Service (Technical / Maintenance) manual in English Should provide 2 sets (Intercopy) Service (Technical / Maintenance) manual in English Should provide 2 sets (Intercopy) Service (Technical / Maintenance) manual in English Should provide 2 sets (Intercopy)	
	Service (recurrent) from the first transfer manual in Construction and the first transfer manual in Construction a	
10.3	as or important space para, accessories and consumates wait titeli part numbers and costing.	

71 Ophthalmic Perimeter

No.	Item Specifications	Fill your Specification
- 1	Manufacturer Name:	
11.1	Model No.:	
III 0	Country of Origin:	

1	Technical Specifications	
	Maximum temporal range of degrees), with moving fixation point	
	Stimulus duration 0.1 up to 9 second	
	Visual field testing distance up to 30 cm	
	Different Background illumination LED (green ,white , red)	
	Threshold test library:	
	different testing 24-2, 30-2, 10-2, Macula	
	60-4, Nasal step	
	Suprathreshold test library:	
	C40, C76, C80,C64, C-Armaly, Peripheral test patterns	
	Suprathreshold test modes :	
	Age corrected, threshold related, Single intensity	
	Specialty test library	
	Social Security Disability, monocular, binocular .	
	Esterman monocular, binocular, superior 36, 64.	
	Kinetic testing, can be auto	
	Custom Kinetic testing, Custom Static testing test editor	
	Fixation control	
	Trestor Control	
	Nejee eve monitor.	
	vised by Embiron.	
-	SOREY THEOL WILLIAM SOREY	
	vertex monitoring. Stimulus	
	Mitte-on-white	
	winterowinte Red-orbitevon-white	
	Neu- or unied or unied will be a consideration of the consideration of t	
	BINE-OIL-PRIDM (SWAP) General testing features	
	seried it comp teatures	
_	Stimulus sizes: 1 Up V Foveal threshold testine	
_		
_	Automatic pupil measurement	
_	Liquid Trial Lens (AutoTLC).	
_	Rel EYE eye review	
_	Software features	
	Single Field Analysis (SFA),Glaucoma Hemifield Test (GHT)	
	Visual Field Index (VFI), Guided Progression Analysis (GPA)	
	Serial field overview, Networking, DICOM Connectivity	
	Data storage, retrieval and analysis	
\vdash	Hard drive , USB ,CD-R/W drive ,printer to be compatible with windows ,user defrined test storage	
\vdash	Operator interface	
\vdash	Display LCD , touch screen , Keyboard	
2	Electrical requirements	
_	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length. Suitable UPS	
_	Operation Manual	
3	Standards	
	Meets UL, CSA and CE standards	
	Dust cover	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length. Suitable UPS	
	Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.	
	All Customer Calibration Tools & Special Calibration tools must be included in the offered price and their cost must be stated in details in a separate file	
	warranty: 2years	
4	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts, accessories and consumables with their part numbers and costing.	
-	•	

72 Optical Coherence Tomography

Mode No. Mode No.	Item Specifications Fill y	ill your Specification
Description of Function	facturer Name:	
1 Description of function 1 Optical contemporary (OCT) as an interferometry, non-incusive optical tomographic imaging sectionium offering millimetre prontration (poproximately 2.3 mm in tissue) with micrometre scale axial and interferometry. 2 Optical Contemporary (OCT) as an interferometry, non-incusive optical tomographic imaging sectionium offering millimetre prontration (poproximately 2.3 mm in tissue) with micrometre scale axial and interferometry. 3 Optical Contemporary (OCT) as an interferometry of the scale of t	No.:	
1.1 Optical coherence tomography (CCT) is an interferometry, non-invalve optical tomographic imaging technique effering millimetra penetration (poproximately 3.3 mm in tissue) with micrometre scale axial and lateral resolution. 2. Operational Requirements 3. Optical Coherence Tomographic, complete until with all standard accessories. 4. Tomography Invaded. 4. Tomography Invaded. 4. Tomography Invaded. 5. Standard Coherence Tomography, complete until with all standard accessories. 4. Tomography Invaded. 5. Standard Coherence T	ry of Origin:	
J. Cort machine abundants/aycants to the region of produces simultaneously an OCI scan & red free images. J. Street Configuration J. Order Configura	ption of Function	
2.1 OCT markine automatically uses both eyes and produces simultaneously and CS son & red free images.	Coherence tomography (OCT) is an interferometry, non-invasive optical tomographic imaging technique offering millimetre penetration (approximately 2-3 mm in tissue) with micrometre scale axial and lateral resolution.	
3 Section Control Tomography, complete unit with all landard accessories. 4 Technical Secretifications 5 Control Control Secretifications 5 Control Landard Processing Control Section From Travelle Control Section From Travella Control Section From Travelle Control Section From Travelle Control From Travelle Control From Travelle Control From Travelle Control From Travelle Control From Travelle Control From Travella Control From Travelle Control From Travelle Control From Travelle Control From Travelle Control From Travelle Control From Trav	tional Requirements	
3.1 Outcome Tomography Complete work with all standard accessories.	achine automatically scans both eyes and produces simultaneously an OCT scan & red free images.	
A Temperative Imaging:	n Configuration	
A Temperative Imaging:	Coherence Tomography, complete unit with all standard accessories.	
4.1 Tomography Imaging: Strosp set products a set armount mage of fundus: Strosp at type: Control seatment from tosse. Stropp at type: Control seatment from		
8 Symal traps (Copies astertaining from tissue. 5 Symal traps (Copies astertaining from tissue. 5 Symal source Super Instrumental Biolofe, 820 mm. 5 Optical power. 30 in invasive at content. 8 Symal traps (Copies astertaining from tissue. 8 Symal traps (Copies astertaining from tissue. 8 Symal traps (Copies astertaining from tissue. 9 Symal traps (Copies astertaining from tissue. 10 Symal traps (Copies astertaining from tissue. 10 Symal traps (Copies astertaining from tissue. 10 Symal traps (Copies astertaining from tissue. 10 Symal traps (Copies astertaining		
8 Signal source (port humanean floods 820 ms. 5 Optical power 750 microvatri at cornea. 8 Optical power 750 microvatri at cornea. 9 Stemptical power 750 microvatri at cornea. 9 Stemptical Repolition (2) pa in tissue. 9 Stemptical Repoli		
8 Signal source: Super humanesem Diode 820 ms. 8 Optical power has not some as. 8 Optical power has not some as. 8 Optical power has not some as. 8 Optical power has not some as not some as. 8 Optical power has not some as		
8 Sungle deve zim heavity calcified tissue. 8 Sample size zim heavity calcified tissue. 9 Sample size zim heavity calcified tissue. 9 Scenares Galavaneatric nurse. 9 Scenares Galavaneatric n		
Sample size makes Registrion: 20 am in tissue		
B Scanner Salvanometric Instruction B Scanner Communication B Scan		
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B Sam praters Line, Drick, Concentric Rings, Radial Ines.		
Expansate Adjustable from (1024 axial x 128 transverse) to (1024 axial x 758 transverse). Example (Learn) (Learn) axial x 128 transverse) to (1024 axial x 758 transverse). Expansate (2.5 mase (A-scan.) Expansate (2		
B. Scan rate 2,5 mes / A-visus B. Scan rate 2,5 mes / A-visus		
Born article 25 mase / Avean.		
Description of the database INPL (Retroil Nerse Fårer Layer) and Macular thickness		
4.2 Individua Alignment, Documentation:		
Brief of the Wilder 20 at 230		
Steady of the Windows Steady Stea		
Silvamination Near IR / Red Tree. Silvamination Ne		
Billimination: Near IR / Red Free.		
Sternal fixetion 12 to 15 to		
Bitimum uppl diame eter 3 2 m. 9 Power consumption: 700VA. 15 Footprint: 120 x 85cm - 18mthes x 38mthes		
Bower consumption: 700 kb. Broad print: 120 x 85cm - 48mches x 34mches A 1 C workstand with Carels EXP with hister printer (colour), 300 GB HDD, DVD Read/Write, Image capture card and software loaded for digitization of images, 2GB RAM and interfaces to RVG and intraoral digitization. S accessories, pases and consumables S and a consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. S observating Environment S observation S observating Environment S observation S observating Environment S observation S ob		
Security 120 x 85cm - 18th ches x 3 linches Security 120 x 85cm - 18th ches x 3 linches Security 120 x 85cm - 18th ches x 3 linches Security 120 x 85cm - 18th ches x 3 linches Security 120 x 85cm - 18th ches x 3 linches Security 120 x 85cm - 18th ches x 3 linches Security 120 x 85cm - 18th ches x 3 linches Security 120 x 85cm - 18th ches x 3 linches Security 120 x 85cm - 18th ches x 95cm Security 120 x 85cm S		
Brotzentin: 120 x 50m - 48 mohes x 34 mohes x 34 mohes x 34 mohes x 34 mohes x 34 mohes x 34 Ex workstand with Care Is CPV with laser printer (colour), 300 GB HDD, DVD Read/Write, Image capture card and software loaded for digitization of images, 2GB RAM and interfaces to RVG and intraoral digitization.		
4.3 PC workstation with Core is CPU with laser printer (colour), 300 GB HDD, DVD Read/Write, Image capture card and software loaded for digitization of images, 2GB RAM and interfaces to RVG and intraoral digitization. 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. 6 Operating Environment 6.1 Province in Geret shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan. 6.2 Power supply, 220 – 240 VAC, Solfs fitted with appropriate plug. The power cable must be at least 3 metre in length. 6.3 Value (1908) Subable USV with maintenance five batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system. 9 Standards and Safety Requirements 1 Standards and Safety Requirements 1 Standards and Safety Requirements 1 Standards and Safety Requirements 2 Standards Servince (1908) Servince (1908		
S Accessories, spares and Consumables S Operating Environment S Opera		
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. 6.2 Power supply: 220—240 VAC, 50th fitted with appropriate plug. The power cable must be at least 3 meter in length. 6.3 Power supply: 220—240 VAC, 50th fitted with appropriate plug. The power cable must be at least 3 meter in length. 6.4 Power supply: 220—240 VAC, 50th fitted with appropriate plug. The power cable must be at least 3 meter in length. 7. Standards and Safety Requirements 8. Substible USS youth maintenance five batteries, voltage regulation and giple protection for minimum 30 min. back-up shall be supplied with the system. 9. Standards and Safety Requirements 1. Must submit 15013485;2003/CA200 for Medical Devices AND 1. Standards and Safety Requirements 1. Selectrical safety conforms to standards for electrical safety IC 56050-1 General requirement for Electrical safety of Medical Equipment. 8. Ser Fraining 8. Must provide user training (including how to use and maintain the equipment). 9. Warranty 9. Compenhensive warranty for 2 years. 10. Maintenance Service During Warranty Period 10. During warranty period supplier must ensure corrective/breakdown maintenance whenever required. 11. User (Operating) manual in English.		
Some product of the company of the designed to be stored and to operate normally under Power Supply. Climate, Temperature, Humidity, etc. for Sudan.		
5. It per grouter offered shall be designed to be stored and to operate normally under Power Supply. Climate, Temperature, Humidity, etc. for Sudan. 5. Power supply. 220 – 240 VAC, 50Hz fitted with appropriate plug. The power sube must be at least 3 metre in length. 7. Standards and Safety Requirements 8. Standards and Safety Requirements 8. Standards Safety Requirements 9. Standard		
6.2 Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length. 5. Suitable USV with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system. 7. Standards and Safety Requirements 7. Electrical safety conforms to standards for electrical Devices AND 7. Electrical safety conforms to standards for electrical safety IEC 69601-1 General requirement for Electrical safety of Medical Equipment. 8. User Training 8. User Training 9. Warranty 9. Warranty 10. Maintenance Service During Warranty Period 10. Maintenance Service During Warranty Period 10. During warranty period supplier must ensure corrective/breakdown maintenance whenever required. 11. User (Operating) manual in English.		
6.3 Sutable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system. 9 Standards and Safety Requirements 7.1 Must submit ISO13485:2003/AC.2007 for Medical Devices AND 7.2 (C 193/AE EEC Directives) or USFOA or TUV approved product certificate. 7.3 Electrical safety conforms to standards for electrical safety IEC 66060-1. General requirement for Electrical safety of Medical Equipment. 9 User Training 10 Must submit (SO13485:2003/AC.2007 for Medical Devices AND 10 Improved user training (including how to use and maintain the equipment). 9 Warranty 10 Comprehensive warranty for 2 years. 10 Maintenance Service During Warranty Period 10.1 During warranty period supplier must ensure corrective/breakdown maintenance whenever required. 11.1 User (Operating) manual in English.		
7 Standards and Safety Requirements		
7.1 Must submit ISO1348S-2003/AC-2007 for Medical Devices AND 7.2 Et (93/42 EEC Directives) or USF0A or TUV approved product certificate. 7.3 Electrical safety conforms to standards for electrical safety IEC 60503-1 General requirement for Electrical safety of Medical Equipment. 8 User Training. 8 User Training. 9 Warranty 9 Warranty 10 Comprehensive warranty for 2 years. 10 Must record supplies of the product of t		
7.2 [C 193/42 ECC Directives) or USPDA or TUV approved product certificate. 8 User Training. 8 User Training. 8.1 Must provide user training (including how to use and maintain the equipment). 9 User Training. 8.1 Must provide user training (including how to use and maintain the equipment). 9 User Training. 9.1 Comprehensive warranty for 2 years. 9.1 Comprehensive warranty period supplier must ensure corrective/breakdown maintenance whenever required. 10.1 During warranty period supplier must ensure corrective/breakdown maintenance whenever required. 11.1 User (Operating) manual in English.		
7.3 Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment. 8 User Training. 3 Usus provide user training (including how to use and maintain the equipment). 9 Warranty 10 Comprehensive warranty for 2 years. 10 Maintenance Service During Warranty Period 10 During warranty speriod supplier must ensure corrective/breakdown maintenance whenever required. 11 Documentation 11.1 User (Operating) manual in English.		
B User Training All Must provide user training (including how to use and maintain the equipment). 9 Warranty 9.1 Compenensive warranty for 2 years. 10.1 During warranty period supplier must ensure corrective/breakdown maintenance whenever required. 10.1 During warranty period supplier must ensure corrective/breakdown maintenance whenever required. 11.1 User (Operating) manual in English.		
8.1 Must provide user training (including how to use and maintain the equipment). 9 Warranty 9.1 Comprehensive warranty for 2 years. 10 Maintenance Service During Warranty Period 10.1 During warranty period supplier must ensure corrective/breakdown maintenance whenever required. 11 Documentation 11.1 User (Operating) manual in English. 12.1 Service (Technical / Maintenance) manual in English.		
9 Warranty 9) Comprehensive warranty for 2 years. 10 Maintenance Service During Warranty Period 10. During warranty period supplier must ensure corrective/breakdown maintenance whenever required. 11. Ducementation 12. Service (Technical / Maintenance) manual in English.		
9.1 Comprehensive warranty for 2 years. 10 Maintenance Service During Warranty Period 10 Louring warranty period supplier must ensure corrective/breakdown maintenance whenever required. 11 Documentation 11.1 User (Operating) manual in English. 11.2 Service (Technical / Maintenance) manual in English.		
10 Maintenance Service During Warranty Period 10 Louring warranty period supplier must ensure corrective/breakdown maintenance whenever required. 11 Documentation 11.1 User (Operating) manual in English.		
10.1 During warranty period supplier must ensure corrective/breakdown maintenance whenever required. 11 Documentation 1.1 User (Operating) manual in English. 1.1.2 Service (Technical / Maintenance) manual in English. 1.1.2 Service (Technical / Maintenance) manual in English. 1.1.2 Service (Technical / Maintenance) manual in English. 1.1.3 Service (Technical / Maintenance) manual in English 1.1.3 Service (Technical / Maintenance) manual in English 1.1.3 Service (Technical / Maintenance) manual		
11 Documentation		
11.1 User (Operating) manual in English. 11.2 Service (Technical / Maintenance) manual in English.		
11.2 Service (Technical / Maintenance) manual in English.	nentation	
11.2 Service (Technical / Maintenance) manual in English.		
11.3 List of important spare parts and accessories with their part numbers and costing.		-

73 Synaptophore

No	. Item Specifications	1
	Manufacturer Name:	
	II Model No.:	,
	III Country of Origin:	
	1 Technical Specifications	I .
1	.1 Movement of Optical Tubes:-	I .
1	.2 Horizontal: Adduction + 50 degree, Abduction-40 degree	I .
1	.3 Vertical: Hyper 30 degree, Hypo 30 degree	I .
1	.4 Torsional : Incyclo 20 degree, Excyclo 20 degree	I .
1	.5 Slide Illumination:	I .
	By rheostat controlled 6v Lamp for each slide. After Image Illumination by 12v Lamp	I .
1	.6 Auto Flashing:	I .
	Auto flashing of slide illumination either simultaneously or alternatively in rapid and variable models.	i -

1.7	Mode & Mode Selection:	
	Five Modes of slide illumination namely Normal, Flashing Right, Flashing R+L & Flashing, can be selected	
1.8	Haidinger Brush:	
	One Haidinger brush attachment along with rheostat for speed control and switch for direction reversal.	
1.9	Dimensions:	
	Longitudinal: 40-55cm	
	Lateral : 30-40cm	
	Vertical : 30-50cm	
	Weight: 10-15kg	
1.1	Standard Accessories:	
	A set of slides containing 9 pairs	
1.11	Accessories:	
	One power cord	
	One dust Cover	
	Spare 6v Bulbs (2 Nos) & 12v Bulbs (2 Nos.)	
- 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.	
	Operating Environment	
3.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
3.3	Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.	
4	Standards and Safety Requirements	
4.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
4.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years.	
7	Maintenance Service During Warranty Period	
7.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Documentation	
8.1	User (Operating) manual in English.	
	Service (Technical / Maintenance) manual in English.	
8.3	List of important spare parts and accessories with their part numbers and costing.	

74 Vision Chart Item Specifications Fill your Specification 8.1 Must provide user training (including how to use and maintain the equipment).

9.1 (Comprehensive warranty for 2 years.

10. Maintenance Service During Warranty Period.

10.1 (During warranty period supplier must ensure corrective/breakdown maintenance whenever required.

11.1 (Decrine manual in English.

11.2 (Service (Technical / Maintenance) manual in English.

11.3 (List of important spare parts and accessories with their part numbers and costing.

75

No.

I Manufacturer Name:

II Model No.:

II Country Origin:

1 Technical Specifications

Auto -mono and multi focal detection ,LCD touch panel

Measurement Ranges:
Sohere Power +/ - 50 D.

Cylinder Power -/ - 10 D.

Aus to 10 100 .

Aus to 10 100 .

Prism 0 to 10 D.

Prism 0 to 10 D.

Measuremen Mode

Cylinder : - / + 2 / Prism : Rectangular Coordinates / xy / P-8 Fill your Specification Prism : Rectangular Coordinates / x-y / P-B Lens detection:
Auto for single and progressive lenses
contact Lens measurement
hard // fort contact lense
light source
zeron fort centact measurement / UV LED UV mrasurment
Screen
Color touch screen
Po measurment
So up to 90 mm
Printer and external interface
Thermal printer / type _and LAN to be included
Dust cover
1 Accessories, sparse and consumables
Dust cover
2 Accessories, sparses 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.
3 Operating Environment
3.1 The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.
3.2 Power supply, 220 – 240 VAIC, 50Hz fitted with appropriate plus. The power cable must be at least 3 metre in length.
3.3 Sustable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.
4 standards and Safety Requirements
4.1 Must submit ISD1348S:2003/AC.2007 for Medical Devices AND
4.2 (C 193/42 EEC Directives) or USFDA or TUV approved product certificate.
5.1 Must provide user training (including how to use and maintain the equipment).
6.1 Comprehensive warranty for 2 years.
7 Maintenance Service During Warranty Period
5.1 During warranty period supplier must ensure corrective/preakdown maintenance whenever required.
8.3 User (Devertine) manual in English.
8.3 Ust of important spare parts and accessories with their part numbers and costing. Lens detection : Auto for single and progressive lenses

76		Endo Laser	
	No.	Item Specifications	Fill your Specification

III Country of Origin:	
1 Technical Specifications	
Yag laser sourse : wave length : 532nm	
Power in tissue up to 1200mW	
Pulse duratio 20ms to continuous	
Foot switch, dust cover	
Delivary system: ORmicroscope adapter (ziess type,leica type), slit lamp adapter,laser indirect opthalmoscopes,	
Laser probes straight, curved, fleible curved, steerable	
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.	
3 Operating Environment	
3.1 The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
3.2 Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
3.3 Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.	
4 Standards and Safety Requirements	
4.1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2 CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
5 User Training	
5.1 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 warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
8 Documentation	
8.1 User (Operating) manual in English.	
8.2 Service (Technical / Maintenance) manual in English.	
8.3 List of important spare parts and accessories with their part numbers and costing.	

77 Corneal Topography machine

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- II	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
	Keratoscope cone 24 rings equally distributed on a 43D sphere	
	Analysed points Over 100.000	
	Measured points Over 6.200	
	Corneal coverage Up to 9.8mm on a sphere of radius 8.00mm (42.2	
	dioptres with N=1.3375)	
	Diopter power range 1D to 120DFrom	
	Resolution +/- 0.01D, 1 micron	
	Accuracy / Precision axial radius +/- 0.03mm altimetric data +/- 2µm at 4mm	
	Capture system Auto-focus with auto-capture	
	Output ports USB, LAN	
	Monitor LCD 10.1 inch capacitive touch screen	
	Database Internal	
	Pupillometry Dynamic, Photopic, Mesopic, Scotopic	
	Fluorescein Image & video	
	Report Corneal map, comparison map, contact lens, height map,	
	Zernike analysis, pupillometry, toric IOL , screenshot,	
	Meibomiam glands, Tear film break up time	
	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.	
3	Operating Environment	
3.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
3.3	Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years.	
7	Maintenance Service During Warranty Period	
	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	<u>Documentation</u>	
	User (Operating) manual in English.	
	Service (Technical / Maintenance) manual in English.	
8.3	List of important spare parts and accessories with their part numbers and costing.	

78 Cross Linking Machine

No. Item Specifications	Fill your Specification
I Manufacturer Name:	
II Model No.:	
III Country of Origin:	
1 Technical Specifications	
UV light Source LED UV-A range.	
High level of safty, come with one or more diod and spcial optics, and to aviod the hot spots and the endothelium protected	
flexibility ,can choose between 3 or more energy levels	
can be portable with a table mount	
Working distance up 54 mm.	
System for collimation with special foucs on effectiveness	
Tele camera integrated 1/4" camera.	
W / Monitor Display .	
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.	
3 Operating Environment	
3.1 The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
3.2 Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
3.3 Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.	
4 Standards and Safety Requirements	
4.1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2 CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
5 User Training	
5.1 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 warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
8 Documentation	
8.1 User (Operating) manual in English.	
8.2 Service (Technical / Maintenance) manual in English.	
8.3 List of important spare parts and accessories with their part numbers and costing.	

79 Cryo System

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 1	Country of Origin:	
	Operational Requirement:	
	Useful for cataract, retinal detachment, glaucoma and intravitreal surgery	
	2 Technical Specification:	
	■ Completely non-electric, portable for Gas N ² O	
	□ Foot controlled	
	□ Instant defrosting	
	□ Quick freezing and quick defrosting	
	₫ Automatic Probes cleaning	
	Cryo Probes:	
	Probes to be provided	
	Cataract (-40%), Retinal (-80%), Glaucoma(-80%), Intravitreal (-20%)	
	Accessories, spares and consumables	
3.	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.	
	Standards and Safety Requirements	
4.	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	

5 User Training		
5.1 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 warranty period supplier must ensure corrective/breakdown maintenance whenever required.		
8 Documentation		
8.1 User (Operating) manual in English.		
8.2 Service (Technical / Maintenance) manual in English.		
8.3 List of important spare parts and accessories with their part numbers and costing.		

80 Diathermy for Ophthalmic Surgery

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
II	Country of Origin:	
1	Technical Specification:	
	BOutput power: 5 W or more.	
	B Should have output power indicator	
	IB Should have 7-segment LED or LCD display.	
	图 O/p level: 0 to 9 positions	
	BInput supply: "110-230 V, 50 Hz	
2	Standard Accessories	
	1. Silicone bipolar cord	
	2. Standard tenzel bipolar forceps	
	3. Foot switch	
	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.	
- 4	Standards and Safety Requirements	
4.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years.	
	Maintenance Service During Warranty Period	
7.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English.	
8.2	Service (Technical / Maintenance) manual in English.	
8.3	List of important spare parts and accessories with their part numbers and costing.	

81 Ophthalmic Operating Table

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
_	Model No.:	
II	Country of Origin:	
1	Technical Specification:	
	■ Should be electro-hydraulically operated.	
	BDIsinfectant resistant stainless steel finished, foot switch operated	
	🖪 All stainless steel accessories	
	B With special design cushioned head holder	
	□ Safety back up of all functions	
	□ Up & down movements	
	ß Minimum height: 700 mm (approx)	
	B Maximum height: 900 mm (approx)	
	☐ Stroke length: 200 mm (approx)	
	Standard Accessories: 1.Foot switch (1no.), 2.Power cord (1no.)	
	Standard Accessories	
	1. Silicone bipolar cord	
	2. Standard tenzel bipolar forceps	
	3. Foot switch	
72	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.	
	Operating Environment	
3.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
3.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
3.3	Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.	
- 4	Standards and Safety Requirements	
4.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2	2 CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	User Training	
5.1	Must provide user training (including how to use and maintain the equipment).	
6	Warranty	
6.1	Comprehensive warranty for 2 years.	
-	Maintenance Service During Warranty Period	
7.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Documentation	
8.1	User (Operating) manual in English.	
8.2	Service (Technical / Maintenance) manual in English.	
8.3	List of important spare parts and accessories with their part numbers and costing.	

82 Portable Sit Lamp

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 1	Country of Origin:	
	Technical Specification:	
	Type Binocular Hand held Biomicroscope Slit Lamp	
	Small and light weight	
	Filters Red free, Blue, Heat absorbation ,Grey cbalt, blue	
	Slit angle +/- 30 or +/- 90%	
	Fixation targets LED system,high lumination with long life hours	
	Biomicroscope	
	Magnification variable size	
	Dust cover	
	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.	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
3.	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
3.	Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.	
	Standards and Safety Requirements	
4.	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	User Training	
5.	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
6.	Comprehensive warranty for 2 years.	
	Maintenance Service During Warranty Period	
7.	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Documentation	
8.	User (Operating) manual in English.	
8.	Service (Technical / Maintenance) manual in English.	
8.	List of important spare parts and accessories with their part numbers and costing.	

83 Specular Microscope

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Technical Specification:	
	Photography Magnification 254x (on the Control Panel)	
	Photography Range 0.25x0.55mm	
	Resolving Power More than 125 line/mm	

Fixation Target Central and Peripheral	
Corneal Thickness Measurement	
Measurement Range 0.400-0.750mm (Display Unit: 0.001mm Step Display)	
The machine should be easy to operate and should have Auto image capture mode.	
Should be able to capture Endothelial image. Also should have Auto-focusing and auto alignment.	
Measurement: Should have Automated, Center& Flex - Centre methods	
Cell analysis should be completed in a few seconds. Also choice for Automated,	
Flex-Center and the center method should be used as manual analysis.	
Analysis Data: Average Cell area, Maximum & Minimum cell area, Number of analyzed cell, Percentage of hexagonal cell, Corneal Thickness, Cell density, Standard deviation, Coefficient of variation	
Cell image should be displayed in the entire frame and should have wide and clear image to help for objective diagnosis.	
Should have built in Auto Pachymeter for Corneal Thickness Measurement.	
Should have a Widescreen Touch of 15" having Panel PC mounted.	
Should have a CCD Camera with a Konan Xe tube Flash & Konan Halogen Lamp Illumination for Focusing.	
Photographic Field should be 0.24 x 0.4mm	
Photographic Location should be Centre and Peripherals (12, 2, 10, 6 o' Clock)	
Power consumption should be of 200VA.	
Dimension should be approximately 388(W) x 457(D) x 780(H) mm	
Should be quoted with Motorised Instrument Table.	
Wide Angle "Pangrama" Photography Mode -Substantial Size increase of the analyzed area	
Two Specific Photographic Modes - Seguence Course & Free Style Course	
Quick Automatic Measurement and Analysis -Instant acquisition of the analysis	
result -Intuitive Operation	
• Easy-to Read Screen and Comprehensive Analysis Software	
-Frequency referred values are shown on top	
-A pleomorphic/polymegethic histogram can be shown with color	
Compact and Stylish Design -10.4" rotatable touch panel monitor	
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.	
Operating Environment	
The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.	
Standards and Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
User Training	
Must provide user training (including how to use and maintain the equipment).	
Warranty	
Warranty Comprehensive warranty for 2 years.	
Comprehensive warranty for 2 years.	
Comprehensive warranty for 2 years. Maintenance Service During Warranty Period	
Comprehensive warranty for 2 years. Maintenance Service During Warranty Period During warranty period Supplier must ensure corrective/breakdown maintenance whenever required.	
Comprehensive warranty for 2 years. Maintenance Service During Warranty Period During warranty period supplier must ensure corrective/breakdown maintenance whenever required. Documentation	
	Corneal Thickness Measurement Measurement Rape 0.400-0.750mm (Display Linit: 0.001mm Step Display) The machine should be easy to operate and should have Auto image capture mode. Should be able to capture Endothelial image. Also should have Auto image capture mode. Measurement: Should have Automated. Center® Fiex Centre methods Cell analysis should be completed in a few seconds. Also choice for Automated. Elevation and the center method should be used an anamala analysis. Elevation and the center method should be used an anamala analysis. Analysis Data. Average Cell area, Maximum & Minimum cell area, Number of analyzad cell, Percentage of hexagonal cell, Corneal Thickness, Cell density, Standard deviation, Coefficient of variation Cell manage should be displayed in the entire frame and should have wide and clear image to help for objective diagnosis. Should have built in Auto Pachmeter for Corneal Thickness Measurement. Should have a CCC Camera with a Konan Xe tube Flash & Konan Hadogen Lamp Illumination for Focusing. Photographic Location should be Centre and Peripherals (12, 2, 10, 6° Clock) Power Requirements Should be Act 2007 - 2400 Vsjoldy Mr. Power Consumption should be of 2000 VA. Dimension should be approximately 388(My x 457(D) x 780(H) mm Should he quoted with Motorised Instrument Table. *Wo Specific Photographic Modes Sequence Course & Free Style Course *Work Appel Pranagram? Photography Mode - Substantial Size increase of the analysed area *Wo Specific Photography Mode Substantial Size increase of the analyses result - institute Operation *Application of the Course of the Analysis Software -Frequency referred values are shown on top -Frequency referred values are shown on top

84 Low Vision Devices

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
II	Country of Origin:	
1	Technical Specification:	
	To have protective hard coating	
	Provide the largest field possible per magnification	
	Provide illumination system	
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.	
3	Operating Environment	
3.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
- 4	Standards and Safety Requirements	
4.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
5	User Training	
5.1	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
6.1	Comprehensive warranty for 2 years.	
	Maintenance Service During Warranty Period	
7.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
8	Documentation	
8.1	User (Operating) manual in English.	
8.2	Service (Technical / Maintenance) manual in English.	
8.3	List of important spare parts and accessories with their part numbers and costing.	

85 Vitrectomy Machine

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	, ,
	Model No.:	
III	Country of Origin:	
1	Technical Specification:	
	Should have the facility to generate direct venturi vacuum of up to 650 mm Hg through cassette system having 2 independent aspiration ports.	
	Should have the capacity to compensate the infusion pressure constantly with results in a more stable IOP.	
	Should have the 3-D technology to linearly control vacuum and cut rate simultaneously in vitrectomy mode.	
	Should have the facility to allow surgeon to select from 3 different duty cycle options at any given cut rate for more control and precise cutting near retina or similar mechanism.	
	Should have the ability to drive vertical guillotine vitrectomy cutter to go up to 5000 cuts to 20,000 cuts/min.	
	Should have the capacity to monitor infusion pressure constantly.	
	The system should have two Xenon Illuminators with four ports. The System should recognize the gauge of illuminator connected and adjust the illumination accordingly.	
	The system should have the facility to monitor the bulb life, to avoid surpasses.	
	Should have the capacity to support MIVS options like 23 G, 25 G AND 27 G.	
	The System should have Vented Gas Forced Infusion Capability.	
\vdash	The System should have the Automated Silicon Oil Injection Capability.	
	Should have the fully programmable footswitch with the facility to change procedural modes through footswitch.	
	Should have the facility of regular fixed diathermy.	
	Should have the facility to digitally control the infusion pressure and the facility to toggle between a regular infusion pressure and an higher alternate pressure (to achieve tamponade effect) with the help of footswitch.	
	Should have the facility for the extrusion of sub retinal fluid.	
	Should have the facility of voice re - confirmation.	
	Should programmability to store various parameters.	
	Should have the facility of fragmentation with the help of 4 crystal ultrasound light weight hand - piece.	
	Should have a Bar - Code Scanner to identify the gauge of the vitrectomy cutter and populate it in the consumable list.	
	The system should have Auto Fluid / Air Exchange; No stop - cock.	
	The System should have Auto Gas Fill (C3F8 and SF6) option.	
	Should have the facility of Proportional Reflux.	
-	Alarm for infusion fluid change	
	Should have inbuilt 532 nm green laser.	
	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.	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years.	
	Maintenance Service During Warranty Period During warranty period pupiler must ensure corrective/breakdown maintenance whenever required.	
	During warranty period supplier must ensure corrective/breakdown maintenance whenever required. Documentation Documentati	_
	Documentation User (Operating) manual in English.	_
	User (Uperaturg) manuai in English. Service (Technical / Maintenance) manual in English.	
	Service (tectnical / maintenance) manual in English. List of important soare parts and accessories with their part numbers and costing.	
0.3	j ust of important spare parts and accessories with their part numbers and costing.	

86	Cataract & ILO Set With Sterilization box

	Manufacturer Name:	
1	Model No.:	
II	Country of Origin:	
	Technical Specification:	
	Barraquer Wire Speculum, Large - Qty. 1	
	Suture Tying Forceps, Curved - Qty. 1	
	Mc Pherson Forceps, Angled - Qty. 1	
	Mc Pherson Corneal Forceps, 1x2 Teeth - Qty. 1	
	Superior Rectus Forceps - Qty. 1	
	Wills Hospital Utility Forceps - Qty. 1	
	Castroviejo Corneal Scissors, Universal - Qty. 1	
	Vannas Capsulotomy Scissors,Angled - Qty. 1	
	Westcott Stitch Scissors - Qty. 1	
	Barraquer Needle Holder,Micro JawsW/O Lock - Qty. 1	
	Hartman Mosquito Forceps, Straight - Qty. 1	
	Hartman Mosquito Forceps, Curved - Qty. 1	
	Rycrift Air Injection Cannula - Qty. 1	
	Simcoe I/A Cannula, Direct - Qty. 1	
	Bard-Parker Handle - Qty. 1	
	Agarwal Phaco Chopper - Qty. 1	
	Sinskey II Lens Manipulating Hook - Qty. 1	
	Lewis Lens loop, Small - Qty. 1	
	Smith Lens Expressor - Qty. 1	
	Sterilization Box Stainless - Qty. 1	
	Standards and Safety Requirements	
2.:	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
3.:	Comprehensive warranty for 2 years.	
_		

87 LID Set With Sterilizer box

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
1	Technical Specification:	
	Lancaster Eye Speculum - Qty. 1	
	Desmarres Lid Retractor, Size 0 - Qty. 1	
	Jaeger Lid Plate - Qty. 1	
	Fixation Hook, 2.0x1.5mm,Small - Qty. 1	
	Graefe Muscle Hook,Size 3 - Qty. 1	
	Meyerhoefer Chalazion Curette, Size 2 - Qty. 1	
	St.Martin Suturing Forceps,1x2 Teeth - Qty. 1	
	Fixation Forceps,1x2 Teeth - Qty. 1	
	Beer Cilia Forceps - Qty. 1	
	Berke Ptosis Forceps, 20mm - Qty. 1	
	Snellen Entropium Forceps, Left, Small - Qty. 1	
	Snellen Entropium Forceps,Right,Small - Qty. 1	
	Ayer Chalazion Forceps - Qty. 1	
	Lambert Chalazion Forceps - Qty. 1	
	Mc Pherson Tying Forceps,Long Handle - Qty. 1	
	Hartman Mosquito Forceps, Straight - Qty. 1	
	Hartman Mosquito Forceps,Curved - Qty. 1	
	Westcott Stitch Scissors - Qty. 1	
	Eye Scissors,Curved,4 1/2" Length - Qty. 1	
	Stevens Tenotomy Scissors, Curved - Qty. 1	
	Kalt Needle Holder - Qty. 1	
	Barraquer N.Holder, Short Model, M.Jaws W/O Lock - Qty. 1	
	Bard Parker Handle #3 - Qty. 1	
	Castroviejo Caliper, Straight - Qty. 1	
	Fixation Forceps,2x3 Teeth,Angular - Qty. 1	
	Corneal Scissors Stainless - Qty. 1	
2	Standards and Safety Requirements	
2.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
2.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
3	Warranty	
3.1	Comprehensive warranty for 2 years.	

88 Vitrectomy Surgical Set (Retina Surgical Set)

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
II	Country of Origin:	
1	Technical Specification:	
	Paufique universal suturing forceps with tying platform - Qty. 1	
	Westcott Scissors blunt-blunt,12 cm - Qty. 1	
	Thornton fixation ring swivelable,12 teeth inside daimeter16 mm - Qty. 1	
	Vannas capsulotomy scissors extremely delicate curved 8 cm - Qty. 1	
	Vannas capsulotomy scissors extremely delicate straight 8 cm - Qty. 1	
	Vannas capsulotomy scissors extremely delicate angled on flat 8 cm - Qty. 1	
	Kelman mcpherson fragment forceps angled 7.5 mm - Qty. 1	
	Dardenne tying forceps angled 6 mm - Qty. 1	
	Tuebingen model tying forceps straight - Qty. 1	
	Frankfurt model hydrodissection cannula 27 G/0.40 mm - Qty. 1	
	Sautter hydrodissection cannula 27 G/0.40mm - Qty. 1	
	Fuller iris retractor in sterilising case for mechanical dilation of the pupil nylon flex - Qty. 1	
	Snellen lens loop - Qty. 1	
	Kratz capsule polishing canula - Qty. 1	
	Dardenne iris hook push pull - Qty. 1	
	Backhaus towel forceps total length 90 mm - Qty. 1	
	Diffenbach serre fine straight toal 35 mm - Qty. 1	
	Dressing forceps % teeth 0.7mm - Qty. 1	
	Grehn glaucoma punch 20 G /0.90mm - Qty. 1	
	Luntz-dodickglaucoma punch with rotable cutting - Qty. 1	
	Harms trabecular probe radius 7mm right - Qty. 1	
	Harms trabecular probe radius 7mm left - Qty. 1	
	Capsulorhexis forceps extremely delicate - Qty. 1	
	Meloney keratometer - Qty. 1	
	Healon cannula 21 G/0.80mm /30mm - Qty. 1	
	Castrevejo cyclodialysis spatula cannula 19G/1.10mm length of spatula 10mm - Qty. 1	
	Franfurt model hydrodissection cannula 27 G/0.40mm - Qty. 1	
	Bonn model irrigation cannula delicate - Qty. 1	
	Silicon bulb 20 ml - Qtv. 1	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
3.1	Comprehensive warranty for 2 years.	

89 Flash Autodave

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
II	Country of Origin:	
1	Technical Specifications	
	Should be of Class B type.	
	Should be a microprocessor controlled table top autoclave for ophthalmic applications.	
	Should provide sterilization at 121°C and 134°C for both wrapped and unwrapped instruments and tools.	
	Should have flash cycle for rapid sterilization and should have an option for liquid cycle.	
	Should have pre & post vacuum cycle.	
	Should have rapid warm up facility.	
	The system should be equipped with required safety features. The door should have double locking safety feature and should open only with atmospheric pressure in the chamber.	
	Should have automatic safety cut-off to prevent overheating and cut-off for insufficient water.	
	Should have a chamber capacity of 20 liters/cycle or more.	
	All tubing's, fixtures, Fuses, reusable and accessories should be supplied along with the equipment.	
	Controls should be visible and clearly defined	l

Labels and markings should be clear and visible.	ı
2 Accessories, spares and consumables	ı
2.1 All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	1
3 Operating Environment	ı
3.1 The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	ı
3.2] The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	ı
4 Power supply:	ı
4.1 Input power supply: 220/240 V AC , 50Hz single phase schuko plug	ı
5 Standards and Safety Requirements	1
5.1 Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
5.2 CE or USFDA or TUV approved product certificate.	
6 Training	ı
6.1 Must provide user & service training.	ı
7 Warranty	ı
7.1 Comprehensive warranty for 2 years after acceptance.	ı
8 Maintenance Service During Warranty Period	ı
8.1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	ı
9 Documentation	ı
9.1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	ı
9.2 Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	ı
9.3 List of important spare parts, accessories and consumables with their part numbers and costing.	1

90 Heat Sealing Machine

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	1 Technical Specifications	
	The unit should have manual heat adjustments	
	System should be suitable for the sealing of surgical instruments in paper envelopes.	
	Should be microprocessor controlled.	
	Smooth easy cleaning surfaces.	
	Quick sealing time with sealing width of 12mm.	
	It should be a compact table top system.	
	Ergonomic handling with anti fatigue movement.	
	2 Accessories, spares and consumables	
	1 All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
	3 Operating Environment	
	1 The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
3.	2 The unit shall be capable of being stored continuously in ambient temperature of -20°C -50°C and relative humidity of 10-95%	
	4 Power supply:	
4.	1 Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Standards and Safety Requirements	
5.	1 Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
5.	2 CE or USFDA or TUV approved product certificate.	
	6 Training	
6.	1 Must provide user & service training.	
	7 Warranty	
7.	1 Comprehensive warranty for 2 years after acceptance.	
	8 Maintenance Service During Warranty Period	
	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	9 Documentation	
9.	1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
9.	2 Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
9.	List of important spare parts, accessories and consumables with their part numbers and costing.	

91 Ultrasonic Cleaner

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
	Provision of digital timer and digital display	
	Should be able to remove the dirt and debris from the crevices of instruments.	
	Should have a SS 304 grade sturdy, non corrosive tank and casing.	
	Should have a tank capacity of approximately 8 L.	
	Should be supplied with standard accessories including SS 304 grade mesh bucket & lid.	
	Should have 37-42 KHz transducer (Heating capacity 200 Watts)	
	Should have heating facility upto 70 degree.	
	Low noise Ultrasonic machines (noise level less than to 80 dB)	
	Should have Electronic controller cum indicator with time set feature for heating and sonication, LED display also showing remaining time of cleaning.	
	Should have Water drain facility	
	Accessories, spares and consumables	
	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
	Operating Environment	
3.1	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
	Power supply:	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Standards and Safety Requirements	
	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
	CE or USFDA or TUV approved product certificate.	
	Training	
	Must provide user & service training.	
	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
8.1	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
9.3	List of important spare parts, accessories and consumables with their part numbers and costing.	

92 Wheel Chair

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
- II	Country of Origin:	
1	Description of Function	
1.1	Wheel chair is used in hospitals for means of mobility by disabled persons/or persons who have impairments that limit their ability to walk.	
2	Operational Requirements	
2.1	It shall be a foldable BUT shall NOT a collapsible type. The mechanism of folding & unfolding must be easy. Large standard adult size hospital wheelchair fixed/foldable type. Easy maneuverable.	
	System Configuration	
3.1	Wheel chair invalid type.	
4	Technical Specifications	
4.1	Must be made of the highest quality materials such as Chrome polished finish or stainless steel.	
4.2	Dimensions: approx. W 68 cm × D 110 cm × H 94 cm.	
	Seat width: approx.450mm (18").	
	Wheels to have braking/locking mechanism and self-propelling SS hoops; two swivel castors (200mm dia. approx.) in front.	
	Tyre fitted with self-propelling hoops and brake arrangements.	
	Tyre sizes: Rear approx. 60cm (24") solid Mag tyres or Bicycle type spoked wheels, and Front approx. 200mm (8") Mag swivel casters.	
	Armrests: Padded, Fixed height and detachable.	
	Waterproof upholstery and easy to clean.	
	Padded back rest, seat and push handle.	
	Footrests: Fixed height and swing away foot plates and detachable, preferably made of Aluminium.	
	Maximum Patient weight capacity: approx. 110kg (250 lbs.).	
4.11	I.V. pod shall be provided at the right side of the back rest.	
	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.	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.	
	Standards and Safety Requirements	
	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND	
	CE or USFDA approved product certificate.	
	User Training	
	Not and inchin	

9 Warranty	
9.1 Comprehensive warranty for 2 years.	
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	
12.1 User's manual shall be supplied in English.	

93 Electronic Wheel Chair

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
III	Country of Origin:	
1	Description of Function	
1.1	Indoor Heavy-Duty Electric-Powered Wheelchair for transportation of patients who are unable to stand/walk.	
2	Technical Specifications	
2.1	State-of-the-art control panel	
2.2	Front-wheel drive for excellent maneuverability	
2.3	Larger foot platform	
2.4	Flip-up armrests	
2.5	Very compact dimensions for easy maneuverability	
2.6	Minimum Driving Range from 15 to 20 miles	
2.7	Swing-away foot and arm supports for easy stepping on/off.	
2.8	Armrests seat and back are upholstered.	
2.9	Materials:	
2.9.1	High resistance to corrosion.	
2.9.2	Frame: Chrome-plated tubular steel.	
2.9.3	Upholstery: Plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable.	
2.9.4	Tires: Heavy duty solid rubber.	
3	Accessories, spares and consumables	
3.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
4	Standards and Safety Requirements	1
4.1	USFDA or CE or TUV approved product	
4.2	ISO 13485 / ISO14971 certification for quality standards.	
5	Warranty and Maintenance	
5.1	2 years	

94 Commode Chair

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
-	Model No.:	
- 1	Country of Origin:	
1	Description of Function	
1.1	versatile toileting, shower and commode solution	
- 2	Technical Specifications	
	Easy to maneuver and easy to clean	
	Ergonomically shaped backrest with integrated hand grip for caregiver aid	
	Drop-arm design	
	Height adjustable, swinging and removable foot supports	
	Swiveling and locking castors for secure transfers	
	Soft and durable seat allows for comfortable seating and easy cleaning	
	Hygiene bucket with vacuum seal top	
	Heavy duty wheelchair	
	stainless steel , aluminum , chrome plate.	
	wheel break , solid wheel ,rear wheel ϕ 600-650 mm , front wheel ϕ 200- 250 mm.	
	patient weight : => 150 Kg , seat width : 450 - 600 mm , Depth : 400 - 450 mm	
	foam rubber , armrest , footrest	
	foldable backrest	
	Brake(for person who is push , for the person on the seat)	
	Accessories, spares and consumables	
	All standard accessories/consumables/parts required for the proper operation of the aboveitem shall be included in the offer.	
	Standards and Safety Requirements	
	Must be USFDA or CE or TUV approved product	
	Warranty and Maintenance	

95 Folding Walking Frame

No.	Item Specifications	Fill your Specification
- 1	Manufacturer Name:	
- II	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
1.1	Light weight.	
1.2	Painted aluminum tubular construction.	
1.3	Fold easily and quickly.	
1.4	Slipping locking pains in proper notch.	
1.5	Fitted with soft PVC hand grips and shoses.	
1.6	Maximum User Weight 125kg .	
1.7	Height Adjustment 75 - 90cm.	
2	Accessories, spares and consumables	
2.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
	Standards and Safety Requirements	
4.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
4.2	CE or USFDA or TUV approved product certificate.	
5	Warranty	
5.1	Comprehensive warranty for 2 years after acceptance.	
6	Documentation	
6.1	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	200 (200 (200 (200 (200 (200 (200 (200	

96 Muscle Stimulator

No	. Item Specifications	Fill your Specification
	Manufacturer Name:	
	II Model No.:	
	III Country of Origin:	
	1 Technical Specifications	
	It should be a microprocessor based , therapeutic, muscle stimulator unit for muscle stimulation	
	It should be light weight and compact in design.	
	It should have visual/audio indicator for different mode of treatment.	
	It should have a soft touch key to select treatment modes.	
	Machine should produce output only after intensity is set to Zero with audio alarm	
	It should enable user to select accurate pulses with pulse width for treatment in fraction of seconds.	
	It should have digital display of output current to accurately set output current	
	It should have surge protection safety feature circuit to protect the machine and patient if high surge is sensed in the input current.	
	It should have microprocessor controlled digital display of treatment time. The output should switch off automatically after treatment time is over.	
	It should have Plain Galvanic, Pulsed Galvanic, Plain Faradic and Surged Faradic for muscle stimulation.	
	Pulseduration.01,.03,.1,.3,13,10,30,100,300 mSec.	
	Faradic frequency- 50 Hz/.7 mSec	
	Surge duration 1-6 sec	
	Output current 0-40 mA	
	2 Operating Environment	
	.1 The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	.2 Power supply: 220-240V/ 50 Hz AC Single phase with appropriate plug .The power cable must be minimum 3 Meter	
_ 2	.3 Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.	
	3 Standards and Safety Requirements	
_ 3	.1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
1	.2 CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
<u> </u>	4 User Training	
4	.1 Must provide user training (including how to use and maintain the equipment).	
<u> </u>	5 Warranty	
	.1 Comprehensive warranty for 2 years after acceptance.	
1	6 Maintenance Service During Warranty Period	1

6.	1 During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	7 Installation and Commissioning	
7.	1 Supplier must accomplish proper installation and commissioning of the equipment on site.	
	8 Documentation	
8.	1 User (Operating) manual in English	
8.	2 Service (Technical / Maintenance) manual in English	
8	3 List of important space parts and accessories with their part numbers and costing	

97 Shortwave Therapy Machine

T		
No.	Manufacturer Name:	Fill your Specification
-	wanuracturer wane: Model No:	+
-	wooder wo.: Country of Origin:	
-	Country or origin: Description of Function	
-	Description or Function Short wave dishermy produces high frequency alternating current. The heat energy obtained from the wave is used for giving pain relief to the patient.	
Η.	Shot wave distincting produces high nequency alternating content. The heat energy obtained from the wave is used for giving paint rener to the patient. Operational Requirements	
-		
H	A device using electromagnetic energy in the shortwave frequency range (3-30 MHz) for therapeutic purposes, the unit included electrodes the shortwave generator and all associated electronics controls and enclosure.	
-	Technical Specification	
	Output of 400 to 500w in continuous mode and 800 to 1100 w in pulse mode pulse repetition frequency of 20 to 200 Hz adjustable in 10 steps LCD Screen display of parameter Treatment timer with all standard accessories condenser pad with cable	
-	Dis electrodes with arms and cables.	
-	Patient safety switch	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220-240V/ 50 Hz AC Single phase with appropriate plug. The power cable must be minimum 3 Meter	
	Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
7.:	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
8.3	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Installation and Commissioning	
9.:	Supplier must accomplish proper installation and commissioning of the equipment on site.	
10	Documentation	
10.:	User (Operating) manual in English	
10.2	Service (Technical / Maintenance) manual in English	
10.3	List of important spare parts and accessories with their part numbers and costing.	

98 Treadmill Device

No.	Item Specifications	Fill your Specification
- 1	Manufacturer Name:	
П	Model No.:	
III	Country of Origin:	
	Technical Specifications	
	Treadmill (T.M.T) Jogger with side handles	
1.2	Speed range approx. 0-12 km/h.	
1.3	Elevation approx. 0-12 %.	
	Walking area approx. 120x50cm.	
1.5	Ergonomically designed front and side handles.	
1.6	Emergency stop switch.	
1.7	Use weight capacity approx. 150 Kg.	
1.8	Soft start/stop feature.	
1.9	Digital display of speed and elevation.	
1.10	Display of stage number, stage time, distance covered, pace, calories/minute, METs.	
1.11	Must have a Powder Coated frame	
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	
2.1	(including items not specified above).	
3	Operating Environment	
3.1	Power supply: 220-240V/50 Hz AC Single phase.	
4	Standards and Safety Requirements	
4.1	ISO13485:2003/AC:2007 for Medical Devices	
4.2	CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	
5	Warranty	
5.1	Comprehensive warranty for 2 year.	
6	Documentation	
6.1	List of important spare parts and accessories with their part numbers and costing.	
10.2	Service (Technical / Maintenance) manual in English	
10.3	List of important spare parts and accessories with their part numbers and costing.	

99 Bicycle Ergometer

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- II	Model No.:	
III	Country of Origin:	
	Technical Specifications	
1.1	Tubular steel frame on balanced legs with four rubber heavy-duty tips.	
1.2	Should have comfortable saddle and foam fitted handle	
1.3	Should have adjustable design to fit all heights and weights.	
1.4	Should have Resistance system with manual control.	
1.5	Should have Adjustable seat pad, Adjustable seat back	
1.6	Must be fitted with a ball bearing resistance roller, which permits controlled movement in riding.	
1.7	Capacity approx. 150kgs.	
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).	
	Standards and Safety Requirements	
3.1	ISO13485:2003/AC:2007 for Medical Devices	
3.2	CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	
4	Warranty	
4.1	Comprehensive warranty for 2 year.	
5	Documentation	
5.1	List of important spare parts and accessories with their part numbers and costing.	

100 Shockwave Therapy Machine

No	Item Specifications	Fill your Specification
	Manufacturer Name:	
	II Model No.:	
	II Country of Origin:	
	1 Technical Specifications	
1	1 Compact Easily transported shockwave	
1	2 High pressure up to 5 bars	
1	3 High frequency up to 22 Hz	
1	4 Single mode & Continuous mode	
1	5 Intensity gradient mode	
1	6 Touch screen display	
1	7 Color therapeutic encyclopedia with anatomical images	
1	8 Comfortable applicator , with ergonomic grip and elimination of backward shocks	
	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).	
	UNIXADING LIERIS TIOS SPECIMEN AUTOMOTE. 3 Operating Environment	
-	3 Operating Environment 1 Power supply: 220-240V/ 50 Hz AC Single phase.	
_	a rower supply zeo-zeo-zeo-zeo it. Mc. single priose. 4 Standards and Safety Requirements 4 Standards and Safety Requirements	
4	1 ISO 9001 or ISO 13485:2003/AC:2007	
	2 EC (93/42 EEC Directives). Tuy or USFDA approved product certificate.	
	S Carrier to the control of the cont	
5	1 Comprehensive warranty for 2 years.	
	a compensation and the second and th	
	1 list of important spare parts and accessories with their part numbers and costing.	

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	1 Description of Function	
1.	1 Continuous Passive Motion (CPM) is a postoperative treatment method that is designed to aid recovery after joint surgery.	
	2 Operational Requirements	
	1 Must have anatomically correct movements.	
	3 System Configuration	
	1 Continuous Passive Motion Unit for Wrist Joint complete with accessories.	
	4 Technical Specifications	
	1 Flexion extension: 80deg-0deg-80deg.	
	2 Ulnar radial deviation: 25deg-0deg-30deg.	
	Should have laser detector to ensure the correct positioning of the joint.	
	4 Should have patient stop switch for patient safety.	
	Should have control panel on the machine itself and not on the remote control for safety reasons.	
	6 Unit height should be adjustable as per patient's requirement.	
	7 Unit should be supplied with accessory trolley.	
	8 The unit should be movable on castor wheels.	
	Accessories, spares and consumables	
5.	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	
5.	(including items not specified above).	
	6 Standards and Safety Requirements	
	1 ISO13485:2003/AC:2007 for Medical Devices	
	2 CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	
	7 Warranty	
	1 Comprehensive warranty for 2 year.	
	B Documentation	
8.	1 List of important spare parts and accessories with their part numbers and costing.	

102 Continuous Passive Motion Unit for Shoulder Joint

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
_	Model No.:	
II	Country of Origin:	
1	Description of Function	
1.1	Continuous Passive Motion (CPM) is a postoperative treatment method that is designed to aid recovery after joint surgery.	
- 2	Operational Requirements	
2.1	The device must have various controls like speed, duration of usage, amount of motion, rate of increase of motion	
	System Configuration	
3.1	Continuous Passive Motion Unit for Shoulder Joint with timer complete with accessories.	
4	Technical Specifications	
4.1	Upper extremity continuous passive mobilizer.	
4.2	Must have facility for memory chip card.	
4.3	The control must provide ease of operation and safety.	
4.4	Must have facility of warm up mode.	
4.5	Must have facility of reverse on overload.	
4.6	Must have conversion technique for left and right shoulder treatment.	
4.7	Must have a timer up to 5 hours.	
4.8	Adduction/abduction range: 40deg-130deg	
4.9	Intra extra-rotation range: 90deg-0deg-90deg	
4.10	Elevation range: 5deg-175deg.	
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).	
	Standards and Safety Requirements	
	ISO13485:2003/AC:2007 for Medical Devices	
	CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	
	Warranty	
	Comprehensive warranty for 2 year.	
	Documentation	
8.1	List of important spare parts and accessories with their part numbers and costing.	

103 Continuous Passive Motion Unit for Elbow Joint

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 11	Country of Origin:	
. :	Description of Function	
1.3	Continuous Passive Motion (CPM) is a postoperative treatment method that is designed to aid recovery after joint surgery.	
. :	Operational Requirements	
2.:	The device must have various controls like speed, duration of usage, amount of motion, rate of increase of motion, etc.	
	System Configuration	
3.:	A continuous passive mobilizer for elbow joint complete with accessories.	
	Technical Specifications	
4.:	Extension flexion: 0deg- 140deg	
4.2	Prono-Supination: 90deg-0deg-90deg	
4.3	Should have laser detector to ensure the correct positioning of the joint.	
4.4	Should have patient stop switch for patient safety.	
4.5	Should have control panel on the machine itself and not on the remote control for safety reasons.	
4.6	Unit height should be adjustable as per patient's requirement.	
4.	Unit should be supplied with accessory trolley.	
4.8	The unit should be movable on castor wheels.	
	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	
5	(including items not specified above).	
	Standards and Safety Requirements	
6.:	ISO13485:2003/AC:2007 for Medical Devices	
6.2	CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	
	Warranty	
7.:	Comprehensive warranty for 2 year.	
	Documentation	

B Documentation
 I List of important spare parts and accessories with their part numbers and costing.

Continuous Passive Motion Unit for Lower Limbs

о.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Description of Function	
1.1	Continuous passive motion (CPM) is a treatment method designed to aid in the recovery of joints after surgery.	
2	Operational Requirements	
2.1	CPM involves the use of a mechanical device, which automatically moves the joint with the goal of initiating early movement following surgery. The device itself supports the limb and slowly moves the joint without patient assistance.	
3	System Configuration	
3.1	Continuous Passive Motion (CPM) Therapy for Lower Limbs with complete accessories.	
	Technical Specifications	
4.1	The unit should have digital keyboard with LCD display.	
4.2	Knee and Hip mobilization in the same unit.	
4.3	Ankle Mobilization is must in the same unit.	
	Speed control during Flexion / Extension	
	Force control	
4.6	Work time control	
4.7	Automatic increase in Extension range	
4.8	Pause during flexion/ Extension	
4.9	Automatic increase in Flexion range	
4.10	Warm up Cycles	
4.11	The unit should have got functional panel on the unit only, but not on the patient stop switch or remote control for patient safety.	
	Knee movement breadth: 0deg – 110deg	
4.13	Ankle movement breadth: 20deg to (-)40deg	
4.14	Hip movement breadth (mid limb): 10deg - 70deg	
4.15	Easy to operate and transport.	
5	Accessories, spares and consumables	
5.1	All standard accessories, consumables and part 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 to specified above).	

	6	Standards and Safety Requirements	
	6.1	ISO13485-2003/AC-2007 for Medical Devices (E)9/A2 EEC Discribeting. TU or USEPA approved product certificate.	
	7	Warranty	
		Comprehensive warranty for 2 year. Documentation	
		DOCUMENTATION LOCAL TRANSPORT AND A CONTROL OF THE PART NUMBERS AND COSTING. LIST Of Important Spare parts and accessories with their part numbers and costing.	
105	. 1	Parallel Bar	
103	l.	ratales Dat	
	No.	Manufacturer Name: Item Specifications	Fill your Specification
		wanuscurer vame: Model No:	
		Country of Origin:	
		Description of Function medical devices specifically used in physical and occupational rehabilitation therapy to assist individuals to re-learn to walk and for gait training, as well as to regain balance, strength, range of motion, and mobility.	
	2	Technical Specifications	
		Unit with adjustable height Adult Bar and adjustable height Child's Bar. Secure Lock System. Secure Lock System.	
	2.3	Adult bar adjusts from approx. 29" to 42"H and child's bar adjusts from approx. 19" to 32" high.	
	2.4	Each upright telescopes up/down in 1½" increments and locks into position with fial-safe ball- tip locking pin. Adult bars adjust in width from approx 11" to 25" and tolkil bars from approx. 8" to 23" with repronentic control knobs.	
	2.6	16 ft long Satin-finish hardwood platform with tapered ends for easy wheelchair access.	
	2.7	Steel unrights. Anti-slip treads on each end.	
		Accessories, spares and consumables	
	3.1	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).	
	4	Standards and Safety Requirements	
	4.1	Must submit ISO 9001 or ISO13485:2003/AC:2007 CE, TUV or USFDA approved product certificate.	
		Warranty	
		Comprehensive warranty for 2 years. Documentation	
		List of important spare parts and accessories with their part numbers and costing.	
106	٠ .	Shoulder Exercise Wheel	
			ell e
	No.	Manufacturer Name: Item Specifications	Fill your Specification
	Ш	Model No.:	
		Country of Origin: Description of Function	
	1.1	A tool for improving shoulder function and range of motion.	
		Technical Specifications Titted with calibrated sensitive resistance mechanism, the resistance is controllable from zero to maximum. A 360 deg.	
	2.2	Fitted with resistance mechanism at 360°.	
	2.3 3	Wall Mounted_set must include mounting hardware WARRANTY AND MAINTENANCE	
		Comprehensive warranty for 2 years.	
107	٠ ا	Exercise Staircase	
	No.	Manufacturer Name: Item Specifications	Fill your Specification
		Model No.:	
		Country of Origin: Description of Prinction	
	1.1	Staircase used for exercising in physiotherapy.	
		Operational Requirements Staircae as specified with approx. capacity 200 Kg.	
	3	System Configuration	
	3.1	Sturdy built Exerciser Stair Case. Technical Specifications	
	4.1	Sturdy built.	
		First step moves into the second to make it a bus step of 30 cm height. Steps shall be 75 cm wide and 25 cm wide and 10 cm deep or better.	
	4.4	Shall have handrails at different heights to accommodate adults and children.	
		Steps and jaintform covered with antiskid material. Accessories, spear 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	
	6	(including Items not specified above). Standards and Sathy Requirements	
		ISO 9001 or ISO13485:2003/AC:2007	
		EE (93/42 EEC Directives), TUV or USFDA approved product certificate. Warranty Warranty	
	7.1	Comprehensive warranty for 2 years.	
108		Hand Exerciser Table	
	No.	Item Specifications	Fill your Specification
		Manufacturer Name:	riii your specification
		Model No: Country of Origin:	
	1	Description of Function	
		A device specifically designed to exercise the intrinsic hand, wrist and forearm muscles, with or without resistance. Operational Requirements	
	2.1	Height-adjustable axial resistance unit allows forearm pronation, supination and wrist circumduction.	
		System Configuration Hand Exerciser Table.	
	4	Technical Specifications	
		Table with laminated top. Fitted with 6 pulleys in a steel frame.	
	4.3	Loops and nylon cord passing through the table with hanging weights underneath.	
		To be supplied with five sets of Graduated weight set for progression from lighter to heavier weights. Accessories, spares and consumables Cassories, spares and consumables	
		Graduated weight set for progression from lighter to heavier weights.	
	5.2	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).	
	- 6	Standards and Safety Requirements	
		ISO 9001 or ISO13485:2003/AC:2007 CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	
	7	Warranty	
	8	Comprehensive warranty for 2 years. Documentation	
		List of important spare parts and accessories with their part numbers and costing.	
109		Dumbbell Set with Cart	
	No.		Fill your Specification
	_	Manufacturer Name: 1tem Specifications	Fill your Specification
	Ш	Model No.: Country of Origin:	
	1	Description of Function	
		Strendthen weak muscle through load resisting exercises of both upper and lower limbs Tachorical Smedification	
	2.1	Technick Specifications Solid steel dumbled with chrome plated finish and powder coated cart.	
	2.2	2 dumbbell set of each: 1kg ,1.5kg, 2 kg, 2.5 kg, 3 kg, 3.5 kg, 4 kg, 4.5 kg. 5 kg. Cart must moves on heavy duty wheels	
	3	WARRANTY AND MAINTENANCE	
	3.1	2 years	
110	.	Pediatric Walking Frame	
1	No.	Item Specifications	Fill your Specification
	- 1	Manufacturer Name:	,
	- 11	Model No.:	
		Country of Origin:	

1.1 Helps maintain balance and stability when standing and walking	
2 Technical Specifications	
2.1 Folds up for convenient, compact storage and transport	
2.2 Easy push-button mechanisms may be operated by fingers, palms or side of hand	
2.3 Each side operates independently to allow easy movement through narrow spaces and greater stability while standing	ı
2.4 U-shape frame design	ı
2.5 Comfortable molded hand grips for a secure hold	ı
2.6 Slip-resistant rear tips for secure support	ı
2.7 Lightweight alloy construction to ensures maximum strength while remaining lightweight	l
3 Accessories, spares and consumables	ı
3.1 All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	ı
4 STANDARDS AND SAFETY	ı
4.1 Must be USFDA or CE or TUV approved product	ı
5 WARRANTY AND MAINTENANCE	ı
5.1 Comprehensive warranty for 2 years.	į.

111 Activity Mattress

No.	Item Specifications	Fill your Specification
		riii your Specification
	Manufacturer Name:	
	Model No.:	
- 11	Country of Origin:	
	Description of Function	
1.3	All purpose lightweight mat of high density foam, protects body during exercises.	
	Technical Specifications	
2.:	Smooth texture and easy to clean	
2.2	Anti-slippery	
3	WARRANTY AND MAINTENANCE	
3.:	Comprehensive warranty for 2 years.	

112 Spider Suspension System

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 11	Country of Origin:	
. :	Description of Function	
1.:	The Universal Exercise Unit (UEU), also known as the spider cage, is a suspension system using belts, bungee cords, and a pulley system to allow patients with neuromuscular disorders to move more freely and independently	
-	Technical Specifications	
4.:	The device must work for a variety of individuals of varying weight, age, and height	
4.2	The device should be transportable.	
4.3	The device must include some elastic suspension bands of varying length and resistance.	
4.4	The spider cage should provide enough room to allow for the individual to translocate around the cage in each direction. It should provide attachment locations for the necessary elastic straps, and allow these straps to attached or detached to the individual using the cage.	
4.5	The spider cage should be strong and stable enough to allow for rapid movement and loads that will exceed the normal weight of the individual.	
	Accessories, spares and consumables	
5.:	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	
6.:	ISO13485:2003/AC:2007 for Medical Devices	
6.2	CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	
	Warranty	
7.:	Comprehensive warranty for 2 years.	
_ :	Documentation	
0 -	List of important coars parts and accordains with their part numbers and corting	

113 Pediatric Tilting Table

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
1	Description of Function	
1.1	A primary use of the rīlit Table is to transitionally bring a patient into a progressively upright standing position. They are used with bedridden, wheelchair bound patients or with people who are unable to support their own weight due to neurological impairment or injury.	
2	Operational Requirements	
2.1	Heavy duty electrical tilt Table.	
3	System Configuration	
3.1	Tilt Table (Electrical), complete unit with accessories.	
4	Technical Specifications	
4.1	Tilt table with electrical height adjustment control and electric tilt control.	
4.2	Foam padded top.	
4.3	Silent and smooth lifting action.	
	Full 90 degree tilt, with height adjustment to lower to wheelchair height.	
4.5	Height adjustment range approx. 45-85 cm.	
4.6	Electric tilt full 90° plus negative facility must have adjustable angle worktable.	
4.7	Must have angle indicator and large castors with brakes.	
4.8	Must have three positioning straps,	
4.9	Removable stainless steel footboard for vertical positioning support.	
4.10	Fitted with a quick release mechanism (QRM)	
4.11	Hand grips	
4.12	Thoracic, pelvic and knee straps	
5	Accessories, spares and consumables	
5.1	Should be supplied with Standard Accessories. (Hand Grip, work table, fixation belts-Thoracic, Pelvic, Knee)	
	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	Power supply: 220-240V/50 Hz AC Single phase.	
7	Standards and Safety Requirements	
7.1	ISO 9001 or ISO13485:2003/AC:2007	
	CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	
	Warranty	
8.1	Comprehensive warranty for 2 years.	
9	Documentation	
9.1	List of important spare parts and accessories with their part numbers and costing.	

2-1-to-s variagement ages, per data.

Patient Lift

114		FOLIER LIIT	1
	No.	ltem Specifications	Fill your Specification
	_	Manufacturer Name:	
	П	Model No.:	
	Ξ	Country of Origin:	
	1	Technical Specifications	
	1.1	The lift shall offer a dignified and secure way for disabled patients to be lifted, transferred, seated and transported into and from the bed.	
	1.2	Height-adjustable	
	1.3	Foot operated lifting system for raising and lowering to assure hands free operation for caregiver	
	1.4	Patients shall have the possibility to be lifted from the floor or beds	
	1.5	Compact base design to allow access under low bed frames	
	1.6	The lift is belt driven, runs gently, quietly and operates free from sudden movements	
	1.7	Foot activated emergency stop	
	1.8	Equipped with two brake castors and two straight steering castors for safe and easy patient transport	
		Automated fall stop in case of components malfunction	
		High capacity rechargeable batteries (min. 10 Ah) to be charged via main supply	
		Magnetic battery charger connection for safety and ease of use	
		Seating surfaces shall be made of a soft, durable material that is non water absorbent, easy to clean and disinfect and comfortable to sit and lay on	
		Stainless steel lifting column	
	1.14	Anti-corrosion treatment on all metal parts	
	2	Accessories, spares and consumables	
		All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
		Standards and Safety Requirements	
	3.1	USFDA or CE or TUV approved product	
		ENERGY SOURCE	
L		Power supply: 220 – 240 VAC, 50Hz. single phase.	
		WARRANTY AND MAINTENANCE	
		Comprehensive warranty for 2 years.	
	5.2	The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period	1

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Description of Function	
1.1	Used for initial upright standing of children in the sitting position.	1
2	Operational Requirements	
2.1	It must be able to carry a user weighing approx. 100 Kg.	1
3	Technical Specifications	
3.1	Shall be made of best quality wood and fitted with laminated top tray.	
3.2	Adjustable tilt angle (from 0° to 90°)	
3.3	Shall have 3 straps provided for heel, knee and pelvic support.	
3.4	Hinged knee support	
4	Accessories, spares and consumables	
4.1	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	
4.1	(including items not specified above).	1
5	Standards and Safety Requirements	1
5.1	ISO 9001 or ISO13485:2003/AC:2007	i
5.2	CE (93/42 EEC Directives), TUV or USFDA approved product certificate.	i
6	Warranty	1
6.1	Comprehensive warranty for 2 years.	

116 Fill your Specification

	_	
117		Rigid Bronchoscope

No.	Item Specifications	Fill your Specification
<u> </u>	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	1. The tracheal and bronchoscope tubes should be made of high quality stainless steel.	
	2. The assembly should include a HD (High Definition) / High quality (3 chip CCD video) camera head fully compatible with the viewing telescope.	
	3. The video processor provided should be compatible with the camera head and provide a high resolution output to medical grade flat screen high definition/resolution 20 inch or greater sized video monitor.	
	4. There tracheoscope and bronchoscope tubes should be without a distal fiber optic light carrier.	
	5. The tracheobronchoscope tubes should be of use with proximally insertable telescopes.	
	6. The bronchoscopes should be durable and should be able to be cleaned with commonly used sterilizing solutions without affecting the surface of the scope.	
	7. All the accessories should be compatible with the sheath	
	8. The complete system should be covered under warranty as per the AlIMS Jodhpur rules .	
	9. A dedicated imported trolley for carrying the entire system and recording equipment should be provided	
	10. The equipment should be USFDA or European CE approved	
	11. A recording system to be provided which should have facility for recoding and storage of media in both image and video format and allow transfer on removable storage (either CD or USB flash drive)	
	12. All metallic instruments and accessories should be autoclavable	
	13. Operating voltage - Power 220 V 50 Hz AC.	
	14. The system should include all the other possible accessories, UPS, power cables, fiber optic cables connectors etc to make the unit fully functional.	
	15. The system should be provided with a laptop PC (Windows 7 OS, 750 GB Hard disc drive, 8 GB RAM, Core i-7 processor)	
	16. Price of all the accessories as mentioned should be included within the quoted price	
┗_	17. Rate list of all possible spares, accessories and consumables should be provided as part of the financial bid by the company.	
	Technical Specification of Equipment:	
	1. Zero degree straight forward viewing telescope with integrated fiberoptic light transmission, diameter 4.5 mm ,working length of 50 cm length- 1 No.	
	2. Zero degree straight forward viewing telescope with integrated fiberoptic light transmission, diameter 2.8 mm, working length of 44 cm - 1 No.	
	3. Tracheoscope tube size 6.5 mm, length at least 30 cm-1 No.	
	4. Tracheoscope tube size 12 mm, length at least 30 cm -1 No.	
	5. Tracheoscope tube size 14 mm, length at least 30 cm for application of stents -1 No.	
	6. Bronchoscope tube size 6.5 mm, length at least 40 cm - 1 No.	
	7. Bronchoscope tube size 11 mm for application of stents, length at least 40 cm- 1 No.	
	8. Bronchoscope tube size 12 mm, length at least 40 cm-1 No.	
	9. Bronchoscope tube size 14 mm, length at least 40 cm for application of stents – 1 No.	
	10. Optical forceps, alligator -1 No.	
	11. Optical forceps, cupped jaws for biopsy-2 Nos.	
	12. Optical forceps, universal-1 No.	
	13. Optical forceps for removal of coins and flat foreign body-1 No.	
	14. Manual forceps alligator, diameter 2.5 mm at least 50 cm length-2 Nos.	
	Manual forceps round cupped jaws for biopsy, diameter 2.5 mm at least 50 cm length-1 No.	
	16. Manual forceps universal, diameter 2.5 mm at least 50 cm length-1 No.	
	17. Manual forceps for peanuts and soft foreign bodies at least 50 cm length-1 No.	
	18. Foreign body basket with handle > 50 cm length-1 No.	
	19. Sponge holder forceps-1 No.	
	20. Cotton applicator forceps -1 No.	
	21. Insulated coagulation tube with connector for unipolar coagulation 1 No.	
	22. TONN Stent applicator system for deployment of silicon stents of diameter 14-20 mm and 11-13 mm consisting of Folding System, Clamping Rod, Loading Rod, Introducer Tube length 42 cm, with 2-ring handle and Pusher-1 Set (Red 1 and Green	
	1)	
	23. Dedicated forceps for opening and deployment of silicon stents- 1 No.	
	24. One set of boogles.	
	25. Silicone stent (3 each): Tracheal stent with wall thickness 1.5 mm, Thin tracheal stent with wall thickness 1.0 mm, Bronchial stent with wall thickness	
	1.0 mm, Carina stent with wall thickness 1.0 mm, Total carina stent with wall thickness 1.0/1.3 mm	
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	42. High resolution 3 chip video camera CCU and head - 1 No. [3x1/2" CCD image sensor chip, Resolution : 750 lines - 800 lines horizontal. Picture element = 752 (h) x 582(v) pixels per chip, Min. sensitivity : 3 lux (f=1.4), AGC: + 18 db, signal tonoise	
	ration > 60 db., Camera should have integrated parfocal zoom lens, F=25-50mm, It should have DV output and image processing module and it should have image freeze function, Programmable control buttons on camera head for controlling, Gain ,	
	white balance shutter speed, video printer and recorder, Keyboard input . for data entry through built in character, Generator, Camera should be compatible with FBAS, S-VHS and RGB, Manual or automatic exposure control (1/50 sec. —1/10000),	
	Should have automatic white balance with storage functions, For two white balance values, Unit should be certified to IEC 601-1, CE according to MDD.]	
-	42 LTD (475 200 W) Each course with each connection with the wait 4 No.	
\vdash	43. LED (175-300 W) light source with cable compatible with the unit -1 No.	
\vdash	High resolution medical grade flat screen 20 inch monitor for the system -1 No.	
<u> </u>	Operating Environment The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
<u> </u>	ine unit shall be capable of being stored continuously in ambient temperature of 1.5 U-3.5 L. and retainve numberly of 10-95% The unit shall be capable of being stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 5°C -40°C and retainve middle of 1.0 High stored continuously in ambient temperature of 1.0 High stored continuously in 1.0 High stored continuously in 1.0 High stored continuously in 1.0 High stored continuously in 1.0 High stored continuously in 1.0 High stored continuously in 1.0 High stored continuously in 1.0 High stored continuously in 1.0 High stored continuously in 1.0 High stored continuously in 1.0 High stored continu	

Power supply:	
Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
Standards & Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
Training	
Must provide user & service training.	
Warranty	
Comprehensive warranty for 2 years.	
Maintenance Service During Warranty Period	
Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
Documentation	
User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
List of important spare parts, accessories and consumables with their part numbers and costing.	

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The control of the co	Į		Allis Classic Tissue Forceps 5" QTY:2	
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Settle Protested Color (1994), 1 (etc.) (1994) (199	Ę		Farabeuf Periosteal elevator, Straight, 160 mm, 6 ^{1/4,o} QTY:1	
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In the American Colonia Coloni	Į		Adson periosteal elevator Curved, 7 mm QTY:1	
Manufacture and Manufacture Control of Time 1972 Manufacture Control of T	ŀ		Cottle Periosteum Elevator, 195 mm, 71 ¹⁰ , 8 mm, QTY:1	
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Methodologic March Foung 1,1 Years (1987) and 1987 (1987) and	ļ		MICRO-ADSON, Micro Forceps 1 x 2 teeth, 120 mm, 4 3/4" QTY:1	
Medical Based Report Discource From Congress and Congress of Congr	ŀ		MICRO-ADSON, Micro Forceps 1 x 2 teeth, 150 mm, 8" QTY:1	
Adde begand shared from the tops with five annual death. (Film IT). (1972). Claim It generally and protein pr	F		Adson Bayonet Shaped Dissection Forceps, serrated, 1x2 teeth 191 mm (7 1/2") QTY:1	-
Goring function favorage income, diseased and attention (VVV) searches used (VVV) Search Date Controlled Foreign of VVV (VVV) and the search provided (VVV) Search Date Controlled Foreign of VVV (VVV) Search Date Controlled Foreign of VVV (VVV) Search Date Controlled Foreign of VVV (VVV) Search Date Controlled Foreign of VVV (VVV) Search Date Controlled Foreign of VVV (VVV) Search Date Controlled Foreign of VVV (VVV) Search Date Controlled Foreign of VVV (VVV) Search Date Controlled Foreign of VVV) Search Date C	ŀ		Adson bayonet shaped dressing forceps with fine serrated ends, 178mm (7"). QTV:2	
Include Developing 197 and instruction that found the control of t	F	-	Cushing bayonet dressing forceps, dissecting end, 184mm (7 1/4") stainless steel. QTY:2	
Gooden Enderson (2014) Gooden Enderson (2014)	Į		Hudson brace non-glare 10" stainless steel Snap chuck system QTY:1	
Confide Professor Same. CPT.3. Confide Professor Same. CPT.3.	ŀ			
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Coulding Burns, committed Resident South Resident S			Cushing Perforator 18mm QTY:1	
Conche Burn coront Revegier book 13mm (171) Conche Burn coront Revegier book 13mm (171) Conche Burn coront Revegier book 13mm (171) Conche Burn coront Revegier book 13mm (171) Reversion Revegier book 13mm (171) Reversion Rever	t			
Golde Burn, comcel Monger from 17 min. (1971) Motion Burn, comcel Monger from 17 min. (1971) Motion Burn, comcel Monger from 17 min. (1971) Motion Down Burn from microsited of 17 min. (1971) Motion Down Burn from microsited (1971) Motion Down Burn from microsited (1971) Motion Down Burn from microsited (1971) Motion Down Burn from microsited (1971) Motion Down Burn from 17 min. (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Down Burn from 17 microsited (1971) Motion Burn from 17 microsite	-			
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Metacine Perforation 1900 of 17:1 Includes December 1907 of 1900 of 17:1 Del 191 Compensation with the Induced formed 2 cmm (17:1) Soul Traphtees with day a good, graduated scied and reduced extended extended of the Induced formed 2 cmm (17:1) Soul Traphtees with day a good, graduated scied and reduced extended extended of the Induced formed 2 cmm (17:1) Soul Traphtees with day a good, graduated scied and reduced extended extended (19:1) 3/4" (Effermin) District 17:1) Soul Traphtees with day a good, graduated scied and reduced extended extended (19:1) 3/4" (Effermin) District 17:1) Soul Traphtees with day a good, graduated scied and reduced extended (19:1) 3/4" (Effermin) District 17:1) Soul Traphtees with day a good graduated (19:1) 3/4" (Effermin) District 17:1) Soul Soul Produced of Produced (19:1) 3/4" (Effermin) District 17:1) Solid Soul Resolution (19:1) 3/4" (Effermin) District 17:1) Solid Soul Resolution (19:1) 3/4" (Effermin) District 17:1) Assoult belongable for the Note, the Induced (19:1) 3/4" (Effermin) District 17:1) Assoult belongable for the Note, the Induced (19:1) 3/4" (Effermin) District 17:1) Assoult belongable for the Note, the Induced (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note, the Induced (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note, the Induced (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note, the Induced (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note, the Induced (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note (19:1) 3/4" (Effermin) DISTRICT 17:1) Assoult belongable for the Note (19:1) 3/4" (Effermin) D	-		Cushing Burrs, conical. Non-glare finish 17mm QTV:1	
Inchange Deven But 22mm (Splenci, CTY1) Devil to Economic with the Natural Section James (1971) Self Treplines with date parting growth and control of the Section of Section (1971) Self Treplines with date parting growthed scale and restratable centering diff. high speed deed balds. Length 13/4" (Sprinn) Clarameter 2.5" (Sprinn) CTY1) Self Treplines with date parting growth date and restratable centering diff. high speed deed balds. Length 13/4" (Sprinn) CTY1) Self Treplines with date parting growth date parting growth parting self-balds. Length 13/4" (Sprinn) CTY1) Self Treplines, with date parting growth date parting growth parting growth date parting growth parting growth date parting growth date parting growth parting growth date parting growth			McKenzie Perforator 13mm QTY:1	
Drill bit Compatible with the Induce Renel 2 mm OT 12 Soul Tryptines with drap gaint agriculated used and retreatable centering dell, high speed seed blade. Length: 13/6" (Selema) Daumeters. 175 (Seriam) (1771) Soul Treptines with drap gaint, graduated scale and retreatable centering dell, high speed seed blade. Length: 13/6" (Selema) Daumeters. 157 (Seriam) (1771) Soul Treptines with drap gaint, graduated scale and retreatable centering dell, high speed seed blade. Length: 13/6" (Selema) Daumeters. 257 (Salema) (1771) Ging is away date and protectory, catalons and the state (Long selema) (Long Se	-		Hudson Downs Bur15n mt (conical) CIY-1 Hudson Downs Bur12n mt (conical) CIY-1 Hudson Downs Bur12n mt (sheric) CIY-1	
Salf Treptines with dar a gaint graduated scale and retractable contenting off (ii), high speed steel blade Length 3 3/f ("Bomn) Diameter: 23" (Strim). (DY1) Salf Treptines with dar a gaint graduated scale and retractable contenting off (ii), high speed steel blade Length 3 3/f ("Bomn) Diameter: 25" (Strim). (DY1) Salf Treptines with darp and practice, delinent scale. (Application of the salf scale) Salf Salf Enros ("String Salf Salf Salf Salf Salf Salf Salf Salf	Į		Drill bit (compatible with the Hudson Brace) 2 mm QTY:1	
Grig is var guide and protector, standers steel, Nove giver from OTY 4 Grig is var guide and protector, standers steels, Nove giver from OTY 40 Addron Rectangular durin Nove, sharp, fine 15 mm, OT 12 no. OTY 2 RADITS by the Dark look, sharp, fine 15 mm, OT 12 no. OTY 2 RADITS by the Dark look, sharp, fine 15 mm, OT 12 no. OTY 2 RADITS by the Dark look, sharp, fine 15 mm, OT 12 no. OTY 2 RADITS by the Dark look, sharp, fine 15 mm, OT 12 no. OTY 2 RADITS by the Dark look, sharp, sharp the Standers of	t		Skull Trephines with dura guard, graduated scale and retractable centering drill, high speed steel blade. Length: 3 3/4" (95mm) Diameter: 2 1/4"(51mm) QTY:1	
Gig Saw Family Earth Care Start Star	-		Skull Trephines with dura guard, graduated scale and retractable centering drill, high speed steel blade.Length: 3 3/4" (95mm) Diameter: 2.5" (51mm) QTV:1	
Adon Rectangular dural block, sharp, fine, § 39 mm. (7 1/2 m). GTV2 FRAMER type Dard Book, sharp, finesh, § 51 mm. (1 file of 1/2 file to 1/2 file to 1/2 file to 1/2 file of			Gigli Saw Handle stainless steel QTY:6	
## FADRER Type David Spoots, Marcus Levelts, 52/12/27/27/2007 [27 September 17:00] ## FADRER Type David September 1: Develt Assert Minuth Hook Death Life Title Tool In minuth 1: 1972 ## FADRER Type David September 1: Develt Extended Type 1: 1972 ## FADRER Type David September 1: Develt Extended Type 1: 1972 ## FADRER Type David September 1: Develt Extended Type 1: 1972 ## FADRER Type David September 1: Develt Extended Type 1: 1972 ## FADRER Type David September 1: 1972 ## FA	H		SINGLE PRECISSION CUT GIGLI SAW WIRE non-glare finish QTY:100 Addon Rectaneulur dural Hook, sharp, fine, 191 mm, 71/21 in.) DTY:2	
DARDY Types Rever blook, straight, blunt blook Depth 1/8* (Semi) GTV2 Total Length / 1/12/mm/ To Depth meter 1, mm. Total Length / 1/12/mm/ To Depth meter 1, mm. Total Length / 1/12/mm/ To Depth meter 1, mm. Total Length / 1/12/mm/ To Depth meter 1, mm. Total Length / 1/12/mm/ To Depth meter 1, mm. Total Length / 1/12/mm/ Total Length / 1/1			FRAZIER Type Dural Hook, sharp. Length: 5"(127mm). Tip Diameter:(2mm) QTY:2	
Total Length: 7/12/Rem/1 Tip Glameter (1-mm) GTY-2 Total Length: 8.5/8/ 12/Sem/1 Tip Glameter: 1.5mm GTY-2 Total Length: 8.5/8/ 12/Sem/1 Tip Glameter: 1.5/8/ 12/Sem/1 Tip Glameter: 1.5/8/Sem/1 Tip Glameter: 1.5/8/Sem/1 Tip Glameter: 1.5/8/Sem/1 Tip Glame	H			
Total length: 8.5 MP (215mm) Tip diameter: 1.5mm GTV2 May-0-teagret widel felder for Joint 1,53mm (61 For 10 to 2-0 sutures, Tungsten carbide jaws gold plated bows GTV2 MAYO'S HEGGAR Needle Holder, 8 Box Joint, 18]. For 10 to 2-0 sutures, Tungsten carbide jaws gold plated bows GTV2 Neurosurgery Needle Holder, 15 (155mm) For 3-0 to 5-0 sutures. Tungsten carbide jaws gold plated bows GTV2 Neurosurgery Needle Holder, 15 (205mm), 17 to 3-0 to 5-0 sutures. Tungsten carbide jaws gold plated bows GTV2 Neurosurgery Needle Holder, 15 (205mm), 17 to 3-0 to 5-0 sutures. Tungsten carbide jaws gold plated bows GTV2 Neurosurgery Needle Holder, 15 (205mm), 17 to 3-0 to 5-0 sutures. Tungsten carbide jaws gold plated bows GTV2 Neurosurgery Needle Holder, 15 (205mm), 17 to 3-0 to 5-0 sutures. Tungsten carbide jaws gold plated bows GTV2 Neurosurgery Needle Holder, 15 (205mm), 18 (Į		Total Length: 7"(178mm) Tip Diamete:(1mm) QTY:2	
MAYO'S HEGGAR Needle Holder, Box Joint, (BT). For 10 to 2-0 sturues, Turquisten carbide jaws god plated bows GTY-2 Neurosurgery Needle Holder, BC (120mm), For 3-0 to 5-0 sturues, Turquisten carbide jaws god plated bows GTY-2 Neurosurgery Needle Holder, BC (120mm), For 3-0 to 5-0 sturues, Turquisten carbide jaws god plated bows GTY-2 Neurosurgery Needle Holder, BC (120mm), For 3-0 to 5-0 sturues, Turquisten carbide jaws god plated bows GTY-2 Net TLANES SAMPS and Festioning retractor, Information (120mm), GTY-0 conglar in bins), GTY-1 Cone retractor, self-retaining Neurosurger (120mm), GTY-0 conglar in bins), GTY-1 Johns and Festioning Retractor, with both bibles, Jaks, Holder, GTY-1 Molfison self-retaining Netractor, covered 150 mm, Bins, Jay 100mm, Bins,	t			
Neurosurgery Needle Holder, 6" (152mm), For 3 bit 5 of surger, Tungsten carbide jaws gold plated bows GTY 2 Neurosurgery Needle Holder, 6" (200mm), For 3 bit 5 of surger, Tungsten carbide jaws gold plated bows GTY 2 WETLANES SHARP self retaining retractor, 155mm, 612" non-glare finish GTY 1 Larsen self-retaining Retractor, with blunt blades, 114mm, (147") GTY 2 Larsen self-retaining Retractor, with blunt blades, 114mm, (147") GTY 2 Larsen self-retaining Retractor, with blunt blades, 114mm, (147") GTY 2 Mollison self-retaining Retractor, curved 155mm, (6) TJV 11 Mollison self-retaining Retractor, curved 155mm, (6) 12/ in 1 small size 2 x 2 prongs, for children. GTY 1 AGSON cerebellar retractors, self retaining total Openine, 4 12" (114mm) GTY 2 AGS that process, straight blant blow Witch 159" (116mm) Blade blows 159" (210mm) GTY 2 AGS that process, straight blant blow Witch 159" (15mm) Blade blows 159" (210mm) GTY 2 AGS sharp prongs, angular shaft Blade Witch 159" (15mm) Blade blows 159" (210mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (114mm) GTY 2 AND ESS AND ASSON Scale practices, self retaining total Openine, 4 12" (ŀ			
WETLANES SHARP self-retaining retractor, 155mm, 61/2* non-glare finish OTY:1 Cone retractor, self-retaining Retractor, with Butth Islades, 114mm, (4 ½*) OTY:2 Annen self-retaining Retractor, with Butth Islades, 114mm, (4 ½*) OTY:2 Mollison self-retaining Retractor, with Butth Islades, 114mm, (4 ½*) OTY:2 Mollison self-retaining Retractor, with Butth Islades, 114mm, (4 ½*) OTY:1 Mollison self-retaining Retractor curved. 155mm, (6 11/2 in.) small size 2 x 2 groups, for children. OTY:1 ADSDN cerebollar retractors, self-retaining Total Opening: 41/2* (114mm) OTY:2 ASS sharp corpus, straight half balled Witch: 5/2* (115mm) Blade Detti. 5/2	ļ		Neurosurgery Needle Holder, 6" (152mm). For 3-0 to 5-0 sutures, Tungsten carbide jaws gold plated bows QTY:2	
Cone retractor, self-retaining with himped arms, 155mm (6 N°). GTV:1 James no efficiation (Retractor, curved, 155mm (6 N°). GTV:1 Mollison self-retaining retractor, curved, 155mm (6 N°). GTV:1 Mollison self-retaining retractor, curved (155mm (6 N°). GTV:1 ADSDN cervebellar retractors, self-retaining following self-yell-retaining (154 in) wide. 210 mm, (8 H in)	ŀ			
Mollison self-retaining retractor, curved 156 mm (6 ½°). QTV:3 Mollison self-retaining retractor curved 156 mm (6 ½°). In Juni 158 e2 x 2 prongs, for children. QTV:1 Carins "Rake" Scalp Retractor 4 prong, sharp, semi sharp, blunt 19 mm. (34 in.) wide. 210 mm. (8 1/4 in.) long. ADSON cerebellar retractors, self retaining Total Opening; 4 12° (114 mm) QTV:2 AXS harp prongs, straight shaft Blade Width: 5/8° (166 mm) Blade Depth: 7/8° (22 mm) Length: 7 12° (191 mm) QTV:2 AXS harp prongs, angular shaft Blade Width: 5/8° (166 mm) Blade Depth: 7/8° (22 mm) Length: 7 12° (191 mm) QTV:2 AXS harp prongs, angular shaft Blade Width: 5/8° (166 mm) Blade Depth: 7/8° (22 mm) Length: 7 12° (180 mm) QTV:2 AXS harp prongs, angular shaft Blade Width: 5/8° (166 mm) Blade Depth: 7/8° (128 mm) QTV:2 AXS harp prongs, angular shaft Blade Width: 3/8° (196 mm) Blade Depth: 7/8° (197 mm) QTV:2 AXS STALL (230 mm, 9°) hone Rongeur. Gave states and the sharp prongs, angular shaft Blade Width: 3/8° (196 mm) Blade Depth: 5/8° (156 mm) Length: 7 12° (193 mm) QTV:2 STILLE, 230 mm, 9°) hone Rongeur. Gave states, silestift sucured on flat. light model, 4 mm, bite, 197 mm (7 N°). QTV:1 LUEX Type Bone Rongeur. Blade Extro. Sulptift sucured on flat. light model, 4 mm, bite, 197 mm (7 N°). QTV:1 LUEX Type Bone Rongeur. State X (5 mm), Length: 7 (178 mm), Straight, QTV:1 LUEX Type Bone Rongeur. State X (5 mm), Length: 7 (178 mm), Curved. QTV:1 LUEX Type Bone Rongeur. State X (5 mm), Length: 7 (178 mm), Length: 6 18° (155 mm) Length: 7 3/8° (197 mm) QTV:1 STILLE, 230 mm, 9°) hone Rongeur. State X (5 mm), Length: 7 (178 mm), Curved. QTV:1 LUEX Type Bone Rongeur. State X (5 mm), Length: 7 (178 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6 18° (155 mm), Length: 6	ļ		Cone retractor, self-retaining with hinged arms, 165mm (6 ½"). QTY:1	
Mollison self-restationing Retractor curved 165 mm. (6 1/2 in 1 small size 2 x 2 prongs, for children. QTY:1 Carism "Sade" Scale Retractor of prongs, sharpy semi sharp, blutt 1 pm. (3/4 in) ubong. QTY:1 ADSON cerebellar retractors, self-retaining Total Opening: 4 1/2" (114mm) QTY:2 AMS sharp prongs, straight shaft Blade Width: 5/8" (16mm) Blade Debth: 7/8" (22mm) Length: 7 1/2" (191mm) QTY:2 AMS Sharp prongs, angular shaft Blade Width: 5/8" (16mm) Blade Debth: 7/8" (22mm) Length: 7 1/2" (191mm) QTY:2 AMS Sharp prongs, angular shaft Blade Width: 5/8" (16mm) Blade Debth: 7/8" (22mm) Length: 7 1/2" (191mm) QTY:2 AMS Sharp prongs, angular shaft Blade Width: 5/4" (19mm) Blade Debth: 7/8" (21mm) Length: 7 1/2" (191mm) QTY:2 MISSIMON Ecrobellar Retractor, angled arms, 7 x 7 sharp prongs, 7 total length: 7 1/2" (191mm) Length: 7 1/2" (191mm) QTY:2 MISSIMON Cerebellar Retractor, angled arms, 7 x 7 sharp prongs, Total length: 7 1/2" (191mm), Prong width: 1 1/4" (44mm) Prong depth: 1 1/4" (32mm), Total opening: 4" QTY:2 STILLE, 20 mm, 9", bone Rengeur. Guble action, slighth curved on flat, light model, 4mm, bits, 197mm (7 1/4") QTY:1 ULRE Type Bone Rouseur, Bits 1/4" (5mm) Length: 7 1/2" (191mm), Straight. QTY:1 ULRE Type Bone Rouseur, Bits 1/4" (5mm) Length: 7 1/4" (191mm), Straight. QTY:1 BEYER (LEMPERT) Type Ronnegur, Guble-action, curved of 16t; Alms). Light (191m), Length: 6 1/4" (191mm) QTY:1 BEYER (LEMPERT) Type Ronnegur, Guble-action, curved dist 4/4 (191mm), Straight. QTY:1 Echili (2 x 10mm), 9", bone Rongeur. QTY:1 Suction Repeared, adubted, 2 chole, suction, curved, bits 4/4/minn), Length: 6 1/4" (191mm) QTY:1 Echili (2 x 10mm), 9", bone Rongeur. QTY:1 Existant Type Reproduced action, curved, semi-sharped points, Length: 7 1/4/8 mm) QTY:2 Fixishinan Tear Prop shaped fields Micro section tips, different sizes, Set of eight. Non-plare finish. 1, mm to 5 mm, Length:	ŀ			
ASSON cerebellar retractors, self retaining Total Opening; 4 1/2" (114mm) QTY:2 AS Sharp prongs, Straight shaft Blade Width: 5%" (15mm) Blade Depth: 7/8" (12mm) Length: 7 1/2" (191mm) QTY:2 ASSON cerebellar retractors, self retaining Total Opening; 4 1/2" (114mm) QTY:2 AND ERSON ASSON Scalp retractors, self retaining Total Opening; 4 1/2" (114mm) QTY:2 AND ERSON ASSON Scalp retractors, self retaining total Opening; 4 1/2" (114mm) QTY:2 AND ERSON ASSON Scalp retractors, self retaining total Opening; 4 1/2" (114mm) QTY:2 AND ERSON ASSON Scalp retractors, self retaining total Opening; 4 1/2" (114mm) QTY:2 AND ERSON ASSON Scalp retractors, angled arms, 7 x 7 sharp prongs, angular shaft Blade Width: 3/4" (19mm) Blade Depth: 1/8" (15mm), Prong width: 1 %" (44mm) Prong depth: 1 %" (32mm), Total opening: 4" QTY:2 STILLE, 230 mm, 9", bone Rongeur, CUT:1 Lucr-lamen Rongeur, double action, Liquid action, slightly curved on flat, light model, 4mm, bite, 197mm (7 ½"). QTY:1 Sargent Rongeur, double action, curved on flat, 2/9mm (19"). QTY:1 LUER Type Bone Rougeur, Bite %"(6mm), Length 1/1/18mm), Liquid Liqui	F		Mollison self-retaining Retractor curved 165 mm. (6 1/2 in.) small size 2 x 2 prongs, for children. QTY:1	
AMS sharp promps, straight shaft Blade Width: 5/8" (16mm) Blade Depth: 7/8" (22mm) Length: 7.1/2" (193mm) GTV:2 AMS sharp promps, angular shaft Blade Width: 5/8" (16mm) Blade Depth: 7/8" (22mm) Length: 7" (178mm) GTV:2 AMD RESONADSON Salpr etactors, self retaining Total Depnier 4.1/2" (114mm) GTV:2 AMD RESONADSON Salpr etactors, angular area for 4.1/2" (114mm) GTV:2 AMS Sharp promps, angular shaft Blade Width: 3/4" (19mm) Blade Depth: 5/8" (16mm) Length: 7.1/2" (193mm) GTV:2 AMS Sharp promps, angular shaft Blade Width: 3/4" (19mm) Blade Depth: 5/8" (16mm) Length: 7.1/2" (193mm) GTV:2 MISSIMON Cerebellar Retractor, angled arma, 7 x 7 sharp promps, Total length: 7" (17" (193mm) GTV:2 STILLE, 230 mm, 9", bone Rongeur. GTV:1 Juse: Jansen Rongeur. double action. Justich underly and the sharp of th	ŀ		ADSON cerebellar retractors, self retaining Total Opening: 4 1/2" (114mm) QTY:2	
AND RESON ANSON Solar pertactors, self retaining Total Depnits #12" (118mm) QTY-2 AND RESON ANSON SON AS DIS A pertactors, self retaining Total Depnits #12" (118mm) QTY-2 AND RESON ASSON Solar pertactors, and et army at #12" (118mm) Blade Depth: \$18" (191mm) QTY-2 MISSIMD Cerebellar Retractor, anded army, at \$18" (158mm) Blade Depth: \$18" (191mm), Prong width: 1 %" (44mm) Prong depth: 1 %" (32mm), Total opening: 4" QTY-2 STILLE, 230 mm, 9", bone Rongeur, COTY-1 Just- James Rongeur, double action, Justivity curved on flat, light model, 4mm, bite, 197mm (7 %"), QTY-1 JUSE Type Bone Bougeur, Bite X'[6mm], Length of X-128mm, Light, DTY-1 JUSE Type Bone Rougeur, Bite X'[6mm], Length of X-128mm, Light, DTY-1 JUSE Type Bone Rougeur, Bite X'[6mm], Length of X-128mm, Light, DTY-1 JUSE Type Bone Rougeur, Bite X'[6mm], Length of X-128mm, Light, DTY-1 JUSE Type Bone Rougeur, Statisht, Curved, DTY-1 JUSE Type Rongeur, and Justivity and Solam, Lingth of X-128mm, Light, DTY-1 JUSE Type Rongeur, Statisht, Curved, Bite 1/16" (2mm), Length 6 (X'(171mm), QTY-1 JUSE Type Rongeur, and Justivity and Solam, Length 6 (X'(171mm), QTY-1 JUSE Type Rongeur, Statisht, Curved, Bite 1/16" (2mm), Length 6 (X'(171mm), QTY-1 JUSE Type Rongeur, and Justivity and Solam, Length 6 (X'(171mm), QTY-1 JUSE Type Rongeur, and Justivity and Solam, Length 6 (X'(171mm), QTY-1 JUSE Type Rongeur, And Justivity and Solam, Lingth (181mm), Lingth (F		4X4 sharp prongs, straight shaft Blade Width: 5/8" (16mm) Blade Depth: 7/8" (22mm) Length: 7 1/2" (191mm) QTY:2	
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MISKIMDN Cerebelar Retractor, angled arms, 7 x 7 sharp prongs. Total length: 7 %" (191mm), Prong width: 1 %" (32mm), Total opening: 4" QTY:2 STILLE, 23m m, 9", bone Rongeur. double action, slinkthy curved on flat, light model, 4mm, bite, 197mm (7 %"). QTY:1 Liuer. Jansen Rongeur, double action, slinkthy curved on flat, light model, 4mm, bite, 197mm (7 %"). QTY:1 Liuer. Jansen Rongeur, double action, curved on flat, 129mm (9"). CTY:1 Liuer. Yupe Bone Rougeur, Bite %" (5mm), Length 7" (128mm), Curved QTY:1 Liuer. Yupe Bone Rougeur, Bite %" (5mm), Length 7" (128mm), Curved QTY:1 Liuer. Jansen Rongeur, Statish, Curved QTY:1 BEYER (Lieur. RET) Type Rongeur, Statish, Curved Bite 3 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 7 if Statish, Length 6 if Statish, Length 7 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 7 if Statish, Length 7 if Statish, Length 6 if Statish, Length 6 if Statish, Length 6 if Statish, Length 7 if Statish, Length 7 if Statish, Length 7 if Statish, Length 7 if Statish, Length 7 if Statish, Length 7 if Statish, Length, Length 6 if Statish, Length, Length 6 if Statish, Length 7 if Statish, Length 7 if Statish, Length 7 if Statish, Length 7 if Statish, Length, Length 7 if Statish, Length, Length 7 if Statish, Length, Length, Length 7 if Statish, Length, Length, Length 7 if Statish, Length, Leng	}			
Luer-Jansen Rongeur, double action, slightly curved on flat, light model, 4mm, bite, 197mm (7 ½"). CTY:1 LUER Type Bone Rougeur, Bite %"(simm), Length 7"(178mm), Straight. CTY:1 LUER Type Bone Rougeur, Bite %"(simm), Length 7"(178mm), Straight. CTY:1 BEYER (LEMPERT) Type Rongeur, Straight, Curved. Bite 1/8"(156mm), CUTY:1 SEYER (LEMPERT) Type Rongeur, Straight, Curved. Bite 1/8"(156mm), CUTY:1 ZAUFAL-JAMSEN Type Rongeur, Gubile-action, curved. Bite 1/8"(156mm) CTY:1 BROON Crainal Rongeur, angular Bite 3/16" (Simm) Length 6" (177mm), Length 6" (177mm) BROON Crainal Rongeur, angular Bite 3/16" (Simm) Length 7") (177mm) CTY:1 Echini (2 x 10mm), 9", bone Rongeur. CTY:1 Echini (2 x 10mm), 9", bone Rongeur. CTY:1 EIESKEL-STILLE, 240 mm, 9", bone Rongeur. CTY:1 EIESKEL-STILLE, 240 mm, 9", bone Rongeur. CTY:1 Suction Regulating Valve. CTY:2 Flukushims Tear Drops shared bloe Micro suction bits different sizes. Set of eight. Non-glare finish. 1.5 mm to 5 mm. Length: 91/2" CTY:1 set CONE Ventricular Needles, graduated. 2 holes, Luer Lock Hub Length: 31" (197mm) CTY:2 MALIS Type Reurological Scissors, curved, semi-sharped points, Length: 7" (178mm) CTY:2 MALIS Type Reurological Scissors, curved, semi-sharped points, Length: 7" (178mm) CTY:2 Methershown dur's discosors, snapslar with probe-pointed under blade, screw-iont, 146mm (5 %"). CTY:2 Julian Taylor Quiver or Scabbard for holding diathermy instruments. CTY:4 Vasargi Gales Fish Hooks with spring. 16" (410mm), 9mm, CTY:0	ļ		MISKIMON Cerebellar Retractor, angled arms, 7 x 7 sharp prongs. Total length: 7 X" (191mm), Prong width: 1 X" (44mm) Prong depth: 1 X" (32mm), Total opening: 4" QTY:2	
Sargent Rongeur, double action, curved on flat, 229mm (9°). QTV:1 UURR Type Bone Rougeur, Bite W'(6mm), Length T'(138mm), Curved QTV:1 UURR Type Bone Rougeur, Bite W'(6mm), Length T'(138mm), Curved QTV:1 BEYER (LEMPERT) Type Rongeur, Straight, Curved, Bite 146° (mm), Length 158′ (158′ (158′ mm)) QTV:1 ZAUFAL-JANSEN Type Rongeur, Straight, Curved, Bite 146′ (158′ (158′ mm)), Length 158′ (158′ (158′ mm)) QTV:1 BACON Cranial Rongeur, anulural Bite 1316′ (56′ mm), Length 158′ (158′ mm)), QTV:1 Echlin (2 x 10mm), 9°, bone Rongeur, QTV:1 Echlin (2 x 10mm), 9°, bone Rongeur, QTV:1 Echlin (2 x 10mm), 9°, bone Rongeur, QTV:1 ESELLSCHLE, 240 mm, 9°, bone Rongeur, QTV:1 ESELLSCHLE, 240 mm, 9°, bone Rongeur, QTV:1 ESCHOOL Regulating Valve QTV:2 Fukushima Tear Drop shaped Hole Micro suction tips different sizes. Set of eight. Non-giare finish. 1.5 mm to 5 mm, Length: 91/2° QTV:1 set CONE Ventricular Needles, Faradusted, 2 holes, Lent Lock Hub Length: 3.5′ (89mm) (1) 146′ (61) 186′ (61) 186′ (07) 5pair MALIS Type Neurological Scissors, curved, semi-sharped points, Length: 7(128mm) QTV:2 Schmieden (or Taylor) dural scissors, angular with probe-pointed under blade, screw-iont, 146mm (5 %°). QTV:2 Midemental and prod Quiver or Scabbard for holding diathermy instruments. QTV:4 Vasargi Gales Fish Hooks with spring, 16′ (400mm), 9mm QTV:0	+			
LURR Type Bone Rougeur, Bite W'(6mm), Length 7'(178mm), Curved QTY:1 BEYER (LEMPERT) Type Rongeur, Straight, Curved, Bite 1/8'(178mm), Length 18'(186mm) QTY:1 ZAUFAL-JANSEN Type Rongeur, Straight, Curved, Bite 1/8' (Firm) Length: 6 W'(171mm) QTY:1 BACON Cranial Rongeur, andured Bite 1/8' (5mm) Length: 73/4' (197mm) QTY:1 Echlin (2 x 10mm), 9'', bone Rongeur, QTY:1 Echlin (2 x 10mm), 9'', bone Rongeur, QTY:1 ESSELL-STULE, 240 mm, 9'', bone Rongeur, QTY:1 ESSELL-STULE, 240 mm, 9'', bone Rongeur, QTY:1 Section Regulating Valve QTY:2 Fukushima Tear Drog shaped rolo Micro suction tips different sizes. Set of eight. Non-glare finish.1.5 mm to 5 mm. Length: 9 1/2'' QTY:1set CONE Ventricular Needles, Engduated, 2 holes, Luer Lock Hub Length: 3 %'' (89mm) (1) 14G, (ii) 16G, (iii) 18G, QTY: Spair MALIS Type Neurological Scissors, curved, semi-sharped points, Length: 7 (178mm) QTY:2 Schmieden (or Taylor) dural scissors, angular with probe-pointed under blade, screw-ipint, 146mm (5 %''). QTY:2 Micromodure of Sciabard for holding diathermy instruments. QTY:4 Vasargi Gales Fish Hooks with spring, 16' (40mm), 9mm, QTY:0	ļ		Sargent Rongeur, double action, curved on flat, 229mm (9"). QTY:1	
BEYER (EMPERI) Type Rongeur, Straight, Curved, Bite 1/16* [Zmm], Length 6 1/8* [156mm] QTY:1 BACON Cranial Rongeur, angular Bite: 3/16* (5mm) Length: 73/4* (197mm) QTY:1 BACON Cranial Rongeur, angular Bite: 3/16* (5mm) Length: 73/4* (197mm) QTY:1 Echilin (2 x 10mm), 9* (5mm) Rongeur, QTY:1 Echilin (2 x 10mm), 9* (5mm) Rongeur, QTY:1 EKSILL-STILLE, 240 mm), 9* (5mm) Rongeur, QTY:1 EKSILL-STILLE, 240 mm), 9* (5mm) Rongeur, QTY:1 Suction Regulating Valve QTY:2 Fluxibinina Tear Drop shaped Hole Micro suction tips different sizes. Set of eight. Non-glare finish.1.5 mm to 5 mm, Length: 91/2* QTY:1set CONE Ventricular Needles, graduated, 2 holes, Luer Lock Hub Length: 3* (18mm) QTY:2 MALIS Type Neurological Scissors, curve, semi-shaped points, Length: 7*(128mm) QTY:2 MALIS Type Neurological Scissors, curve, semi-shaped points, Length: 7*(1278mm).Tungsten carbide iaws gold plated bows QTY:2 Schmieden for Tadrol dural scissors, angular with probe-pointed under blade, screw-loint, 146mm (5 %*). QTY:2 Julian Taylor Quiver or Scabbard for holding diathermy instruments. QTY:4 Vasargi Gales Fish Hooks with spring. 16* (410mm), mm, QTY:0	ŀ		LUER Type Bone Rougeur, Bite ¼"(6mm), Length 7"(178mm), Curved QTY:1	
BACON Cranial Rongeur, angular Bite: 3/16" (Smm) Length: 73/4" (197mm) QTY:1 Echlin (2 x Johnn), 9", bone Rongeur. QTY:1 Echlin (3 x Johnn), 9", bone Rongeur. QTY:1 ERSHLEY-SILLE, 200 mp., 9", bone Rongeur. QTY:1 EISSELL-SILLE, 200 mp., 9", bone Rongeur. QTY:1 Suction Regulating Valve QTY:2 Suction Regulating Valve QTY:2 Fukushims Tear Drop shaped Hole Micro suction tips different sizes. Set of eight. Non-glare finish. 1.5 mm to 5 mm. Length: 9 1/2" QTY:1set CONE Ventricular Needles, graduated. 2 holes, Luer Lock Hub Length: 3" (89mm) (0) 146. (ii) 186. (QTY: 6 pair MALIS Type Neurological Scissors, curve, semi-sharned points. Length: 7" (1278mm). Tungsten carbide iaws gold plated bows QTY:2 Schmieden for Tadrof dural scissors, angular with probe-pointed under blade, screw-loint, 146mm is %1". QTY:2 Metzenbaum dural scissors, straight, 178mm (17) Tungsten carbide iaws gold plated bows QTY:2 Julian Taylor Culver or Scabbard for holding diathermy instruments. QTY:4 Vasargi Gales Rish Hooks with spring. 16" (440mm), 9mm. QTY:0) Julian Taylor Culver or Scabbard for holding diathermy instruments. QTY:4 Vasargi Gales Rish Hooks with spring. 16" (440mm), 9mm. QTY:0)	ļ		BEYER (LEMPERT) Type Rongeur, Straight, Curved, Bite 1/16"(2mm), Length 6 1/8"(156mm) QTY:1	
Echlin (3 x 30mm), 9°, bone Rongeur. QTV:1 EKSELL-STILLE, 240 mm, 9 %°, bone Rongeur. QTV:1 Suction Regulating Valve. QTV:2 Suction Regulating Valve. QTV:2 Suction Regulating Valve. QTV:2 Subushmin Tear Dros phased Hole Micro suction tips different sizes. Set of eight. Non-glare finish. 1.5 mm to 5 mm, Length: 9 1/2°. QTV:1set CONE Ventricular Needles, graduated, 2 holes, Luer Lock Hub Length: 3 %′. (89mm) (1) 14G. (81) 18G. (81) 18G. QTV: Spair MAULS Type Neurological Sissors, curved, semi-sharped points. Length: "(1278mm) QTV:2 MALIS Type Neurological Sissors, curved, semi-sharped points. Length: "(1278mm) Tungsten carbide iaws gold plated bows QTV:2 Schmieden (or Taylor) dural scissors, angular with probe pointed under blade, screw-joint, 146mm (5 %′). QTV:2 Metzenbaum dural scissors, straight, 178mm (7) Tungsten carbide iaws gold plated bows. QTV:2 Julian Taylor Curver or Scabbard for holding diatherm vinstruments. QTV:4 Yasargi Gales Fish Hooks with spring, 16° (440mm), 9mm, QTV:10 In the specific of the specific or the	t		BACON Cranial Rongeur, angular Bite: 3/16" (5mm) Length: 7 3/4" (197mm) QTY:1	
FRYKHOLM, 230 mm, 9°, bone Rongeur. QTV:1 EIESSELT-SITLE, 240 mm, 9°, bone Rongeur. QTV:1 Suction Regulating Valve QTV:2 Suction Regulating Valve QTV:2 Fulushims Tear Drops shaped Hole Micro suction tips different sizes. Set of eight. Non-plare finish.1.5 mm to 5 mm. Length: 9 1/2° QTV:1set CONE Ventricular Needles, praduated, 2 holes, Luer Lock Hub Length: 3 ½° (89mm) (i) 146. (ii) 166. (iii) 186. QTV: 6pair MAUS Type Neurolopical Scissors, curved, semi-sharped points, Length: 71(178mm) QTV:2 MAUS Type Neurolopical Scissors, curved, semi-sharped points, length: 71(178mm) Longstern carbide isws gold plated bows QTV:2 Schmidedn for Taylor) dural scissors, angular with probe-pointed under blade, screw-joint, 146mm (5 %°). QTV:2 Metznebam dural scissors, straight, 178mm (7)* Tungstern carbide isws gold plated bows. QTV:2 Julian Taylor Quiver or Scabbard for holding diathermy instruments. QTV:4 Vasargi Gales Rish Hooks with spring, 16° (440mm), 9mm QTV:4 Julian Taylor Quiver or Scabbard for holding diathermy instruments. QTV:4	ŀ	\dashv		
Suction Regulating Valve QTY:2 Flukshims Tear Drops shaped blole Micro suction tips different sizes. Set of eight. Non-glare finish.1.5 mm to 5 mm. Length: 91/2" QTY:1set CONE Ventricular Needles, graduated 2 holes, Luer Lock thub Lenath: 3 'X' (59mm) (i) 146. (iii) 186. (TY:6 pair MALIS Type Neurological Scissors, curved, semi-sharped points. Length: 2"(129mm) QTY:2 MALIS Type Neurological Scissors, curved, semi-sharped points. Length: 7"(129mm) Tungsten carbide laws gold plated bows QTY:2 Schmieden (or Taylor) dural scissors, angular with probe-pointed under blade, screw-joint, 146mm (5 %"). QTY:2 Methershown dural scissors, straight, 178mm (17) Tungsten carbide laws gold plated bows QTY:2 Julian Taylor Quiver or Scabbard for holding diathermy instruments. QTY:4 Vasargi Gales Rish Hooks with spring, 16" (440mm), 9mm QTY:4) [10] Total Course of Scabbard for holding diathermy instruments. QTY:4	ļ		FRYKHOLM, 230 mm, 9", bone Rongeur. QTY:1	
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MICRO SCISSORS (SPRING TYPE) BAYONET-SHAPED, YASARGIL, Micro scissors upwards curved 225 mm, 9" QTY:1	
MICRO SCISSORS (SPRING TYPE) BAYONET-SHAPED, YASARGIL, Micro scissors straight, 225 mm, 9" QTY:1	
MICRO SCISSORS (SPRING TYPE) BAYONET-SHAPED, YASARGIL, Micro scissors upwards curved, 225 mm, 9" QTY:1	
MICRO FORCEPS, BAYONET-SHAPED, YASARGIL, Micro Forceps, Tips 0.6 mm, 220mm, 8 3/4" QTY:2	
MICRO FORCEPS, BAYONET-SHAPED, YASARGIL, Micro Forceps, Tips 0.9 mm, 220 mm, 8 3/4" QTY:2	
FORCEPS FOR GRASPING TISSUE, TUMORS ETC YASARGIL, Tumor Grasping Forceps Jaw flat, serrated, 220 mm, 8 3/4", 3mm, 5mm, 7mm QTY:2	
Brigham Brain Tumor Forceps, Diameter of ring jaw 3/8" (10mm), Length: 7 3/8" (187mm) QTY:2	
Landolt Tumor forceps 160 mm, Ø 9 mm QTY:1	
Standards & Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
Warranty	
Comprehensive warranty for 2 years	

119 High Speed Drill Craniotomy Surgical Set

	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No: Country of Origin:	
	Lourtry of Origin: Technical Specifications	
	I recurring a specurication's I. High Speed Electrical Drill system with Variable speed setting from 10,000 to ≥ 80,000 rpm.	
_	1. Ingra special create form system with variable special secting from 20,000 to 2 80,000 tpm. 2. Should have touch screen display panel.	
_	3. Should automatically display various information like motor type, maximum rpm and current rpm level.	
	4. Console to allow visible display and setting of maximum speed limit.	
	5. Should have provision to attach two motor at the same time.	
	6. Should have customizable settings like Acceleration and stopping characteristics for individual motors, oscillation angle.	
	7. Should have single pedal foot control for varying the speed and forward & reverse rotation.	
	1. System should give audible beeps / alerts while in reverse action.	
	2. No inline Lubrication should be required to run the motor.	
	3. Should have integrated irrigation pump to allow precise adjustments of the pump flow.	
	4. Irrigation spray nozzle should be supplied with all hand-piece attachments.	
	5. Should have provision to use various saw system.	
	6. Should have quick release and lock system for tools.	
	7. A perforated sterilization basket of SS should be supplied. The sterilization basket should have racks to hold the cables, motor and various hand-pieces.	
	8. Attachments should have tapered design for better visibility under microscope.	
	9. The design should be ergonomic with ease of use in confined spaces like trans-sphenoidal pituitary and minimally invasive spine surgery.	
	10. There should be easily visible markings to identify matching attachments and tools.	
	11. System should have quick connect and lockable attachment system.	
	12. System should have common burrs/bits for different hand pieces (straight/Bayoneted) with adjustable lengths of the burrs. I. Accessories I. Accessories	
	II. Accessories A. Perforator set	
	A. Perorator set a. Should have a perforator driver with Hudson Chuck system	
	a. Snoulo nave a periorator driver with nuison Chuck system 0 B. Reusable crainal perforators for adult and pediatric sizes (10 each) to be supplied.	
_	D. Reconstitute demand periodatus not adout aind pediadric sizes 120 each) to die supplied. B. Cranictorium periodatus not adout aind pediadric sizes 120 each) to die supplied. B. Cranictorium periodatus not adout aind pediadric sizes 120 each) to die supplied.	
_	La. Should have non-fixed footed attachments (dural guard) for craniotomy in pediatric and adult sizes (one each)	
	b. One non-footed large stachment for midline soinal laminotomy.	
_	C. Corresponding cutter tools should be supplied in the following manner:	
_	i. Adult: 30 (for a)	
	ii. Pediatric: 10 (for a)	
	iii. Large: 05 (for c)	
	C. Osteotomy saw set	
	a. Should be supplied saw system with all attachments necessary to perform cranial osteotomies for skull base, orbital and neurospinal surgeries.	
	b. It should also have tools to harvest bone grafts from ribs or iliac crest.	
	c. Two set of necessary blades to be supplied.	
	D. Suture hole	
	a. Should be supplied with necessary attachments and tools to make small suture holes in craniotomy flaps and spinal laminae.	
	b. The corresponding tool to be supplied in 10 nos.	
	E. Burr system	
	a. Should have short (approx. 8 to 10 cm) and long (approx. 13 to 15 cm) straight and bayonet attachments – one each,	
	1. with corresponding cutting burrs of 2mm, 4mm and 6mm heads – 10 each	
	ii. With corresponding diamond burss of 2mm, 3mm and 5mm – 5 each b. Should have angled Ionic gloppor. 14 to 15 cm +/-11 and short (approx. 10 to 12 cm +/-11 attachments of less than 5mm outer thickness for use in trans-sphenoidal, trans-oral, micro-spinal and endoscopic surgeries (preferably of variable length)—	
	 Should have angled long (approx. 14 to 16 cm +/-1) and short (approx. 10 to 12 cm +/-1) attachments of less than 5mm outer thickness for use in trans-sphenoidal, trans-oral, micro-spinal and endoscopic surgeries (preferably of variable length) – one each, 	
	One eacn, i. with corresponding cutting burs of 1mm, 2mm and 4mm heads – 5 each	
	1. with corresponding during burs of 1mm, 2mm and 4mm eass – seach ii. With corresponding during burs of 1mm, 2mm and 4mm – Seach	
_	II. with corresponding particular strain, zimit and 4mm – 3 each	
_	Operating criving control of the capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of 35°C-40°C and relative runniously of 10-95%. The unit shall be capable of being stored continuously in ambient temperature of 35°C-40°C and relative runniously of 10-95%.	
	Power supply:	
	Power supply: Indust power supply: Indust power supply: Indust power supply: Indust power supply: 20/240 V AC, 50Hz single phase schuko plug	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Input power supply: 220/240 V AC, 50Hz single phase schuko plug Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
	Input power supply: 220/240 V AC. 50Hz single phase schuko plug Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length. Standarda & Safety Requirements	
	Input power supply: 220/240 V AC, 50Hz single phase schuko plug Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length. Standards & Safety Requirements Must submit 15013485:2003/AC:2007 for Medical Devices AND	
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	Input power supply: 220/240 V AC, 50Hz single phase schuko plug Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length. Standards & Safety Requirement Must submit (5013485:2003/AC:2007 for Medical Devices AND EC (93/42 EEC Directives) or USFDA or TUV approved product certificate. Training	
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	Input power supply: 2207-240 VAC, 50Hz single phase schuko olug Power supply: 220 – 240 VAC, 50Hz fittle with appropriate plug. The power cable must be at least 3 metres in length. Standards & Safety Requirements Must submit ISO13485-2003/AC-2007 for Medical Devices AND (E)93/42 EEC Incretives of ur USFDA or TUV approved product certificate. Training Must provide user & service training. Warranty Comprehensive warranty for 2 years. Maintenance Service During Warranty Period Maintenance Service During Warranty Period	
	Inout power supply. 220/240 V AC, 50Hz single phase schuko olug Power supply. 20—240 V AC, 50Hz single phase schuko olug Standards & Safety Requirements Must submit S013485-2003/AC-2007 for Medical Devices AND CE (93/42 EEC Directives) or USPO Ao *T UV approved product certificate. Training Must provide user & service training. Warranty Warranty Gongrehensive warranty for 2 years. Maintenance Service During Warranty Period Maintenance Service During Warranty Period Supplier must resure planned greverities maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
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No. | Manufacturer Name: | Model No.: | Country of Origin: | Technical Specifications | Technical Specifications | Technical Specifications | Working distance: 200-620 mm or better, continuously variable through motorized multifocal lens, activated through Handigrips | and through control panel. Manually adoutable override. | Magnification range: Minimum range upto 20 xor better | Focusing: Motorized via multifocal lens activated through Hand or foot switch & Touch screen control panel. Manually adoutable override. The system must provide automatic focusing: | 12.5x widefield with dioptric setting ±50 to -50. | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Magnification | Mag Light Source- 300W Xenon illumination with integrated 300W Xenon back-up with fast action lamp change over. The Microscopes illumination system must provide an additional light beam path to brighten up shadowed areas in the field of view.

Illumination Field Diameter: Should have built in automatic zoom-synchronized illumination field diameter, with manual

override and reset feature.

Automated Illumination controls: Should have automatic Illumination. Brightness control should be linked to working distance. Illumination also can be controlled by hand switch or floot switch.

Sincolar tube: Binocular tube for main surgeon which can be pushed and pulled offering flexible positioning, added magnification and integrated rotate functionality. Easily compensate for eye level differences between the surgeon and the assistant when operating in a face to face configuration by singly rotating the tube.

Singly rotating the tube.

Balanding: The system must provide a one touch automatic balancing of all system assess without any manual interaction or Salancings: The system must provide a one touch automatic balancing of all system axes without any manual interaction or axis adjustments.

Salancings: The system must provide a one touch automatic balancing of all system axes without any manual interaction or axis adjustments.

Beam Spiltter: Integrated Beam Spiltter (Not Visible from Outside/ separate attachment).

Cameras: Fully Integrated 3 CMOS HD Video Camera so that maximum resolution will display & record.

Displays: Full HD Medical grade touchscreen display system attached with the microscope system! No External monitor/

detachable monitor will be acceptable).

Recording: Full HD. Inibult: video recording: system with integrated HDD of at least 10 TB.

Stereo Co- Observer: Should have stereo co observation attachment for side assistant and the attachment should not move in case the head is tilted in forward or backward direction by the main surgeon.

The microscope must offer integrated 360° rostable tube for better ergonomic observation.

Binocular should have PD adjustment knob with range of SS mm to 75 mm.

Binocular should have movement tok in any angle.

XY Movement: For precise positioning of the microscope, the system must offer a motorized XY movement, providing in any/even horizontal) position of the optical axis a correct XY movement.

Remote Access: The system must provide an interface and a function for fast internet remote diagnosis to be operated via the central touchscreen user interface.

John Description: System should have robotic control.

Fill your Specification

120

active vibration damping mechanism to avoid disturbing vibrations.	
Surgical Fluorescence: The Tumor Sodium fluorescence mode, where fluorescence objects are emphasized in a greenish-yellow colour and the fluorescence can be observed looking through the eyepiece while simultaneously object that are not fluorescence almost completely keep their natural color. The system must give the excitation in the wavelength range from 460 to 500nm and observation in the wavelength range from 540 to 690 nm as it is comfortable to the observer along with	
distinguish the tumor cell.	
System should have verification possibilities of vascular	
anastomosis & vascular clipping verification.	
Detachable mouth switch accessory for controlling the movement of microscope.	
Operating Environment	
The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
Power supply:	
Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
Standards & Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
Training	
Must provide user & service training.	
Warranty	
Comprehensive warranty for 2 years.	
Maintenance Service During Warranty Period	
Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
<u>Documentation</u>	
User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
List of important spare parts, accessories and consumables with their part numbers and costing.	

121 Basic Vascular Surgery Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	B.P. Handle 71. OTY:2	
	Dissecting Forces Russian 8" OTY-2	
	Dissetting Forcess Angled Atr. 8" OTY:1	
	Cardipegia Cannula Lt. & Rt. OTY:1	
	Needle Holder Vascular 10" TC QTY:2	
	Heavy Duty Castroviejo Needle Holder For 2-0 Needle, 19 CM Idpc QTY:1	
	Heavy Duty Castroviejo Needle Holder For 2-0 Needle, 23 CM Idpc. QTV:1	
	Valsellum OTY:2	
	Blunt Hook 10" CTY:2	
	Valve Ronguers Assorted Upward QTY:1	
	Valve Ronguers Down Ward OTY:1	
	Valve Ronguers Straight QTV:1	
	variet includes 3 disign. QCT.4. variet includes 3 disign. QCT.4.	
	N.S.D. Retractor Set of 5 QTY.5	
	Cooley Retractor, Sizes, Small, Medium, Large, One Each QTV:3	
	COOREY RELIANCE, JULIS JULIANI, CAIRE, OTHE LEGIT QTT.3 SCRISON SCRIENT ISSUE OD. 9° OTY:1	
	Chest Tube Holding Forces OTY:2	
	Circia Trube Froming Critical Script Solimann QTY:2	
	Langenback Retriector's violationin - Q11.2.	
	Langenback Neutock Time (17:2	
	Longerinos Neurolas (1972)	
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	Judisson's described inside CV_3 CV_13 CV_	
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	sen neaming netractor proninger, menumin 1017.2 Self Retaining Netractor proninger, menumin 1017.2 Self Retaining Netractor Proninger, Large 077.2	
	Jen Headed Net Spreader, Morse, Large QTV:1	
	Four Bladed Chest Spreader, Mouse, Longer Q11.2 Four Bladed Chest Spreader, Mouse, Longer Q11.2 Four Bladed Chest Spreader, Mouse, Longer Q11.2	
	Four orace Cress Capacity, Morse, Weeting 1(1):1	
	Needle Holder, Nuter, Ted. 7 OTT-1	
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	weedure mouert, wayo negar, 10,3 Q11.1. Debakey Forces, 1 mm Tip, 8* Q1Y:2	
	Debakey Forceps, 2 mm Tip, 8* QTY-2 Debakey Forceps, 2 mm Tip, 8* QTY-3	
	Departy Procept, 2 min 110, 0 (01.44) Wife Holder There 8° TC 071/2	
	wire Holder Lister's 1C. Q11/2 Wire Floorer Lister's 5 (Q1/2)	
	wre.curer / 35 - Q17:1 Scisor, Curved, TC Mayo, 7" - Q17:1	
	SCRISOT, LUNYED, 1.C MAYD, 7 - Q.Y.1.1 SCRISOT, LUNYED, 1.C MAYD, 7 - Q.Y.1.1	
	26.5507, CUPVED, 15 WESTERBAUM, 7 UT-3.	
	Scissor, Curied, Tr. Mayor 37, 07 (1):1	
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\vdash	SCRISOT, STRIBERT, I., MARYO & QLY:1 Kindey Tray 12" - QTY:2	
	Money 119/12 U1172	
\vdash	FORWARD SCISSOR - 83 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARDING, I.C. / U.Y.2. BACKWARD SCISSOR 125 DEGREE, SPRING ACCION, NOUND HARD ACCION, NOUND	
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\vdash	MUST SUDMIT ISOLI 3485-200J YOL 7000 YANG DE GOOD TO WEDGE DEVICE STATUS OF THE STATUS	
\vdash	LE 193/42 EEL DIFFCENSON OF LOW approved product certificate. Warranty Warranty	
	Warranty Comprehensive warranty for 2 years.	
oxdot	Comprenensive warranty for 2 years.	

122 Cardiopulmonary Bypass Machine

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
	Should have 4 pump console: 3 single roller pumps and 1 twin roller pump module	
	. Twin roller pump should have selectable ratio of blood and cardioplegia from 1:1 to 1:20	
	Should have direct drive pumps and touch screen technology on pump heads.	
	. Console should be compatible to integrate an additional centrifugal pump module.	
	Air-oxygen blender with hoses and flow meter should be provided.	
	. Each pump should have programmable modes of operation as :Arterial, Arterial pulsatile, cardioplegia, slave 1, slave 2, pump sucker, auxiliary and free	
	Pumps should be operable in clockwise and counter clockwise direction.	
	It should have a precise and lockable central occlusion knob	
	Should have a separate cardioplegia monitor unit below the system control panel.	
	Cardioplegia monitoring unit should display cardioplegia data including volumes, ratio, time, pressure and temperature	
	Each roller pump should be capable of running on 24 V supply with a transformer in the console.	
	Roller pumps should be easy to remove and re assemble.	
	should have an emergency battery back up for atleast 90min for all the pumps with all necessary safety systems and accessories	
	Transitioning from mains to back up power should not require any action from the user	
	Level and bubble detector should be provided with the unit	
	Bubble detector should detect bubbles of minimum 5mm diameter	
	Unit should have the following parameters monitoring facility:pressure(for 4 pressure display), Time(3 re settable timers with 1 real time display), Temperature monitor(temperature display), cardioplegia delivery(Total volume, actual volume, time,	
	pressure of delivery), Temperature control of heater cooler unit.	
	Should be compact & transportable	
	Should have a flexible LED lamp, which is water resistant and provide natural white ligh	
	Should have a multipositional system control panel	
	All alarms and errors should be acoustically represented	
	A single button to silence and alarm should be incorporated	
	Remote control for the heater cooler unit to allow control the patient temperature.	
	All pumps must be rotatable by 15 degree increments upto 180 degree or 240 degrees	
	Continuous online blood parameter monitoring	
	System must have provision to add Mast Pumps	
	Heater Cooling Unit:	
	Unit should have 3 tanks. Machine must be capable of independently controlling 3 separate temperatures cooling and warming patient cardioplegia blanket	
	Water temperature should be regulated independently	
	Main and cardiaplegia should be separated in two tanks to ensure fast temperature adjustments of the two circuits and allow the availability of cold cardioplegia	
2	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
	Power supply:	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
4	Standards and Safety Requirements	

4.1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2 CE (93/42 EEC Directives) or USFDA approved product certificate.	
4.3 Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25	
5 Training	
5.1 Must provide user & service training.	
6 Warranty	
6.1 Comprehensive warranty for 2 years after acceptance.	
7 Maintenance Service During Warranty Period	
7.1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
8 Documentation	
8.1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
8.2 Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
8.3 List of important spare parts, accessories and consumables with their part numbers and costing.	1

123 Laser Lithotripsy System

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	I. Laser System	
	1. It should be able to fragment calculi of any size in the bladder, ureter or kidney and any stone fragment.	
	2. It should have power output minimum of 30 watts.	
	3. It should have repetition rate of 5 - 25 Hz.	
	4. It should have Energy per Pulse of 0.5 – 3.5 joules	
	5. It should have pulse duration of at least 500 microseconds.	
	6. It should have Green – aiming beam of 1.0 mw at 532 nm, variable intensity settings.	
	7. It should have closed loop self-contained water to air exchanger cooling system.	
	8. It should be useable with single phase 230 V AC 50/60 HZ.	
	9. It should have a shield or self safety mechanism to protect the Laser machine from fiber misalignment or misfire.	
	10. List of accessories are given below. The rate for the same shall be offered separately in the BOQ and will be taken for evaluation:	
	a. 365 Micron Reusable , Flexible Fiber	
	b. 200/230 micron reusable, flexible fiber	
	c. 365 Micron Stripping and cleaving (set)	
	d. 200/230 micron stripping and cleaving (set)	
	e. Fibre Inspection Scope (If required for the offered model of equipment, it shall be provided)	
	f. Ceramic Scissors/ diamond cutter	
	11. Should supply suitable UPS along with machine and should have minimum back up of 30 minutes	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Power supply:	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Training	
	Must provide user & service training.	
	Warranty	
	Comprehensive warranty for 2 years.	
<u> </u>	Maintenance Service During Warranty Period	
L	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
L	Documentation	
L	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts, accessories and consumables with their part numbers and costing.	

124 ICU Bed Five Movements

No.	Item Specifications	
NO.	Manufacturer Name:	
-	wanuacurer warne: Model No.:	
-	wouser wo.: Country of Origin:	
-		
\vdash	Technical Specifications	
	1. Bed should have Dual Pedestal Design.	
	2. Should have built in Bed extender of 200mn for long patients.	
	3. Tuck away side rails with embedded controls.	
	4. Electrically operated controls should have lock out facility for electric controls at foot end	
	5. Backrest & leg section emergency release (CPR)	
	6. Should have Trendelenbug & covered with bed cover made of AB for the frequent disinfections and washing	
	7. Synchronized command for bed sprung bas with inclination - backrest – 75 degree and above & Femur rest 25-30 degree	
	8. Should have electric backrest and pelvic sections with simultaneous movement	
	9. Should have complying to international standards with acimulated power 1,5 degree 70 VA, electrical current protection class 1, shock protection level type B.	
	10. Release lever for the side rails with four sectors	
	11. Protection against water invasion	
	12. Should have following parameters:	
	a. Length:>210 cm	
	.d. cenga. 2210011 b. Width: 385 cm	
	15. Would 2-95 LITT	
	C. Height adjustment: 44-85 cm	
-		
	e. Leg Section: 0-25	
-	f. Trendlenberg: 10-20	
	g. Reverse Trendlenberg: 5-10	
	13. Should have collapsible /tuck – away side rails	
	14. Should have double X-ray back rest with Cassette tray	
	15. Should have facility to fix IV rod at all the four corners and place for fixing accessories	
	16. Should have castors with central braking system and steering facility	
	17. Should be radiolucent from Neck though Pelvic region	
	18. Should have bumpers at all 4 corners	
	19. Should be provided with:	
	a. Bed ends fixed to the frame	
	b. Side rails	
	c. IV rods	
	d. Mattress	
	e. X-ray cassette tray, urine bottle holder, drainage bottle holder	
	20. Load bearing capacity for the bed should be at least 220kg or more, should have 90 degree upright backrest for chest Imaging.	
	21. Electrical safety conforms to standards for electrical safety life-66001/5-13450	
	22. Should have Dual Castors of 18-20 cm	
	22. Discuss shock protection facility	
	25. Fieturis shock protection rating. 24. The control is fined to track provening the patient on Bed (Optional)	
\vdash		
\vdash	Operating Environment	
\vdash	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
-	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
—	Power supply:	
1	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Training	
	Must provide user & service training.	
	Warranty	
	Comprehensive warranty for 2 years.	
	Competentive warranty for 2 years. Maintenance service During Veranty Period	
	manuscrance service planned was remove remove the service planned with corrective/breakdown maintenance whenever required. Supplier must be used to service planned was remove remove the maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Supplier must ensure planned preventive maintenance (PPW) along with Corrective/oreaccount maintenance whenever required. Documentation	
_	<u>Locumentation</u> User (Operating) manual in English Should provide 2 sets/hardcopy and soft-copy)	
\vdash		
\vdash	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts, accessories and consumables with their part numbers and costing.	

125	Bed Mattress

No	. Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Description of Function	

1.1	Mattress is to provide a comfortable platform to rest or sleep upon the bed.	
2	Operational Requirements	
2.1	A mattress for hospital bed.	
3	System Configuration	
3.1	Hospital Mattress, two sections.	
4	Technical Specifications	
4.1	The mattress negotiable with hospital beds having an overall approximate dimension of not less than 1980mm length, 910mm width.	
4.2	It shall be fire retardant antibacterial treated high density approx. 40kg/m3 PU foam mattress.	
4.3	The mattress shall have thickness of at least 100mm.	
4.4	Mattress with two sections shall be designed to bend with the positioning of the bed when the backrest and foot section of the bed are adjusted.	
4.5	The weight capacity of the mattress shall be more than 100kg.	
4.6	Mattress Cover:	
	The mattress shall come with a zipped fire retardant antibacterial, antistatic, acid resistance, waterproof and washable vinyl or vinylized nylon cover. It shall be designed to provide ventilating airflow over the patient's skin. The zip shall be a heavy-duty/large toothed synthetic zipper to enable inspection of the inner foam and totally covered by a flap extending over the zip to prevent ingress of fluids into the actual mattress and allow for replacement.	
	Operating Environment	
5.1	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.	
	Warranty	
6.1	Comprehensive warranty for 2 years after acceptance.	

126 Emergency Trolley

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	1. Overall approximate dimension: 1905 mm L x 710 mm W.	
	2. Stretcher dimension approximately: 1830 mm L x 555 mm W.	
	3. Two section top.	
	4. Height adjusted by crank mechanism from 625 mm to 850 mm.	
	5. X-ray permeable removable stretcher top in two sections made of pre-treated-laminated board supported on tubular frame.	
	6. Backrest raised on ratchet.	
	7. Trendelenburg & reverse trendelenburg positions on crank mechanism.	
	8. Four 125 mm diameter, castor wheels with high grade synthetic body, two with brake and two without brake.	
	9. Complete with corner buffers.	
	10. Synthetic rubber covered handles.	
	11. Storage tray.	
	12. Oxygen cylinder holder.	
5	Operating Environment	
5.1	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.	
6	Warranty	
6.1	Comprehensive warranty for 2 years after acceptance.	
7	Maintenance Service During Warranty Period	
7.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required	

127 Infusion Pump

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Description of Function	
	A microprocessor controlled infusion pump unit is needed to include but not limited to the following features:	
	Flat hygienic touch screen.	
	Syringe loading sensor – with KVO (keep vein open)	
	Self calibrated, self diagnosis capability	
1.5	Volume range from 1 – 999 ml/hr or better in 1 ml increment	
	High accuracy rate< /- 2%	
1.7	Audio visual indicators	
1.8	Multi types A/V alarms to include occlusion, door open, low battery, empty, etc	
1.9	Open system using standard IV lines	
1.10	Air in line/ fluid detector	
	Built in rechargeable battery, at least two hours operation	
	Clamp pole	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable 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 or TUV 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 years after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English.	
	Service (Technical) / Maintenance) manual in English. List of imnortant asser parts and accessories with their part numbers and costine.	

128 Portable Patient Monitor

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Description of Function	
	NIBP/Vital Sign Monitor is used to continuously monitor the vital parameters including NIBP of critically ill patients.	
	Operational Requirements	
	Capability of storage of patient data and printing of patient reports.	
	Capability to integrate with the HIS and transfer the data through LAN / Wireless LAN to any other monitoring room / doctor's desk. Must be HL-7 compatible for transmitting and receiving data to/from LAN/HIS	
	System Configuration	
	NIBP/Vital Signs Monitor with complete accessories.	
	Technical Specifications	
4.1	Monitoring parameters;- ECG, respiration,NIBP,SPO2 and temperature	
	Digital and 6 waves / traces display on minimum 9 inches TFT/LCD Display Screen.	
	Monitor must have audible and visual alarms capability. Alarms must have three distinct audible alarm tones to distinguish alarm levels as under. Also monitor must permit automatic viewing of alarming parameter waveform and numeric from any	
	bedside in alarm as and when connected in a network.	
	Must include hemodynamic calculations and vital sign and graphic trends. Trends must be automatically stored for at least 24 hours in at least one minute intervals.	
	Numeric monitored data shall be viewable and recordable in a patient chart type format in at least 1, 5, 15, 60 minutes intervals.	
	Convenient handle for carrying the same	
	Able to fix with bed/trolley.	
	Inbuilt rechargeable battery for minimum 3 hours of operation.	
	Accessories, spares and consumables	
	Accessories:	
	☐Patient cable -01 no.	
	BAdult Cuff −01 no.	
	B Paedistric Cuff-01 no.	
	B Adult Probe SPO2 -02 nos.	
	B Paediatric Probe SPO2 -02 nos	
	BSkin Temp Probe -02 nos	
	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.	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	1
	Warranty	
	Comprehensive warranty for 2 years from acceptance.	
	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.	
	Documentation	1
	User (Operating) manual in English	-
11.2	Service (Technical / Maintenance) manual in English	

11.3	List of important spare parts and accessories with their part number and costing

129

No.	Item Specifications	Fill your Specification
	Anufacturer Name:	
	Aodel No.:	
	Country of Origin:	
	Description of Function	
	Sed to detect the electrical signals associated with cardiac activity and produce an ECG, a graphic record of the voltage versus time.	
2 0	Operational Requirements	
2.1 M	Aicroprocessor controlled digital 3 channel ECG machine suitable for adult, paediatric and neonate applications.	
	ystem Configuration	
	hree channel ECG machine with complete accessories.	
	echnical Specifications	
4.1 Si	imultaneous 12 lead acquisition: aVR, aVL, aVF, I, II, III and V1-V6 derived from 10 electrodes (RA, LA, RL, LL, V1 - V6).	
4.2 Ar	rrythmia and ST elevation detection.	
4.3 M	Ainimum gain/sensitivity settings include 2.5, 5, 10 and 20 mm/mV.	
4.4 Ac	djustable trace speeds include 5, 10 (and/or 12.5), 25 and 50mm/sec.	
4.5 M	Ainimum HR range 30 – 300 bpm with rhythm analysis.	
	Ainimum guaranteed diagnostic frequency response of 0.05 – 150 Hz.	
4.7 Cc	ommon Mode Rejection Ratio (CMRR) at 60 Hz > 105 dB or better.	
	alibration signal of 1 mV, manual and/or automatic.	
	electable/adjustable filters for baseline drift, muscle artefacts, mains power.	
4.1 Pa	acemaker detection.	
4.11 Ac	uccuracy of input signal reproduction \pm 5 % or \pm 40 μ V, whichever is greater.	
	nput impedance > 50 MΩ.	
	nternal noise level < 12.5 μV peak-to-peak.	
	utomatic baseline centring.	
	Pefibrillation fluctuation/overload protection.	
	aseline recovery < 5 s after defibrillation.	
4.17 AC	C fluctuation protection.	
	ECORDER AND PRINTER	
	finimum of 3 recording channels.	
Re	tecorder display includes date/time, patient data and heart rate and basic settings.	
	apable of displaying one group of at least three channels simultaneously.	
Re	secorder waveform display includes lead marker and timing marker.	
	ntegrated/built-in printer.	
Ca	apable of printing user selected number of channels.	
Ca	apable of printing one group of at least three channels simultaneously.	
	aper speeds include 5, 10 (or 12.5), 25 and 50 mm/s.	
Cc	ompatible with 2-fold paper and optionally with roll paper also (indicate compatibility).	
	NATA INPUT/OUTPUT, STORAGE AND ALARMS	
	ntegrated alpha-numeric keyboard.	
	atient data input fields include name, age, height and weight, gender.	
	acklit Liquid Crystal Display (LCD) display screen, minimum of 6 inche diagonally.	
Ca	apable of internally storing a minimum of 10 waveforms for later retrieval, printing and/or transmission. xpandable storage for additional waveforms if required, via USB.	
	Appendance storage in auditional wavecrotims in required to 30.00. Appendance storage in auditional wavecrotims in required to 30.00. Appendance storage in auditional wavecrotims in required. Was 0.50. Appendance for page in auditional wavecrotims in required. Was 0.50. Appendance for page in auditional wavecrotims in required. Was 0.50. Appendance for page in auditional wavecrotims in required. Was 0.50. Appendance for page in auditional wavecrotims in required. Was 0.50. Appendance for page in auditional wavecrotims in required. Was 0.50. Appendance for page in auditional wavecrotims in required. Was 0.50. Appendance for page in audition of the page in the pa	
Vi	apacie or exporting waveronn data and reports, was or twice. Stall alarms for patient connection (lead faults), heart rate, printer and paper errors, and system errors.	
	Source and the first att start up.	
4.2 Bi	uulit-in rechargeable lithium-ino battery.	
	Alinimum battery operating time is 100 ECG exams or 4 hours of continuous recording.	
	automatic switch to battery in case of power failure, automatic recharge on connection to mains.	
4.23 M	Asximum battery charging time to full charge is 8 hours.	
	accessories, spares and consumables	
	Il standard accessories, consumables and parts required to operate the equipment, including all standard tools.	
5.2 Ac	iccessories:	
2	Reusable Patient cable with reusable electrodes for adult 1 set.	
	Reusable Patient cable with reusable electrodes for paediatric 1 set.	
2 (Reusable patient cable with reusable electrodes for neonate & infant- 1 set.	
28	Extremity clamp electrodes, reusable- 4 nos.	
2 ₽	Recording paper 2 Z-folded or rolls- 5 rolls	
	Bottles of electrode gel, approximately 350ml- 1 nos.	
B 9	Spare rechargeable battery pack- 1 no.	
	Set of spare fuses- 1 set	
	Plastic protective dustcover- 1 no.	
6 O	perating Environment	
6.1 Th	he unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
	he unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
	ower supply:	
7.1 In	nput power supply: 220/240 V A C, 50Hz single phase schuko plug	
7.1 In 8 St	tandards and Safety Requirements	
7.1 In 8 St 8.1 M	tandards and Safety Requirements //ust submit ISO13485:2003/AC:2007 for Medical Devices AND	
7.1 In 8 St 8.1 M 8.2 CE	tandards and Safety Requirements Just submit ISO134655:2003/AC:2007 for Medical Devices AND E (93/42 EEC Directives) or USF0A approved product certificate.	
7.1 In 8 St 8.1 M 8.2 CE 8.3 Ele	tandards and Safety Requirements Just submit ISD13485;2003/AC:2007 for Medical Devices AND E (3/42 EEC Directives) or USFDA approved product certificate. Jectrical safety onforms to standards for electrical safety JEC-60601-1 General Requirements and JEC-60601-2-25 Safety of Electrocardiograms.	
7.1 In 8 St 8.1 M 8.2 CE 8.3 El	Landards and Safety Requirements Must submit ISO1348S:2003/AC.2007 for Medical Devices AND E (193/42 EEC Directives) or USF0A approved product certificate. Lectrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms. Taining	
7.1 In 8 St 8.1 M 8.2 CE 8.3 Ele 9 Tr 9.1 M	Landards and Safety Requirements Just submit ISO13485:2003/AC:2007 for Medical Devices AND E (93/42 EEC Directives) or USFDA approved product certificate. Lectrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms. Taining Just provide user & service training.	
7.1 In 8 St 8.1 M 8.2 CE 8.3 El 9 Tr 9.1 M 10 W	Landards and Safety Requirements Must submit 10S.10882:003/AC ZOOT for Medical Devices AND E (93/42 EEC Directives) or USFDA approved product certificate. Hectrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms. Training Must provide user & service training.	
7.1 In 8 St 8.1 M 8.2 CE 8.3 Ele 9 Tr 9.1 M 10 W 10.1 Cc	Landards and Safety Requirements Wast submit SD1348S-2003/AC-2007 for Medical Devices AND E (03/42 EEC Directives) or USF0A approved product certificate. Lectrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms. Training Must provide user & service training. Varranty Our provide user A service training.	
7.1 In 8 St 8.1 M 8.2 CE 8.3 Ele 9 Tr 9.1 M 10 W 10.1 Cc 11 M	Landards and Safety Requirements Life states 2007 (AC 2007 for Medical Devices AND E (93/42 EEC Directives) or USEDA approved product certificate. Lectrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements and IEC 60601-2-25 Safety of Electrocardiograms. Taining Just provide user & service training. Warranty Comprehensive warranty for 2 years after acceptance.	
7.1 In 8 St 8.1 M 8.2 CE 8.3 Ele 9 Tr 9.1 M 10 W 10.1 Cc 11 M 11.1 Su	Landards and Safety Requirements Must submit ISO13485:2003/AC.2007 for Medical Devices AND E (03/42 EEE Directives) or USF0A approved product certificate. Lectrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms. Training Must provide user & service training. Maranty Omprehensive warranty for 2 years after acceptance. Alaintenance Service During Warranty Period Upplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
7.1 In 8 St 8.1 M 8.2 CE 8.3 Ele 9 Tr 9.1 M 10 W 10.1 Cc 11 M 11.1 Su 12 Dc	Landards and Safety Requirements (List submit (SISLa85-2003/AC-2007 for Medical Devices AND E. (193/42 E.E.C. Directives) or USEDA approved product certificate. E. (193/42 E.E.C. Directives) or USEDA approved product certificate. Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms. Taining Nust provide user & Service training. Warranty Omprehensive warranty for 2 years after acceptance. Maintenance Service During Warranty Period Upplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
7.1 In 8 St 8.1 M 8.2 CE 8.3 Ele 9 Tr 9.1 M 10.1 Cc 11 M 11.1 Su 12 Dc 12.1 Us	Landaur's and Safety Requirements (Must submit 10SJABS-2003/AC ZOOT for Medical Devices AND E (33/42 EEC Directives) or USFDA approved product certificate. (Lectrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms. raining Must provide user & service training. Warranty Comprehensive warranty for 2 years after acceptance. Maintenance Service During Warranty Period upplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required. locumentation Serv (Operating) manual in English Should provide 2 setsihardcopy and soft-copy)	
7.1 In 8 St 8.1 M 8.2 CE 8.3 El 9 Tr 9.1 M 10.1 CC 11 M 11.1 St 12 Dc 12.1 Us 12.2 Se	Landards and Safety Requirements (List submit (SISLa85-2003/AC-2007 for Medical Devices AND E. (193/42 E.E.C. Directives) or USEDA approved product certificate. E. (193/42 E.E.C. Directives) or USEDA approved product certificate. Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms. Taining Nust provide user & Service training. Warranty Omprehensive warranty for 2 years after acceptance. Maintenance Service During Warranty Period Upplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	

ECG Machine

130 Patient Monitor with IBP

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Description of Functions	
1.1	A bedside patient monitor to monitor physiological parameters of patients in the critical care units or operating theatres.	
2	Operational Requirements	
2.1	It shall operate on AC power supply as well as built-in battery.	
3	System Configurations	
3.1	Monitor Patient Bedside 4 chl. colour with ECG/Resp., SpO2, NIBP, Temp, 2IBP, ETCO2 , CO	
3.2	All accessories, consumables and etc. required for monitoring of physiological parameters specified herein.	
4	Technical Specifications	
4.1	High resolution colour flat panel non-reflective screen: > 10" display size for at least 4 channel waveforms display	
4.2	Display of up to 4 physiological parameter modules without the need for external devices	
	Display waveform: ECG, IBP, Sp02,CO, pulse wave and respiration.	
4.4	Numeric data display: heart rate / pulse rate, respiration rate, NIBP (Systolic, Diastolic, Mean), SpO2 and current time of NIBP measurement.	
4.5	Use interaction via integrated touch screen, press pad/button or rotary knob.	
4.6	With storage of at least 24 hours of trend data in 30-second sampling resolution for all monitored parameters to be displayed graphically and in tabular form.	
4.7	Data resolution shall be minimum of 30 second sampling.	
4.8	Display of trend:	
4.9	a) Trend tables in at least with 1, 5, 15, 30 or 60 -minute display formats; and	
4.10	b) Trend graphs in at least 1, 2, 4, 8, 12 or 24 -hour display formats	
4.11	With storage of events for event recalling, review and documentation. It shall be able to store and record at least 10 events.	
4.12	The monitor shall be protected against the interference from the electric cautery and other electrical equipment.	
4.13	Despite the technical requirements of the networking capability, the networking works shall not be included in this offer.	
4.14	All parameters modules shall work in all monitors within the network and shall be easily interchangeable by the user. There shall be no restriction on the combination of them.	
4.15	Parameter required:	
4.16	ECG/Respiration with 5 system with cable (1 set) and complete reusable ECG electrodes for Adult & paediatric, 1 set each	
4.17	ECG cable and patient cable 5 leads for disposable electrodes, 1 set	
4.18	Disposable electrodes for adult, child and infant, 50 pcs each	
4.19	Shall come with at least a 2-lead (channel) ST analysis	
4.20	With lethal arrhythmia detection: at least with detection & monitoring of asystole, ventricular, fibrillation, and ventricular tachycardia and bradycardia.	
4.21	Pulse oximetry SpO2 with adult and child finger transducer, 1 each.	
4.22	SpO2 reusable sensor for infant, 1pc.	
4.23	Non-invasive blood pressure, NIBP with reusable NIBP Starter Kit	
	NIBP connection hose, 1 set	
	NIBP cuff & tubing for both adult & child (At least 2 different sizes for adult and 4 different sizes for child/ infant/ neonate)	
4.26	Temperature: 2 type of probes required.	
4.27	Core temperature probe adult, child & infant, 1 pc each	
4.28	Skin Temperature probe, adult/child & infant, 1 pc each	

4.30 Stall come with one complete set of ISP results accessories 4.31 ECO2_refets by incorsteran byte ast was the sable to perform mainstream and side stream ECO2 monitoring 4.32 Come with one complete set of ECC2 flow sensor and accessories for mainstream and side stream monitoring, 1 set each 4.31 In the case of microstream system, thall come with one complete set of ECC2 flow sensor and accessories for side stream monitoring, 1 set 4.34 Come with internal rechargeable Lithium battery complete with built in charger 4.35 Monitor shall be operated by the battery for all sets of minutes 4.36 Come with Alarms for all monitored parameters including: exceeding user-selectable upper and lower limits, life threatening alarms, lead/ probe/ sensor disconnection, system failure or error. 4.36 Come with Alarms for all monitored parameters including: exceeding user-selectable upper and lower limits, life threatening alarms, lead/ probe/ sensor disconnection, system failure or error. 4.37 Alarm shall be operated by the battery for all sets of minutes 4.38 With networking capability to interface with the certain monitor 4.40 R323 port with interface with computer 4.40 System architecture shall be designed such that deactivation or failure of any bedside or central station device on the network shall not disable, inhibit or degrade communication functions among any other devices in the system. 5. Accessories, Spare Parts and Consumables 5. Accessories, Spare Parts and Consumables 6. Operating Environment 5. In All standard accessories, consumbles and parts required to operate mornally under Power Supphy, Climate, Temperature-Humidity, etc. for Sudan. 5. Power supphy 220 – 240 VAC, 50Hz fitted with appropriate plus, The power cable must be at least 3 metres in length. 7. Sandards Selferk Requirements of Selfer 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 steen. 8. User Training 1. The supplies	4.29 Invasive blood pressure, IBP for monitoring of 2 IBP	
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11.3 List of important spare parts and accessories with their part numbers and costing.	11.2 Service (Technical / Maintenance) manual in English	
	11.3 List of important spare parts and accessories with their part numbers and costing.	

Fill your Specification

Vital Sign Monitor

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132 Intracranial Pressure Monitoring Device And Electrodes

No	ttem Specifications	Fill your Specification
	Manufacturer Name:	
	II Model No.:	
	III Country of Origin:	
	1 Technical Specifications	
	It should be able to monitor ICP and should have following components.	
	Basic Unit should display mean systolic and diastolic intracranial pressure as digital display.	
	Micro sensor transducer having gauge pressure sensor mounted in a titanium case.	
	ICP should be displayed at digital data rather than hydrostatic column.	
	One touch zero function.	
	Battery backup for 2-3 hours.	
	Facility for adult and children both.	
	Cable to connect ICP monitor with available bed side multipara monitor should be supplied for wave form analysis.	
	Subdural/Intraparenchymal monitoring Kit - 12.	
	Intra Ventricular Cathetor Kit - 5.	
	Skull Bolt Kit (Micro sensor) - 3.	
	All its accessories like cable etc to make unit completely functional.	
	2 Operating Environment	
2	.1 The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
2	.2 The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
	3 Power supply:	
3	.1 Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	4 Standards and Safety Requirements	
4	.1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4	.2 CE (93/42 EEC Directives) or USFDA approved product certificate.	
4	.3 Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety	
	5 Training	
5	.1 Must provide user & service training.	
	6 Warranty	
- 6	.1 Comprehensive warranty for 2 years after acceptance.	
<u></u>	7 Maintenance Service During Warranty Period	
7	.1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
<u></u>	8 Documentation	
	.1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
8	.2 Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
I 8	.3 List of important spare parts, accessories and consumables with their part numbers and costing.	

133 Mobile Operating Lamp

Moderation Name Moderation Control Control	No. Item Specifications	F.11 6
Country of Office.		Fill your Specification
No control of function		
Separate function		
1. Note in contract part in a requirement of comprise out specialism as a emergency partnersoment and the system, can be anowed from size to branch to place in beginning. 2. Secretion Systems (1997) 1. Secretion (1	III Country of Origin:	
2 Description Reconstructions on the institute of the control	1 Description of Function	1
2 Description Reconstructions on the institute of the control	1.1 Mobile operating light is required for carrying out operations in an emergency environment and the system can be moved from place to place in hospitals.	
2.5 System Configuration or manus electric sport is well as on battery		
3 Secretic Confidence		
1. Specially light Notice with rupie light host, moveable on casters and with all standard accessories.		
A Special Specifications		
4. Shell have single that the designed with good controllednance enclasarian in order to ensure stability of light head or an act be greater than 150 million and act as greater than 150 million and the greater than 150 million and the greater than 150 million and the greater than 150 million and 150 m		
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4.6 Such temperature, between 450 - 4500 K. 4.7 Shall have contradering index in between 19 - 94. 4.8 Shall have contradering index in between 19 - 94. 4.9 Shall have contradering index in between 19 - 94. 4.9 Shall have contradering index in between 19 - 94. 4.9 Shall have contradering index in between 19 - 94. 4.9 Shall have contradering index in the mose than 1 - 6C. 4.1 Shall have contradering index in temperature is half one creed 3-500 microwalts are require centimete measured in from the light source. 4.13 Shall have an interest on operating feed of pervent particular from borns, especially during the optimishing procedure. The light offered shall be useful or optimishing procedure. 4.13 Working distance range (local largely). 70 - 150m. 4.14 Shall have a control to regulate light interestly and to switch on the unit. 4.15 Shall have a control to regulate light interestly and to switch on the unit. 4.16 Shall have a control to regulate light interestly and to switch on the unit. 4.17 Shall have an Option which a large particular of the shall be controlled adjustment, continuous fairner, continuous feed adjustment, and the shall be controlled adjustment. 4.18 Shall have a control to regulate light interestly and to switch on the unit. 4.19 Shall have an Option which a large particular of the shall be s	4.5. Light intensity range, shall not be less than 80,000 live at 1 meter distance from light source. Ridder shall attached certified test certificated showing the compliance of this requirement with TSF.	
4.7 Shall have glober rendering index in between \$956. 4.9 Shall have glober inferences at head shall not be more than 2 oc. 4.9 Temperature increase at head shall not be more than 2 oc. 4.9 Temperature increase at head shall not be more than 2 oc. 4.0 Temperature increase at head shall not be more than 2 oc. 4.1 The light offered than 1 have shifty designed to greened patient from borm, especially during the ophthalmic procedures. The light offered shall have safety designed to greened patient from borm, especially during the ophthalmic procedures. The light offered shall have safety designed to greened patient from borm, especially during the ophthalmic procedures. The light offered shall be certified safe to be used under ophthalmic procedures. 4.10 Design of field with floorand glipt. 5 60cm. 4.11 Design of field with floorand glipt. 5 60cm. 4.12 Design of field with floorand glipt. 5 60cm. 4.13 Design of field with floorand glipt. 5 60cm. 4.14 Design of field with floorand glipt. 5 60cm. 4.15 Shall come with the control and con		
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4.13 Rolland heat emergy (beam temperature) shall not esceed 25,000 microwatts per source remindere measured in from the light source. 4.13 Working distance range (book length), 70 - 190cm. 4.14 Oprish of falled with forcest light - 5,000 feet, 190cm. 4.15 Oprish of falled with forcest light - 5,000 feet, 190cm. 4.16 Oprish of falled with forcest light - 5,000 feet, 190cm. 4.17 Oprish of falled with forcest light - 5,000 feet, 190cm. 4.18 Shall now early control to see, as light hands with on the unit. 4.18 Shall now early control to see, as light hands with one feet with the state of the see, and the see of the see of the see, and the see of the see, and the see of the see of the see of the see, and the see of the see		
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4.13 Depth of left with focused light; 20 - 130m. 4.15 Unminance field size: 1.5 - 25m diameter, adjustable. 4.15 Unminance field size: 1.5 - 25m diameter, adjustable. 4.17 Shalf have an Oh/Off within at imp head. 4.19 Shalf have an Oh/Off within at imp head. 4.10 Shalf have an Oh/Off within at imp head. 4.10 Shalf have an Oh/Off within at imp head. 4.10 Shalf have an Oh/Off within at imp head. 4.10 Shalf have an Oh/Off within at imp head. 4.10 Shalf have an Oh/Off within at imp head. 4.10 Shalf have an Oh/Off within at imp head. 4.10 Shalf have an Oh/Off within at imp head. 4.10 Shalf have an Oh/Off within at imp head. 4.10 Shalf have an Oh/Off within at imp head. 4.10 Shalf have an Oh/Off within at imposite with fields it. 2 ns. 4.10 Shalf have an Oh/Off within at imposite with fields it. 2 ns. 4.10 Shalf have an Oh/Off within at imposite with fields it. 2 ns. 4.10 Shalf have an Oh/Off within at imposite with field within a shalf have an ohior within		
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4.16 Shall have a control to regulate light intensity and to switch on the unit. 4.18 Shall known an On/Off within that hamp head. 4.18 Shall come with continuous dimmer, continuous focus adjustment, continuous feed adjustment. 4.19 Startificable familiary for the field size, 2, por. 4.20 Vertical adjustment shall not be fees than 115m. 4.21 Rotation 360 degree. 4.22 Come with Onthinating concedures she light buts with a minimum of 1000 hours lifesom. 4.23 Interference sourcessed considerable with VDE 0875 or equivalent. 4.24 Come with Onthinating concedures she light to buts with a minimum of 1000 hours lifesom. 4.25 Interference sourcessed considerable with VDE 0875 or equivalent. 4.26 Interference sourcessed considerable with VDE 0875 or equivalent. 4.27 Mobile Stand. 5. Mobile Stand. 5. Mobile Stand. 6. Shall be based on light weight easily moveable stable support with at least 4 casters with locking counter balance mechanism in order to ensure stability of light head in all positions and with swivel arm. Caster must be medical chemical resistant. 4.28 Battery. 6. Battery. 6. Shall include a butter-a normal but nor reshrageable batteries with capacity sufficient for operating in battery made (fully chargea) for minimum of 3 hours. 6. Shall include battery power (charge) indicator. 6. Shall include battery power (charge) indicator. 6. Shall include battery power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters power (charge) indicator. 6. Shall include batters p		
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4.318 Startineable handle to results the hifted size 2. 20. 4.20 Vertical adjustment, shall not be less than 1,5cm. 4.20 Vertical adjustment shall not be less than 1,5cm. 4.21 Rotation 300 degree. 4.22 Come with Ophthalmic procedures safe light bulbs with a minimum of 1000 hours lifespan. 4.22 Come with Ophthalmic procedures safe light bulbs with a minimum of 1000 hours lifespan. 4.24 Transformer and operating elements shall be integrated in light head housing. 4.25 Interference suppressed complete with VDC 6975 or gouvinent. 4.26 Starter: Shall be based on light weight easily moveable stable support with at least 4 casters with locking counter balance mechanism in order to ensure stability of light head in all positions and with swivel arm. Caster must be medical chemical resistant. 4.26 Sattery: Buthum too bulb in rechargeable batteries with capacity sufficient for operating in battery mode (fully charged) for minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operating minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operating minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operating minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operating minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operating minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operating minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operating minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operating minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operating minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operating minimum of 3 hours. Buthum too bulb in rechargeable batteries with capacity sufficient for operat		
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134	Operating Table for Neurosurgical
154	 Operating rathe for neurostaged

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	Till Your Specification
- 1	Model No.:	
	Country of Origin:	
	Technical Secifications	
	1. The quotes system should be based on fully electro mechanical technology.	
	2. The table should be study easily mobile with padded divided (split leg) foot section.	
	2. The table around up a source, each should have flat base with exchangeable table top. The table top and the base can be moved to wherever in the Operating Room area with the help of Shuttle facility. Shuttle has be provided along with unit.	
	1.5. The table strout nave nat oase win exchangeance abore upon a character of the provided along wind min. 4. All tables sections except the section attached to the pillar should be quickly detachable using easy latch mechanism to suit all surgical needs.	
	4. An Laures sections except the section attached to the plant should be quickly detachable using easy satch medianism to suit all suggest needs. 5. Head plates and leg plates should be interchangeable.	
	6. Built in kidney bridge	
	7. Table should have minimum footprint to give surgeon and image intensifiers maximum liberty of movements.	
	8. Should be suitable for patient positioning in supine, lateral, sitting, concord, park bench prone and minimally invasive surgeries of spine.	
	9. It should provide for attachments of skull traction, limb traction, 3 pin or 4 Pin head frames, horseshoe attachments in supine, lateral, prone positions as well as of connection brackets for beach chair /sitting positions.	
	10. Tabletop should be completely without x ray interfering cross bars and should be radiolucent and scratch proof. The Supplier shall provide full carbon components for 360 degree radiolucency for the above mentioned surgeries.	
	11. It should be compatible with C arm, O arm and mobile CT.	
	12. The side rails should be metal free to be compatible with 3D C arm capturing.	
	13. Mattress should be moulded, seamless, anti-static, anti-decubitus, latex free & durable. It should be attached to top with pins and not Velcro and should be easy to clean.	
	14. Weight capacity – at least 225kg in all positions, static capacity 350 kg or more	
	15. Length 1890 mm or more	
	16. Width-500 mm or more	
	17. Minimum height- 620 mm or lower (with table too)	
	18. Maximum height- 1000 mm or higher (without table top)	
	19. Lateral tilt 18 degrees or higher	
	20. Trendelenburg /reverse ingred	
	21. Back up +80" or higher, back down -60 or lower	
	22. Description on /down -logor /spc /-spc	
	23. The table should be equipped with a completely independent electronic back up drive unit operated through the override panel.	
	Fully charged battery/ies should be sufficient for weekly operative schedule i.e approximately for 50-80 operations. The central column /base and handheld controller should indicate the charging status and table battery status.	
	1. Latest type of LCD/LED backlit/TFT screen on hand held controlled displaying each selected position of the table, memory features and similar features should be available on override control panel.	
	2. All table positions like height, lateral tilt, kidney position, Trendelenburg and reverse Trendelenburg and flex/reflex and zero levelling should be obtainable using remote hand held controller without moving the patient.	
	3. Should have automatic 0 / 'table level' position switch on handheld controller.	
	1.5. should have automate by Table level position switch on Hallman Controller. 5. R5-23 or for for device control & computer assisted error diamonis for easy service is preferable.	
	13. IN 29-22 port to Leving outron a computer assisted error diagnosis for easy service is prefer adule. Neurosupida attachments to be provided one set	
	1. Light weight Radioloucent/carbon fibre spinal attachment for use with OT table having adjustable wing sets to fit wide varieties of patients (weighing capacity 180 kg or higher) and to obtain decompressed abdomen and postural control for	
	various kinds of surgical intervention in prone and lateral positions. Standard wing sets as well as those contoured for breasts should be supplied in addition.	
	Attachment should not have any member near the floor between the table and head end to provide unlimited and free access to C arm.	
	Height of attachment must be adjustable to achieve multiple positions such as flexion, extension, spondylolisthesis surgery etc.	
	Patient positioning should be possible in prone (facedown) & in radiolucent 3 Pin frame (DORO/Mayfield) attachment & prone head positioner, in versatile and easy manner.	
	Removable and radiolucent table top(s) with mattress/foam pad when wing sets are not in use and patient in supine position.	
	Disposable covers for wing sets for patient comfort and safety –qty 100	
	Attachment should be easily portable from one OR to other, and storage should be possible in small space.	
	2. Radiolucent May field/DORO skull clamp with modular fixation system- swivel adapter and long transitional member-one complete set including table attachment with storage container/s.	
	Skull pins (reusable, autoclavable) adult 6, Pediatric 6	
	Radiolucent disposable pins adults-12, pediatric-12	
	- Accessories for park bench positon-one set	
	Accessories for sitting position- one set.	
	3. Radiolucent head rest (horseshoe) with traction device- one adult, one paediatric	
	4. Accessories for knee chest position- one complete set.	
	5. Lightweight, radiolucent, flat bottom chest rolls- large – one pair; medium size- one pair.	
	6. Arm positioning support with radiolucent pad and clamps- one pair	
	7. Lateral side support with clamps- two pairs	
	8. Body restraint strap- 2 (one large, one extra large)	
	Solve State and a state of the sample of the	
	15. reaseu secrere em suppor veni camp-1 10. Light weight Head ring: [ge pad type]- adult one- pediatric one	
	10. Upp: weight riesu ring: [get plus (typer pount view points, which points are points with the points are points and in the points are points and in the points are points are points are points are points are points. The points are points.	
	11. Oet paus-atim protector's 1 pair, sacrai pau = 1, neen pau-two pairs, kniee paus-two pairs, universal positionier-two. Operating Environment	
	Uperating Environment. The product Offered shall be designed to be stored and to operate normally under Climate. Temperature Humidity, etc. for Sudan.	
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	Standards and Safety Requirements	1
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate.	I .
	User Training	I .
	Must provide user training (including how to use and maintain the equipment).	I .
	Warranty	I .
	Comprehensive warranty for 2 years after acceptance.	I .
	Maintenance Service During Warranty Period	I .
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	İ
	Documentation	
	User (Operating) manual in English.	I .
	Service (Technical / Maintenance) manual in English.	i -
1	List of important spare parts and accessories with their part numbers and costing.	1

135 Diathermy Machine

		T.
No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
II	Model No.:	
	Country of Origin:	
	Description of function	
	Diathermy Machines are used for surgical cutting and for controlling bleeding by causing coagulation (haemostasis) at the surgical site	
	Operational Requirements	
2.1	It shall operate on AC power supply in the operating theatre.	
3	System Configurations	
3.1	Diathermy Machine (Electrosurgical unit) 300W with complete accessories.	
4	Technical Specifications	
4.1	Solid-state/microprocessor-controlled frequency generator.	
4.2	Monopolar and bipolar outputs, electrically isolated from ground.	
4.3	Minimum output frequency is higher than 320kHz.	
4.4	Monopolar modes include pure cut, blend, and coagulate (soft, contact and spray).	
4.5	Bipolar mode includes coagulate and cut mode.	
	Maximum monopolar cut power output maximum 300 W.	
	Maximum monopolar coagulation power output maximum 100 W.	
	Maximum bipolar power output maximum 100 W.	
	Hand switch mode when button-activated probes are connected.	
	Foot switch that can operate in monopolar and bipolar modes.	
	Yellow buttons/pedals for cut and blue buttons/pedals for coagulate.	
	Grounding parties not extend monitored for patient connection.	
	Front panel allows mode selection, power settings and on/off.	
	Display shows output power exercises merrors and electrode failure.	
	Supply states using prices State of the st	
	Nucleinate since only experience of the control of	
	Audulus aliu visuai muutatus oi attivatuui aliu alaimis. Self-test mode.	
	Sen-es in use. Frotestin use as in season of the first o	
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	The unit state come were usegined to it the generator wind drawers for keeping the accessories. Accessories, Spare Parts and Consumables	
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	Au standard accessories; consumative; parts required for the proper operation of the above item shall be included in the other. In Foot switch, two pedia, yellow and blue, with connecting cable.	
	2 x Grounding pad/return electrodes, reusable, with 3m connecting cable (adult & child).	
	2 x Monopolar electrode handle, reusable, foot switch controlled, with connecting cable.	
	2 x Monopolar electrode handle, reusable, finger switch controlled, with connecting cable.	
	1 x Set different monopolar reusable electrodes (needle, Knife, ball, and Wire loop).	
	2 x Bipolar forceps, reusable, foot switch controlled, with connecting cable (short, straight, tip-angled).	
	2 x Bipolar forceps, reusable, foot switch controlled, with connecting cable (long, straight, tip-angled).	
	1x Trolley on 4 antistatic swivel castors, 2 with brakes, fit with a drawer and storage for foot pedal/switch	
	Operating Environment	
	The unit shall be capable of being stored continuously in ambient temperature of 10°C -60°C and relative humidity of 30-90%	
	The unit shall be capable of operating in ambient temperature of 10°C-40°C and relative humidity of 30-75%	
	Power supply	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	IEC 60601-2-2 Medical Electrical Equipment – Part 2-2: Particular requirements for the safety of high frequency surgical equipment	
9	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	
9.1	users.	
10	Warranty	
	Comprehensive warranty for 2 years.	
	Maintenance Service During Warranty Period	
	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
	Decemberation User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy) User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Oser Cyperaning internal in English Should provide 2 sets/instructory and soft-copy) Service (Technical / Maintenance) manual in English Should provide 2 sets/instructory and soft-copy)	
	Service (recurrent) representative management and according to the control of the	
	ast or important spare para, accessories and consumation part numbers and costing.	

136 Operating Table

No.	Item Soecifications	Fill your Specification
	Manufacturer Name:	Fill your Specification
	wanuscurer name: Model No.:	
	wider no.: Country of Origin:	
	COUNTY OF ORDIN	
	DESCRIPTION OF PURICUIDS WHATABUL OPERATING TABLES are simple tables for performing surgical procedures and it works without electrical power.	
	ryurauni operating tautes are snippe tautes for performing surgical procedures and it works without electrical power. Operational Requirements Operational Requirements	
	Operational requirements are requirement of the superation of the	
	Of Tables 5 required to general surgery and shall have x-riary distributent dups. System Configuration	
	yssem uniquiration Operating Thydraulic with complete accessories.	
	Uperating 1 abite Hydraulic with complete accessories. Technical Specifications	
	recrinical specimizations Tensification Specimizations Tensification Specimizations Tensification Specimizations Tensification Specimizations Tensification Specimization	
	The table shall be mobile on castors with efficient braking system for stability during surgery.	
	Table top must be constructed from a high-pressure laminate to permit x-ray penetration and fluoroscopy.	
	All table positioning, i.e., height, back section, lateral tilt, trendelenburg, and anti-trendelenburg, except foot and head section must be operated hydraulically.	
	Shall have a manual position selector, whose location must be interchangeable between foot and head end.	
	The casings on the frame and centre supporting column must be made of hygienic stainless steel.	
	Mattress must be radio lucent and suitable for fluoroscopy.	
	Dimensions (approx. +/- 10 % variations):	
	B Height: 730-1040 mm.	
	B Side tilt: + 15 degrees	
	B Back section adjustment: - 15 degrees to 70 degrees	
	BFoot section adjustment: -90 to 0 degree, detachable.	
	BTrendelenburg: 25 degree.	
	₫ Anti trendelenburg: 25 degree.	
	☐ Head section adjustment: -40 to -30 degrees, detachable.	
	B Maximum width: 555 mm.	
	Blength: 1950 mm.	
	Accessories, spares and consumables	
	Accessories:	
	🛮 Padded arm rest with straps: pair with damps.	
	B Anesthesia screen with clamps.	
	If Side supports: pair with clamps.	
	© Knee crutches: pair with damps.	
	®X-ray cassette tray.	
	₫ Kidney bridge.	
	₫ SS bowl with clamps.	
	Binfusion rod with clamp.	
	© Legs Support.	
	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.	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	

10.1 During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11 Documentation	
11.1 User (Operating) manual in English.	
11.2 Service (Technical / Maintenance) manual in English.	
11.3 List of important course and according with their and according	

137 Delivery Table

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	1
=	Model No.:	
III	Country of Origin:	
1	Description of Function	
1.1	Delivery bed is used for Baby Delivery and must incorporate ideal blend of the patient's individual requirements on comfort and the professional needs of the delivery team, focusing on the aesthetic and functional design of the entire product.	
	Operational Requirements	
2.1	Manually operated delivery bed.	
3	System Configuration	
3.1	Delivery Bed with complete attachments and accessories.	
4	Technical Specifications	
4.1	It must have manual adjustments for height and back positions.	
4.2	It must have collapsible side rails.	
	It must have three sectional mattresses and seat section must have large perennial cut.	
4.4	It must have head board which can be detached.	
	Must have wheels provided with locking system.	
4.6	Must have retractable foot section so as to convert bed into table.	
	Must have infusion rods which have adjustable heights, quick release and attaches to all corners of bed.	
	Must have adjustable leg rests.	
4.9	Must have push grip handles.	
4.10	Must have sliding stainless steel bowl at perennial part of table.	
4.11	It must have catheter bag holder which can be attached on either side of bed.	
4.12	It must be able to give trendelenburg, reverse trendelenburg and 70 degree sitting position.	
	It must have adjustable foot supports.	
4.14	It must be easy to maintain clean and sterilize (especially blood stains).	
4.15	Frame must be (washable) stainless steel.	
4.16	Dimensions (approx.):	
	BLength: 7 feet	
	® Width: 3 feet	
	Capacity load of 180 kg or more	
	Accessories, spares and consumables	
	All standard attachments and accessories: 01 set	
	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.	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Climate, Temperature , Humidity , etc. for Sudan.	
	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
8.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	

Į	Electric Operating Table	
No.	Item Specifications	Fill your Specif
	Manufacturer Name:	riii your specii
	Model No.:	
	Country of Origin:	
	Commy to origin. Fechical Specifications	
	General features	
	venietai rietuvies venietai rietuvies file quoted system should be based on electro hydraulic technology.	
	The table should either be eccentric or with central column. The tables with central column should allow sufficient motorized slide of at least 310 mm to permit full upper body imaging including the	
	needs without having to move the patient (transitional facility controlled by remote led).	
	The table should be sturdy, mobile with padded divided (split leg) foot section.	
	All tables sections except the section attached to the pillar should be quickly detachable using easy latch mechanism to suit all surgical needs.	
	Head plates and leg plates should be interchangeable.	
	The table should be made of high quality stainless steel with space to provide comfortable leg space to the surgeon while operating.	
	The base column should have telescopic cover of stainless steel and should prevent the ingress of fluid in the system.	
	All metal components of the table should be made up of corrosion resistant aluminum or stainless steel alloys.	
	The table should have heavy duty antistatic swivel castors with central electric/ hydraulic locking through hand held controller for easy maneuverability. It should have self-leveling floor locks.	
	Brakes, wheels for 360 degree rotation or rotation for cleaning and avoiding equipments with motorized auto drive for efficient patient transport.	
	All table top section should be quickly detachable and inter chargeable as per need of surgery.	
	Should have facility to invest corselte tray through tunnel under table.	
	Moulded seamless mattress attached to top with pins (not Velcro) preferably.	
	Should have facility to change orientation of table (Normal and Reverse mode).	
	Should have single switch operated flex, reflex and 'O' position.	
	Weight load capacity	
	Should have safe patient weight load capacity of at least 225 kg in all table positions. The STATIC patient weight capacity should be 400 Kg or more.	1
	Table top and mattress	
	o The table top should be made up of scratch-less X-Ray/C-arm translucent material.	
	o Mattress should be double layered, more than 70 cm, ultrasonically sealed and anti-	
	decubitus/antistatic, with easy Velcro free fixation/Velcro and should be easy to detach from the top.	
	o The mattress should be easy to clean	
	o The mattress should be latex and CFC free and 100% hygenic	
	Power and Controls	
	o The table should be equipped with a completely independent electronic back up drive unit operated through the override panel in case of failure of Main drive.	
	o Fully charged battery should be sufficient for weekly operative schedule i.e approximately for 80 operations.	
	The central column /base and handheld controller should indicate the charging status and table battery status.	
	o All table positions like height, lateral tilt, kidney position, Trendelenburg and reverse Trendelenburg	
	and flex/reflex and zero leveling should be obtainable using remote hand held controller without moving the patient.	
	o Should have automatic 0 position switch on handheld controller.	
	Latest type of LCD/LED backlit screen on hand held controlled displaying each selected position of the table and similar features should be available on override control panel.	
	Fast "Memory" options for moving to previously stored position on Remote control.	
	10 free programmable memory positions for patient positioning	
	2.40 tee plog animative memory positions on patient positioning. (Fechical Specialisative memory positions on patient positioning terminative memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory positions on patient positioning memory	
	S Overall length Specimenton. An enaminetr's should be within anowed: 2 Ar variation limits.	
	Owax Width: 250-600m (With side rails)	
	Vinia. Vinit. 3.00 - Godini (Vini sacrais) Minimum hejiri. 600mm - 760 mm	
	o Mananum regici. 1000mm - 750 mm	
	· maximum regizit - godornin - 12-12 min	
-		
	Trendelnhurg: 25 degree or more.	
	o Anti-Trendelenburg : 35 degree or more.	
_	Power input to be 220-240Vac, 50HZ fitted	
	o The quoted equipment should be having ISO, CE and FDA certification.	
	o All technical specification accepted in compliance statement must be supported by the printed literature from the manufacturer.	
_	Accessories	
_	o In case the table is imported the accessories must also be imported with the table and must not be locally sourced.	1
	olt should have on-table Gl endoscopy (upper and lower) attachment.	1
	o It should have all attachments for mounting Thompson retractor.	
	o Allen stirrups (preferably hydraulic).	
	o Lloyd-davis stirrups (preferably hydraulic).	
	o Brake pedal – should be single lever foot operated.	
	Should be supplied with following standard Accessories:	
	o Anesthesia screen and pair of padded Armrest with clamps.	
	p Pair of leg plates with padding	
	o Pair of Body strap for kidney position.	
	o Backlighted Hand control	
٦	Tolkiers should be considered, without one interfering consideration and should be confident to the constant of the constant o	
	Tabletop should be completely without x ray interfering cross bars and should be radiolucent and scratch proof. The supplier shall provide full carbon components for 360 degree radiolucency for the above mentioned surgeries.	
\neg	t should be compatible with C-arm.	
	The side rails should be metal free to be compatible with 3D C-arm capturing.	
	Mattress should be moulded, seamless, anti-static, anti-decubitus, latex free & durable> It should preferably be attached to top with pins and not Velcro and should be easy to dean.	
	Warranty Warran	
-	warramy Comprehensive warranty for 2 years from acceptance.	1
-		1
	Maintenance Service During Warranty Period	+
	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.	-
	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.	1
	Documentation	1
	User (Operating) manual in English	
	USEN COPERATING THAT IN EXPIRED THE CONTROL OF THE	

139 Patient Monitor Full Parameters Fill your Specification Item Specifications No.

| Manufacturer Name:
|| Model No.:
|| Guntry of Origin:
|| Country of Origin:
|| Description of Function
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| Description of Function
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| Descrip 1. Scarcing formation in the property of the p 9.1 (Comprehensive warranty for 2 years from acceptance.

10 Maintenance Service Durine Warranty Period

10.1 Uuring the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.

11. Installation and Commissioning

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

12.1 Decumentation

12.1 User (Operatine) manual in English

12.2 Service (Technical / Maintenance) manual in English

12.3 List of important spare parts and accessories with their part number and costing.

140

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- II	Model No.:	
III	Country of Origin:	
	Technical Specifications	
	BP Handle standard No.4 QTY:2	
	Debakey Forceps plain 8" traumatic tissue QTY:4	
	forceps 2,0 mm straight. QTY:4	
	Debakey Forceps nontoothed 6'A "(2mm) QTY:2	
	atraumatic tissue forceps QTY:4	
	Adson Forceps plain 5"/12 cm QTY:2	
	Adson Forceps toothed 5"/12 cm QTY:2	
	Metzenbaum Scissors Strt 8" (TC TIP) QTY:2	
	Metzenbaum Scissor Curved 20 cm 8Inch (TC TIP) QTY:2	
	Kocher Artery Forceps Straight 18"-QTY:1	
	Babcock Tissue Forceps 6" QTY:	
	Babcock Tissue Forceps 8 " QTY:	
	Allis Tissue Forceps 6" QTY:2	
	Allis Tissue Forceps 8" QTY:2	
	Artery Forceps Cur 8" long /20cm QTY:4	
	Artery Forceps Cur 6" Medium 15 cm QTY:2	
	Mosquito Artery Forceps Cur 12.5" QTY:4	
	Doyen"s Retractor 80 x S3mm. 8 1/2722 c,m QTY:2	
	Langenback Retractor 11x3Smm 8 1/2"/22 c.m QTY:1	
	Heavy Straight Scissor S.S./Sharp8*/20cm QTV:2	
	Needle Holder 8" & 6"/20 cm &16 cm (TC TIP) QTY:1	
	Kidney Tray 8" S.S. QTY:2	
	Bowl S.S. 6" (medium) QTY:3	
	Green Armytage 8 3/4 " QTY:2	
	Artery Forceps str 6" /15 cm QTY:2	
	Right Angle Artery Forceps MIXTER 8"/20 cm QTY:1	
	Sponge Holding Forceps 10" & 6" /18cm QTY:4	
	Suction Tip Pool Straight 10mm S.S. QTY:1	
	Cross Action Towel Clips Backhaus 3" QTY:4	
	Wrigley Outlet Forceps QTY: 1pair	
	Silicone vaccum cup (medium/large) QTY: 1pair	
	Baby tray 20 x 16 x 3 inches, thickness 0.5 mm with rounded edges & without sharp. QTY:1	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
	Comprehensive warranty for 2 years.	

141 Vessel Sealing Machine

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	1
- 1	Model No.:	
II	Country of Origin:	
	Technical Specifications	
	 System should be a single generator that provides Ultrasonic energy and Advanced RF energy technology for soft tissue dissection and vessel sealing 	
	- System should have a universal connector to connect Ultrasonic energy and Advanced RF energy instruments.	

$\overline{}$		
	- System should have automatic instrument recognition.	
	- System should have a touch screen display for fast and setup, operation and on-screen diagnostics.	
	System should have the ability for software updates via USB memory stick.	
	System should conform to the following international standards EN (IEC) 60601-1, EN (IEC) 60601-1-2, EN (IEC) 60601-2-2, EN (IEC) 60601-1-8	
	- System should provide Class 1 protection against electric shock	
	System should have a single footswitch operating ultrasonic energy or advanced RF energy instruments	
<u> </u>		
<u> </u>	System should have the ability to select handswitch or footswitch activation or both for Ultrasonic and advanced RF energy instruments and the ability to change selection during use	
Ь—	System should not have minimal lateral thermal spread more than 1 mm.	
	System should have standby mode to ensure safety.	
	· System should come equipped with system diagnostics and troubleshooting guide to pin point any problems in the systems & onscreen warning display system for generator overheating, handpiece errors and instrument errors	
	System should be able to power ultrasonic energy instruments with 55.5 KHz frequency and have the ability to power ultrasonic energy instruments in the frequency range of 30-80 KHz in future	
	The hand piece for the system should come with an inbuilt transducer.	
_	System spece to the system and under control and instruction of the control and instruction o	
	- System should be compatible with both 5mm and 10mm instruments.	
	System should have at least 5 power settings levels with power level display for ultrasonic energy instruments.	
	- System should be able to power energy instruments with microprocessor controlled bipolar electrosurgical radiofrequency technology with a quasi-sinusoidal forced impedance output.	
	 System should be equipped with smart advanced RF energy technology to measure the tissue impedance and control the power delivery. 	
	- System should be equipped with advanced RF energy technology that can simultaneously seal and transect vessels up	
	to and including 7mm, large tissue pedicles and vascular bundles.	
	to a inuncuoming mining, large ussue pecures airu vasue de financia di uniques. System bould be equipped with advanced RFe energy technology that provides temperature controlled energy delivery which should maintain tissue temperature approximately at 100 degree Celsius.	
_		
	System should have Advanced RF Energy hand instruments with a unique electrode configuration to minimize the lateral thermal spread.	
	- System should have Advanced RF Energy hand instruments with technology to deliver high compression uniformly across seal area.	
	 System should have Advanced RF Energy hand instruments that provide tissue / vessel seal strength to withstand bursting pressure of 7 times the systolic pressure. 	
	All hand probes for open and lap procedures should be able to simultaneously cut and coagulate tissues.	
	- System should be able to seal & cut up to 7 mm vessels with ultrasonic energy technology.	
	System should comprise of the following Hardware: System should comprise of the following Hardware:	
_		
_	1 Generator	
	2 Footswitch & Cable Accessories:	
	1 Handpiece (Transducer)	
	2 Generator Cart	
	3 Adaptors for ultrasonic and advanced RF energy instruments	
	RF Energy Instruments:	
	1. Hand probes of 5mm shaft diameter for laparoscopic procedures with round tip (5mm tip width) with shaft length 35cm with 55 degree articulation each side and should be both hand & foot activated, device should be able to simultaneously cut	
	and coagulate tissues-6 piece	
_		
_	Ultrasonic Energy Instruments:	
_	1. 9cm shaft & 17 cm shaft, curved, tapered tip for precise dissection, seals 5 mm vessels, as well as lymphatic with16 mm active blade & 240-degree activation, triggers support multiple hand positions – 6 Pc Each	
	2. Smm Hand Activated Curved Coagulating Shears capable of sealing blood vessels upto 5mm in diameter with 23 cm shaft length, ergonomic handle – 6 Pc	
	3. 5mm Hand Activated Curved Coagulating Shears capable of sealing blood vessels up to 7mm in diameter with 36cm shaft length with adaptive tissue technology, ergonomic handle- 3 Pc	
	consumables to ensure the same.	
	Operating Environment	
	The system offered shall be designed to operate normally under the conditions of Sudan. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Standards and Safety Requirements	1
	Must be USFDA, CE (93/42 EEC Directives), UL or TUV approved product.	
	This unit shall be certified to meet ISO9001 and/or ISO14971 and/or ISO 13485:2003/AC: 2007.	
	Shall meet IEC-60601-1-2:2001General Requirements of Safety for Electromagnetic Compatibility or must comply with 89/366/EEC; EMC directive	
	Electrical safety conforms to standards for electrical safety IEC 60601-1 (General requirement for Electrical safety of Medical Equipment).	
	See Training	
	User I raining Must provide user training (including how to use and maintain the equipment).	
\vdash		
<u> </u>	Warranty	1
<u> </u>	Comprehensive warranty for 2 years from acceptance.	
	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	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.	
	The broker into a range for the equipment to be installed and commissioned by certined or qualified personner, any prerequisites for installation to be communicated to the purchaser in advance, in detail. Documentation	
		
<u> </u>	User (Operating) manual in English	1
<u> </u>	Service (Technical / Maintenance) manual in English	
Ш	List of important spare parts and accessories with their part number and costing.	
_		_

142 Complete Mortuary Unit

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
	Technical Specifications	
	1. General	
	a. Designed for long storage of cadavers.	
	b. Proper design ensuring best hygiene.	
	c. Energy Efficient.	
	d. Sturdy Construction	
	e. Light Weight	
	f. Low Maintenance.	
	2. Body of the Mortuary Chamber	
	a. Mobile with brakes for castor wheels.	
	b. Corrosion free exterior and interior.	
	c. Double walled cooling units.	
	d. Outer shell constructed of thick steel sheets of type 304-SS grade	
	e. The inner chamber to be of heavy gauge stainless steel sheet of SS-304 grade.	
	f. The 100 mm gap between the walls to be filled with high grade polyurethane insulation, ensuring maximum thermal efficiency. Puff density should be 40kg/cu m.	
-	g. The doors to be made of stainless steel for extra protection and long life.	
	h. The doors should be connected by sturdy heavy duty chrome plate hinges and fitted with hard chrome plated lubricated latches for opening the door. Individual standard key lock for each chamber.	
	i. All the doors to be fitted with high quality triple point neoprene rubber gaskets for air tight fittings and magnetic closure fittings and lock.	
	j. Washable interiors with channel for water outlet that can be plugged with rodent resistant material.	
	k. Vapour proof lamp inside	
	3. Body Trays	
-	Sturdy, proper loading body trays, with telescopic sturdy castors and castor locks to prevent rolling out of the tray.	
-	4. Dimensions	
-	Width - 1194 mm + 10 mm. Depth - 2362 mm + 10 mm. Height - 1745 mm + 10 mm.	
-	Height with cooling unit – 2215 mm + 20 mm.	
-	5. Temperature & Controls:	
-	a. Microprocessor based temperature control.	
-	b. Temp range +2 to +8°C	
-	c. Digital LED display. Touchpad data entry for adjustable temperature and alarm settings.	
-	d. Audio visual alarm for high and low temperature e. PUF insulation	
-	e. PU insulation f. Efficient condenser with automatic evaporating system (condensate).	
-	T. Etticient concenser with automatic evaporating system (concensate). R. Forced air (crudation system R. Forced air (crudation system)	
	g. Force air circulation system h. Automatic defrostinie system.	
	II. Automate derivsing system. Operating Environment	
	Uperating crimformers. The system offered shall be designed to operate normally under the conditions of Sudan. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
	Ine system ordered shall be designed to operate normally under the condutions of Sudan. The condutions include Power Supply, Llimate, Temperature, Humidity, etc. Power supply, 220 – 240 VAC, 50th Effed with appropriate plug. The power cable must be at least 3 meter in length.	
-	POWER SURDING Z.CU — ZAU D.A.C., SUPER TITLED WITH DEPOWER CADILE MUST BE ATTEMPT. STANDARD AND ASTERDARD STANDARD STAN	
-	Xanoaros ano sarety Negurement Must be USFDA, CE (89)/366/FCCT; EMC-Directive), UL or TUV approved product.	
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	This unit state use trained to these consistency of the state of the s	
	Johan Intel 1.C-000279-2.20020eneral requirements of James vin Centrol (Company) and the Company of Centrol (Company) and the Centrol (Company) and	
	Lecura salety commiss to standards for electrical salety ICC 00002*2 (General requirement for Electrical salety of Websital Equipment). User Training	
	Must provide user training (including how to use and maintain the equipment),	
	mass protes user during meaning from a use and manifest are equipments.	
1	working. Comprehensive warranty for 2 years from acceptance.	
	Compensative Warning Vol. 2 year with deceptions. Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	During the war and Commission authorities and the control of the c	
	instantion and communication in the state of 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.	
	Documentation	
	User (Operating) manual in English	
	Service (Technical / Maintenance) manual in English	
	List of important spare parts and accessories with their part number and costing.	
	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

143	K Wire System

N	No.	Item Specifications	Fill your Specification
	_	Manufacturer Name:	
	=	Model No.:	
	Ξ	Country of Origin:	
		Technical Specifications	

Aluminium Case, perforated	
Drill Bit, 2.0mm dia., for quick coupling	
Triple Drill Guide 2.0 with 3 holes, opposite side 1 hole	
Wire Passer, bending diameter	
Wire Passer, bending diameter	
Wire Tightener with handle and two pegs	
Holding Forceps for Cerclage Wires	
Wire Bending Pliers	
Parallel Pliers, flat nosed	
Wire Cutter, large for 3.0 to 4.0 mm wire	
Wire Cutter, short	
Bending Iron, for Kirschner Wires 1.25 to 2.5mm dia.	
Bending Iron, for Kirschner Wires 0.8 to 1.25mm dia.	
Cerclage Wire, 1.0mm dia., with approx. eye	
Cerclage Wire, 1.25mm dia., with eye	
Standards & Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
Warranty	
Comprehensive warranty for 2 years	

144 Floating Water Sath

No	Item Specifications	Fill your Specification
	Manufacturer Name:	
	II Model No.:	
	Il Country of Origin:	
	1 Technical Specifications	
	1. Water Bath Dimensions, inner (mm) 235 x 175mm Approx	
	2. Temperature range of 30°C and 99°C.	
	3. Selectable blue and white LED backlighting with dimmer control.	
	4. Easily removable/ replaceable LED light array.	
	5. Convenient slide drying area at rear of the bath.	
	6. Minimal workbench space.	
	7. Ultra-fast heating system.	
	8. Anti-bacterial powder coating finish.	
\perp	9. Digital temperature control accurate to ±01°C and 45°C.	
\perp	10. Miniature circuit breakers.	
	2 Accessories, spares and consumables	
	1 All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
\perp	3 Operating Environment	
3	1 The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
3	2 The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
_	4 Power supply:	
4	1 Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
\perp	5 Standards and Safety Requirements	
	1 Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
	2 CE or USFDA or TUV approved product certificate.	
	6 Training	
	1 Must provide user & service training.	
	7 Warranty	
	1 Comprehensive warranty for 2 years after acceptance.	
	1 Maintenance Service During Warranty Period	
	1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	2 Documentation	
	1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	2 Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
7	3 List of important spare parts, accessories and consumables with their part numbers and costing.	

NO.	item specifications	Fill your Specification
- 1	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Description of Function	
	Suitable for separating plasma from all types of blood collection bags.	
2	Operational Requirements	
	Plasma Extractor (Plasma Separation Stand) complete system.	
3	Technical Specifications	
	Automatic control system	
	automatic separation of blood components from the blood bag.	
	acrylic Pressure Plate	
	Audiovisual alarm	
	Compression plate designed to exert uniform pressure on the blood bag.	
	Power supply: 220-240V/ 50 Hz AC Single phase with appropriate plug. The power cable must be minimum 3 Meter	
4	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).	
5	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6	Standards, Safety and Training	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate.	
7	User Training	
	Must provide user training (including how to use and maintain the equipment).	
8	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
9	Installation and Commissioning	
	Supplier must accomplish proper installation & commissioning of the equipment on site.	
10	Documentation	
	User (Operating) manual in English	
	Service (Technical / Maintenance) manual in English	
	List of important spare parts and accessories with their part numbers and costing.	

146 Donor Chair

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- II	Country of Origin:	
1	Description of Function	
	Blood Donor Couch is a completely automatic enveloping, variable tilt chair and specially	
	designed to make blood withdrawals easier, safe and functional, and also for otherdiagnostic and therapeutic areas	
- 2	Operational Requirements	
	1) Provides a comfortable position for the donor.	
	2) Variable positioning for either arm with Comfortably wide armrests.	
	3) Armrests have swinging out as well as up and down moving facility.	
	4) Reclining and upright body positions with a smooth shifting to any position.	
	5) Both sides have supporting brackets.	
	6) Drawers provided for the upkeep of equipment & consumables.	
	7) If a vasovagal attack occurs the Donor's head needs to be lowered immediately and	
	his legs lifted above his heart level so that blood can flow back to the brain and other	
	vital organs. This facility should be available	
3	Technical Specifications	
3.1	Comfortable chair type with soft padding for cushioning and rexin cover.	
	Seat, back rest and leg rest size designed for donor comfort. It should have step less electric remote controlled height adjustment.	
3.3	Adjustable arm rest for donor's comfort and phlebotomist friendly	
3.4	Easily tilted to head low position, electrically operated	
	Comfortable working level for the operator. Lifting capacity - Approx 200 kg.	
3.6	4 Lockable castors for easy mobility	
3.7	Storage Drawers for storing consumables & Blood Collection Monitors	
	UP/DOWN control	
	System Configuration Accessories, spares and consumables	
	Donor Couch -01	
4.2	Dust Cover -01	
4.3	Power cable -01	
4.4	Arm Rests (pair) -01 pair	

4.5 Remote control -01	1
5 Operating Environment	
The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6 Standards, Safety and Training	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA approved product certificate.	
7 User Training	
Must provide user training (including how to use and maintain the equipment).	
8 Warranty	i
Comprehensive warranty for 2 years after acceptance.	
Maintenance Service During Warranty Period During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
9 Installation and Commissioning	
Supplier must accomplish proper installation & commissioning of the equipment on site.	
10 Documentation	
User (Operating) manual in English	
Service (Technical / Maintenance) manual in English	
List of important spare parts and accessories with their part numbers and costing.	1

147 Fully Automated Elisa

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	,
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	Should be fully automatic, able to support all plate formats U bottom, V bottom and flat bottom 96-well micro plates.	
	PC based system.	
	Optical systems: LED lamp/ UV Xenon flash lamp.	
	Detection: Absorbance based.	
	Reading Time: <15 Seconds for 96-wells.	
	Wavelength range: 340nm to 750nm or more.	
	Wave length selection should be double monochromatic with 1nm increment	
	System should have capability to do qualitative, quantitative, kinetics with any formulae includine validation, transformation, and factors and floating cut off.	
	Absorbance Range: Globality of a Quantitative, varieties manual retribute meaning transition, and record site including contribute and the contrib	
	Resolution: 0.001 Abs.	
	Accuracy: 1% +/- 0.010 OD	
	Repeated 1117	
	System sysual perform self-check before every measurement	
	Power requirements: 220V-50/60Hz	
	PC Requirements (All in one PC): Intel core i7 processor, 4 GB RAM, 2 GB graphic, 1 TB hard disc, Full HD LED monitor 17", DVD writer, Wi-Fi, Wireless key board and mouse, 64 bit and latest version of Microsoft Window, with MS office licensed,	
	Laser Printer (>20pages/min.) >5000pages/refilling of cartridge	
	Inbuilt shaking mode.	
	PC Software packages (windows * compatible) for on board data analysis.	
	ELISA WASHER	
	Fully automatic plate washer.	
	Programmable.	
	Alarm for monitoring the overflow and wash solution.	
	Dispensing and aspirating needles should be separate	
	Washer should have 8 or 12 channel wash head	
	Should have 2-4 independent liquid channels	
	Wash volume Should have residual volume of <2ml	
	Calibration according to NIST/ DKD/PTB/ UKAS/NPL/UL/CUL listed.	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Standards, Safety and Training	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Installation and Commissioning	
	Supplier must accomplish proper installation & commissioning of the equipment on site.	
	Documentation	
	User (Operating) manual in English	
	Service (Technical / Maintenance) manual in English	
	List of important spare parts and accessories with their part numbers and costing.	

148 Hot Air Oven 36L

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Description of Function	
1.1	Hot Air Oven is required for heating a sample under controlled conditions.	
2	Operational Requirements	
2.1	Microprocessor based system with PID-temperature controller with integrated auto diagnostic system with fault indicator.	
3	System Configuration	
3.1	Microprocessor based Hot Air Oven.	
4	Technical Specifications	
4.1	Digital display mode	
4.2	Digital temperature control	
4.3	Capacity:36 litres	
	Forced air circulation by quiet air turbine/Fan to ensure uniform temperature.	
	Fitted with load indicator and safety thermostat take over indicator lamp. LCD/LED indicator.	
	Temperature Variation +/- 1.	
	Temperature Range- ambient to 250 oC	
4.8	Output available for data acquisition.	
5	Accessories, spares and consumables	
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
6	Operating Environment	
6.1	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
6.2	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
7	Power supply:	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Standards and Safety Requirements	
	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND	
	CE or USFDA or TUV approved product certificate.	
	Training	
9.1	Must provide user & service training.	
	Warranty	
10.1	Comprehensive warranty for 2 years after acceptance.	
11	Maintenance Service During Warranty Period	
11.1	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
12	Documentation	
12.1	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy)	
12.3	List of important spare parts, accessories and consumables with their part numbers and costing.	

ACT Machine

No	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
II	Country of Origin:	
	Technical Specifications	
	Equipment for assessment of Activated clotting time (ACT).	
	It should be compact & portable for bed-side testing.	
	It should have inbuilt mechanism to heat the cartridge.	
	Range 37.0.±2 Degree c.	
	It should require less than 2ml of blood for each test.	
	It should be capable of displaying two reports at one time.	
	Hundred cartridges for each test to be supplied with machine.	
	There should be five year warranty of the machine.	
	Measurement range 0-1500 sec.	
	LED/LCD based screen for displaying results (fully digital display screen)	
1 -	Environment-15degree-30degree C.	

Data transfer capability: Printer option available facility to store view multiple patient data.	
· One Button Operation - Easy to Use.	
· Should be US FDA/EUROPEAN CE approved.	
 System should be microprocessor controlled designed to determine coagulation end points in whole blood, Citrated blood and plasma samples. 	
· Dual well testing method.	
· Accepts actalyte ACT tubes with celite, glass bead activator, MAX ACT tubes with blended activator; all international technidyne Hemochron tubes.	
· List of consumables with price frozen for 5 years should be quoted separately.	
· List of users must be enclosed.	
· In case of malfunction/breakdown, the company should provide temporary back-up support within 24 hrs of registering the complaint till the time machine is repaired and returned.	
It should have a battery backup of 2 hrs.	
- Desirable: Rate of Actual Clot Formation (CR, Clot Rate: Thrombin Activity, Low Molecular Weight Heparin Management).	
· Machine demonstration has to be done in the AlIMS, Jodhpur. Time and date of demonstration will be as per department decision.	
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.	
Operating Environment	
The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
Power supply:	
Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
Standards & Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
Training	
Must provide user & service training.	
Warranty	
Comprehensive warranty for 2 years.	
Maintenance Service During Warranty Period	
Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
Documentation	
User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
List of important spare parts, accessories and consumables with their part numbers and costing.	

150 Anesthesia Machine for Pediatric

50	L	Anesthesia Machine for Pediatric	•
_			
	No.	Item Specifications	Fill your Specification
\vdash		Manufacturer Name:	
-		Model No.:	
-		Country of Origin:	h
		Description of Function	
		Anaesthesia Workstation is used for delivering anaesthesia agents to the patients during surgery. The complete unit also monitors the vital signs and ventilates the patients.	
		Operational Requirements	
		Anaesthesia machine complete and integrated with Anaesthesia gas delivery system; Circle absorber system; TEC Vaporisers for Halothane /, Isoflurane / Sevoflurane ; Anaesthesia ventilator. Anaesthesia Gas monitoring with automatic Agent	i
	j	dentification, EtCO2, Patient circuit Oxygenation status FiO2 and EtO2 (using Paramagnetic cell for no recurring cost)	I .
	2.2	ssential accessories to make the system complete and compatible with the existing system of gas outlets.	I .
	2.3	Demonstration of the equipment as per specifications is a must.	I .
	3 1	Fechnical Specifications	
	3.1 F	-low management	i e
	i S	Should be Compact, ergonomic & easy to use	
	111	Machine should provide electronic gas mixing. User should be able to set Fresh Gas flow and FiO2 on the screen. Direct setting of FiO2 should be available to make setting of O2 plus Air flows faster across all flow ranges instantaneously.	i
	ii I	Multi-color Touch Screen TFT display of at least 15" size, with display of flow of O2, N2O or Air. The screen should be movable and angle should be tiltable for better veiwing	1
		Dual flow sensing capability at inhalation and exhalation ports.	
		inould have back-up O2 control which provides an independent fresh gas source and flow meter Control in case of electronic failure.	
		Sas regulators shall be of modular design/ graphic display	
		One no. voice each for Owgen & Nitrous Oxide, Separate Pipeline inlet for Owgen, Nitrous Oxide and Air with electronic pressure gauges to indicate inlet pressures.	
		Electronic Hypoxic Guard to ensure minimum 25% O2 across all O2-N2O mixtures and Oxygen Failure Warning.	ĺ
		Auxiliary flowested for Oxygen	
\vdash			
\vdash	X S	Should have unlockable Oxygen flush to deliver oxygen flow of approximately 40 I/min. Should have facility of delivering basis flow of oxygen on switching on the machine.	
\vdash			
\vdash		single pneumatic/electric on/off switch should activate the gas flow and vaporization. Industrial industrial	
\vdash	z illi	Pendeer to quote individual price of TEC vaporizer for each drug (Halothane, Isoflorane, Sevoflorane)	
\vdash	3.4	reathing system	
\vdash		All parts of the breathing system that are in contact with patient gas should be latex free and autoclavable.	
\vdash		low sensing capability at inhalation and exhalation ports, sensor connections shall be internal to help prevent disconnect.	
\vdash	iii S	should not require tools when dismantled for cleaning and sterilization.	
\vdash		ensor should not require daily maintenance.	
-	v S	should have bag / vent selecting valve integrated onto the absorber and should automatically turn on the ventilator when positioned to ventilator position.	1
		Adjustable pressure limiting valve shall be flow and pressure compensated.	
		standard Circle Absorber System	
		Should have adjustable pressure limiting valve, breathing circuit pressure measuring device.	
	ii S	Should have a bag/ventilator selecting valve integrated onto the absorber.	I
	iii S	Should be suitable to use low flow techniques	ı
	iv S	Should have CO2 absorbent chamber canister	ı
	v S	should have CO2 bypass without any air entrainment or loss of pressure / disconnect	
		/aporizers	
	i١	/aporizer must be isolated from the gas flow in the off position and prevent the simultaneous activation of more than one vaporizer.	
		/aporizer shall require no tools to mount.	
	iii V	Apprizer shall mount to a Selectatec* manifold which allows easy exchange between agents.	
		supplier must offer total vaporizer manufacturing capability-Desflurane, Enflurane, Sevoflurane, Halothane and Isoflurane.	
		Sack bar to accept two selectatec vaporisers	
		Jentilator (Integrated)	
		The workstation should have integrated Anesthesia Ventilator system for adult and paediatric and neonates.	
		Pentilator should be pneumatically driven, electronically controlled and should be ascending beliows/bag in bottle type.	
	:: \	Pentilator should be pireoimatean; univer, election unitary reference of the properties of the propert	
	-"	The control of the co	
		retination should be capable of vermaking diverse range of patient groups from neuralies to patients with restrictive an ways with dual volume range between 20 in to 1500 m with single behave system, with option of behavioring similar neuralian mode.	ı
-			
\vdash	V /	assisted modes of breathing should be flow triggered.	
\vdash		Pentilator shall compensate for fresh gas flow and compliance of the entire circuit dynamically. Ventilator should have a tidal volume compensation capability to adjust for losses due to compression.	
\vdash		The workstation should be capable of delivery of low flow and minimal flow anaesthesia.	h
-	۷iii ۱	Ventilator should be capable of at least 120-150 L/min peak flow to facilitate rapid movement through physiologic "dead space" in the Pressure Control mode.	
-		/entilator should also display waveforms for flow and airway pressure.	h
-		/entilator should display spirometery loops including Flow-Volume and Pressure-Volume curves.	h
\vdash		Display of Ventilator:	
—		Display should be 15 inches with touch screen for easy access to settings.	
—		Display pressure vs time, flow vs time , scalars	
<u> </u>		should display flow volume, pressure volume loops.	-
<u> </u>		thould display respiratory gas monitoring, and anaesthetic agent monitoring. Values should display Automatic Agent indentification, concentration, inspired and expired, Age corrected MAC value.	-
<u> </u>		should be from the same manufacturer as of the anaesthesia system.	-
<u> </u>		Tidal volume (VT))	-
\perp		nspiratory/expiratory ratio (I:E)	
	c I	nspiratory pressure	
	d I	Pressure limit (Plimit)	
	e i	Positive End Expiratory Pressure (PEEP)	
L	4 5	System Configuration Accessories, spares and consumables	
		Anaesthesia Gas Delivery system-01	
		Circle absorber –01	
	4.3	/entilator -01	
	4.4	TEC Vaporizer Sevoflurane -01	
		TEC Vaporizer Isoflurane -01	
		Adult and Paediatric autoclavable silicone breathing circuit each	
	4.7	Accessories Anesthetic gases measurement-01 set	
	4.8	Standard accessories to make all parameters working- 01 set	
		Environmental factors	
		The unit shall be capable of operating continuously in ambient temperature of 10°C - 40°C and relative humidity of 15-90%	
		The unit shall be capable of being stored continuously in ambient	
	5.3	shall meet IEC-05001-1-2: 2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.	
	5.4	nition men. 14. 2007.01. Quantum and yelen(ACS) Anesthetic Gas Scavenging System/Port) should be in place.	
\vdash	5 5 6	pupier will be responsible fit is not ensured at the time of installation	
\vdash		supplier will be neid responsible if this is not ensured at the time of installation Vower Supply Vower Supply	
\vdash		Yower Supply Ower input V be 220-240VAC, 50Hz	
		esettable over current breaker shall be fitted for protection	
		uitable Servo controlled Stabilizer/CVT	
\vdash		The Anaesthesia Delivery system and Monitoring system will have a one hour battery back up.	
\vdash	7 5	tandards, Safety and Training	
		Monitors and Anaesthesia Workstations Should be FDA /BIS/CE approved product.	
\vdash	7.2	Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450	
	7.3	Manufacturer should be ISO certified for quality standards.	

7.4 Certified to be compliant with IEC 60601-2-13-Medical Electrical Equipment	
7.5 Should have local service facility. The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.	
7.6 All components like anaesthesia machine, vaporisers, and ventilator should be only from one manufacturer/principal.	
7.7 Warranty of 2 years.	
7.8 Supplier will assure supply of spares for a minimum period 10 years	
8 Documentation	
8.1 User Manual in English	
8.2 Service manual in English	
8.3 List of important spare parts and accessories with their part number and costing	
8.4 Certificate of Calibration and inspection from the factory	
8.5 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.	
8.6 List of Equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.	
8.7 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.	
8.8 Supplier should have past experience of at least ten years in sales and service of Anaesthesia workstations.	

151 Anterior Cervical Surgical Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
- 111	Country of Origin:	
	Technical Specifications	
	S.S. Tray with lid = 9" x 6" QTY:1	
	S.S. Bowl - medium QTY:1	
	Sponge holding forceps QTY:4	
	SIMS Speculum – Double bladed - large QTY:4	
	Anterior Vaginal wall retractor QTY:1	
	Needle holder QTY:1	
	Artery Forceps - long - 8" - straight QTY:1	
	Artery Forceps - long - 8" - curved QTY:1	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
	Comprehensive warranty for 2 years.	

152 Anterior Spinal Surgical Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	•
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	Angular template 23-26 degrees Qty:1	
	Angular template 29-32 degrees Qty:1	
	Angular template 33-36 degrees Qty:1	
	Anterior body resector 15mm Qty:1	
	Anterior body resector 20mm Qty:1	
	Wide Anterior body resector 20mm Qty.1	
	Anterior body resector 25mm Qty.1	
	Resector Anterior body 34 mm Qty:1	
	Flat nerve root retractor 12mm Qty:1	
	Angled nerve root retractor 15mm Qty:1	
	Vertebral body retractor 15mm Qty:1	
	Vertebral body retractor 20mm Qty-2	
	Vertebral body retractor 30mm Qty:1	
	L-osteotome 8mm x 6mm Otv:1	
	L-osteotome 6mm x 8mm Qty:1	
	Straight osteotome 10mm Qty:1	
	Body reamer small Qty:1	
	Body reamer large Qty:1	
	Distractor (6/8mm) Qty:1	
	Wide Nerve Root Retractor, Long Qty:1	
	Bayoneted Penfield for Long Qty:1	
	Suction tip Lone Oty:1	
	Cannulated Reamer with T-Handle Otv:1	
	Strainght Osteotome - 1/4" Otv:1	
	Strainght Osteotome - 1/2" Qty:1	
	Angled Osteotome - 1/4" Oty:1	
	Angled Cup Curette, Strainght Qty:1	
	Angled Cup Curette, Left Qty:1	
	Angled Cup Curette, Right Qty.1	
	Angled Ring Curette, Straight Hood Qty:1	
	Angled Ring Curette, Angled Hood Oty:1	
	Angled Ring Curette, Bent Hood Qty.1	
	Rasp for end plate preparation Qty:1	
	Rotating Cutter, Straight Ctv:1	
	Rotating Cutter, Curved Qty:1	
	Pull Scraper City.1	
	Push Scrape Ot/1	
	Impacted distancer Smm Qty:1	
	Standards & Safety Requirements	
	Must submit IS013485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty Warranty	
	Comprehensive warranty for 2 years.	

153 Arteriovenous Fistula Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	MAIER FORCEPS W/RCHT CVD260MM.QTY:1	
	BACKHAUS TOWEL CLAMP 110MM, QTY:4	
	TOWEL CLAMP FOR PAPER CLOTHS 115MM QTY:2	
	SCALPEL HANDLE #3 125MM QTY:2	
	METZENBAUM SCISSORS CVD 145MM QTY:1	
	IRIS SCISSORS STR.S/S 110MM QT/:1	
	LA GRANGE SCISSORS SERR 115MM QTY:1	
	JAMESON-WERBER TENOTOMY QTY:1	
	SCISSCVD130MM QTY:1	
	SURGICAL SCISSORS STR S/B145MM QTY:1	
	ADSON TISSUE FCPS FINE W/1X2T 150MM QTY:2	
	DE'BAKEY ATR.FCPS 1.5MM STR150MM QTY:2	
	ULTRA-LIGHT FORCEPS 1.2MM150MM QTY:1	
	MICRO FORCEPS STR SMOOTH 100MM QTY:2	
	MICRO-HALSTED FORCEPS DEL CVD QTY:4	
	HALSTED-MOSQUITO FORCEPS DELSTR125MM QTY:2	
	PEAN ARTERY FORCEPS STR.125MM DEL QTY:2	
	MICRO-ADSON FORCEPS SERR 150MM QTY:2	
	BABY-MIXTER FORCEPS CVD 140MM QTV:1	
	MINI-BULLDOGCLAMP STR.14/35MM QTY:2	
	MICRO ATR.BULLDOGCLAMP ANG.10/45MM QTY:2	
	MUELLER MICRO-VESSEL CLMPSTR50G-FORCE QTY:2	
	MUELLER MICRO-VESSEL CLMPSTR50G-FORCE QTY:2	
	MICRO NEEDLE HOLDERW/O CATCHCVD160MM QTY:1	
	TC RYDER NEEDLE HOLDERX-DELSERR135MM QTY:1	
	TC CRILE-WOOD NDL HLDRSTRSERR 145MM QTY:1	
	VOLKMANN RETR3- PRGBLUNT8X13MM220MM QTY:1	
	DESMARRES RETRACTOR 12X16MM QTY:1	
	DESMARRES RETRACTOR 12X16MM 140MM QTY:1	
	WEITLANER RETRACTOR 2X3 SEMI-S110MM QTY:1	
	DE'BAKEY DILATOR MALL 1.0MM 190MM QTY:1	
	DE'BAKEY DILATOR MALL 1.5MM 190MM QTY:1	
1	DE'RAKEY DIJATOR MALL 2 SMM 190MM OTV-1	I .

DE	BAKEY DILATOR MALL 3.0MM 190MM QTY:1	
DE	BAKEY DILATOR MALL 3.5MM 190MM QTY:1	
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DE	BAKEY DILATOR MALL 7.0MM 190MM QTY:1	
DE	BAKEY DILATOR MALL 9.0MM 190MM QTY:1	
LA	BORATORY DISH 0.16 L QTY:1	
LA	BORATORY DISH 0.3 L QTY:1	
KII	DNEY TRAY STAINLESS STEEL 250MM QTY:1	
Sta	andards & Safety Requirements	
M	ust submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE	(93/42 EEC Directives) or USFDA or TUV approved product certificate.	
W	arranty	
Co	Imprehensive warranty for 2 years.	

<u> </u>	Auditory Brainstem Response (ABR) Machine	
No.	Item Specifications	Fill your Specification
	Manufacturer Name: Model No.:	
1	Country of Origin: Technical Specifications	
	Auditory Brainstem Evoked Response (ABR)/Auditory Steady State Response (ASSR) Brand New and latest Model	
	Can generate good and repeatable wave forms PC control:	
	USB: USB 1.1 or 2.0 for inpul/output for computer communication. USB: USB 1.1 or 2.0 for inpul/output for computer communication. USB: USB 1.1 or 2.0 for inpul/output for computer communication.	
	Construction: Trolley with metal cabinet	
	AUDITORY BRAINSTEM EVOKED RESPONSE (ABR) Preamplifier:	
	Two channels standard: Cable Collector (4 electrodes). Standard 45-55 cm Gain: 8068/6088	
	Frequency response: 0.5 -5000H/Moise: 4nV/MHz. 0.22 μ/ Common Mode Rejection Ratio: Minimum > 118 d8.1 Typical 130 d8 -100 Hz RMS (0 - 3 MHz)	
	Radio frequency immunity: Typically, 20 dB improvement Max input offset voltage: as per manufacturer's specification	
	Input impedance: >10 MΩ Power from main unit: as per manufacturer's specification	
	Impedance measurement: Selectable for each electrode	
	Measurement frequency: 30-1000 Hz Waveform: Rectangular	
	Measurement current: as per manufacturer's specification Range: O.S. (1) – 25 EQ	
	Stimulus: Stimulus Types: Click, CE-Chirp, Tones, CE-Chirp Octave Bands, Speech stimuli, User File	
	Astronomy Press: Classic Country Foreign Country Country Special Summer, Oct. 1 (in.) 1.1 to 100 stimuli per second in steps of 0.1.	
	Envelopes/Windows:	
	Bartlett, Blackman, Gaussian, Hamming, Hanning, Rectangle, Trapezoidal, Extended Cosine and Manual (Rise/Fall and Plateau)	
	Masking: White noise, specific level or relative to stimulus level	
	Calibrated and presented in peSPL or SPL Transducer:	
	Insert plane Headphone with independent calibration	
	TREAD CONTINUE TO THE PROPERTY OF THE PROPERTY	
	Polarity:	
	Condensation, Rarefaction, Alternating. Click: 100 µs (200Hz - 11kHz)	
	Click duration: 100uSec Tone Burst Frequency 250, 500, 750, 1000, 1500,	
	2000, 3000, 4000, 6000 and 8000 Hz. Tone Burst Stimulation Time: Stimulation up to 800ms	
	NB LS Freq; 500, 1000, 2000 and 4000 Hz Broadband LS; 200Hz; -11kHz	
	Relative Masking Level:	
	+30dB to -40 dB relative to stimulus level. Maximum masking levels: Insert phones: 110dB SPL	
	Headphones: 110dB SPL Insert phones: 110dB SPL Absolute Masking Level:	
	088 to 110 d8 SPL absolute I level. Maximum masking Ievels: Insert plones: 11008 SPL Headphores: 11008 SPL Insert plones: 11008 SPL Headphores: 11008 SPL	
	Recording: Analysis Time: -150 ms prior to stimuli and up to 1050 ms	
	A/D Resolution: 16 bit. Sampling frequency: 200.40,000 Hz	
	Artifact Reject System: Standard voltage-based system.	
	Anti-aliasing filter: Internal filter in ADC Dots per Trace: 450 displayed.	
	Low Pass Filter: 20 – 12000 Hz High Pass Filter: 0.1 Hz to 500 Hz	
	DSP Low Pass Filter: None, 100, 300, 750, 1½, 1.5k, 2½, 3¼, 4¼, 5½, 7.5k Hz DSP High Pass Filter: 0.5, 1.0, 3.3, 10, 33, 100 Hz	
	Display Gain: General Display Gain. Applicable during testing.	
	Single Curve Display Gain. Applicable during testing.	
	Controlled parameters: Stimuli Rate, Number of stimuli, Polarity, Click, Tone Burst (Frequency, no. of sine waves, window), Stimulus intensity, Number of curves per intensity, Intensity (Ascending, Descending), Soft attenuator, Stimulus ear, Transducer, Masking level,	
	Preliminary filter setting, Recording onset, Automatic next intensity (Wave repro level on screen), General Display Gain, Single Curve Display Gain, Baseline, Latency norm, Report	
	templates, Print out, Manual stimulus to familiarization, Talk Forward. Data Recovery:	
iii	Lost data due to crash of operating system will in almost all cases be available upon re-establishing operating system operation. AUDITORY STEADY STATE RESPONSE (ASSR)	
	Preamplifier: Two channels standard:	
	Cable Collector (4 electrodes). Standard 45-55 cm. Gain: 80 d8/60 d8	
	Frequency response: 0.5 – 5000 Hz	
	Common Mode Rejection Ratio: Minimum >110 dB. Radio frequency immunity:	
	typically 25 dB improvement over previous available designs Max input offset voltage: as per manufacturers specifications	
	Input Impedance: -10 MD Measurement Fepuency: 30 -35 Hz	
	Waveform: Rectangular Measurement current: 19µA	
	Range: 0.5 KD – 25 KD Stimulus:	
	Stimulus rate: 40 and 90 Hz	
	Masking: White noise 0 – 100 dB SPL Analysis Time: 5-15 minutes	
	Recording: Sampling frequency: 30 kHz	
	Artifact Reject System: Standard voltage-based system Gain: 74 – 110 dB. Auto or Manual selection	
	Channels: 2, with separate detection algorithm Algorithmic Sensitivity: 99% or 95%, false pass probability	
	Rejection levels: Manual 5, 10, 20, 40, 80, 160, 320,	
	640 µV input Anti-aliasing filter:	
	Analog SkHz, 24 dB / octave Display:	
	Independent control of up to 8 simultaneous stimuli (max 4 per ear) Display Gain:	

Independent start, also corrot for each of the 8 stimuli (Corrobbe premieter) (Corrobbe premi	
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*Audio Purified. Voice technology with two built-in microphones. Features include far-field pick-up, keystroke suppression, voice tracking adaptive beam forming, voice recognition enhancement, three pre-defined modes: voice recognition, personal	
	cognition personal
call, conference call	logination, personal
*Compatible with Cortana with voice	
*Two built-in stereo speakers card reader SD Card reader Camera videoconferencing HD webcam with:	
-1280/720 resolution	
-720p HD audio/video recording	
-Super high dynamic range imaging (SHDR)	
-Camera shutter cover USB Type-C port: USB 3.0 Gen 2 (up to 10Gbps)	
*Display Port over USB-C	
*Thunderbolt 4	
*USB charging 5V; 3A	
*DC-in port 20V; 60W	
vii Printer	
Multifunction: Printer, scanner and copier	
Connectivity: USB/Wireless	
Compatible devices: Smartphone PC, Laptop	
Colored laser printer: Supply of toner printer during warranty period	
viii Consumables:	
Ear-Tone All insert Eartips (for neonates, infant and adult) 500 pairs per size	
Independent calibration for TDH39, insert phone, and bone transducer	
Standards conductor of the standard of the sta	
Universal electrode cable	
Universal electrode cable Electrode cable with re-usable electrodes, 1 pc Electrode cable spring, 1 pc	
Electrode cable with re-usable electrodes, 1 pc	
Electrode cable with re-usable electrodes, 1 pc Electrode cable spring, 1 pc	
Electrode cable with re-usable electrodes, 1 pc Electrode cable spring, 1 pc Alcohol pasts Gaure swabs, 100 pcs.	
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Electrode cable with re-usable electrodes, pc Electrode cable serile, pc Alchorl pads Gauce wabs, 100 pcs. Tip trode electrode cable seri (ny) E25] Tip trode gold electrodes 10 pcs, for EcochG Loop Back unit for system performance check Insert Pre-gelled electrodes Insert Pre-gelled electrodes Sectode gel. 1 pallon Escrode gel.	
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155 Autoclave 110L

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
1	Description of Function	
1.1	Autoclaves are required to sterilize objects under high temperature and pressured steam.	
2	Operational Requirements	
2.1	Suitable for hospital dressings, linen, surgical instruments, glassware, culture media and laboratory wares etc.	1
2.2	Horizontal electrically heated autoclave is required.	1
3	System Configuration	1
3.1	Autoclave for CSSD (Central Sterile Services Department) approx. 110 L , stand alone .	i .
4	Technical Specifications	
4.1	Single door high pressure steam sterilizer with double / triple walled, steam jacket and separate boiler	
4.2	Material of construction:	
	B Sterilizer chamber SS 316	
	B Door SS 316	
	因 Jacket Stainless Steel	
	B Loading carriage SS 316	i -
	B Door Gasket : Silicon or better	i -
	B Insulation: fibre glass re≰n bonded wool or better	i -
	Binsulation cover: SS sheets	i

4.3 Operating temp	erature 121 0C – 138 0C pressure 1.1 to 2.2 kg/cm2 of steam pressure.	
4.4 Capacity- 110 lit	res.	
4.5 Digital micropro	xessor temperature controller with stored memory.	
	imer and easy to read display pressure gauges.	
4.7 Indicating lights	display all functions including heating, low water, timer operation, temperature set point and actual temperature.	
4.8 Spring loaded s	afety valves and automatic vacuum breaker for jacket.	
4.9 Removable plus	screen for chamber drain.	
4.10 SS baffle for ev	en steam distribution in the chamber.	
4.11 Safety lock for o	oor: pressure lock safety device.	
4.12 Low water off.		
4.13 Earth leakage b	reaker (ELB).	
4.14 Must include ch	art recorder for temperature and pressure, increased power rating for rapid heating applications.	
4.15 Electrical heating	g element to have over-temperature protection/cut out.	
5 Accessories, sp	ares and consumables	
5.1 Accessories:		
■ 3 dressing dru	m s — (seamless stainless steel construction, suitable to fit into the autoclave).	
A minimum o	two spare lid gaskets.	
5.2 All standard acc	essories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.	
6 Operating Envir	onment	
6.1 The product off	ered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6.2 Power supply: ?	80-440 V (3 Phase), 50Hz fitted with appropriate plug.	
7 Standards and	Safety Requirements	
7.1 Must submit IS/	0 9001 or ISO 13485:2003/AC:2007 AND	
7.2 CE (93/42 EEC I	virectives) or USFDA approved product certificate.	
7.3 Electrical safety	conforms to standards for electrical safety IEC-60601.	
8 User Training		
	ser training (including how to use and maintain the equipment).	
9 Warranty		
9.1 Comprehensive	warranty for two years.	
	ervice During Warranty Period	
	anty period supplier must ensure corrective/breakdown maintenance whenever required.	
11 Documentation		
11.1 User (Operating		
	cal / Maintenance) manual in English	
11.3 List of importar	t spare parts and accessories with their part number and costing.	

156 Blanket Warmer for Neonate

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	I .
	Technical Specifications	I .
	Compact size with low weight.	I .
	Advance interface with one touch temperature selection modes - Ambient, 360 C, 400 C, 440 C.	i .
	Fast warm up and high air flow for quick and efficient thermal therapy.	I .
	Easily available and cheap blankets in different sizes.	I .
	Over / under temperature and disconnect audible and visual alarms.	I .
	Hose and blanket connectors must fit securely without air leak.	I .
	Accuracy in temperature delivery within ±1° C.	į.
	Warranty	
	Comprehensive warranty for 2 years.	i -
	Documentation	i -
1 —	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	1

157 Bronchoscopy Machine

No.	ltem Specifications	Fill your Specification
140.	Manufacturer Name:	Till your specification
	Model No.:	
	woder no.: Country of Origin:	
	Country of Origin: Fechnical Specifications	
	It should be superior image quality with crisp, clear images and true-to life colour.	
-	1. It is motion have superior image quarry with Clsp, their images and out-cut me countries. 2. Should have superior image quarry with Clsp, their images and out-cut me countries. 3. Should have superior image quarry with Clsp, their images and out-cut me countries. 4. Should have superior image quarry with Clsp, their images and out-cut me countries. 5. Should have superior image quarry with Clsp, their images and out-cut me countries. 6. Should have superior image quarry with Clsp, their images and out-cut me countries. 6. Should have superior image quarry with Clsp, their images and out-cut me countries. 7. Should have superior image quarry with Clsp, their images and out-cut me countries. 8. Should have superior image quarry with Clsp, their images and out-cut me countries. 9. Should have superior image quarry with Clsp, their images and out-cut me countries. 9. Should have superior image quarry with Clsp, their images and out-cut me countries. 9. Should have superior image quarry with Clsp, their images and out-cut me countries. 9. Should have superior image quarry with Clsp, their images and out-cut me countries. 9. Should have superior image quarry with Clsp, their images and out-cut me countries. 9. Should have superior image quarry with Clsp, their images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior images and out-cut me countries. 9. Should have superior	
-	2. SHOULD HAVE BELIEVED TO PRESSURE PEQUALENCE HEARDE EXCEPTION TO PRESSURE PEQUALENCE HEARDE PEQUAL	
-	5. Scope should be found user programmable remote switches to improve operationary. 4. Outer diameter should be 6 mm or less.	
-	4. Outer durineter should be 1 m in ress. 5. Channel durineter should be 1 m in rore.	
	3. Claimer diameter silicolo de 2.5 min or more. (a) Insertion tube leneth should be 60 cm or more.	
	5. lisertour tube reinguis sistand de extra on intore. 7. Field of view should be 120 degree or more.	
	7. Free or view should be 120 degree or more. 8. Death of Fried should be 3.0 degree or more.	
-		
-	9. Angulation – Up-180 degree, Down-130 degree or better.	
-	10. Minimum visible distance should be 3mm or less.	
\vdash	11. Should be compatible with laser and electrocautery.	
_	12. Scope should be compatible with Narrow Band Imaging/Iscan-SE/BU	
\vdash	Video Processor & Light source:	
\vdash	1. Should be a Compact Light source/processor with LED source (inbuilt) with back up .	
_	2. Should be able to provide16-9 and 16:10 output for a HDTV monitor and should be compatible with Analog and digital (HD-SDI and DVI output) to reproduce high definition images/video.	
	3. Should have HD/SD-SDI output, DVI, Y/C, Composite output signals	
	4. Should be equipped with optical image enhancement technology for detailed observation by enhancing visibility of blood capillaries& mucosa like Narrow Band Imaging/Iscan-SE/BLI	
	5. Should contain portable memory USB slot for still images recording.	
	6. Should facilitate waterproof scope connection for minimal damage due to water.	
	7. Should have automatic white balance function and leakage testing.	
	8. Touch button control panel	
	9. Come along with compatible video cable.	
	High definition medical grade Monitor	
	Full HD LCD/ LED 21 inch or more monitor with high resolution lower power consumption	
	1. Should have picture-in-picture and picture- out-picture for viewing side by side images.	
	2. Company should have good service support infrastructure and preferably	
	3. Trolley, recording system with laptop/desktop, printer must be quoted.	
	Essential Accessories	
	1. One reusable cups with needle type biopsy forceps compatible with the scope channel diameter.	
	2. Two reusable cup biopsy forceps compatible with the scope channel diameter.	
	3. Ten suction valves (autoclavable).	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Power supply:	
	Input power supply: 220/240 V AC . 50Hz single phase schuko plug	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Training	
	Must provide user & service training.	
	mass promote del di districe dinning.	
	Comprehensive warranty for 2 years.	
	Comprensive warranty for 2 years. Maintenance warranty for 2 years. Maintenance warranty period	
	manuclanace service using waining year interaction and interaction of the service using waining year interaction of the service using waining year interaction of the service using waining year interaction of the service using waining year.	
	Supplier must ensure planned preventive maintenance (PPW) along with Corrective/or eakdown maintenance whenever required. Documentation	
	DOCUMENTATION IN ENGISE SHOULD PROVIDE 2 Sets(hardcopy and soft-copy)	
	User (Uperating) manual in English should provide 2 sets)nardcopy and soft-copy) Service (Technical / Maintenance) manual in English Should provide 2 sets)nardcopy and soft-copy)	
1	Service tecnnical / Maintenance manuai in English should provide z sets/inarccopy and sort-copy Service tecnnical / Maintenance manuai in English should provide z sets/inarccopy and sort-copy Stat of important spare parts, secsories and consumables with their part numbers and costing.	
	ust or important spare parts, accessories and consumatives with their part numbers and costing.	

158 Capsulotomy Lens

Ne	b. Item Specifications	Fill your Specification
	Manufacturer Name:	
	II Model No.:	
	Il Country of Origin:	
	Technical Specifications	
	Stabilizes the patient's eye and minimizes the possibility of pitting the IOL during Nd: YAG laser capsulotomy. A 10mm diameter, 66D magnifying button in the centre of the lens enhances visualization and allows precise laser focus on the posterior	
	capsule.	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	

Comprehensive warranty for 2 years.

159 Cranial Surgical Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	SCALPEL HANDLE NUMBER 7,160-170 MM QTY:2	
	DISSECTING SCISSOR DE'BEKEY,170-180 MM CURVED QTY-2	
	SCHMIEDEN TAYLOR DURA SCISSORS, 150-160 MM QTY-2	
	DANDY ARTERY FORCEPS CURVED, SIDEWAYS, 140-150MM QTY:20	
	DANDT ARIENT FUNCES CONVED_SIGNATAS, 140-130NNN Q11-20 TOWEL CLIPS 14-150MM Q17:20 TOWEL CLIPS 14-150MM Q17:20	
_		
	GIGU HANDLE FOR WIRE SAWS QTY:4	
	DE MARTEL GUIDE, FLEXIBLE, 350MM,QTY:4	
	COATED BRAIN SPATULA,MALLEABLE, CONICALLY TAPERED ,SMOOTH SURFACE 200 MM 8X4MM 13X6MM QTY:4	
	PENFIELD DURA CURRETE AND DISSECTOR (17-18 MM) PENFIELD DURA DISSECTORS 190-200 MM, QTY:1	
	PENFIELD DURA DISSECTORS 200-210 MM, QTY:1	
	CASPER MICRODISSECTOR,200-210MM, 1MM TIP QTY:2	
	MICRO-HOOK BLUNT, 200-210 MM QTY:1	
	YASARGIL SPRING HOOK FOR GALEA FIXATION WITH BULL DOG CLAMP QTY:10	
	WATSON-CHEYNE PERIOSTEAL ELEVATOR 180-190 MM QTY:1	
	FLAT HANDLE PERIOSTEAL ELEVATOR. KRAMER. 180-190MM. 10MM WIDTH OTY:1	
	WILLIGER BONE FLAP ELEVATOR 160-170 MM, 6MM QTY:1	
	VENTRIC PUNCE CANDUL TO MM. JEFFRON'S (COPPER)QTY:2	
	HEGAR MAYO NEEDLE HOLDER 180-190MM, 0,5MM TIP QTV:1	
	HEGAR WARTO NEEDLE HOLDER 180-1900MM (J. SWM 11P (J. Y.). DELICATE NEEDLE HOLDER, 180-1900MM (J. SWM 11P (J. Y.). DELICATE NEEDLE HOLDER, 180-8KY 160-170 MM (J. ZWM 11P (J. Y.))	l
_		
	DURA HOOK ±3.0 - 140MM (CAIRNS) QTV-2	
	BONE RONGEURS LEUR 170 - 180 MM STRAIGHT AND CURVED QTY1each	
	BONE RONGEURS OLIVECRONA 200 - 210 MM QTY:2	
	BONE RONGEURS LEMPERT 150 - 160 MM STRAIGHT QTY:2	
	WEITLANER SELF RETAINING RETRACTOR 190-200 MM,BLUNT QTY:2	
	MICRO BAYONET FORCEPS FINE TIP180-190 MM QTY:2	
	MICRO BAYONET FORCEPS FINE TIP200- 210 MM QTY:2	
	MICRO BAYONET FORCEPS BLUNT TIP180-190 MM QTY:2	
	MICRO BAYONET FORCEPS BLUNT TIP200- 210 MM QTY:2	
	BAYONET FORCEPS DEBAKEY TIP 200- 210 MM QTY:2	
	PLAIN STRAIGHT FORCEPS DISSECTING 140 - 150 MM QTY:2	
	MICRO DISSECTING FORCEPS,150-160 MM QTY-2	
	TOOTH TISSUE FORCEP 140 – 150 MM QTY.2	
	DORAL TOOTH FORCE PS, DELICATE, MICRO ADSON, 140 - 150MM QTV-4	
	DURNAL TOUTH FUNCERS, DELICATE, WILLIAM ALGORIN, 240: 130/WINE QLT 180 ERROUSSON SURVEY CHOROLOGY, BURNAL TOUTH THUMBER GET 180 – 190 MM 1.5MM, 2MM, 2,5MM,3MM, 4MM QTY:2each	
	TUMOUR FORCEPS, BAYONET SHAPED 3MM RING, 200-210MM SERRATED SPOON SHAPED QTY-2	
	TUMOUR FORCEPS. BAYONET SHAPED 5MM RING, 200 - 210MM SERRATED SPOON SHAPED QTY:2	
	MICRO SCISSORS, BAYONET SHAPED, STRAIGHT 180 - 190MM QTY:2	
	MICRO SCISSORS, BAYONET SHAPED, STRAIGHT 200 - 210MM QTY:2	
	MICRO SCISSORS, BAYONET SHAPED, STRAIGHT 220 - 230MM QTY:2	
	STORAGE RACK WITH LID WITH PERFORATED BASKET INSIDE, FOR STORAGE OF BAYONET SHAPED INSTRUMENTS, AT LEAST ,10INSTRUMENTS QTY:2	
	CONTAINER WITH LID FOR STORAGE OF GENERAL INSTRUMENTS 300- 350 MM * 250 -300 MM * 450 * 500 MM QTY:1	
	Arachnid KNIFE (VESSEL KNIFE) JACOBSON 185-190mm QTY:2	
	BAYONET MICRO FORCEPS 220-225,0.6 mm TIP QTY:1	
	BAYONET MICRO FORCEPS 220-225,0.9 mm TIP QTY:1	
	MICRO SCISSOR ANGLED 120-125 mm QTV:1	
	MICRO SCISSOR STRAIGHT 120-125 mm QTY:1	
	MICROSCISSOR TURNUED 120-125 mm QTV:1	
	MILKOS SCISSON CUNEU 126-125 TIRRI GHT 1QY:1	
	MILRO SUSSOR 160-165 mm 31KAUSH (117:1) MICRO SUSSOR 160-165 mm 20KAUSH (217:1) MICRO SUSSOR 160-165 mm 20KAUSH (217:1)	
\vdash		
\vdash	BONE_CUBRETTE DANBERSPECK 200 -210 mm_2.8 mm QTV:1	
	BONE CURRETTE DANBENSPECK 200-210 mm, 3.6 mm QTY:1	
\vdash	BONE CURRETTE VOLKMANN 170 – 180 mm, 3.6 mm QTY:1	
	BONE CURRETTE VOLKMANN 170 -180mm. 4.2 mm QTY:1	
	MICRO INSTRUMENT BOX (275-300 mm X 275 - 300mm X 80-100mm) QTY:2	
	MICRO DISSECTOR- BALL 0.5 mm AND SILVER DISSECTOR QTY:1each	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Must submit IS013485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EC Directives) or USFDA or TUV approved product certificate.	
	te [30/22 tee Directives) of Oal DA Of TOV approved product certificate. Warranty Warranty	
	warranny Comprehensive warranty for 2 years.	
	Comprehensive warranky for a years.	1

160 Diagnostic Cystoscopy Set

No	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	Forward oblique 30-degree telescope, 4 mm diameter, autoclavable, length 30 cm, fiber optic light transmission incorporated- 1 pc	
	Telescope bridge with single lockable working channel-1 pc	
	Cystoscope-Urethroscope sheath, 19-20 Fr, with 2 Luer- lock connectors- 1 pc	
	Sheath should have matte finish for staying of lubrication gel to reduce friction trauma to the patient.	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
	Comprehensive warranty for 2 years.	

161 Echo Ultrasound Machine + TOE Probe

No. Item Specifications	Fill your Specification
Manufacturer Name:	
II Model No.:	
III Country of Origin:	
1 Description of Function	
1.1 Colour Doppler Echocardiography System is required to study the anatomical abnormalities and blood flow in the heart and associated vessels.	
2 Operational Requirements	
2.1 🛭 Latest generation Electronic Phased array Colour Doppler system with minimum 512 electronic independent channels.	
B System must be DICOM ready and capable of being interfaced with HIS/RIS/PACS.	
Ill Must be upgradable to next generation system on site.	
B Frequency compounding or better technology for better resolution and penetration.	
3 System Configuration	
3.1 Colour Doppler System with all application packages, quad loop for serial studies with high frame rate review. Harmonic imaging capability in all modes. (Tissue, Contrast, Anglo) integrated Stress Echo Package, Digital Storage and Retrieval – 01no.	
B 1-3 MHz Adult Cardiac probe Electronics Phased Array probe- 01 ea.	
B 3-11 MHz Electronics Phased Array Probe for Vascular applications- 01 ea.	
B Multi-plane TEE Probe: 4-8 MHz for Adult as well as Paedistric echocardiography.	
B 5-10 MHz Electronic phased array probe for Paediatric cardiology.	
■ Colour Printer - Dino.	
B B/W Video Thermal Printer -01no.	
4 Technical Specifications	
4.1 Latest generation Electronic Phased array colour Doppler system with Minimum 512 Electronic independent channels.	
4.2 256 gray shades for sharp contrast resolutions	
4.3 Multi-dimensional Beam former for generating two images simultaneously-one at low end of bandwidth and one at high end-then selectively retrieves and mixes the components together for finely textured 2-D or B mode image with superior contrast resolution	
4.4 Adult Cardiac and Vascular Probes to be supplied which must be latest generation wide band transducers without frequency selection for higher sensitivity of response over a broader frequency range of operation. All probes to be phased array.	
Probes for paediatric application and Trans oesophageal Echo for future requirement.	
4.5 Harmonic Imaging: System must have following modes in harmonic with separate setting for:	
BTissue Harmonic.	
B Contrast Harmonic - both triggered and real time	
B Harmonic Anglo.	
B Quantification of harmonics imaging	
4.6 Harmonic imaging capability in Adult Cardiac, Paediatric Cardiac and linear Probe.	

4.7	Gain control in two dimensions for additional level of flexibility to image quality control.	
	Real time high frequency 2D for higher resolution and low frequency Doppler for higher sensitivity in all probes	
	ixea intelligency 2010 riigher resolution and now requestly supplier for ingrier sensitivity in an probes Frame rate must be 300 FPS or more.	
	Traine rate must be sour ris of mide. Steerable PN/CW in all Phased Array probes.	
	High definition acoustic zoom for enlarging sections of 2D and colour flow images with more acoustic information for greater clarity and detail while maintaining an optimal frame rate.	
	Modes - 4D, M-Mode, Steerable PW/CW Doppler, Colour Doppler, and High Definition colour flow with capability of automatically picking up colour flow as a function of focal depth	
4.13	Monitor must be 15" or more, high resolution colour monitor.	
	Tilt and Swivel monitor must be able to view in all angles and all light conditions.	
4.14	Colour Flow Imaging for:	
	Bincreased lateral & spatial resolution.	
	B Detection of even subtle areas of turbulence, displaying a more physiological blood flow appearance without loss of frame rate.	
	B Colour flow with capability of automatically picking up colour flow as a function of focal depth	
	Tissue Colorization (B-colour) for improved contrast resolution	
	Application software for Adult, Paediatric, Foetal and Peripheral Vascular and Trans oesophageal applications. (All application packages must be built into the system).	
4.17	Cine loop memory- more than 120MB of memory.	
	🖪 High Frame rate review for better clarity of playback images study in slow motion.	
	B Quad loop with memory for pre and post image comparison of any procedure.	
	🖪 Memory: 256 frames or more in quad loop. M Mode & Doppler Scroll Memory-40 seconds or more.	
	B Frame grabber facility for post analysis.	
4 10	uni aming ababet naturi pri pasa analpsis. Various magabet naturi pri pasa analpsis.	
	ECG triggers facility.	
	User defined system and application pre-sets for multi-user department.	
	Minimum 4.8 GB optical disc drive for image storage and retrieval. (standard with system)	
4.22	Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress protocol.	
4.23	Tissue movement colorization with quantification possibility for IHD/CAD patients.	
4.24	Three transducer ports will be preferred.	
	Colour Map resolution up to 128 levels.	
	Study Manager (> 1.5 GB) for on-cart digital acquisition, review and editing of complete patient studies.	
	Study wratinger (2 ± 3-95) for on-ear cupital acquisition, review and equing or complete patient studies. Facility of Real time perfusion studies	
4.28	System Peripherals shall include:	
	BCD Writer with calculation facility on playback.	
	® Colour Video Printer.	
	Biolow Video Printer. Bio/W Themail Printer.	
5	BB/W Thermal Printer.	
	B B/W Thermal Printer. Accessories, spares and consumables	
	Be/W Thermal Printer. Accessories, spares and consumables Accessories:	
	B B/W Thermal Printer. Accessories, spares and consumables Accessories B DVD/CD Recorder with 100 CDs and 100 DVDs	
	## B/W Thermal Printer. Accessories, spares and consumables Accessories ## UND/CORECORDER with 100 CDs and 100 DVDs ## COLOUR PRINT PRINTS ## COLOUR PRINTS	
	B B/W Thermal Printer. Accessories: spares and consumables Accessories: B DVD/CD Recorder with 100 CDs and 100 DVDs B Colour Print Pager - 500 sheets B DVM Thermal Pager - 10 rolls	
	## B/W Thermal Printer. Accessories: ## DOUD Recorder with 100 DD sand 100 DD DB ## B Colour Print Pager - 100 olls ## B COLOUR DB ## B COLO	
5.1	8 B/W Thermal Printer Accessories, spares and consumables Accessories 8 DVD/CVD Recorder with 100 CDs and 100 DVDs Colour print Pager - 500 sheets 8 B/W Thermal Paper - 10 rolls 8 E CG Cable - 02nos. 8 B/W Discriptions	
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5.1	8 B/W Thermal Printer Accessories, spares and consumables Accessories 8 DVD/CVD Recorder with 100 CDs and 100 DVDs Colour print Pager - 500 sheets 8 B/W Thermal Paper - 10 rolls 8 E CG Cable - 02nos. 8 B/W Discriptions	
5.1	8 D/W Thermal Printer. Accessories, spares and consumables Accessories 8 DVD/CO Recorder with 100 CDs and 100 DVDs 8 Colour Print Pager - 500 sheets 8 D/W Thermal Pager - 10 rolls 8 ESCG Cable - 02 nos. 8 MO Disc - 10 pes. 8 MO Disc - 10 pes. 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.	
5.1 5.2 6 6.1	8 (W. Thermal Printer. Accessories, sears and consumables Accessories, sears and consumables Accessories, sears and consumables 8 (Colour Print Fager - 500 sheets 8 (Colour Print Fager - 500 sheets 8 (Colour Print Fager - 100 rolls 8 (ECC Colds - Cylons) 8 (MO Disc - 100cs 8 (MO Disc - 100cs 8 (MO Disc - 100cs 8 (MO Disc - 100cs 1 (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. Operating Environment The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
5.1 5.2 6 6.1 6.2	B (MV Thermal Printer. Accessories: B (VV)CV Recorder with 100 CDs and 100 DVDs Cloud repiral Pager - 100 reliable B ESCC Gable - 200 repiral Pager - 100 reliable B ESC Cable - 200 repiral Pager - 100 reliable B ESC Cable - 200 repiral Pager - 100 reliable B ESC Cable - 200 repiral Pager - 100 reliable B ESC Cable - 200 repiral Pager - 100 reliable B ESC Cable - 200 repiral Pager - 100 reliable B ESC Cable - 200 repiral Pager - 100 reliable B ESC Cable - 200 repiral Pager - 100 reliable B ESC Cable - 200 repiral Pager - 100 reliable B ESC Cable - 200 repiral Pager - 100 reliable B ESC Cable - 200 reliable B	
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5.1 5.2 6 6.1 6.2 6.3 7	8 B/W Thermal Printer. Accessories: 8 DVD/CV Recorder with 100 CDs and 100 DVDs Closur Print Pager - 300 sheets Closur Print Pager - 300 sheets B/W Thermal Pager - 10 rolls EEGC Cable - 20 rolls EEG	
5.1 5.2 6 6.1 6.2 6.3 7	## B/W Thermal Printer. Accessories, spesses and consumables Accessories spesses and consumables ## B/W/CD Recorder with 100 CD s and 100 DVDs ## B/W/CD Recorder wi	
5.1 5.2 6 6.1 6.2 6.3 7 7.1 7.2	8 B/W Thermal Printer. Accessories: 8 DVD/CVD Recorder with 100 COs and 100 DVDs 8 DCOUNT Print Paper - 100 Printer Accessories: 8 DVD CVD Recorder with 100 COs and 100 DVDs 8 DCOUNT Print Paper - 100 Printer 8 B/W Thermal Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 Print Paper - 100 roll	
5.1 5.2 6 6.1 6.2 6.3 7 7.1 7.2 7.3	### B/W Thermal Printer. Accessories sparses and consumables Accessories sparses and consumables ### B/W/G/D Recorder with 100 CD 3 and 100 DVD5 ### B/W/G/D Recorder with 100 CD 3 an	
5.1 5.2 6 6.1 6.2 6.3 7 7.1 7.2 7.3	8 B/W Thermal Printer. Accessories: 8 DVD/CVD Recorder with 100 COs and 100 DVDs 8 DCOUNT Print Paper - 100 Printer Accessories: 8 DVD CVD Recorder with 100 COs and 100 DVDs 8 DCOUNT Print Paper - 100 Printer 8 B/W Thermal Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 ECC Cable - 20 Print Paper - 100 rolls 8 Print Paper - 100 roll	
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5.1 5.2 6 6.1 6.2 6.3 7.1 7.2 7.3 7.4 8 8.1 9 9.1	8 (PVP) CRESSORIES SERVINE ACCESSORIES SERVINE	
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	11.3	List of important spare parts and accessories with their part numbers and costing.	1
162	Ī	Electro Cautery Machine	1
	-		
	No.	ltem Specifications	F
	- 1	Manufacturer Name:	Г

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
III	Country of Origin:	
	Technical Specification	
	Microcontroller based isolated Electrosurgical Generator having both Monopolar and Bipolar outputs designed for all surgical procedures.	
	Smart generator should be able to monitor changes in tissue impedance continuously and adjusts power.	
	Monopolar outputs should have three cutting modes:	
	a. Low cut for delicate tissue or Laproscopic cases having maximum power of 300w.	
	b. Pure cut for clean, precise cut in general surgery having maximum power of 200W.	
	c. Blend mode for cutting with homeostasis having maximum power of 200W.	
	All cut modes should be able to adjust output power depending on tissue density by less than 15% or 5W, whichever is greater.	
	It should have three Coag Modes with maximum power of 120W	
	a. Desiccate mode for low voltage contact coagulation suitable for Laproscopic and delicate tissue work.	
	b. Fulgurate mode for efficient non-contact coagulation in most applications.	
	c. Soray mode should have randomized soray effect of varying amplitude and frequency for coagulating large tissue areas with minimum depth of necrosis.	
	It should have three bipolar modes with maximum power of 70W	
	a. Precise mode have fine control of desiccation in delicate tissue.	
	b. Standard mode for applications at low voltage to prevent sparking.	
	c. Macro mode for applications on tissue with high resistance.	
	It should have patient plate monitoring facility and should give audiovisual alarm and deactivate output if contact between patient and patient plate is not proper to eliminate the risk of patient burns.	
	The unit should have two hand switching and two Footswitch Monopolar outputs and one hand switching and footswitching bipolar output.	
	It should have membrane keyboard for power settings.	
	The unit should have individual digital display of power for Bipolar, Monopolar cut and Monopolar Coag.	
	The unit should not have RF Leakage current more than 150mA.	
	Accessories:-	
	a. Monopolar Footswitch:- 02 No.	
	b. Bipolar Footswitch: 01 No.	
	c. Reusable hand switching Pencil: - 02 Nos.	
	d. Reusable Patient Plate: - 02nos.	
	e. Bipolar Forcess: - 01No.	
	f. Forces Cord:- 02Nos.	
	g. Universal Adaptor: - 01No.	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Power supply:	
	Input power supply: 220/240 V AC . 50Hz sinele phase schuko plug	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Training	
	Must provide user & service training.	
	Warranty	
	Comprehensive warranty for 2 years.	
	Maintenance Service During Warranty Period	
	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts, accessories and consumables with their part numbers and costing.	

163	ſ	Endourology Laparoscopy Complete Tower
	_	
		Non-American Company of the Company

No	Item Specifications	Fill your Specification
	Manufacturer Name:	
	II Model No.:	
	III Country of Origin:	
	1 Description of Function	
1	1 For complete urology system and surgey procedure	
	2 Operational Requirements	
2	2.2 System complete with thin flexible camera (endoscope) and surgical instruments.	

3.1	As specified	
4	Technical Specification	
4.1	Trolley: Customized, imported, epoxy powder coated/ stainless steel tower	
	Portable on 4 artistatic, artirust, 3600 swivel dual castors, 2 with brakes. Shall have at least four shelves	
	Adjustable arm for fixing a flat monitor. One drawer unit with lock and key.	
	Camera holder	
	Shall have excellent cable management system. Power box with concealed wiring for providing electrical connections of proper rating to all the units.	
4.2	Features of 4K HD Endoscopic Camera and Camera Control Unit 3 chip 4K High Definition Camera Head	
	It must give 4K UHD resolution of 3840 x 2160 pixels for live display. Button controls on camera head to control the camera functions	
	The Camera Head should have a focusing coupler for even focus control.	
4.3.	The system shall have following features: The processory should be able to process 4K – UHD signals having resolution of at least 3840 x 2150 pixels or more.	
	Should have various input and output terminals including HDMI, 3G SDI, DVI-D, HD/SD-SDI. i. Should incorporate high sensitivity CMOS/CCD image sensor	
	ii. Optimizes to Amy Size: The system should have Optical Zoom with 2x parfocal zoom(in 6 steps (x.1.0, x.1.2, x.1.4, x.1.6, x.1.8, x.2.0) lens to enhance the quality of image size & cross specialty standardization of the camera system, regardless of the telescope used	
	iii. Plug and Go: The system should automatically optimize all settings.	
	The system should be ready to-use as soon as it is connected to the camera control unit. N. USB Port for Capturing LHD Videov (JHD Still Prictures: Captured digital images in format 16.9 can be displayed on WideView monitors in the same UHD format without being converted in order to prevent a loss if image quality caused by image in the capture of	
	stretching. v. Integrated digital imaging processing module for a 5 level brightness regulation and 2 electronic anti-moirée filter for fiberscopes.	
	vi. Parallel live display of visualization modes besides white light mode (picture-in-picture). vii. Up to three different camera modules can be connected to the UHD video processor module	
	viii. Side-by-side live display of visualization mode next to white light image (picture-in-picture).	
	ix. Integrated picture-in-picture mode of two different camera modules in five different display sizes available. x. Primary and secondary signal source change in picture-in-picture mode can be performed easily via camera head button.	
L	xi. Changes in visualization modes, device control, digital zoom, brightness, video capture, still image capture and direct print orders, picture-in-picture mode, image direction, white balance and setup settings can be performed in sterile area via camera head buttons.	
	xii. Short starting time and customizable parameter adjustment. xiii. Grid and pointer can be displayed for improved orientation and communication during surgery.	_
	xiv. Grid and pointer can be displayed individually and together.	
	xv. 2 x digital zoom, adjustable in 6 levels. xvi. Possibility of 180' image rotation.	
H	xxii. Possibility of vertical and horizontal image mirroring. Storage of up to 20 individual presets. xxiii. System overview is individually configurable and setup status can be directly displayed with intelligent icons.	
	ix. Parameter setup can be adjusted during surgery.	
	xx. In combination with a compatible three-chip UHD camera head the following modes can be activated without special light sources or filters: a. Brightening of dark areas in the endoscopic image.	
4.4	b. Dynamic contrast enhancement Modular design and with Canara module that should be compatible for use with video flexible endoscopes.	
4.5	Camera control unit with camera head: i. Image Sensor: 3X1/3" CMOS/CCD-Chip.	
	ii. Pixels : 3840 x 2160	
	iii. AGC :Microprocessor Controlled iv. Lens : Integrated Zoom Lens f = 15-31 mm (2x optical zoom)	
	v. Minimum light sensitivity; 17 Lux (f = 1.4 mm). vi. Control buttons; 3 (2 of them freely programmable).	
	vii. Up to three different camera modules can be connected to the UHD video processor module input for communication with compatible camera modules, LAN connection, 4 x USB connection (2 x front, 2 x back). wiii Input: Keyboard input for character generator. 5- pole DIN socket.	
4.6	4K Medical Grade Monitor LED	
	i. Compatible with endovision camers of any make. ii. Monitor must have 4K monitor, Aliki Tu display right per finition Resolution of 38400 x 2160 pixels, flat screen, LED	
	iii. Compatible with all processor of disolaving k4 and tiG application iv. UHD TFT Flat Screen 30 Monitor with stand size 32", New HOTE TFT BATE Screen 30 Monitor with stand size 32",	
	v.Aspect Ratio: 169 UHD format with Bightness: 500 c/lm/2 or better	
	wiii. Contrast ratio: 1400: 1 xiv. Should have various input/output terminals, including 3G/HD/SD SDI, DVI-D, BNC (x5) and HDMI, RGBS, composite, S-video etc.	
	xv. Viewing Angle: 175 degree or better.	
	xxi. Monitor menu displays all controls, capabilities and operations via curser keys, user defined captions, easy to use and highly dependable xxii. Dire user protected, dustproft housing.	
4.7	Light source: Should be compatible with 4K system	
	Shall have long-life LED light source. a. Lamp: 300 Watt	
	b. Shall have lamp with minimum: 30,000 hours or more	
	c. Must have color Temperatures 6000K or more d. f. Acility of standary mode. d. Facility of standary mode.	
	e. Light intensity adjustment continuously adjustable from 0 to 100% manually as well as fully automatically by the cameras video output signal. (Inviersal jaw seambly to adapt cable of any make of fifte optic cable without adapter.	
4.8	g. Fibre optic light cable of size 4.8mm or as appropriate with the system in diameter and length 250-300 cm, the same must also be heat-resistant., with safety locking device Suction/Irrigation Unit:	
4.8	The suction and irrigation unit shall be a combined unit for performing Laproscopy, resecotomy or TUR surgeries.	
	Irrigation pressure control between 0.400 mm Hg. Suction pressure control between 0.75 bar.	
-	Main unit with digital display. Overflow protection on suction bottles.	
	Control from control panel and/or foot pedal. Shall come with: Silicone suction tubings set, reusable pressure domes, bacterial filter and sterilizeable, polycarbonate unbreakable suction and irrigation bottles of capacity minimum1.5 litres with cap.	
4.9	High flow CO2 insufflator	
	High flow of 30 liters or more with LCD display Microprocessor controlled & Software driven	
H	Soft approach pressure control for safe recovery of abdominal pressure Should have visual and audible alarms with min 0.1.1 flow rate	
	Internal leakage detection capability Integrated gas heating	
	Having internal venting system for safety	
	Should have trolley Should have sterilizable gas filters	
E	Should have sterilizable insplitation tubes Unit should include heated fulbin, lose & yoke	
5	Trocar, size 11 mm Accessories, spares and consumables	
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Operating Environment	
6.1	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
7	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%. Power supply:	
7.1	Input power supply: 220/240 V AC _ 50Hz single phase schuko plug Standards and Safety Requirements	
8.1	Must submit 150 9001 or 150 13485-2003/AC: 2007 CE or USPDA or TUV approved product certificate.	
9	Training	
10	Must provide user & service training. Warrandy	
10.1	Comprehensive warranty for 2 years after acceptance. Maintenance Service During Warranty Period	
11.1	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required. Documentation	
12.1	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 2 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 3 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 3 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 3 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 3 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 3 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 3 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 3 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 3 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in English Should provide 3 sets (hardcopy and soft-copy) Uservice (Fechnical / Maintenance) manual in En	

164 Endoscopic Ultrasound (EUS)

No	ltem Specifications	Fill your Specification
	Manufacturer Name:	I .
- 1	Model No.:	
II	Country of Origin:	
	Technical Specifications	
	1. ONE (1) UNIT FULL HIGH DEFINITION LED MEDICAL GRADE MONITOR	
	1. LED Panel: Screen Size at least 26 inches	
	2. Resolution: 1920 x 1080 dots per inch (Full HD)	

3. Contrast Ratio: At least 1400:1 4. Aspect Bailor At least 1459	
5. Viewing Angle: At least 178* (Horizontal & Vertical)	
6. Number of Colors: At least 1.07 billion 7. Dimensions: At least 626.8 (W) x 395.2 (H) x 79.6 (D) mm	
8. Weight 7.5 - 8kg	
1. HD/SD SDI (1), SD (2): BNC Connector	
2. VIDEO: BNC Connector 3. Y/C: 4-Pin mini-DIN	
4. HDIS: D-sub 15-pin 5. Aux in (HD)S-DS-DI): BNC connector	
6. VIDEO: BNC Connector with loop-through output and auto 75 termination	
Y/C. 4-Pin min-Din with active-through output 2. ONE (1) SET 1/DIOS ENDOSCOPIE (SYSTEM 2. ONE (1) SET 1/DIOS ENDOSCOPIE (SYSTEM	
1. Dimensions: 370-382(W) X8-91 (H) X 455-489 (D) mm 2. Weight: 10-11 kg	
Classification of protection against electric shock: Class I-IEC	
3. XEND LIGHT SOURCE 1. Dimensions: 379-390 (W) x 150-162 (H) x 476-551 (D) mm 1. Dimensions: 379-390 (W) x 150-162 (H) x 476-551 (D) mm	
2. Weight: 19-20 kg 3. Examination lamp: Xenon short-arc lamp (ozone-free) 300 W	
4. Average lamp life: Approximately 500 hours of continuous use	
4. ONE (1) SET ENDOSCOPIC ULTRASOUND SYSTEM Classificatio:	
1. Type of protection against electric shock: Class I-IEC or its equivalent Degree of protection against electric shock of applied part: TYPE BF applied part	
Ultrasound Scanning: Display Mode: 8 Mode	
Scanning Radial Scanning Compatible equipment: Mechanical radial scanning ultrasound endoscope. Miniature probe	
4. Usable freguencies: C5, C7.5, C12, C20, 7.5, 12, 20 MHz	
5. Display range: 2, 3, 4, 6, 9,12 cm Mechanic Scanning: Mechanic Scanning:	
1. Image adjustment Gain, Contrast, STC, Enhance 2. Rotation: Rotatable	
3. Display processing/ Display area: Full circle, bottom sector, top sector, scroll	
4. Direction: Normal/Inverse 5. Cline memory: Maximum 160 frames (frame rate per second), Cline review function	
6. 3D: 3D display, MPR display 7. Measurement: Distance, Area, Circumstance	1
8. Display mode: B-mode, FLOW mode, PW mode, THE mode, CH-EUS mode, ELST mode	
9. Scanning Radial scanning. Curved linear array scanning 10. Compatible uponement:	
a. Electronic radial scanning ultrasound endoscope	
b. Electronic curved linear array scanning ultrasound endoscope 11. Usable Frequencies S, 6, 75, 10, 21 MHz 12. Dislay range: 2, 4, 5, 6, 7, 8, 9, 12 cm	
13. Image adjustment: Gain, Contrast, STC, Enhance, Compound 14. Display were Radial: Full circle, bottom sector, top sector, scroll	
15. Display processing: Curved linear array: Convex	
a. Direction: Normal and Inverse b. Display pattern: Single-screen and Dual-screen	
Electronic Scanning 1. Cine memory: Cine review function; at least 600 storable frames	
2. Focus:	
a. Auto Preset: Near and Far b. Focus setting: Focus Iocation adjustable, Focus number adjustable	
3. FLOW mode: COLOR FLOW mode, POWER FLOW mode, H-FLOW mode	
4. PV mode: 8:PW, COLOR-PW, POWER-PW, H-FLOW-PW Measurement: Distance, Area, Circumstance, PV measurement	
Recording Data: 1. Data format:	
a. Still image: Bmp, Jpeg, 3dv	
b. Movie data: *1, *2, Avi Z. Keyboart's Keyboart with bull-in-trackball, LCD touch panel and LED backlit keys	
Ancillary Equipment: Monitor display selection: Endoscopic and Ultrasound image	
2. Video system center:	
a. Picture-in-picture: Displays the endoscopic image as PIPP sub-display on the ultrasound image Platient data: Success potient data with the video system center Platient data: Success potient data with the video system center	
S. ONE (1) UNIT RADIAL SCANNING ULTRASOUND ENDOSCOPE 1. Field of "wew 100"	
2. Optical System:	
a. Direction of View: 55' Forward-Oblique b. Depth of Field: 3 to 100 mm	
b. Depth of Field: 3 to 100 mm 3. Distal End: \$13.8 mm	
b. Depth of Field: 3 to 100 mm 3. Distal End: g13.8 mm 4. Insertion Tube a. Insertion Tube Quter Diameter: g11.8 mm	
b. Depth of Field: 3 to 100 mm 3. Distal End: 91.8 mm 4. Insertion Tube 3. Insertion Tube Outer Diameter: 911.8 mm 5. Working Length: At least 1250 mm	
b. Depth of Field: 3 to 100 mm	
b. Depth of Field: 3 to 100 mm 3. Distal End: 913.8 mm 4. Insertion Tube a. Insertion Tube Outer Diameter: 911.8 mm b. Working Length: At least 1250 mm 5. Instrument Channel	
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Depth of Field: 3 to 100 mm Dept	
b. Depth of Field: 3 to 100 mm 3. Distal Ends (13.8 mm 4. Insertion Tube 4. Insertion Tube Outer Diameter: \$11.8 mm 5. Instrument Channel 6. Show the Channel 7. Total Length: At least 1250 mm 7. Total Length: At least 1255 mm 8. Lens Cleaning Function 8. Lens Cleaning Function 9. Display Mode 8-mode, Power flow-mode 10. Scanning Method: Electronic Radial Array 11. Scanning Method: Electronic Radial Array 11. Scanning Method: Electronic Radial Array 11. Scanning Method: Electronic Radial Array 11. Scanning Method: Electronic Radial Array 11. Scanning Method: Electronic Radial Array 11. Scanning Method: Electronic Radial Array 11. Scanning Method: Electronic Radial Array 11. Scanning Method: Electronic Radial Array 11. Scanning Method: Electronic Radial Array 11. Scanning Method: Electronic Radial Array	
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b. Depth of Field: 3 to 100 mm 3. Distal Field: 3 to 100 mm 4. Insertion Tube 4. Insertion Tube Outer Diameter: g1.1.8 mm 5. Working Length: At least 1250 mm 5. Unstrument Channel 5. Linstrument Channel 6. Channel Inner Diameter: g2.2 mm 7. Total Length: At least 1250 mm 8. Bending Reper Angulation Range: Up 130°, Down 90° Right 90°, Left 90° 7. Total Length: At least 1255mm 8. Lens Cleaning Function 9. Display Mode: 8-mode, M-mode, D-mode, Flow-mode 10. Scanning Wedthoot: Section Radial Array 11. Scanning Wedthoot: Section Radial Array 11. Scanning Westfoot: Section Radial Array 12. Optical System: 9. Optical System:	
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b. Depth of Field: 3 to 100 mm 3. Distal End: 613.8 mm 4. Insertion Tube 4. Insertion Tube Outer Diameter: g11.8 mm b. Working Length: At least 1250 mm 5. Instrument Channel 6. Minimum Visible Distance: 3mm 6. Minimum Visible Distance: 3mm 6. Bending Range Angulation Range: Up 130°, Down 90° Right 90°, Left 90° 7. Total Length: At least 1555mm 8. Lens Cleaning Function 9. Display Mode: 8-mode, M-mode, D-mode, Flow-mode, Power flow-mode 10. Scanning Method: Service Standial Array 11. Scanning Direction: Perspendicular to Insertion Direction Frequency-5(et/ 5/10 MHz) 6. ONE 1) JUNIT LINKAR SCANNING UITRASOUND ENDOSCOPE 7. Optical System: 8. Field of View: 100° 9. Display Mode: 8-mode, M-mode, D-mode, Flow-mode 9-mode, Flow-mode, Flow-mode 9-mode, Flow-mode 9-mode, Flow-mode, Flow-mode, Flow-mode 9-mode, Flow-mode, Flow-mode 9-mode, Flow-mode 9-mode, Flow-mode, Flow-mode, Flow-mode 9-mode, Flow-mode, Flo	
b. Depth of Field: 3 to 100 mm 3. Distal End: 61 3.8 mm 4. Insertion Tube 4. Insertion Tube 5. Instrument Channel 6. Working Length: At least 1250 mm 6. Working Length: At least 1250 mm 7. Total Length: At least 1250 mm 8. Exercise Length: At least 1250 mm 9. Display Mode: 8 mode, Amount of Length: At least 1555 mm 9. Display Mode: 8 mode, M-mode, D-mode, Flow-mode, Power flow-mode 9. Display Mode: 8 mode, M-mode, D-mode, Flow-mode, Power flow-mode 10. Scanning Method: Section Endial Array 11. Scanning Direction: Perpendicular to Insertion Direction Frequency: Sife; 51.00 MHz 12. Optical System: 1. Field of view: 100' 12. Direction of view: collique viewing 55' 13. Depth of Fields: 3 to 100 mm 14. Display Mode: 8 mode and a flower of the work of the wo	
b. Depth of Field: 3 to 100 mm 3. Distal Field: 3 to 100 mm 4. Insertion Tube 4. Insertion Tube Outer Diameter: g11.8 mm b. Working Length: At least 1250 mm 5. Instrument Channel 5. Instrument Channel 6. Sending Range / Angulation Range: Up 130°, Down 90° Right 90°, Left 90° 7. Total Length: At least 1155mm 6. Bending Range / Angulation Range: Up 130°, Down 90° Right 90°, Left 90° 7. Total Length: At least 1155mm 8. Lens Cleaning Function 9. Display Mode: B-mode, M-mode, D-mode, Flow-mode 10. Scanning Method: Electronic Radial Array 11. Scanning Direction: Perpendicular to insertion Direction Frequency: Spir. 51 UMIT 6. OPIGI 13 UMIT UNRAN SCANNING ULTRASQUIND ENDOSCOPE 7. Optical System: 9. Display Mode: B-mode view Display view of Spir. 9. Optical System: 1. Field of view: 100° 9. Display though of the Work of Spir. 9. Display though of the Work of Spir. 9. Optical System: 1. Field of view: 100° 9. Display though of view collique viewing 55° 9. Direction of view collique viewing 55° 9. Direction of view collique viewing 55° 9. Direction of view collique viewing 55° 9. Direction of view collique viewing 55° 9. Direction of view collique viewing 55° 9. Direction of view collique viewing 55° 9. Direction of view collique viewing 55° 9. Direction of view collique viewing 55° 9. Direction of view collique viewing 55°	
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b. Depth of Field: 3 to 100 mm 1. Distal Field: 18.8 mm 4. Insertion Tube 1. Insertion Tube Outer Diameter: g1.1.8 mm b. Working Length: At least 1250 mm 5. Instrument Channel 1. Stannel Inner Diameter: g2.2 mm 5. Minimum Visible Distance: 30.2 mm 6. Bendring Ranger Annutation Range: Up 130°, Down 90° Right 90°, Left 90° 7. Total Length: At least 1555mm 8. Lens Cleaning Firection 9. Distalm Mode: B-mode, M-mode, D-mode, Flow-mode, Power flow-mode 10. Scanning Method: Bertonic Radial Array 11. Scanning Direction: Perpendicular to Insertion Direction 12. Canning Whethod: Bectronic Radial Array 13. Consideration of the Control of the Cont	
b. Depth of Field: 3 to 100 mm 3. Distal End: 613 8 mm 4. Insertion Tube 4. Insertion Tube 5. Working Length: At least 1250 mm 5. Working Length: At least 1250 mm 6. Channel Inner Diameter: 92.2 mm 6. Minimum Visible Obstance: 3mm 6. Bending Range Angulation Range: Up 130°, Down 90° Right 90°, Left 90° 7. Total Length: At least 1555mm 8. Lens Cleaning Function 9. Display Mode: 8-mode, M-mode, D-mode, Flow-mode, Power flow-mode 10. Scanning Whethof: Electronic Radial Array 11. Scanning Direction: Perpendicular to Insertion Direction Frequency: 56°, 75', 100 MH 6. ONE (1) UNIT LINEAR SCANNING ULTRASOUND ENDOSCOPE 9. Display Mode: 8-mode with the Scanning Direction Perpendicular to Insertion Direction Frequency: 56°, 75', 100 MH 6. ONE (1) UNIT LINEAR SCANNING ULTRASOUND ENDOSCOPE 9. Display does obtained with the Scanning Direction Perpendicular to Insertion Direction Frequency: 56°, 75', 100 MH 6. ONE (1) UNIT LINEAR SCANNING ULTRASOUND ENDOSCOPE 9. Display does obtained with the Scanning Direction Perpendicular to Insertion Direction Fine Heid: 3 to 100 mm 6. Display the Heid: 3 to 100 mm 7. Endoscopic Functions: 8. Newfront Direction Scanning Control of General Action Scanning Control Scanning	
b. Depth of Field: 3 to 100 mm 3. Distal Field: 3 to 100 mm 4. Insertion Tube 4. Insertion Tube 5. Instrument Channel 5. Instrument Channel 6. Channel Inner Diameter: £2.2 mm 6. Liminimum Visible Distance: 3 mm 7. Total Length: At least 1250 mm 8. Ears Cleaning Function 9. Display Mode: 8-mode, M-mode, D-mode, Flow-mode 10. Scanning Method: Electronic Raidlal Array 11. Scanning Direction: Perpendicular to Insertion Direction Frequency: 5/67; 5/10 MHz 6. Optical System: 1. Field of View: 100* 9. Display mode diameter: At least 1.6 mm 1. Distance of the wide Distance of the Common System: 1. Field of View: 100* 9. Distance of the Common System: 1. Field of View: 100* 9. Distance of the Common System: 1. Field of View: 100* 9. Distance of the Common System: 1. Field of View: 100* 9. Distance of Common System: 1. Field of View: 100* 9. Distance of Common System: 1. Field of View: 100* 9. Distance of Common System: 1. Field or View: 100* 9. Distance of Common System: 1. Working Length: At least 1.25 mm 1. Endoscopic Functions: 1. Working Length: At least 1.25 mm 1. Bending section: 1. Morking Length: At least 1.25 mm 1. Bending section: 1. Bending section: 1. Morking Length: At least 1.25 mm 1. Bending section: 1. Angulation range: Up 130*, Down 90°, Right 90°, Left 90° Total Length: At least 1.25 mm 1. Bending section: 1. Angulation range: Up 130*, Down 90°, Right 90°, Left 90° Total Length: At least 1.25 mm	
Depth of Field: 3 to 100 mm	
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	- Four aluminum supporting columns.	
	- Tour assumman supporting commiss Sliding self on the left side	
—	Singing sherr out are next Sure Once carried older for five drawers with noise-free slides.	
-	- Und centralized lock for the drawers with noise-tree slides 100 mm casters with braid sasters with praid.	
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	- Dimension: 620 mm × 470 mm × 910 mm	
	- Accessories:	
	- Side hanging box	
	- Waste bin	
	- Rotating tray	
	- Telescopic IV pole	
	- Oxygen cylinder holder	
	- Cardiac board	
	Power outlet	
-	5. Computer Video and Image Recorder/External Recording Device with Software Dedicated for Endoscopic Ultrasound	
_	- Monitor:	
	- Device Type: LED-backlit LCD monitor, at least 23"	
	- Panel Type: IPS	
	- Aspect Ratio: 16:9	
	- Resolution: Full HD (1080p), 1920 x 1080 at 60 Hz	
	- Pixel Pitch: 0.265 mm	
	- Brightness: 250 cd/m2	
	- Contrast Ratio: 1000:1 / 8000000:1 (dynamic)	
	- Response Time: 8 ms (normal); 5 ms (grey-to-grey)	
1	- Color Support: 1.68 million colors	
—	- Cutar support. Ize intimut cons	
1		
\vdash	Display Position Adjustment: Tilt	
<u> </u>	Screen Coating: Low Haze, 3H hardness	
	- Dimension (WxDxH) w/ Stand: 52-55 cm x 15-18 cm x 40-43 cm	
L	- Weight: 3.8 – 4.0 kg	
	Compliant Standards: Plug and Play, TCO Displays	
	Processor -4.0 GHz)	
	- Windows 10 Home 64-bit	
	- Memory 8GB, (8Gx1) DDR4, 2666MHz	
	- Hard Drive = 3.5" Hard Drive 118 7200 rpm	
	- Port & Slots	
_		
-	- Power Button	
_	- 5-in-1 Multi-card reader	
	- Audio combo jack	
	- (2) USB 3.1 Gen 1 Type – A	
	- Optical Drive	
	- Air Vent	
	Control of Arthur Burn	
	- Line in/out & Microphone Port - HDMI out	
	- HDMI out	
	- HOMI out - VSA -	
	- HDM out - VGA - VEA - VEA - At least 4 USB 2.0 ports	
	- HOMI out - VSA - At least 4 USB 2.0 ports - Ethernet port	
	- HDM out - VGA - Less 4 USB 2.0 ports - Ethernet port - Expansion and slots - Expansion	
	- HDMI out - VSA - AI least 4 USB 2.0 ports - Ethernet port - Expansion card slots - Power supply uint - P	
	- HDMI out - VGA - At least 4 USB 2.0 ports - Ethernet port - Expansion card slots - Power supply unit - Security-pale slots	
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	- HOMI out - VGA - At least 4 USB 2.0 ports - Etherent port - Espansion card slots - Power supply unit - Security-cable slots - Sourcity-cable slots - One (1) unit Equipment Cart / Workstation for Endoscopic Ultrasound System: - Dimensions: - Height for lots pray; 1155-1170 mm - Height to lot pray; 1155-1170 mm - Leators: at least 2, with brake; at least 4 x 125 mm - Separation transformer: - Input voltage: 220 – 240 V Frequency: 60 ft; - Power input: (1 may: 1500 W) - Circuit breakers: 2x 9 A Potential equalization terminal: 1 - Operating Environment - The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95% - Power supply: 2207-240 V AC, 504t single phase schuko plug - Power supply: 2207-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 2307-240 V AC, 504t single phase schuko plug - Power supply: 240t schulo s	
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165 Hemoglobin A1C Machine

	ianufacturer Name:	
III Ma	odel No.:	
III Cou	ountry of Origin:	
	echnical Specifications	
1.1 A n	new fullyautomatedHigh Performance Liquid Chromatography (HPLC) analyser for HbA1c estimation.	
1.2 The	ne system should be equipped with an automated barcode reader/reader facility.	
1.3 The	ne system should have automated cao-piercine of primary tubes and direct dilution of samples without manual intervention.	
1.4 No	o sample pre-treatment should be required. Diluted and Undiluted sample run mode should be available.	
1.5 Tru	ue physical separation with separate peaks (resolution) of labile and stable fraction of HbA1c for the direct estimation of stable fraction.	
1.6 Ver	endor should provide bi-directional US/HIMS interfacing and sample bar code reader orthe machine should be compatible with local LIS/HIMS.	
	ne system should have a printer for reports.	
1.8 The	ne system should have dedicated reporting software for data processing. OC and Chromatogram storage with easy review.	
1.9 The	ne system should not take more than 5 minutes for the first sample and less than 2 minutes for subsequent samples.	
1.10 Ma	achine should perform ≥ 30 tests per hour.	
1.11 Sys	stem should detect Hb variants that affect A1c interpretation.	
1.12 Sys	rstem should have STAT sample capability.	
1.13 The	ne system should have feature to load samples using racks with a minimum sample loading capacity of at least80 samples with continuous loading facility.	
1.14 HPI	PLC system shall be supplied with complete ready to use kit with Buffers in transparent plastic tanks with inventory management systemto view the level of buffers; columns, primers, calibrators & sample vials etc.	
1.15 Ma	achine should be a compact bench top model.	
	ne HPLC system should have better precision. CV less than 2.5%.	
1.17 The	ne system should have in-kit external standards for instrument calibration ensuring accurate quantitation of results.	
1.18 The	ne calibration should be based on 2-point calibration for higher accuracy.	
1.19 Sys	stem should not have any interference from HbF up to 20% and any other hemoglobin derivatives. and minimal reagent consumption during automated maintenance schedule.	
1.20 It sl	should have a sufficient data hard disk approx. 1TB hard drive and a remote data access feature when connected to LAN or Intranet. The system must have a software for real time viewing of the analysis of the sample.	
6 Op	perating Environment	
6.1 The	ne unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
6.2 The	ne unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
7 Pov	over supply:	
7.1 Inp	put power supply: 220/240 V AC , 50Hz single phase schuko plug	
6.1 Pov	over supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
8 Sta	andards & Safety Requirements	
8.1 Mu	ust submit ISO13485:2003/AC:2007 for Medical Devices AND	
8.2 CE	: (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
9 Tra	aining	
9.1 Mu	ust provide user & service training.	
10 Wa	erranty	
10.1 Cor	omprehensive warranty for 2 years.	
11 Ma	aintenance Service During Warranty Period	
11.1 Sup	upplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
12 Do	ocumentation	
12.1 Use	ser (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
12.2 Ser	ervice (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
12.3 List	st of important spare parts, accessories and consumables with their part numbers and costing.	

166 Hysterectomy Set

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| Item Specifications Fill your Specification

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No	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- II	Country of Origin:	
	Technical Specifications	
	1) Fully automated Random access immunoassay analyzer to perform the analysis of immuno assays from serum, plasma, hemolysate and body fluids.	
	2) Systems having maximum throughput preferred (at least >60Tests/hr).	
	3) System with minimal reaction time for immuno assay tests preferred.	
	4) Systems should have the capacity to be programmed with maximum tests and could hold maximum number of reagents at a single point of time (preferably >15 different reagents). Optional - compressor based cooling unit preferred than peltier	
	based one.	
	5) Systems utilizing minimal sample volumes preferred with mandatory sample clot detection ability	
	6) Should have onboard, user definable minimal step dilution process of samples and one	
	offering maximum level of dilution preferred (eg: for β-HCG).	
	7) Should be having lot to lot calibration, and preferably be having fewer points of calibration with maximum linearity.	
	8) One with minimal water consumption preferred	
	9) The quoted equipment should have CE/FDA certification	
	10) All the reagents should be ready to use.	
	11) Reaction process, Sample & reagent pipetting should be in single use disposable settings.	
	12) Systems with maximum onboard data storage (OC, patient datal) preferred with provision to expand memory or storage to an external device. Should be having connected online printer, preferably laser printer (provision for at least 3 RS-232 cable connections or equivalent data cable connections should be there).	
	13) System should be preferably having LCD touch screen colour monitor for programming the tests and entering the patient data with large icons. Strikingly visible alarms with operator defined audio enhancement should be there.	
	14) Reagent data entry should be through onboard barcode scanner to avoid wrong entry.	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Power supply:	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Training	
	Must provide user & service training.	

	Comprehensive warranty for 2 years.	
П	Maintenance Service During Warranty Period	
Г	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
Г	Documentation	
Г	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
Г	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	

168 Infant Laparotomy Instrument Set

1	infant Laparotomy Instrument Set	
No.	Item Specifications	Fill your Specification
	Manufacturer Name: Model No.:	
	Country of Origin:	
\vdash	Technical Specifications Stainless steel round Bowl 2 ltrs QTY:5	
	Stainless steel round Bowl 150 -250 ml QTY:5	
-	Stainless steel round 86wt 92 - 50 ml QTV: 5 Stainless steel round 86wt 93 ml QTV 5	
	SS Kidney tray 150-250 ml QTY:5	
-	SS Kidney tray 500 ml QTV:5 BR Kindey tray 500 ml QTV:5 BR Kindey tray 500 ml QTV:5	
	BP Knife Handle - no 4 - 125 mm length matte finish QTY:5	
	BP Knife Handle - no 4 - 122 mm length matte finish QTV:5 BP Knife Handle - no 4 - 125 mm length matte finish QTV:5	
\vdash	Cheattle forceps - 11 inch QTY-5 Forster's sponge holding forceps - Long 10-12 inches straight serrated QTY:10	
	Backhaus Towel clips - 3 inch length QTY:20	
-	Bachaus Towel clips - 5 inch length QTV:20 Aley's Tissue Forepe, 7 inch length - 405 teeth, 7mm Jaw QTV:10	
	Alley's Tissue forceps - 5 inch length - 1x2 teeth, 5mm jaw QTY:10	
	Alley's Tissue forceps: 4 inch length: 3.44 teeth, 4mm jaw QTV:10 Babcok's Tissue forceps: 4 inch length: 3.44 teeth, 4mm jaw QTV:10 Babcok's Tissue forceps: 6.25 inch length: 1.0mm jaw QTV:10 Babcok's Tissue forceps: 6.25 inch length: 1.0mm jaw QTV:10 Babcok's Tissue forceps: 4.25 inch length: 1.0mm jaw QTV:10	
	Babcock's Tissue Forceps - 9.25 inch length - 6mm Jaw QTY:10 Mosquito Artery Forceps - straight - 4 inch length QTY:10	
	Mosquito Artery Forceps - straight - 5 inch length QTY:10	
-	Mosquito Artery Forceps - straight - 7 inch length QTY:10 Mosquito Artery Forceps - curved - 4 inch length QTY:10	
	Mosquito Artery Forceps - curved - 5 inch length QTY:10	
E	Mosquito Artery Forceps - curved - 7 inch length QTV:10 Heamostatic Artery Forceps - straight ATV:10 Heamostatic Artery Forceps - straight ATV:10	
	Haemostatic Artery Forceps - strong curve - 8 inch length QTY:10	
	Thumb dissection forces - 2xt teeth/fissue - 5.5 inch length GTV-10 Thumb forces - 2xt teeth/fissue - 5.5 inch length GTV-10 Thumb forces - 2xt teeth/fissue - 4xt hed length fifted GTV-10	
\vdash	Mixter vascular clamp - 7.5 inch QTY:5 Baby Mixter's forceps, 5.25 inch QTY:5	
	Mixter vascular clamp - 9 inch length QTY:5	
-	Intestinal clamps - crushing - Straight 9 inch length QTV:5 Intestinal clamps - crushing - curved of inch length QTV:5	
	Intestinal clamps - occluding - Straight 9 inch length QTY:5	
-	Intestinal clamps - occluding - curved 9 inch length QTV:5 Koher's Artery forces - straight - 7, Indh length QTV:5	
	Kocher's Artery forceps - straight - 10 inch length QTY:5	
	Kocher's Artery forceps - curved - 7 inch length QTY:5 Kocher's Artery forceps - curved - 10 inch length QTY:5	
1	Kelly's tissue clamps straight - 5.5 inch length QTV:5 Kelly's tissue clamps curved - 5.5 inch length QTV:5	
	Kelly's tissue clamps straight - 7 inch length QTY:5	
-	Kell/'s tissue clamps curved - 7 inch length QTV:5 Designating palls on Forces pset QTV:5 Designating palls on Forces pset QTV:5	
	Mixter's ligature forceps, 230mm QTY:5	
-	Yankur suction tube QTV-5 Baby Mister's igazure forceps, 185mm QTV-5	
	Debakey dissecting forceps, 150mm QTY:5	
L	Debakey dissecting forcept, 2 comm QTV:10 Waugh toothed sessecting forcept, 20mm QTV:5	
	Adson's dissecting forceps, toothed,4.75 inch 125mm QTY:5	
	Adson tissue forceps 4.75 inch QYY:10 Adson sitsue forceps 4.75 inch QYY:10 Adson's dissection forceps, plan in it, 125mm QIY:5	
-	Mayo Hegar Needle holder with tungsten carbides olid Jaw - 5 inch length QTY:10 Mayo Hegar Needle holder with tungsten carbides olid Jaw - 7 inch length QTY:10	
	Mayo Hegar Needle holder with tungsten carbide solid Jaw - 7 inch length QTY:10 Mayo Hegar Needle holder with tungsten carbide solid Jaw - 8 inch length QTY:10	
	Mayo Hegar Needle holder with tungsten carbide solid Jaw - 7 inch length QTY:10 Mayo Hegar Needle holder with tungsten carbide solid Jaw - 8 inch length QTY:10 Mayo Hegar Needle holder with tungsten carbide solid Jaw - 10 inch length QTY:10	
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Ope	erating Environment	
The	unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
The	unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
Stan	ndards & Safety Requirements	
Mus	st submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (9	(93/42 EEC Directives) or USFDA or TUV approved product certificate.	
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Com	mprehensive warranty for 2 years.	

169 Kidney Surgery Set

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ROUX RETRACTOR 21X22/ZYX28MM 15MM QTY:1 ROUX RETRACTOR 30X26/ZSASMM 15MM QTY:1 ROUX RETRACTOR 30X36/ZSASMM 15MM QTY:1 VOLKMANN RETRA-PROSEN: SS-SX192/ZMM QTY:2 CUSHING VEIN RETRACTOR 10X13MM 205MM QTY:1 CUSHING VEIN RETRACTOR 10X13MM 205MM QTY:1 CUSHING VEIN RETRACTOR 10X13MM 205MM QTY:1 MINULUZ ABDOMINAL RETRACTOR 10X13MM QTY:1 MINULUZ ABDOMINAL RETRACTOR 10X15MM QTY:1 MINULUZ ABDOMINAL RETRACTOR 10X15MM QTY:1 MINULUZ ABDOMINAL RETRACTOR 10X15MM QTY:1 HABERER RIBBON RETRACTOR 50X46MM 305MM QTY:1 DEAVER RETRACTOR 10X15MM 00TY:1 DEAVER RETRACTOR 10X15MM 00TY:1 DEAVER RETRACTOR 10X15MM 00TY:1 DEAVER RETRACTOR 10X15MM 00TY:1 HABRIGGN ING SPATULAFIX/ZYSKMM/25MM QTY:1 HABRIGGN ING SPATULAFIX/ZYSKMM/25MM QTY:1 LHARNIGTN ING SPATULAFIX/ZYSKMM/25MM QTY:1 MARNIGTN ING SPATULAFIX/ZYSKMM/25MM QTY:1 CZERBY BETRACTOR 38X/22MM 175MM QTY:2 CASTRO MICRO SCISSORS ROUND HANDLE 4.5 IN 45 DEGREE BLADES QTY/S MICRO SCISSORS ROUND HANDLE 5.5 IN STRAIGHT QTY:5 JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN STRAIGHT QTY:5 JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN STRAIGHT QTY:5 JOCOSSON MICRO SCISSORS ROUND HANDLE 2.5 DEGREE ANGLE QTY:5 JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSORS ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSOR ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSOR ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSOR ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSOR ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSOR ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSOR ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSOR ROUND HANDLE 5.5 IN GTY-S JOCOSSON MICRO SCISSOR	
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DEAVER RETRACTOR RIG 2 SMM 315MM DTY: 1 DEAVER RETRACTOR RIG 2 SMM 315MM DTY: 1 DEAVER RETRACTOR RIG 3 38MM300MM DTY: 1 HARNISTH ING SPATULAFLYZSGAMM259MM DTY: 1 HARNISTH ING SPATULAFLYZSGAMM259MM DTY: 1 CZERNY RETRACTOR 38X22MM 175MM DTY: 1 CZERNY RETRACTOR 38X22MM 175MM DTY: 1 CZERNY RETRACTOR 38X22MM 175MM DTY: 1 CASTRO MICRO SCISSORS ROUND HARDLE 4.5 IN 45 DEGREE BLADES QTY:5 MICRO SCISSORS ROUND HARDLE 5.5 IN STRAIGHT DTY:S JOCOBSON MICRO SCISSORS ROUND HARDLE 5.5 IN STRAIGHT DTY:S JOCOBSON MICRO SCISSORS ROUND HARDLE 5.5 IN STRAIGHT DTY:S JOCOBSON MICRO SCISSORS ROUND HARDLE 5.5 IN STRAIGHT DTY:S JOCOBSON MICRO SCISSORS ROUND HARDLE 5.5 IN STRAIGHT DTY:S JOCOBSON MICRO SCISSORS ROUND HARDLE 5.5 IN STRAIGHT DTY:S NEIVE HONC QUIT'S Operating Environment	
DEAVER RETRACTOR RIG 2 ZSMM 31SMM QTV:1 DEAVER RETRACTOR RIG 3 ZSMM 30MM QTV:1 HARNGTU LUG SPATULAFLY.TXSMAMM.29SMM QTV:1 HARNGTU LUG SPATULAFLY.TXSMAMM.29SMM QTV:1 CZERNY BETRACTOR 38XC2MM 17SMM CTV:2 CASTRO MICRO SCSSOS ROUND HANDLE 4.5 IN 45 DEGREE BLADES QTV:5 MICRO SCSSOS ROUND HANDLE 5.5 IN STRAUGHT QTV:5 JOCOBSON MICRO SCSSOS ROUND HANDLE 2.5 DEGREE BLADES QTV:5 JOCOBSON MICRO SCSSOS ROUND HANDLE 2.5 DEGREE ANGLE QTY:5 JOCOBSON MICRO SCSSOS ROUND HANDLE 2.5 DEGREE ANGLE QTY:5 JOCOBSON MICRO SCSSOS ROUND HANDLE 2.5 DEGREE ANGLE QTY:5 JOCOBSON MICRO SCSSOS ROUND HANDLE 2.5 DEGREE ANGLE QTY:5 JOCOBSON MICRO SCSSOS ROUND HANDLE 2.5 DEGREE ANGLE QTY:5 JOCOBSON MICRO SCSSOS ROUND HANDLE 3.5 IN QTY.5 NERVE HOOK QTV:5 Operating Environment	
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I DICOBSON MICRO SCISSORS 90 DEGREE ANGLE SHARP 6.25 IN QTY/5 NERVE HOOK QTY/5 Operating Environment	
NERVE HOOK QTY:5 Operating Environment	
Operating Environment	
The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
Standards & Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
Warranty	
Comprehensive warranty for 2 years.	

170 Laparoscopy Set for Adult

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- II	Country of Origin:	
	Forward-Oblique Telescope 30°, enlarged view, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated,	
	Plastic Container for Sterilization, suitable for steam, gas, and hydrogen peroxide sterilization and storage, perforated, with lid, external dimensions approx: (w x d x h): 520 x 90 x 45 mm, for use with two rigid endoscopes with a working length of 34	
	cm	
	Trocar, size 11 mm, consisting of: Trocar only, with pyramidal tip Cannula without valve, with insufflation stop- cock, length 10.5 cm Multifunctional Valve	
	Trocar, size 6 mm, consisting of: Trocar only, with pyramidal tip Cannula without valve, with insufflation stop- cock, length 10.5 cm Multifunctional Valve length 10.5 cm Multifunctional Valve	
	Reduction Sleeve, 11/5 mm	
	Reducer, 11/5 mm	
	Veress pneumoperitoneum Needle, with spring-loaded blunt inner cannula, LUER-lock, autoclavable, diameter 2.1 mm, length 13 cm	
	Forceps Insert, Grasping Forceps, with especially fine atraumatic, serration, fenestrated, single action jaws, size 5 mm, length 36 cm	
	Forceps Insert, Grasping Forceps, atraumatic, wavy, double action jaws, size 5 mm, length 36 cm	
	Forceps Insert, Grasping Forceps, double action jaws, size 5 mm, length 36 cm	
	Scissors Insert, for scissors, double action jaws, curved, size 5 mm, length 36 cm, for use with trocars size 6 mm	
	Scissors Insert, straight, double action jaws, size 5 mm, length 36 cm	
	Forceps Insert, Dissecting and Grasping Forceps heavy, double action jaws, size 5 mm, length 36 cm	
	Forceps Insert, Claw Forceps, 2 x 3 teeth, single action jaws, size 10 mm, length 36 cm	
	Insulated Metal Outer Tube, with LUER-Lock connector, size 5 mm, length 36 cm	
	Outer Tube, with LUER-Lock, connector, size 10 mm, length 36 cm	
	Metal Handle, style ratchet	
	Plastic Handle, without ratchet, with larger contact area at the finger ring, with connector pin for unipolar coagulation	
	Plastic Handle, with style ratchet, with larger contact area at the finger ring, with connector pin for unipolar coagulation	
	Suction and Irrigation Tube, with lateral holes, anti-reflex surface, with two-way stopcock for single-hand control, size 5 mm, length 36 cm	
	Coagulating and Dissecting Electrode, with channel, L-shaped size 5 mm, length 36 cm, for use with suction and irrigation handles	
	Injection Needle, LUER-lock, diameter 1.2 mm, size 5 mm, length 36 cm.	
	Tier, size 5 mm, length 36 cm, for extracorporeal knotting	

Clip Applicator, for use with Titanium-Clips, dismantling, rotating, with ratchet to lock the jaw part holding the clip, size 10 mm, length 36 cm, consisting of: Metal Handle, with ratchet Metal Outer Tube Insert	
Titanium-Clips, medium-large, box with sterile cartridges	
Endo-Loop , with knot, for bleeding stumps, with absorbable synthetic suture, for single use, sterile, size 3 mm, length 33 cm,	
Applicator, for endo of bleeding vessels	
Instrument for trocar incisions, size 2.8 mm, length 17 cm	
Unipolar High Frequency Cord, with 8 mm plug, length 300 cm	
Instruments for Laparoscopic Urology:	
Trocar, size 13 mm, consisting of: Trocar only, with pyramidal tip Cannula without valve, with insufflation stop- cock, length 11.5 cm Multifunctional Valve, size 13 mm	
Double Reducer 13/10 mm and 13/5 mm	
Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, "Tiger-jaw", 2 x 4 teeth, single action jaws, consisting of: Plastic Handle, with style ratchet, with larger contact area Outer Tube, insulated Forceps Insert	
Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action jaws, consisting of: Plastic Handle, without ratchet, with larger contact area Outer Tube, insulated Forceps Insert	
Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagu-lation, size 5 mm, length 36 cm, right angled, double action jaws, consisting of: Plastic Handle, without ratchet, with larger contact area Outer Tube, insulated Forceps Insert	
Dissecting Forceps, rotating, right angled, size 10mm length 36 cm, double action jaws, consisting of: Metal Handle, with hemostat style ratchet Outer Tube, insert Forceps Insert	
Dissecting and Grasping Foeceps, rotating, long, size 10 mm, length 36 cm, double acton jaws, consisting of: Metal Handle, without rachet Outer Tube, insulated Forceps Insert	
Dissecting and Grasping Forceps, rotating, size 10 mm, length 36 cm atraumatic, double action jaws, double action jaws, length of jaws 40 mm, for organs, consisting of: Metal Handle, without ratchet Outer Tube, insulated Forceps Insert	
Grasping Forceps, rotating, dismantling, with connector pin for bipolar coagulation, especially suitable for dissection, double action jaws, size 5 mm, length 36 cm, consisting of: Plastic Handle, without ratchet Metal Outer Sheath Forceps Insert	
Surgical Sponge Holder, for atraumatic dissection of tissue layers, size 5 mm, length 30 cm, consisting of: Handle Outer Sheath, insulated Sponge Holder Insert	
Needle Holder, straight jaws, axial ring handle with ratchet, size 5 mm, length 33 cm, for use with suture material 2/0-4/0, needle size RB (Ethicon)	
Needle Holder, convex/ concave, slim jaws, curved left, axial ring handle with ratchet, size 5 mm, length 33 cm, for use with suture material 3/0, needle size RB-1 (Ethicon)	
Rassweiler Transurethral Bougie, 18 Fr., with working channel 9 Fr., for anastomosis during laparoscopic prostatectomy	
Bipolar High Frequency Cord, length 300 cm	
Vascular Clamp Applicator, size 10 mm, length 32 cm, consisting of: Inner Rod Outer Sheath for use with Deployable Vascular Clamps 4	
Deployable Vascular Clamp, single action jaws, length of jaws 5 cm, size 10 mm, for use with Vascular Clamp Applicator	
Operating Environment	
The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
Standards & Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
Warranty	
Comprehensive warranty for 2 years.	

171 Laparoscopy Set for Pediatric

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
II	Country of Origin:	
	Straight Forward Telescope 0", enlarged view, diameter 5 mm, length 24 cm, autoclavable, fiber optic light transmission incorporated	
	Veress pneumoperitoneum Needle, with spring-loaded blunt inner cannula, LUER-Lock, autoclavable, diameter 2.1 mm, length 10 cm	
	Trocar, with conical tip, with LUER-Lock connector for insufflation, size 6 mm, working length 5 cm, consisting of: Cannula Trocar only Valve Seal	
	Trocar, with pyramidal tip, with LUER-Lock connector for insufflation, size 3.5 mm, length 5 cm, consisting of: Cannula Trocar only Valve Seal	
	Scissors, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, double action jaws, serrated, curved, conical, size 3.5 mm, length 20 cm consisting of: Plastic Handle, without	
-	ratchet, with larger contact area Outer Sheath Scissors Insert	
	Dissecting and Grasping Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, double action jaws, robust, size 3.5 mm, length 20 cm, consisting of: Plastic Handle, without ratchet with larger contact area Outer Sheath Forces Insert	
	Grasping Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, single action jaws, fenestrated, with especially fine atraumatic serration, size 3.5 mm, length 20 cm	
	consisting of: Plastic Handle, with hemostat style ratchet, with larger contact area Outer Sheath Force ps Insert	
	Micro Hook Scissors, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, single action jaws, size 3.5 mm, length 20 cm consisting of: Plastic Handle, without ratchet, with larger	
	contact area Outer Sheath Scissors Insert	
	Dissecting and Grasping Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, double action jaws, size 3.5 mm, length 20 cm consisting of: Plastic Handle, without rarichet, with Insert contact area Outer Sheath Forces Insert	
-		
-	Coagulation and Dissecting Electrode, L-shaped, insulated, with connector pin for unipolar coagulation, size 3.5 mm, length 20 cm	
-	Unipolar High Frequency Cord, with 8 mm plug, length 300 cm	
-	Grasping Forceps, with connector pin for bipolar coagulation, especially suitable for dissection, double action jaws, size 3.5 mm, length 20 cm, Plastic Handle Forceps Insert with Outer Sheath	
	Grasping Forceps, with connector pin for bipolar coagulation, with especially fine atraumatic serration, fenestrated, double action jaws, size 3.5 mm, length 20 cm, color code: light blue consisting of: Plastic Handle Forceps Insert with Outer Sheath	
	Scissors, with connector pin for bipolar coagulation, curved blades, double action jaws, size 3.5 mm, length 20 cm, consisting of: Plastic Handle Scissors Insert with Outer Sheath	
	Suction and Irrigation Tube, with lateral holes, size 3.5 mm, length 20 cm, for use with handles for irrigation and suction	
	Handle with Two-Way Stopcock for suction and irrigation, autoclavable, for use with suction and irrigation tubes size 5 mm	
	Probe, dismantling, without connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, retractable, double action jaw, size 3.5 mm, length 20 cm consisting of Handle Metal Outer Sheath Forceps Insert	
	Needle Holder, iaws curved to left, with tunesten carbide insert, straight handle, with disengageable ratchet, size 3.5 mm, length 20 cm	
	Needle Holder, iaws curved to right, with tungsten carbide insert, straight handle, with disensageable related, size 3.5 mm, length 20 cm	
	Knife, size 3 min, length 10 cm	
	Percutaneous Pyloric Spreader, rotatine, dismantline, without connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, duble action iaws, size 3.5 mm, length 20 cm consisting of: Metal Handle, without ratchet, with	
	larger contact area Metal Outer Sheath Forcess insert	
1	Grasper, for percutaneous use, size 3 mm, length 20 cm	
1	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards an Safety Requirements	
	Must submit (S013485:2003/AC:2007 for Medical Devices AND	
	CE (93/4)2 EFC Directives) or USFDA or TUV approved product certificate.	
	CE. (35) ALE CONTENTS OF ON OF TO VERY DISTORTED CONTENTS OF THE CONTENTS OF T	
	warianisy Comprehensive warranty for 2 years	

172 Manometry Device

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No.		Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	Windows 10 OS based with Spatiotemporal Analysis software for Oesophageal & Anorectal Manometry with latest Chicago version 3 classification	
	Latest Computer with LED monitor, colour laser printer, Keyboard, Mouse and UPS for computer system.	
	Patient unit box for 16 channels with IEC code.	
	Water Perfusion System with 16 capillary Tube and pressure transducer.	
	16 channel or more high resolution Oesophageal manometer Catheter.	
	16 channel or more high resolution Anorectal Catheter.	
	Water Reservoir and Connection for regulator for gas with tubing for 1bar/15PSI	
	The system builds in one specialised trolley.	
1.9	Water heater, Extension cord, spare box with Plastic connector parts.	
1.10	Oesophageal catheter – 2 in No.; Anorectal catheter- 1 in No.	
1.11	3 extra Pressure transducer and capillary tube	
	Operating Environment	
2.1	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
2.2	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
3	Power supply:	
3.1	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
3.1	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
4	Standards & Safety Requirements	
4.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
5	Training	
5.1	Must provide user & service training.	
6	Warranty	
6.1	Comprehensive warranty for 2 years.	
7	Maintenance Service During Warranty Period	
7.1	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
8	Documentation	
8.1	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts, accessories and consumables with their part numbers and costing.	

173 Nerve Stimulator

No.	Item Specifications	Fill your Specification
1	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
1.1	The nerve stimulator should have nerve mapping facility.	
1.2	The nerve stimulator should have Remote control for sterile one handed operation.	

1.4 The Power consumption should be 87M max 1.5 Stimulation current: 5 M max	
1.5) Stimulation current: 5 mA max	
1.6 Stimulation Voltage: 95V	
1.7 Stimulation frequency: 1Hz/2Hz	
1.8 Allowable load impedance: 0 kohms -12kohms	
1.9 Stimulus duration: 1.0ms to 0.05ms range	
1.10 Current measuring accuracy: +/-0.02 mA	
1.11 Impedance measuring range: 1 KOhms – 90 Kohms for target stimulation current >0.5 mA	
1.12 Weight: 250 g maximum	
Free of Cost Accessories:	
Nerve stimulation needles 24G; 25mm	
Nerve stimulation needles 22G; 50mm	
Nerve stimulation needles, 21G; 100mm	
Nerve stimulation needles 20G; 150mm	
Nerve stimulation needles 18 G, 55mm length with 40cm length catheter set	
Nerve stimulation needles 18 G, 110mm length with 100cm length catheter set	
2 Operating Environment	
2.1 The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
2.2 The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
3 Power supply:	
3.1 Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
3.1 Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
4 Standards & Safety Requirements	
4.1 Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2 CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
5 Training	
5.1 Must provide user & service training.	
6 Warranty	
6.1 Comprehensive warranty for 2 years.	
0.2 Competitive wartance for 2 years.	
7 Maintenance Service During Warranty Period	
7 Maintenance Service During Warranty Period 7.1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
7 Maintenance Service During Warranty Period 7.1 Supplier must ensure planned preventive maintenance (IPPM) along with corrective/breakdown maintenance whenever required. 8 Documentation 9 Decumentation	
7 Maintenance Service During Warranty Period 7.1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required. 8 Documentation 8.1 User (Operating) manual in English Should provide 2 sets/hardcopy and soft-copy)	
7 Maintenance Service During Warranty Period 7.1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required. 8 Documentation 9 Decumentation	

8.3 List of important spare parts, accessories and consumables with their part numbers and costing.

Neuroendoscopy Tower

No.	Neuroendoscopy Tower	-
	tem Specifications	Fill your Specification
	Manufacturer Name:	riii your specification
- 11	Model No.:	
- 111	Toucher Origin:	
	Technical Specifications	
	HD CAMERA SYSTEM WITH COMPLETE INSTRUMENT SET FOR INTRACRANIAL PROCEDURES, ETV, MARSUPIALISATION OF ARCHNOID CYS, COLLODAL CYST,	
	VENTRICULAR BIPSY ETC	
	The system should be truly Digital HDTV endoscopic video camera. The system should have the maximum Resolution of 1920 X 1080 pixels, progressive scan and the consistent use of 16: 9 formats for Input & Output to guarantee genuine HDTV.	
	The system should have facility of Optical & Digital Zoom lens to enhance the quality of Image size & cross specialty usage of the camera system, regardless of the telescope used.	
	USB Port for Capturing FUIL HD Videos/ HD Stills in External USB drive and direct interface of USB Printer to facilitate direct printouts.	
	- System should have facility of controlling additional equipments like light source/ insufflators and recording device from the camera head.	
	System should have facility to offer various visualization modes for surgery and diagnosis by shifting the color spectrum like BLUE & GREEN light for recognition of the finest tissue Structures and their differentiation.	
	Parallel live display of visualization modes besides white light mode (picture-in-picture).	
	- Modular design: Digital FULL HD camera module should be compatible for use with video flexible GI endoscopes.	
	Technical Specifications:	
	Image sensor: 3X1/3" CCD-Chip.	
	Pixels 1920 x 1080	
	AGC: Microprocessor controlled	
	Lens: Integrated Zoom Lens f = 15-31 mm (2x optical zoom) Minimum light sensitivity: 1.17 Lux (f = 1.4 mm).	
	Control buttons: 3 (2 of them freely programmable).	
	Video output: 2 x DVI-D output, 1 x 3G-SDI output, 3 x camera input for communication with compatible camera modules, LAN connection, 4 x USB connection (2 x front, 2 x back).	
	Input: Keyboard input for character generator. 5- pole DIN socket.	
	Power Supply:-220-240 VAC 50/60 Hz	
	Certified to :IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL	
	2601 and CE according to MDD, protection class1/CF	
	Documentation system for digital storage of still images and video sequences, with mains cord, power supply: 100/240 VAC, 50/60 Hz	
	Exoscope with Horizontal lence tip & Integrated Illuminator, working distance 25 - 75 cm, length 11 cm, autoclavable, with fiber optic light transmission incorporated and condenser lenses.	
	High Definition Medical Grade Monitor	
	The monitor should have:	
ட	HDTV display in original 16: 9 HDTV format. 1080 p/50 & 1080 p/60 displays possible. LED crystal display.	
	Max. Resolution of 1920X1080. Screen diagonal – 26".	
	Desk top with pedestal.	
	Should have the facility of PIP mode.	
	Specifications	
	HD TFT Flat Screen Monitor with stand size 26", Aspect Ratio 16:9 HD format	
	Brightness: 500 cd/m2	
	Maximum viewing angle: 178" vertical Contrast ratio: 1400: 1	
	Reaction Time – 8ms Rated power: 115 watts Power Supply 100-240 VAC	
	Screen Dimensions: 643 x 396 x 87mm	
	Video Inputs: 2* DVI-D, 2* 3G SDI, 1* S Video , Composite 1* RGB/VGA , 1* RS 232 , 1* RJ 45 Interface.	
	Output: 1* DVI , 1* 3G SDI, 1* S-Video	
	Accessories External 24VDC Power Supply, Mains Cord, Pedestal. Certified to: EN 60601-1, protection class IPX 1	
	Xenon Light Source with Fiber optic cable	
	- Lamp type:- Xenon 15V, 300 Watt	
	- Color Temperatures 6000K	
	· Light Outlets – 1	
	- Light Intensity Adjustment :- Continuously adjustable either manually or automatically by cameras video output signal.	
	- Should be supplied with Diameter 4.8mm, Length 300cm.	
	Certified To :- IEC 601-1 & UL 544 CE According to MDD , protection class 1/CF	
	Equipment Cart LC, rides on 4 antistatic dual wheels equipped with locking brakes, central beam with integrated electrical sub distributors with 6 sockets, grounding plugs, Dimensions in mm (w x h x d): Equipment cart: 830 x 1474 x 730, Shelf: 630 x	
	25 x 510, Caster diameter: 125 mm consisting of: Module, equipment cart .	
	Ventriculoscopewith Wide Angle Straight Forward Telescope 6*, angled eyepiece, outer diameter 6.1 mm, length 18 cm, working channel diameter 2.9 mm, irrigation/suction channel diameter 1.6, autoclavable, fiber optic light transmission	
	incorporated.	
	Telescope 45", enlarged view, ø 3.3 mm, length 25 cm, autoclavable, fiber optic light transmission incorporated.	
	Operating Sheath, graduated, rotating, outer diameter 6.8 mm, working length 13 cm for use with Ventriculoscope Obturator for use with Operating Sheath	
	Operating Sheath, graduated, rotating, outer diameter 6.8 mm, working length 13 cm for use with Ventriculoscope Obturator for use with Operating Sheath Hand Instruments	
	Operating Sheath, graduated, rotating, outer diameter 6.8 mm, working length 13 cm for use with Ventriculoscope Obturator for use with Operating Sheath Hand Instruments Scissors, pointed, rotating, dismantling, with irrigation connector for cleaning, single action jaws, diameter 2 mm, working length 30 cm consisting of: Metal Handle, without ratchet, Outer Sheath, with scissors insert	
	Operating Sheath, graduated, rotating, outer diameter 6.8 mm, working length 13 cm for use with Ventriculoscope Obturator for use with Operating Sheath Hand Instruments Scissors, pointed, rotating, dismantling, with irrigation connector for deaning, single action jaws, diameter 2 mm, working length 30 cm consisting of: Metal Handle, without ratchet, Outer Sheath, with scissors insert Biopsy Forceps, rotating, dismantling, with irrigation connector for deaning, double action jaws, diameter 2 mm, working length 30 cm consisting of: Metal Handle, without ratchet Outer Sheath, with forceps insert	
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	Operating Sheath, graduated, rotating, outer diameter 6.8 mm, working length 13 cm for use with Ventriculoscope Obtrator for use with Operating Sheath Hand Instruments Scissors, pointed, rotating, dismantling, with irrigation connector for cleaning, single action iaws, diameter 2 mm, working length 30 cm consisting off. Metal Handle, without ratchet, Outer Sheath, with forceps insert Grasping Forceps, rotating, dismantling, with irrigation connector for cleaning, double action jaws, diameter 2 mm, working length 30 cm consisting off. Metal Handle, without ratchet, Outer Sheath, with forceps insert Biopy Forceps rotating, dismantling, with irrigation connector for cleaning, single action jaws, diameter 2 mm, working length 30 cm consisting of the Handle, without ratchet, Outer Sheath, with forceps insert Biopy Forceps classing, dismantling, with irrigation connector for cleaning, single action jaws, diameter 2 mm, working length 30 cm consisting of the Handle, without ratchet, Outer Sheath, with forceps insert Ventriculostomy Forceps, diameter 1.7 mm, working length 30 cm Biopy Forceps, double action jaws, diameter 1 mm, working length 30 cm Biopy Forceps, double action jaws, diameter 1 mm, working length 30 cm Biopy Forceps, double action jaws, diameter 1 mm, working length 30 cm Biopy Forceps, double action jaws, diameter 1.7 mm, working length 30 cm Constitution of the property of the pr	
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Operating Sheath, small, outer diameter 4.5 mm, working length 13.3 cm.

Hand Instruments
Biopsy Forces, double action jaws, diameter 1.3 mm, working length 30 cm
Scissors, single-action jaws, semi-rigid, diameter 1.3 mm, working length 30 cm
Unipolar Coagulating Electrode, semi-rigid, diameter 1.3 mm, working length 30 cm
Bioplar Coagulating Electrode, semi-rigid, diameter 1.3 mm, working length 30 cm
Graspins Forces, double-action laws, semi-rigid, diameter 1.3 mm, working length 30 cm
Monopolar, Bioplar & cords
Bioplar Coagulation Electrode, semi-rigid, diameter 1.3 mm, working length 30 cm
Bioplar Coagulation Electrode, semi-rigid, diameter 1.3 mm, working length 30 cm
Bioplar Coagulation Electrode, semi-rigid, diameter 1.3 mm, working length 30 cm
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Bioplar Coagulation Electrode, semi-rigid, diameter 1.3 mm, working length 30 cm
Bioplar Coagulation Electrode, semi-rigid, diameter 1.3 mm, working length 30 cm
Bioplar Coagulation Electrode, semi-rigid, diameter 1.3 mm, working 
            Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, autoclavable. Fiber optic light transmission incorporated
          Suction and Irrigation Sheath 0° for endoscopic diagnosis and surgery of the paranasal sinuses and anterior skull base, vertical oval, diameter 4.8 mm x 6 mm, with separate channel for suction and irrigation, for use with Irrigation and Suction Handles.
          Forward-Oblique Telescope 30*, enlarged view, diameter 4 mm, length 18 cm, autoclavable. Fiber optic light transmission incorporated.
          Suction and Irrigation Sheath 30°, for endoscopic diagnosis and surgery of the paranasal sinuses and anterior skull base, vertical oval, diameter 4.8 x 6 mm, with separate channel for suction and irrigation, for use with Irrigation and Suction Handles.
          Straight Forward Telescope 0*, enlarged view, diameter 4 mm, length 30 cm, autoclavable, Fiber optic light transmission incorporated.
          Suction and Irrigation Sheath 0", for endoscopic diagnosis and surgery of the paranasal sinuses and anterior skull base, vertical oval, diameter 4.8 mm x 6 mm, with separate channel for suction and irrigation, for use with Irrigation and Suction
    Suction and Irrigation Sheath O', for endoscopic diagnosis and surgery of the paranasal sinuses and anterior skull base, vertical oval, diameter 4.8 mm x 6 mm, with standless 28161 TD/TT/ID/IT, 273630, Cleaning Accessories 28160 TK - TLL and HOPKINS* II Telescope 28164 AA

Irrigation and Suction Handle, with push button valve consisting of Handle, with ergonomic ring handle and finger grip plate, for use with Irrigation and Suction Sheit
Hand Instrument

Everator double-ended semi-sharp and blunt, length 26 cm

Nucleus Cutting Forceps single action jaws, movable jaw opening upwards, diameter 3.5 mm, working length 20 cm

Nasal Forceps 547 gutuneds, ize 1, working length 11 cm

Nasal Forceps, Straight, size 1, working length 11 cm

Nasal Forceps, Straight, size 1, working length 11 cm

Nasal Forceps, Straight, size 1, working length 11 cm

Nasal Forceps, Straight, size 1, working length 11 cm

Dissector

Dissector

Dissector, sharp, round spatula, tip angled 45′, size 2 mm, with round handle, length 25 cm

Elevator, sharp, flat long, spatula, tip angled 45′, size 1.5 mm, with round handle, length 25 cm

Seeker, 90′, with ball end, diameter 0.4 mm, length 25 cm

Seeker, 90′, with ball end, diameter 0.4 mm, length 25 cm
                      Sissor straight, with small handle, with cleaning connector, working length 18 cm 
issors, straight, with small handle, with deaning connector, working length 18 cm 
issors, curved to left, with small handle, with deaning connector, working length 18 cm 
issors, curved uponards, with small handle, with cleaning connector, working length 18 cm 
issors, curved uponards, with small handle, with cleaning connector, working length 18 cm 
issors, upturned 45°, delicate, sheath 360° rotatable, with cleaning connector, working length 18 cm 
issors, upturned 45°, delicate, sheath 360° rotatable, with cleaning connector, working length 18 cm 
issors, upturned 45°, delicate, sheath 360° rotatable, with cleaning connector, working length 18 cm 
issors, upturned 45°, delicate, sheath 360° rotatable, with cleaning connector, working length 18 cm 
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issors, upturned 45°, delicate, sheath 360° rotatable, with cleaning connector, working length 18 cm 
issors, upturned 45°, delicate, sheath 360° rotatable, with cleaning connector, working length 18 cm 
issors, upturned 45°, delicate, sheath 360° rotatable, with cleaning connector, working length 18 cm 
issors, upturned 45°, delicate, sheath 360° rotatable, which is sheath 360° rot
        Forceps, very delicate, oval cupped jaws 0.9 mm, curved upwards, working length 18 cm
      Forcesp, very delicate, oval cupped jaws 0.9 mm, curved upwards, working length 18 cm
Spoon Forcesp, soon size 8 x 10 mm, single action jaws, working length 17 cm
Miniature Forcesp, through- cutting, with fine flat jaws, working length 18 cm
Nasal Forcesp, with extra fine flat jaws, through-cutting, tissue sparing, width of
Lot 1.5 mm, straight sheath, straight jaws, with cell miniature connector, working length 18 cm
Nasal Forcesp, with extra fine flat jaws, through-cutting, tissue sparing, width of
Lot 1.5 mm, straight sheath, straight jaws, with celaning connector, working length 18 cm
Nasal Forcesp, with extra fine flat jaws, through-cutting, tissue sparing, width of cut 1.5 mm, straight sheath, jaws angled upwards 45°, with cleaning connector, working length 18 cm
Nasal Forcesp, with extra fine flat jaws, through-cutting, tissue sparing, width of cut 1.5 mm, straight sheath, jaws angled downwards 45°, with cleaning connector, working length 18 cm
Curette
Curette
Curette, round spoon, tip slightly angled, size 2 mm, with round handle, length 25 cm
      Curette
Curette, round spoon, lip slightly angled, size 2 mm, with round handle, length 25 cm
Curette, round spoon, lip slightly angled, size 2 mm with round handle, length 25 cm
Curette, round wire, 10 3 mm, tip angled 45°, with round handle, length 25 cm
Curette, round wire, 10 3 mm, tip angled 45°, with round handle, length 25 cm
Ring Curette, round wire, 10 3 mm, distally curved shaft, with round handle, length 25 cm
Curette, round wire, 10 3 mm, distally curved shaft, with round handle, length 25 cm
Curette, strup-shape, blunt, with round handle, length 25 cm
Monopolar, Bipolar & Cord
Coaquilation Ball Electrode, diameter 2 mm, laterally curved, working length 13 cm
Take-spart Bipolar Forces, width 1 mm delicate jaws, distally angled 45°, horizontal closing, outer diameter 3,4 mm, working length 20 cm, consisting of:
Handle, OuterTube, Inner Tube, Bipolar Insert.
Bipolar Forces Insert, delicate, 1 mm, distally angled 45°, axial closing, axial closing, size 3 mm, length 20 cm
Sipolar Forces Insert, delicate, 1 mm, distally angled 45°, axial closing, size 3 mm, length 20 cm
Sixticin Tube
  Bipolar High Frequency Cord, Jength 300 cm.

Suction Tube, with cut-off hole, drop-shaped, with distance markings, conical distal end, 6 Fr., working length 15 cm

Suction Tube, with cut-off hole, drop-shaped, with distance markings, conical

distal end, 8 Fr., working length 15 cm

Suction Tube, with out-off hole, drop-shaped, with distance markings, conical distal end, in curved upwards, ball end, 2.4 mm, working length 15 cm

Suction Tube, with out-off hole, drop-shaped, with distance markings, conical distal end, malleable, 6 Fr., working length 15 cm

Suction Tube, with out-off hole, drop-shaped, with distance markings, conical distal end, malleable, 6 Fr., working length 15 cm

Suction Tube, with out-off hole, drop-shaped, with distance markings, conical distal end, malleable, 8 Fr., working length 15 cm

Suction Tube, with out-off hole, drop-shaped, with distance markings, conical distal end, malleable, 8 Fr., working length 15 cm

Suction Tube, with out-off hole, drop-shaped, with distance markings, conical distal end, malleable, 8 Fr., working length 15 cm

Suction Tube, with out-off hole, drop-shaped, with distance markings, conical distal end, malleable, 8 Fr., working length 15 cm

Suction Tube, with out-off hole, drop-shaped, with distance markings, conical distal end, malleable, 8 Fr., working length 15 cm

Suction Tube, with out-off hole, drop-shaped, with distance markings, conical distal end, malleable, 8 Fr., working length 15 cm

Punch, detachable, rigid, downbiring 60° forward, size 2 mm, working length 17 cm

Bone Punch, detachable, rigid, downbiring 60° forward, size 2 mm, working length 17 cm

Bone Punch, detachable, rigid, downbiring 60° forward, size 2 mm, working length 17 cm

Bone Punch, detachable, rigid, downbiring 60° forward, size 2 mm, working length 17 cm

Bone Punch, detachable, rigid, downbiring 60° forward, size 2 mm, working length 17 cm

Bone Punch, detachable, rigid, downbiring 60° forward, size 2 mm, working length 17 cm

Insertly, external dimensions (size 3 km, size 3 k
    forces immediate Punch, Ø3,5mm, working length 360mm.

Deflectable Forces, Ø3,5mm, working length 360mm.

Tephine, with round handle, inner diameter 3.2 mm, outer diameter 4.2 mm, working length 22 cm

Trephine, inner diameter 1.6 mm, outer diameter 2.7mm, working length 30 cm with edged handle.
    | Trephine, with round handle, inner giameter $1.4 mm, outer diameter $1.4 mm, working length $2.4 mm.
| Trephine, inner diameter $1.5 mm, outer diameter $2.7 mm, working length $3.0 cm with edized handle.
| Bipolar & Cords
| Angled bipolar probe, $0.25 mm, working length $3.0 cm with edized handle.
| Bipolar High Frequency Cord, length $3.0 cm.
| Containers for Sterilization |
| Bipolar High Frequency Cord, length $3.0 cm.
| Containers for Sterilization |
| Plastic Container for Sterilization and Storage, perforated, with transparent lid, with inserts for two angeled rigid telescopes, external dimensions (w x d x h): 515 x 240 x 84 mm
| Plastic Container for Sterilization and Storage of Variable Instrument Sets, perforated, with transparent lid, with silicone mait, two-level storage, $1.4 additional insert), external dimensions (w x d x h): 545 x 260 x 115 mm. Endoscopic Lumbar Disectomy& Root decompression for all types if disc Hemiation from Central to Far leteral disc and for treatmettinfo Lumbar stenosis along with Bilateral decompression using Unilateral approach
| Telescope | Telescope 30", eveptice angled 45", diameter 4 mm, length 9.5 cm, autoclavable, fiber optic light transmission incorporated.
| Straight Forward Telescope 30", Eveptice 45" angled, diameter 4 mm, length 12 cm, for use with system, autoclavable, Fiber optic light transmission incorporated.
Straight Forward I ERESCURE 20. 1. YEARWING.

Localizer

Puncture Needle, including stylet, diameter 1.8 mm, working length 18 cm, with 1.3 mm opening for guide wire

Guide wire, not sterile, diameter 1.2 mm, length 31 cm, package of 10

Dilation Sleeve, DDS. 2mm, ID 1.5 mm, graduated, length 1.3 cm, colour code white

Dilation Sleeve, DDS. 9 mm, ID 1.5 mm, graduated, length 21 cm, colour code yellow

Dilation Sleeve, graduated, inner diameter 9 mm, outer diameter 12.7 mm, length 19 cm, color code: orange

Dilation Sleeve, DD16.9 mm, ID15.1 mm, graduated, length 17cm, colour code red

Dilation Sleeve, OD16.9 mm, ID15.1 mm, graduated, length 15cm, colour code green

Dilation Sleeve, OD18.9 mm, ID17.1 mm, graduated, length 14 cm, colour code blue
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	Dilation Sleeve, OD20.9 mm, ID19 mm, graduated, length 13 cm, colour code black	
	Trocar & Attachments diameter 15 mm	
	Trocar, diameter 15 mm, working length 40 mm, for use with Attachment , Telescope Sheath and Telescope 30°.	
	Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 mm, working length 70 · Trocar, diameter 15 mm, for use with Attachment and Telescope 30 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Trocar, diameter 15 · Tro	
	Troca, usineter 35 min, working length 70 min, or use with reactioner and releasope 30 Attachment damater 15 min view with Troca, and telescope.	
	Attachment, diameter 15 mm, for use with Trokars and Telecopes, movable inside the trocar	
\vdash	Telescope Sheath, movable, for use with Telescope 30° and Attachments.	
	Telescope Sheath,	
	Trocar & Attachments diameter 19 mm	
	Trocar, diameter 19 mm, working length 40 mm, for use with Attachment ,	
	Telescope Sheath and Telescope 30*.	
	Trocar, diameter 19 mm, working length 74 mm, for use with Attachment and Telescope	
	Trocar, diameter 19 mm, working length 97 mm, for use with Attachment and Telescope 30*	
	Attachment, diameter 19 mm, for use with Trocars and Telescopes 30*.	
	Attachment, movable inside the trocar, diameter 19 mm, for use with Trocars and Telescopes 30°.	
	Trocar & Attachments diameter 23 mm	
	Trocar, diameter 23 mm, working length 40 mm, for use with Attachment , Telescope Sheath, and Telescope 30°.	
	Trocar, diameter 23 mm, working length 76 mm, color code: black, for use with Attachment.	
	Trocar, diameter 23 mm, working length 99 mm, color code: black, for use with Attachment and Telescope 30°.	
\vdash	Trocar, wanter 23 mm, working territor 197 mm, court core, backs, for 1989 with Artacliment and Tenescope 50 . Attachment, diameter 23 mm, working territor 197 mm, court core, backs, for 1989 with Artacliment and Tenescope 50 .	
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\vdash	Attachment, movable inside the trocar, diameter 23 mm, or use with Trocar and Telescope 30".	
-	Bone Punches	
_	Bone Punch, dismantling, 90° upbiting, not through-cutting, 2 mm, working length 24 cm	
<u> </u>	Bone Punch 40°, upbiting forward, size 2 mm, working length 24 cm	
└	Punch, dismantling, bayonet-shaped, fixed, downbiting 40° forward, 2 mm, working length 17 cm	
	Punch, dismantling, bayonet-shaped, fixed, upbiting 40* forward, 2 mm, working length 17 cm	
	Hand Instruments	
	Spoon Forceps, dismantling, robust, oval, spoon size 3 x 10 mm, single action	
	jaws, working length 20 cm	
	Suction Tube, with cut-off hole and stylet, LUER, working length 15 cm, 2.5 mm	
	Suction Tube, with distal nerve retractor, with cut-off hole, LUER-Lock connector, diameter 2.7 mm, working length 15 cm	
	Tube, with cut-off hole and stylet, LUER, diameter 4 mm, working length 15 cm	
	Hook Scissors, single action jaws, size 2.7 mm, working length 25 cm	
	Palpation Hook, bayonet-shaped, distally angled 90", with ball end, with round handle, working length 20 cm	
	Dissector dead hand, bayonet shaped, 3 mm, curved upwards, with round handle, sharp, working length 16 cm	
\vdash	Dissection dead manay, devotines map eacy of min, curred underwards, with 10 min manufer, small p, working rengent 20 cm. Nerve Hook, dist which for manager, working tengent 20 cm. Nerve Hook, dist which for manager, working tengent 20 cm.	
_	we've nous, distal width 3 mm, barjonet-shapet, working length 16 cm	
_		
-	Nerve Retractor, hook length 2 mm, diameter 4 mm, angled sheath, working length 20 cm	
\vdash	Curette, small, curette size (I x w): 2.7 x 4 mm, bajonet-shaped, distal angled 45*, working length 20 cm	
	Bipolar & Cords	
	Bipolar Forceps, rounded tip, width 2 mm, outer diameter 3.4 mm, working length 20 cm, consisting of: Bipolar Ring Handle, Outer Sheath , Inner Sheath , Forceps Insert	
	Take-apart Bipolar Forceps, width 1 mm delicate jaws, distally angled 45°,	
	horizontal closing, outer diameter 3,4 mm, working length 20 cm, consisting of: Handle , Outer Tube , Inner Tube , Bipolar Insert	
	Bipolar High Frequency Cord, Length 300 cm	
	Accessories to perform Spinal endoscopy	
	Articulated Stand, reinforced version, only, L-shaped, with one mechanical central clamp for all five joint functions, height 48 cm, operating range 52 cm, with fastene.	
	Socket to clamp on the operating table, for use with European and United States standard rails, also suited for rails from 25x10 up to 35x8 mm, with lateral clamping element for height adjustment of the articulated stand Plastic Container for	
L	Sterilization and Storage of Variable Instrument Sets, perforated, with transparent lid, with silicone mat, two-level storage, (1 additional insert), external dimensions (w x d x h): 545 x 260 x 115 mm.	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Shall provide UPS of suitable rating with voltage regulation and spike protection for 30 minutes back-up.	
	Standards and Safety Requirements	
1	Justinuius aini. Jainty in requiriminens Must submit jo 13485:2003 (Aic: 2007 AND	
—	WINDS SUBMITED SECTION FOR CONTINUE AND APPLICATION OF THE SECTION	
\vdash	LE 193/42 LEC DIFECURES) OF OSFORD TO A approved product certificate.	
1	Electrical safety conforms to standards for Electrical Safety IEC 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment.	
	User Training	
—	user iraning Must provide user training (including how to use and maintain the equipment).	
—	Must provide user training including now to use and maintain the equipment). Warranty Warranty	
\vdash		
—	Comprehensive warranty for 2 years after acceptance.	
-	Maintenance Service During Warranty Period	
_	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.	
	Documentation	
L	User (Operating) manual in English.	
	Service (Technical / Maintenance) manual in English.	
	List of important spare parts and accessories with their part number and costing.	
_		1
	Neuropacular Set	

175 Neurovascular Set

No.	Item Specifications	Fill your Specification
140.	Manufacturer Name:	Till Your Specification
- II	Model No.:	
III	Country of Origin:	
	Technical Specifications	
	Dissecting Forceps Debakey, Atrumatic, 2 mm 8" QTY:2	
	Dissecting Forceps Debakey, Atrumatic, 2.7 mm 10" QTY:2	
	Dissecting Forceps Atrumatic Debakey 1.5 mm, 1.5 mm 6" QTY:2	
	Dissecting Forceps Atrumatic Debakey 1.5 mm, 1.5 mm 7" QTY:2	
	MicroRing Tip Forceps, 20 CM IDPC QTY:2	
	Gerald Debakey Forceps, 20 CM IDPC QTY:2	
	Jameson Scissors 6" QTY:2	
	Needle Holder Ryder T.C. 6" QTY:2	
	Needle Holder Ryder T.C. 7" QTY:2	
	Needle Holder Mayohegar 9" T.C. QTY:2	
	Needle Holder Mayohegar 8" T.C. QTY:2	
	Needle Holder Vascular 7" T.C. QTY:2	
	Needle Holder Vascular 8" T.C. QTV:2	
	Needle Holder Vascular 5" T.C. QTY:2	
	Lung Holding Forceps 8" QTY:2	
	Semb's Clamp QTY:2	
	Mixter 9" QTV:2	
	Mixter 7" QTV:2	
	Mixter 6" QTV-2	
	Ring Bull Dog Clamp 120 mm QTV:2	
	Cooley Derra Clamp Assorted 17 CM QTV:2 Debabey Castered Clamp, Curved 3 www, 15 CM QTV:2	
	Decakey Lasteneoa Liamp, Lurived Jaws, 15 LW U11:2 [Asy S Camp 2 LO M QTY:2	
	Key S Lang 2 Luw (LT 2) Debakey Vascular/Aortic Cross Clamp 70 Degree 25 CM (LTY: 2) Debakey Vascular/Aortic Cross Clamp 70 Degree 25 CM (LTY: 2)	
	Decimenty vascular/Mortic Cross Calmip 70 Degree 25 CM QLT-2 Debaskey Vascular/Mortic Cross Calmip 70 Degree 21 CM QLT-2 Debaskey Vascular/Mortic Cross Calmip 70 Degree 21 CM QLT-2	
	Decimenty vascular/Mortic Cross Calmip 70 Degree 2.1 CM CQT-2 Debaskey Vascular/Mortic Cross Calmip 70 Degree 2.1.5 CM QTY-2	
	Deciminary vasiciality/Activity (17/2) Satansky Clarific (17/2) Satansky Clarific (17/2) Satansky Clarific (17/2)	
	Satansky Camb 2 5 CM QTY:2	
	Debakey Vascular Clamp, Curved 5- Shaped 12.5 CM QTY:2	
	Debakey Vascular Clamp, Straight 19 CM QTV:2	
	Debakey Vascular Clamp, Straight 25 CM QTY:2	
	Debakey Vascular Clamp, 45 Degree 19 CM QTY:2	
	Chitwood Clamp IDPC QTY:2	
	Needle Holder (Castoviego) 7-0 needle 18 CM QTY:2	
	Needle Holder (Castoviego) 7-0 needle 21 CM QTY:2	
	Needle Holder (Castoviego) 6-0 needle 18 CM QTY:2	
	Needle Holder (Castoviego) 6-0 needle 21 CM QTY:2	
	Needle Holder (Castoviego) 5-0 needle 18 CM QTY:2	
	Needle Holder (Castoviego) 5-0 needle 21 CM QTY:2	
	Sharp Hook 7" QTY:2	
	Postts Scissors Forward 45 Degree, 7" Ring Handle QTY:2	
	Postts Scissors Forward 45 Degree, 7" Ring Handle QTY:2	
	Postts Scissors Backward 125 Degree, 7" Ring Handle QTY:2	
	Postts Scissors Backward 125 Degree, 7" Ring Handle QTY:2	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
	Comprehensive warranty for 2 years.	l

176 NIRS (Near Infrared Spectrometer) Machine

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
III	Country of Origin:	
	Technical Specifications	
	Applications: For accurate measurement of moisture, crude protein, starch, fat, ash, amino acids, N, K, and Ca from samples, with the possibility to add other parameters as per customer request, to find out constituents of the samples (mainly from	
	animals and plants) for nutritional and forensics studies.	
	Wavelength Range 400 - 2500 nm	
	Spectral Bandwidth ≤ 10nm	
	Spectral resolution ≤ 1nm	
	Wavelength accuracy ≤ 0.1 nm	
	Wavelength precision ≤ 0.005 nm	
	Absorbance range 0 to 2 AU	
	Analysis Time ≤5 Min	
	Operating Temperature Ambient to +10°C	
	Product analysis All grains, powders, pellets, Liquid, Fibre, meals, slurries, pastes, seeds, Fruits, etc	
	Feed Parameters Moisture, Protein, Oil, Starch, Fibre, Ash, organic compounds, etc	
	Automated background correction for all parameters (as per point 10) to be included with the system.	
	Sample containers/holders to accommodate all types of products to be included with the system.	
	Direct calibration transfer to and from all NIR Spectrometers.	
	Supply of required calibration standards should cover a wide range of feed and raw materials, determines moisture, protein, fat parameters in all types of samples to be included with the system.	
	All associated accessory equipment for the product analysis to be included along with the offer.	
	Required instrument Calibration Standards should be supplied along with instrument.	
	Latest branded computer with instrument control and data analysis software compatible at the above to be included in the offer.	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Power supply:	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Training	
	Must provide user & service training.	
	Warranty	
	Comprehensive warranty for 2 years.	
	Maintenance Service During Warranty Period	
	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts, accessories and consumables with their part numbers and costing.	

Panoramic X-Ray

No.	hard Constitutions	Fill Canaification
	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
	A. X-Ray Tube	
	1. Generator: High frequency DC generator, operating frequency at least 40kHz	
	A. Geriendo, ingri requesto, b. gerieng requesto, persong requesto, persong reconstruction and the second s	
	3. Tube voltage: 57-85KV	
	4. Tube Current: 10 mA	
	5. Exposure compensation: Automatic Exposure Control.	
	6. Focal spot size: : Between 0.7mm X 0.7 mm and 0.5mm X 0.5 mm as per IEC standards	
	7. Total Filtration: Equivalent to 2.5mm Al or more	
	8. Magnification of exposures: Should have a constant magnification	
	9. Effective exposure time: Adjustable Timer (Pediatric & Adult) for the available imaging programmes.	
	R. Basic Unit. Augustude: Time: 1: Colorie d'Andre Vincer d'andre magnig programmes.	
	5. Desair Units 1. The x ray machine should have AERB approval certification.	
_		
	2. Should be floor or wall mounted model.	
	3. Should have fully/semi motorized patient positioning system	
	4. Should have 3 laser positioning lights – Mid Sagital, Frankfurt and Canine	
	5. Patient positioning by Bite block, Chin rest, Chin support and motorized/manual temple support.	
	6. Should have accessibility for wheel chair patients.	
	7. Should have centralized control system with all functions controlled by colour TFT touch screen or PC, Graphical User Interface (GUI) with digital display of technical factors and selected programmes.	
	7. Should have terminated control specified in the control of the	
\vdash	9. Should have automatic compensation for the cervical vertebrae shadow.	
<u> </u>	10. The imaging geometry should eliminate the redundant shadows and ghost images.	
	11. Should have a test mode which disables X-ray radiation during operation.	
∟_	12. Should have exposure counters separate /or combined for Panoramic, Cephalometry and total no of images	
	13. Should have the following programs:	
	a) Standard Panoramic Program.	
	as Januaria of Patriciania, Trugrani. b) Pediatric program (low dose, reduced exposure area for small patient)	
_	c) Automatic Double TMJ Program	
	d) Sinus program	
	e) Lateral and PA Cephalogram.	
	f) Should Support carpus / hand wrist imaging.	
	g) Submentovertex views.	
	14. Should have motorized up and down movement.	
	C. Digital Cephalometric System	
_	1. Should have Computerized automatic cephalometric system.	
	2. Should have automatic alignment of radiation source	
	3. Should have functionally designed and easy-to-use head positioner.	
	4. Should have swiveling nasal support.	
	5. Should have magnification scale that appear on the image	
	6. Automatic soft-tissue filter based on the position of the nasion support.	
	D. Digital Sensor System	
	1. Should have a high resolution CCD /CMOS flat panel sensor for panoramic and cephalometry. It should be possible to take both panoramic and cephlometric image by using the sensor provided. The cost of one additional sensor shall be quoted	
	separately in the BOQ and the cost offered will not be taken for evaluation.	
	2. CCD pixel size: between 35?m and 150 ?m.	
	3. CCD active surface: to be specified.	
	4. Image field: to be specified.	
	5. Pixel matrix: to be specified.	
	6. Soft tissue filter should be software operated.	
	6. Service Added - Michigan de Service - Servi	
	Latest branded computer with following specifications	
-	1. Processor – core i5 4th generation or better or equivalent	
-	2. 8 GB RAM and 1 TB or more on Hard disk.	
	3. Should include 21" LCD/TFT monitor with high resolution to ensure image quality.(Display /monitor resolution min 1024 x1024 or higher)	
1	4. CD/DVD Burner.	
	5. Graphics card NVIDIA 2 GB dedicated GPU or equivalent.	
	6. Accept images from CCD/CMOS sensor without any loss of data.	
	U. Auctor integers from Conference with one of the Conference of t	
-	8. Storing images in the local disk for predefined period.	
—	9. Should be with upgradeable imaging software.	
	F. Functional Requirements For Work Station	
	1. Built in routine for using predefined image processing parameters for image quality enhancement.	
	2. Mechanisms for storing the patient image based on name, date, etc.	
	Mechanisms for storing the patient image based on name, date, etc. Gapability of storing user defined image processing parameters.	
	2. Mechanisms for storing the patient image based on name, date, etc. 3. Capability of storing user defined image processing parameters. 4. Capability of serveryining predefined image parameters with user defined parameters & storing these two images separately.	
	2. Mechanisms for storing the patient image based on name, date, etc. 3. Capability of storing user defined image processing parameters. 4. Capability of solverwriting predefined image parameter with user defined parameters & storing these two images separately. 5. Correcting typographically in patient demographic module, in case the RIS connection was down and manually data entry was done.	
	2. Mechanisms for storing the patient image based on name, date, etc. 3. Capability of storing user defined image processing parameters. 4. Capability of storing user defined image parameter with user defined parameters & storing these two images separately. 5. Correcting typographically in patient demographic module, in case the RS connection was down and manually data entry was done. 6. Capability of hanging W/II, flipping crotating, zooming, colimitating enabting incoming image.	
	2. Mechanisms for storing the patient image based on name, date, etc. 3. Capability of storing user defined image processing parameters. 4. Capability of overwriting prodefined image parameters with user defined parameters & storing these two images separately. 5. Correcting typographically in patient demographic module, in case the RIS connection was down and manually data entry was done. 6. Capability of changing W/I, Ripping, rotating, zooming, collimating annotating incoming image. 7. Autor routing incoming image to predefined DICOM store (SCP storage) or Print destination (SCP print destination).	
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	2. Mechanisms for storing the patient image based on name, date, etc. 3. Capability of droring user defined image processing parameters. 4. Capability of overwriting prodefined image arameters with user defined parameters & storing these two images separately. 5. Correcting typographically in patient demographic module, in case the RIS connection was down and manually data entry was done. 6. Capability of otheraping WJI, flipping, rotating, zooming, collimating annotating incoming image. 7. Autor outring incoming image to predefined DICOM store ISCP storagel or Print destination ISCP print destination. 8. Mechanism of printing multiple images in one film, with the possibility of side and True size printing. 9. The work station should let the user select a film size and lay out for hard copies with a WYSIWYG (What you see is what you get), output look up table selection, number of copies selection capabilities. 10. Minimum of 15 per configured layoust for printing and also possibility of further configuration should be possible.	
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2. Software for printing on any DICOM printer.	
3. Software for storing images on any DICOM3 or newer versions compliance stations.	
4. Software for e-filming application: Any Software upgradeability for 5 years to be done by the company	
H. Dry Imager System	
1. Print images from work stations.	
2. Should be capable of printing images in DICOM format / Direct DICOM Compatibility.	
3. Mechanism to print images of OPG, Ceph and multiple image prints of IOPA. The tray should be adjustable to (8" x 10") and (10" x 12").	
4. Resolution should be 300-508 dpi or better.	
I. Accessories & consumables	
1. Films for Dry Imager system – (8" x 10")-300 numbers	
2. Three folded leaded protective barrier – 1 no.	
3. 5 KVA Online UPS with 30 minutes backup for operating all the above mentioned equipments.	
4. Lead apron light weight Velcro type 1 no, Thyroid guard -1 No, AERB Approved	
2 Accessories, spares and consumables	
2.1 All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
3 Operating Environment	
3.1 The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
3.2 The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
4 Power supply:	
4.1 Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
5 Standards and Safety Requirements	
5.1 Must submit ISO 9001 or ISO 13485:2003/AC: 2007	
5.2 CE or USFDA or TUV approved product certificate.	
6 Training	
6.1 Must provide user & service training.	
7 Warranty	
7.1 Comprehensive warranty for 2 years after acceptance.	
8 Maintenance Service During Warranty Period	
8.1 Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
9 Documentation	
9.1 User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
9.2 Service (Technical / Maintenance) manual in English Should provide 2 sets (hardcopy) and soft-copy)	
9.3 List of important spare parts, accessories and consumables with their part numbers and costing.	

Pediatric and Micro Surgery Surgical Set

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3. Ribbon type 15. Ribbon Type Malleable Retractor - 5 1. Size Jinch width, Length - 13" 2. Malleable 3. Ribbon type 3. Ribbon type 16. Ribbon Type Malleable Retractor - 5 1. Size 1/2 inch width, Length - 7 inches 2. Malleable 3. Ribbon Type Malleable Retractor - 5 4. Size 1/2 inch width, Length - 7 inches 3. Malleable		3. Tip = 12 mm, Blunt Tip 4. Straight with Round Knurnel Handle 1.3 swiss Model Blade Breaker and holder for Ophthalmology- 1. Pencil Type 2. Length = 90 mm 3. Tip = 12 mm, Blunt tip 4. Ribbon Type Malleable Retractor - 5 1. Size 1 1/2 inch width, Length = 13 inches	
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17. Ribbon Type Malleable Retractor – 5	
1. Size 10mm width, Length – 5 inches	
2. Malleable	
3. Ribbon type	
18. Denis Browne Abdominal Retractor – Child Size – 1	
1. Ring/Frame Only	
2. Size – 18x14 cms	
3. Stainless Steel	
4. Oval Sproket Frame	
19. Denis Browne Abdominal Retractor – Adult Size – 1	
1. Ring /Frame Only	
2. Size – 25x18 cms	
3. Stainless Steel	
4. Oval Sproket Frame	
20. Valve Allien Retractor Blades for Denis Browne Abdominal Retractors – 2	
1. 40x40 mm bades	
21. Valve Allien Retractor Blades for Denis Browne Abdominal Retractors – 2	
1. 30x40 mm bades	
21. Valve Allien Retractor Blades for Denis Browne Abdominal Retractors – 2	
1. 30x40 mm bades	
22. Valve Allien Retractor Blades for Denis Browne Abdominal Retractors – 2	
1. 50x40 mm bades	
* It should be supplied with two sterilization case from the same manufacturer.	
* The company must quote all items.	
Operating Environment	
The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
Standards & Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
Warranty	
Comprehensive warranty for 2 years.	

Pediatric Plastic Surgery Set

No.	Item Specifications	Fill your Specification
1	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
	Technical Specifications	
	Plastic set:	
	US ARMY RETRACTOR - SET OF 2 Qty: 2	
	RAGNEL RETRACTOR D.E. KLEINERT Qty: 2	
	SENN RETRACTOR SHARP D.E. Qty: 2	
	LUER "S" RETRACTOR 5 3/4" DE 6mm and 9mm Qty: 2	
	#3 SCALPEL HANDLE Qty: 2	
	FRAZIER SUCTION TUBE 10 french 30deg Qty: 1	
	GOODHIL-PYNCHON TONSIL SUCTION TUBE Qty: 1	
	DEBAKEY TISSUE FORCEPS, DELICATE 6" 1.5mm Qty: 4	
	GERAL DRESSING FORCEPS 6 3/4" str serr Qty: 2	
	BOWMAN PROBE 5" 00/0 Qty: 1	
	BOWMAN PROBE 5" 1/2 Qty: 1	
	BOWMAN PROBE 5" 3/4 Qty: 1	
	BOWMAN PROBE 5" 5/6 Qty: 1	
	BOWMAN PROBE 5" 7/8 Qty: 1	
	TC MAYO HEGAR NEEDLE HOLDER 6° Qty. 1	
	TC WEBSTER NEEDLE HOLDER 5" SMOOTH Qty: 2	
	RYDER NEEDLE HOLDER 5" TC Qty: 2	
	TC MAYO SCISSORS 6 3/4" STR. BEVELED Qty. 1	
	TC METZENBAUM SCISSORS 5 3/4" CVD. DELICATE Qty: 1	
	LITTLER SUTURE SCISSORS Qtv: 1	
	STEVENS TENOTOMY SCISSORS 4 1/8" CVD. BL/BL. Qty; 1	
	HARTMAN MOSQUITO FORCEPS. 3 1/2" STR. Qty. 8	
	HARTMAN MOSQUITO FORCEPS, 3 1/2" CVD. Qty: 8	
	JACOBSON MICRO MOSQUITO FORCEPS 5" CVD Qty; 4	
	JACOBSON MICRO MOSQUITO FORCEPS 5" CVD Qty. 2	
	MOSQUITO FORCEPS. 5" STR. (HALSTED). Otv: 2	
	KELLY FORCEPS, 5 1/2" CVD. Qty. 2	
	MIXTER FORCEPS 5 1/4" FULLY CURVED Qty1	
	ALLIS TISSUE FORCEPS. 6" SMG TEETH Oty: 2	
	BASCOCK FORCEPS 6 1/4" Qty: 2	
	ROCH-OCHSINER FORCEPS 1X2 TEETH 5.5" STR. Qty; 4	
	ROCH PEAN FORCEPS, 6 1/4" CVD. Qty: 2	
	SCHNIDT FORCEPS 7.5" HALF CVD. Qty: 1	
	FOERSTER SPONGE FORCEPS, 7:1/2in STR SERR Qly; 1	
	LORNA (EDNA) TOWEL FORCEPS. 5.1/4" Qty. 2	
	BACKHAUS TOWEL FORCEPS, 3 1/2" Opt; 6	
	BISHOP-HARMON FORCEPS. 1x2T 0.5mm Qty: 2	
	ADSON FORCEPS 4 3/4" 1X2 TEETH & SERRATIONS DEL - 1.5mm tip width Oty: 2	
	AUSTIM MICROS SUTURE FORCEPS, TW 0.8mm - 01.140mm[st]* Qq; 2	
	FARABEUR RETRACTOR 43/4" DE set - Sett of 2. Otv. Zeets	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -57C-40°C and relative humidity of 10-95%	
	The unit stant be capable of being store continuously in animalinit temperature of 12 C-40 C and relative number of 2019. Standards & Safety Requirements	
	Justinumus as Joseph Regular enteriors. Must submit 1501485:2003/AC:2007 for Medical Devices AND	
	Was a sum in 1501-3601-2600/NCLSEOD in Westing Development State (1501-3601-3601-3601-3601-3601-3601-3601-36	
	City of particles of the content of	
	variating. Comprehensive warranty for 2 years.	
ь	perimenate mining in a year.	1

180 Pediatric Scale

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
	Country of Origin:	
1	Technical Specifications	
1.1	ELECTRONIC DIGITAL WEIGHING SCALES	
1.2		
1.3	Resolution 10 gm.	
1.4	- Accuracy + 1 to 10 gm.	
1.5	- Measuring position supine, sitting and standing.	
1.6	- Large LCD Display.	
1.7	Note for all scale weighing , caliberation check should be done once half yearly	
2	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
	Power supply:	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Standards & Safety Requirements	
4.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Training	
5.1	Must provide user & service training.	
6	Warranty	
6.1	Comprehensive warranty for 2 years.	
. 7	Maintenance Service During Warranty Period	
7.1	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
8	Documentation	
8.1	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
8.2	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
8.3	List of important spare parts, accessories and consumables with their part numbers and costing.	

8.3 List of important spare parts, accessories and consumables with their part numbers and costing.

Pediatric Thoracotomy Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 11	Country of Origin:	

Technical Specifications	
Rampley Sponge Forceps 18 cm QTY:3	
Instrument Pins QTY:2	
Bonney Dissecting Forceps 1 x 2 Teeth 18 cm QTY:1	
Moynihan Dissecting Forceps 23 cm QTY:2	
Roberts Artery Forceps 23 cm straight QTY:10	
Tudor Edwards, Artery Forceps 23 cm QTY:3	
Rochester- Ochsner Artery Forceps 1:2 Teeth 16 cm QTY:3	
Thomson Walker Needleholder 20 cm QTY:2	
B.P Handle No. 5 QTY:2	
Duval Tissue Forceps 14 cm QTY:4	
Metzenbaum Sissors 18 cm Straight QTY:2	
Nelson Scissors 23 curved QTY:2	
Tuffier Rib Spreader With 50mm x 45mm Blades And A 165mm Spread QTY:1	
Semb Periosteal Elevator 13mm, Angled, Square End QTY:1	
Tudor Edwards Scapula 16 cm QTY:2	
Allison Lung Retractor 30 cm QTY:2	
Morriston Davis Rib Raspatory Slight Curved 24 cm QTY:1	
Price Thomas Rib Raspatory 17.78 cm QTY:1	
Semb Pneumonectomy Clamp 23.com QTY:1	
Operating Environment	
The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
Standards & Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
Warranty	
Comprehensive warranty for 2 years.	

182 Pedistric Vascular Surgery Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
III	Country of Origin:	
	Technical Specifications	
	Mayo Russian Dissecting Forceps 9 1/2" QTY:2	
	Dissecting Forceps Toothed 8" QTY:8	
	Dissecting Forceps Toothed 6" QTY:6	
	Suture cutting scissor 8" QTY:10	
	Mayo Scissors , Straight , With 'Imported' Tungsten Carbide Jaws , 7" QTY:8	
	Metzenbaum Scissors , Curved , With 'Imported' Tungsten Carbide Jaws , 8" QTY:8	
	Metzenbaum Scissors , Curved , With 'Imported' Tungsten Carbide Jaws , 7" QTY:5	
	Duval lune grasping forceps 9" OTY:4	
	Backhaus Towel Clip 6" QTY:50	
	Adult cross clamp large OTY:2	
	Adult cross clamp medium OTY:2	
	Adult cross clamp small QTV:2	
	Chaapi adult straight 10" QTY:4	
	Czerny Retractor Double Ended OTY:1	
	Langenbeck Retractor, medium QTY:16	
	Mixture right angle forceps 10" QTY:5	
	Mixture right angle forceps small 6" QTY:2	
	Sponge Holding Forcess 10° QTY-6	
	Tubing Clamp With Guard 8" QTY:18	
	Tubing Clamp With Guard 6" QTV:12	
	Mixture Right Angle Forces 8" QTY:2	
	Kocher Artery Forceps Curved 8" CITY:32	
	Allis Tissue Forces 8" OTY:2	
	Arter Forces, Straight, 6" OTY:15	
	Artery Forces, Curved, 6' QTY:70	
	Artery Forces, Curved, 40 (TY:10	
	Mosquito Artery Forces, Gurved, 6" QTY:80	
	Mosquito Artery Forces, Gurved, 5" QTV20	
	Mosquito Artery Forces, Street, 3 of 1.20 Mosquito Artery Forces, Street, 5 of 1.20	
	MOSQUID ALEY VICEDS, SARBIN, O. Q17.12 B.P. Handle No. 4 QTY: 6	
	Der Jaminier most vor 10. B.P. Handle No.3 QTV:6	
	5.F. raniue w. 0.5 Q11.5 B.P. Hadle N. O. 7 OTY 6	
	5.F. ratius NO.7 Q11.50 Newe Hook Sharp OTY2	
	Needle holder right 8" 071/28	
	Needle holder rider 7" OTV:5	
	Neoue noter net / 11/15 Finchitto Ris progreder , (medium Size) QTY:6	
	Finderities nis Spreader; 1 medium size j Uj 17:5 Tube Holding Organer 8" OTY 2	
	Tube Holding Organiser 3" Q17:2. Operating Environment	
	Uperating Environment The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature or 1.5 C-3.5 c. and relative numberly of 10-95%. The unit shall be capable of being stored continuously in ambient temperature of 5.7 c.40°C and relative humidity of 10-95%.	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty Commendative warranty for 2 years	

183 Posterior Spinal Surgical Set

No.	ltem Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
III	Country of Origin:	
	Technical Specifications	
	The system should be available for demonstration as per the requirement of user department.	
	Instrument set should be designed to enhance the efficiency of performing Smith-Petersen Osteotomy(SPO), Pedicle subtraction Osteotomy(PSO) and Vertebral column Resection(VCR) by	
	providing instruments specifically designed for these procedures.	
	System should be able to perform all- posterior resection of all the three columns of the spine to allow full mobilization from an	
	all-posterior approach and it should enable removal of posterior elements and pedicles and circumferential vertebral body.	
	Should have instruments to assist in dural retraction and	
	protection.	
	Nerve root retractors should have small lip on distal portion as well as bent orientations to help prevent dural and nerve root	
	creeping with simultaneous retraction and offset handles to prevent impendance of the surgical line of sight.	
	Triangular shavers should have triangular tip and depth markers with ability to decancellate the pedicle in conical fashion and	
	confirms depth within the pedicle.	
	Bone curettes with triangular, straight, right, left and reverse angle orientations with ability to remove bone at any angle and remove cancellous bone from beneath the posterior vertebral wall.	
	should have spoon retractors of different size with spoon tip to retract tissue away from lateral wall, upper cannulation for light source to allow better intra operative visualisation, lower cannulation for suction tip to remove excess fluid from surgical	
	site, table arm attachment point to allow hands-free retraction.	
	Should have malleable retractors with ability to retract soft	
	tissue away from lateral wall and could be contoured to surgeon preference.	
	Should have curved cobbs of different sizes with ability to dissect soft tissue and accommodate anatomical variations.	
	Should have templates of wedge shaped with depth markings of different sizes to confirm the degree of bony removal necessary to obtain preferred correction.	
	Should have straight osteotomes of different sizes with depth marks and right angled osteotomes with smooth backside to	
	simultaneously protect dura and nerve root when cutting around the pedicle.	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
	Comprehensive warranty for 2 years.	

184		Resectoscope Tower	I
Ī	No.	Item Specifications	Fill your Specification
	- 1	Manufacturer Name:	
	- II	Model No.:	
	III	Country of Origin:	
		Technical Specifications	
		PediatricCystoscope- miniature straight telescope, 0 degree, diameter 1.2 - 2.0mm, autoclavable and fibre optic light transmission incorporated.	
		PediatricCystoscope- miniature straight telescope, 30 degree, diameter 1.2-2.0mm, autoclavable and fibre optic light transmission incorporated.	
		Should be supplied with Cystoscope-UrethroscopeSheath , 7-8 Fr with 3-4 Fr working channel with Obturator and with 2 LUER- lock connectors.	

Should be supplied with 3 Fr grasping forceps, double action jaws, flexible, length 28 cm.	
Should be supplied with 3 Fr biopsy forceps, double action jaws, flexible, length 28cm.	
Should be supplied with 3 Fr Hook Electrode.	
Compatible HF Cord for electrodes- 2 Nos.	
Should be supplied with compatible injection needle, rigid, 3Fr, package of 6 nos.	
RESECTOSCOPE SET:	
PediatricResectoscope sheath, 9-10 Fr for the above cystoscope, with LUER LOCK stopcock, for connecting tube for inflow. Should be supplied with a standard obturator.	
Working Element Set consisting of:	
o Working Element	
o Cutting loop	
o Coagulating Electrode	
o High frequency Cords- 2 Nos	
o Protection Tube- for sterilization and storage of electrodes.	
Cutting Loops, angled, should be supplied along with the set- 6 nos.	
Coagulating Electrodes, hook- shaped, angled with ball end should be supplied along with the set- 6Nos.	
PEDIATRIC OPTICAL URETHEROTOME SET 8 Fr:	
Uretherotome sheath 8-9.5 Fr, compatible with same telescope, with LUER-Lock stopcock with obturator	
Working element for uretherotomy Set consisting of:	
o Working Element -1	
o Cold straight - 4 Nos.	
o Cold knife round – 4 Nos.	
Operating Environment	
The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
Power supply:	
Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
Standards & Safety Requirements	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
Training	
Must provide user & service training.	
Warranty	
Comprehensive warranty for 2 years.	
Maintenance Service During Warranty Period	
Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
Documentation	
User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
List of important spare parts, accessories and consumables with their part numbers and costing.	

185

No	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
II	Country of Origin:	
	Technical Specifications	
	1. Slit with: 0-14 mm adjustable	
	2. Slit length: 0.1—14mm adjustable in steps	
	3. Slit angle: +90 – 90 continuous	
	4. Decentring of slit image: +4 to -4 horizontal	
	5. Diaphragm sizes: 0.2 – 14mm	
	6. Rotation: 0-180 degrees	
	7. Light source: Halogen/Tunesten or LED lamps	
	8. Slit tilt: 0-20 degrees	
	9. Filters: cobalt blue, red free, neutral, UV protection	
	10. Binocular microscope with standard objective and eyepieces	
	11. 5x-40x magnification in steps with drum rotation	
	12. 6-40 mm field of view	
	13. Movement: base movement (x, y, vertical), adequate chin rest movement	
	14. Motorized imported table for slit lamp	
	15. Applanation tonometer	
	16. Beam splitter	
	17. Slit lamp camera-	
	17.1 Camera- 12.2 Megapixel, Large 3.0 inch LED display, Integrated cleaning system, Rechargeable battery, video cable, USB cable or Integrated camera at least 3 Megapixel high resolution.	
	18. 8 GB SD/ SDHC memory card & power cable.	
	19. Accessories- (1) Bulbs- 06 nos (2) Fuses- 04 Nos	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Power supply:	
	Input power supply: 220/240 V AC , 50Hz single phase schuko plug	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Training	
	Must provide user & service training.	
	Warranty	
	Comprehensive warranty for 2 years.	
	Maintenance Service During Warranty Period	
	Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
	Documentation	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	List of important spare parts, accessories and consumables with their part numbers and costing.	

No	tem Specifications	Fill your Specification
INC	Manufacturer Name:	riii your specification
	Model No.	
I	Country of Origin:	
	Technical Specifications	
	Loves reatractor straight 5mm blade -Qty, 2	
	Dura Protector straight & Curved 4mm, 6mm Blade -Qty.2	
	Nerve Hook -Qty,2	
	Carpener Gouge 5mm, 6mm, 8mm -Qty.2 each	
	Self Retaining Retractor with deep Blade (Charnley) -Qty.2	
	Flexible Shaft with Drill Bit 3.2 mm length 6mm -Qty.2	
	Femoral head holder -Qty.2	
	Bone Cutting forceps LINK 75-3852 Length 210mm (Double action slightly forward angled jaws) -Qty.2	
	Walton Hemilaminectomy Retractors Link 75-2607/12 (Right) Length - 170mm -Qty.2	
	Walton Hemilaminectomy Retractors Link 75-2607/11 (left) Length - 170mm -Qty.2	
	Intervertebral Disc Rongeur Double Action Jaws angled forward Parallel cut Link 75-3861/03 240 mm -Qty.2	
	Bone Rongeur Extra delicate jaws double action slightly curved jaw Wd- 2x4mm L-230mm -Qty.2	
	Lamina sprader straight, bar ratchet Length 280mm Link 75Qty.2	
	2633/01	
	Alligator Rongeur Straight Concave cup jaws with serrated edge Length 130mm -Qty.2	
	Kerrison Rongeur Up cutting, 50deg Angled jaws with ejector Length 200mm -Qty.2	
	Jaw Size 2.0x2.0 mm -Qty.2	
	Jaw Size 4.0x5.0 mm -Qty.2	
	Jaw size 5.0x5.0 mm -Qty.2	
	Jaw size 6.0x5.0 mm -Qty.2	
	Intervertebral Disc Rongeur Jaws Straight L - 200mm	
	iaw width - 1.5mm -Qty.2	
	iaw width - 2.0mm -Qty.2	
	iaw width - 2.5mm -Qty.2	
	Intervertebral Disc Rongeur Jaws Straight L - 200mm	
	1.5mm width -Qty.2	
	2.0mm width -Qty.2	
	2.5mm width -Qty.2	
	Intervertebral Disc Rongeur Jaws Angled Downward	
	Jaw Width 1.5mm Length 200mm -Qty.2	
	Inv. Middle 3 Own Londer 200mm Ob. 3	

186 Spinal Fixation Set

	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
1	Comprehensive warranty for 2 years	· · · · · · · · · · · · · · · · · · ·

187 Thoracotomy Set

No	Item Specifications	Fill your Specification
	Manufacturer Name:	
$\overline{}$	Model No.:	
	Country of Origin:	
	Technical Specifications	
	Towel clips OTY:24	
	Artery forcess straight 6°QTY:24	
	Artery forces straight Mosquito OTY:5	
	Artery forces curved Mosquito QTY-5	
	BP handle No. 4 QTY:2	
	BP handle No. 3 OTY:1	
	BP handle No. 7 QTY:2	
	BP handle No. 7 Long OTY:1	
	Scissors Metzenbaum QTV:1	
	Scissors Mayo's straight QTY:1	
	Scissors Mayo's curved QTY:1	
	Scissors Nelson's QTV:1	
	Dissecting forceps toothed QTY:2	
	Dissecting forceps plain QTY:2	
	Kelly's clamps OTY:2	
	Allis tissue forcess OTY:6	
	Babcock forceps QTY:2	
	Needle holder sarot QTY:2	
	Needle holder 21 cm long QTY:2	
	Retractor Czerny's QTY:2	
	Retractor malleable OTY:1	
	Retractor Finochito with 2 pairs of blade (Set) QTY:1	
	Retractors Morris QTY:2	
	Suction nozzle big QTV:1	
	SS kidney tray QTY:1	
	SS Gallipot 6" QTY:1	
	SS Gallipot 3"QTY:5	
	Sponge holder QTY:5	
	Gemini right angle clamp QTY:3	
	Cautry tips-cutting and coagulation	
	SS instrument tray 18" × 14" QTY:1	
	Big Mackintosh QTY:1	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
	Comprehensive warranty for 2 years.	

188 Tissue Stain

II Mode III Coun 1 Teche 1. Hig 2. Sir 3. Eq 4. Ra 5. Th 6. Th	uldacturer Name: let No: Intry of Origin: Intry of Origin: Intry of Origin: Intry of Origin: Intry of Origin: Intry of Origin: Intrial Specifications gib throughput robotic stainer for Multiple staining applications and should run up to 12 racks in parallel. Imultaneous staining of protocols of haematoxylin-eosin and pap stain should be available. Inuitaneous staining of protocols of haematoxylin-eosin and pap stain should be available. Inuitaneous staining of protocols of haematoxylin-eosin and pap stain should be available. Inuitaneous staining of protocols of haematoxylin-eosin and pap stain should be available. Inuitaneous staining of protocols of haematoxylin-eosin and pap stain should be available. Inuitaneous staining of protocols of haematoxylin-eosin and staining process using the graphical process representation. In its original staining of protocols of haematoxylin-eosin and staining process using the graphical process representation. In its original staining of protocols of haematoxylin-eosin and should be available. In its original staining of protocols of haematoxylin-eosin and should be represented to color staining and should be represented before 50 process and of which to the staining process using the graphical process representation. In the staining of protocols of haematoxylin-eosin and should be represented to color staining and process using the graphical process representation. In the staining of protocols of haematoxylin-eosin and should be represented to color staining and process representation. In the staining of protocols of haematoxyline and should be represented to the color staining and process representation. In the staining of protocols of haematoxyline and should be represented to the staining of process using the graphical process representation. In the staining of protocols of haematoxyline and should be represented to the staining of process using the graphical process representation. In the staining of protocols of hematoxyline and should be represented by the staining of	
III Coun 1 Techi 1. Hig 2. Sir 3. Eq 4. Ra 5. Th 6. Th	Intry of Origin: Included Specifications Igh throughput robotic stainer for Multiple staining applications and should run up to 12 racks in parallel. Impulateous staining of protocols of haematoxylin-eosin and pap stain should be available. Impulateous staining of protocols of haematoxylin-eosin and pap stain should be available. Impulated the staining of protocols of haematoxylin-eosin and pap stain should be available. Impulse staining of protocols of haematoxylin-eosin and pap stain should be available. Impulse staining of protocols of haematoxylin-eosin and paper staining process using the graphical process representation. acks should be assigned to the correct Staining Protocol based on transponder & Color -code system. the equipment should have 34 reasent stations and of swah stations of 45 only classification.	
1 Techi 1. Hig 2. Sir 3. Eq 4. Ra 5. Th 6. Th	nical Specifications gib throughput robotic stainer for Multiple staining applications and should run up to 12 racks in parallel. multaneous staining of protocols of haematoxylin-eosin and pap stain should be available . uujument should have solvent resistant color touch screen to monitor the staining process using the graphical process representation. acks should be assigned to the correct Staining Protocol based on transponder & Color—code system. be equipment should have 3d reagent stations and 6d wash stations of 450mic agacity.	
1. Hig 2. Sir 3. Eq 4. Ra 5. Th 6. Th	igh throughput robotic stainer for Multiple staining applications and should run up to 12 racks in parallel. multaneous staining of protocols of haematoxylin-essin and pap stain should be available. puliment should have solvent resistant color touch screen to monitor the staining process using the graphical process representation. acks should be assigned to the correct Staining Protocol based on transponder & Color—code system. the equipment should have 34 reasent stations and 64 wosh stations of 450-mil capacity.	
2. Sir 3. Eq 4. Ra 5. Th 6. Th	multaneous staining of protocols of haematoxylin-eosin and pap stain should be available . guipment should have solvent resistant color touch screen to monitor the staining process using the graphical process representation. acks should be assigned to the correct Staining Protocol based on transponder & Color -code system. be equipment should have 34 reagent stations and 6 wash stations of 450ml capacity.	
3. Eq 4. Ra 5. Th 6. Th	quipment should have solvent resistant color touch screen to monitor the staining process using the graphical process representation. acks should be assigned to the correct Staining Protocol based on transponder & Color -code system. be equipment should have 34 reasent stations and 6 wash stations of 450m classicity.	
4. Ra 5. Th 6. Th	acks should be assigned to the correct Staining Protocol based on transponder & Color -code system. he equipment should have 34 reagent stations and 6 wash stations of 450ml capacity.	
5. Th 6. Th	he equipment should have 34 reagent stations and 6 wash stations of 450ml capacity.	
6. Th		
	he equipment should be programmable for 50 programs of upto 40 steps each with incubation time setting from 0 sec to 59 minutes 59 seconds.	
7. On		
	ptional Integrated oven with temperature setting from 408 to 708C for optimal slide drying is preferred.	
8. Co	ontinuous loading and unloading of slides via rack entry and exit door should be available.	
9. Sp	pecimen slide throughput of at least 200 slides per hour upto 600 slides per hour is required.	
10. A	Agitation programmable from 0 to 20 times or continuous should be available.	
11. R	Reagent management System, Station information on touch screen & Data Logging should be available.	
12. P	Programmable up and down movement of robotic arm should be available.	
13. F	Fume extraction fan with charcoal filter to remove hazardous fumes should be available.	
14. G	Gentle vibration to slide rack during lifting to reduce carry over contamination should be available.	
15. A	Audible warning buzzer in case of any error during operation should be a feature of the equipment.	
2 Oper	rating Environment	
2.1 The u	unit shall be capable of operating in ambient temperature of 10°C-45°C and relative humidity of 10-95%	
2.2 The u	unit shall be capable of being stored continuously in ambient temperature of -20°C -60°C and relative humidity of 10-95%	
3 Powe	er supply:	
3.1 Input	t power supply: 220/240 V AC , 50Hz single phase schuko plug	
4 Stand	ndards & Safety Requirements	
4.1 Must	tt submit ISO13485:2003/AC:2007 for Medical Devices AND	
4.2 CE (9	93/42 EEC Directives) or USFDA or TUV approved product certificate.	
5 Train	ning	
5.1 Must	tt provide user & service training.	
6 Warr	rranty	
6.1 Comp	prehensive warranty for 2 years.	
7 Main	ntenance Service During Warranty Period	
7.1 Supp	plier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
8 Docu	umentation	
	r (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
8.2 Servi	rice (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
8.3 List o	of important spare parts, accessories and consumables with their part numbers and costing.	

189 Tonsillectomy Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
II	Model No.:	
III	Country of Origin:	
	Technical Specifications	
	Draffin's Bipod stand QTY:1	
	Boyle-Davis mouth gag QTY:2	
	Tongue Blades (Plane & Slotted with groove for ET tube) QTY:4each	
	Tonsil holding forcep QTY:2	
	Tonsil dissector and retractor-QTY:2	
	Adenoid currete with and without cage lengh- 22 cm QTY:4each	
	Yankuer suction tube QTY:2	
	Tonsillar snares QTY:2	
	Loop Applicator, Model E length 27 cm QTY:1	
	Loops for Applikator , Polyglycolicasid, absorbable, 12	
	sterile packed, size 1 QTY:1	
	Adenoid Forceps, sharp, length 19 cm QTY:1	
	Needle Holder, tungsten carbide inserts slender, length 18 cm QTY:1	
	Tinaculum QTY:1	
	Long slender artery forceps straight, curved, Negus QTY:2each	
	Wilson's artery forceps small & large-QTY:1each	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
	Comprehensive warranty for 2 years.	

190 Tracheostomy Surgical Set

	i racneostomy surgical set	•
No.	Item Specifications	Fill your Specification
- 1	Manufacturer Name:	
- II	Model No.:	
III	Country of Origin:	
	Technical Specifications	
	Doyen molt mouth gag with rubber gum guard for children length 10.5cm - Qty. 2	
	Doyen molt mouth gag with rubber gum guard for adults length 14cm - Qty. 3	
	Hegar needle holder length 18cm - Qty. 4	
	Laborde tracheal dilator with two blades15 to 18cm - Qty. 2	
	Surgical handle 13.5 cm length (compatible with 21 no. Blade) - Qty. 4	
	Surgical handle, 12.5 cm length(compatible with 15 no. Blade) - Qty. 4	
	Mayo scissors straight 15cm - Qty. 3	
	Mayo scissors curved 15cm - Qty. 5	
	Reynolds dissecting scissors 13cm - Qty. 3	
	Metzenbaum scissors curved 5-6", 7",8" - Qty. 2 each	
_	Metzenbaum scissors straight 5-6", 7",8" - Qty. 2 each	
-	Metzenbaum-Lahey scissors curved, extra slender, lingth 15cm - Qty. 2	
-	Metzenbaum with tungsten carbide insents, curved, robust, length 20cm scissors curved,extra slender, lingth 15cm - Qty. 3	
-	Adson tissue forceps toothed - Qty. 6	
-	Adson tissue forceps non-toothed - Qty. 6	
-	Atraumatic non-toothed tissue forceps 8cm - Qtv. 4	
-	Dressing forceps for ENT length 13 cm(2), standard (3) /medium (3) /narrow (2)	
-	Mosquito forceps straight extra fine 10cm length - Qty. 10	
\vdash	Mosquito forceps straight 12.5 cm length - (tyt. 10 Mosquito forceps curved 12.5 cm length - (tyt. 10	
-	Mosquitto forces curved 1.2.5 cm iength - Lys. 10 Artery forces it stagkth length 4.4m - Cly, 10	
-		
-	Artery forceps straight length 16cm - Qty, 10	
-	Artery forceps straight length 18cm - Qty. 10	
-	After forces curved length 14cm - Qtv. 10 After forces curved length 14cm - Qtv. 10	
	Arrer/ rores curved refign 15cm - U/V, 10 Arrer/ rores curved for dissection without ratchet - Qty. 5	
-	Artery forces): Curves for dissection monot rationet - (xy, 3) Offenbach bulldog clamp curved length 4cm - (y, 4) Offenbach bulldog clamp curved length 4cm - (y, 4)	
-	Difference During Charles Converted to the Converted Con	
	Dumony Lemmy Lemmy 14-50-1 (24). 2. Allis forces plant 15cm - (24). 2. Allis forces plant 15cm - (24). 1	
	Finis Outsparing 12-01-1-CV). 20 Allis forceps angen 12-01-CV). 20 Allis forceps angen 12-01-1-CV). 20	
	Finis Integra eigen zoon - Vey. 2 Sponge holding forceps 20cm - Cty. 3	
	oponge mening men - Qiy, 20	
	Towel forceps 13cm - Qty. 5	
	Needle holder of sizes 13cm/18cm (heavy and fine, 5 each)	
	Micro needle holder with Spring handle size 14cm - Qty, 1	
	Microscissors with spring handle 16 cm - Qty. 2	
	Langenbeckretractor length 21cm, size 1, 2, 3, 4 (2 each)	
	Langenbeckretractor length 21cm, size 1, 2, 3, 4 (2 each)	
	Langenbeck retractor length 14-15cm, 24X 6mm - Qty. 2	
	Langenbeck retractor length 14-15cm , 16X 6mm - Qty. 4	
	Cup medicine 200 cc, height 50mm - Qty. 4	
	Cup medicine 400 cc, height 50mm - Qty. 2	
	Liga clip applicator for open head and neck surgery - Qty. 2	
	SS Instrument case with silicon racks for storage and sterilization of delicate instruments - Qty. 2	
	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.	
1	1 x newborn reusable breathing circuit (tubes/balloon/valves/mask).	
<u></u>	1 x paediatric reusable breathing circuit (tubes/balloon/valves/mask).	
-	1 x adult reusable breathing circuit (tubes/balloon/valves/mask).	
	Connecting hose with regulator/ flow meter or probe for connection to PIN index oxygen cylinder and BOC type oxygen wall outlet, at least 5 meter length, 1 set	
-	Connecting hose with regulator/ flow meter or probe for connection to N2O cylinder or N2O wall outlet, at least 5 meter length, 1 set	
_	Connecting hose with regulator/ flow meter or probe for connection to air cylinder or wall outlet, at least 5 meter length, 1 set	
_	Silicone test lung adult and child size, 1 set each	
<u></u>	1x spare parts/maintenance kit (air filters, tubing, O-rings).	
<u></u>	O2 sensor, 1 set	
<u></u>	Operating Environment	
_	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
1	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
-	Standards & Safety Requirements	
-	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
-	CE (93/A2 EEC Directives) or USFDA or TUV approved product certificate.	
-	Warranty (2)	
	Comprehensive warranty for 2 years.	1

191 Trans nasal Surgical Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	
II	Country of Origin:	
	Technical Specifications	
	1. Crile wood needle holder 15 cm - Qty. 2	
	2. Babcock tissue grasping forceps 15.5 cm - Qty. 2	
	3. scalpel no 3 - Otv. 2	
	4. scalpel no 4 - Oty. 2	
	5. scalpel no 3 and 4 - Qty. 2	
	6. scalpel no 7 - Oty. 2	
	7. Metzenbaum dissecting scissor curved 11.5 cm - Qty. 2	
	8. Metzenbaum dissecting scissor curved 15.5 cm - Qty. 2	
	9. Metzenbaum -Nelson dissecting scissor 20.5 cm - Qty. 2	
	10. Mayo dissecting scissor straight 14.5 cm - Qty. 2	
	11. Disserting forceps 14.5 cm - Oty. 2	
	12. Dissetting forceps 18 cm - Qty. 2	
	13. Adson disserting forcess 15 cm - Qty. 2	
	14. Tissue forces (single toothed) 13cm - Otv. 2	
	The Tissue foreign (multiple toothed) 14.5 cm - Qy. 2	
	16. Tissue forces (multiple toothed) 18 cm - Oty. 2	
	20. Tools directaining retractor 15.5 cm - Otv. 2	
	18. Dingman's mouth retractor (adult) complete frame including cheek retractor with tongue blades set - Qty. 1	
	19. Dingman's mouth retractor (pediatric) complete frame including cheek retractor with tongue blades set - Qty. 1	
	20. Jennings mouth gag 9 cms - Qty. 2	
	21. Doyen's mouth gag - Qty. 2	
	22. Ferguson's mouth gag - City. 2	
	23. Cobbs dissector straight 15cm, 22.5cm - Qty. 2	
	24. Mixter Dissecting Forceps 29 cms - Qty. 2	
	25. Mixter Dissetting Forceps 25 cms - Qty. 2	
	26. Cottle Bone File 21 cm - Qty. 2	
	27. Humby dermatome 32 cm - Qty. 1	
	28. Gigli wire with Saw handle wire length 50 cm hook - Qty. 1	
	29. Santulli Bull Dog clamp straight 7 cm - Qty. 1	
	30. De bakey bull dog clamp straight 7.5 cm - Qty. 1	
	31. De bakey bull dog clamp straight 9.5 cm - Qty. 1	
	32. De bakey bull dog clamp curved 11 cm - Qty. 1	
	33. Debakey angled scissor TC Gold 19 cm 45 degree - Qty. 2	
	34. Cushing nerve hook 19 cm, 6mm tip - Qty. 2	
	35. Goldmann - Fox Iris scissor TC Gold 13.5 cm - Qty. 2	
	36. Iris needle holder - Qty. 2	
	37. Mayo Hegar needle holder TC GOLD 20 cm - Qty. 2	
	38. Bozemann/Wertheim needle holder Tc Tipped 20.5 cms - Qty. 2	
	39. Bozemann/Wertheim needle holder Tc Tipped 24 cms - Qty. 2	
	40. Micro needle holder without catch 15 cm straight - Qty. 2	
	41. Constroviejo needle holder with catch , 14.5 cm - Qty, 2	
	42. Spencer Well's artery forceps, curved, 14-16cm - Qty. 2	
	43. Micro scissor (Ti Tipped) 15 cm, curved - Qty. 2	
	44. Micro scissor (Ti Tipped) 15 cm, straight - Oty. 2	
	45. Mayo -Stille dissecting scissor (Tc Gold) curved,14.5 cm - Qty. 2	
	46. Mayo -Stille dissecting scissor curved 17cm - Qty. 2	
	47. Adson toothed microforceps 12 cm - Qty. 2	
	48. Jeweller's microforceps straight 11 cm with 0.2mm tip - Qty. 2	
	49. Dissetting forceps 30 cm - Qty. 2	
	50. Dissetting forceps 23 cm - Qty. 2	

51. Metzenbaum -Nelson dissecting scissor curved 20.5 cm - Qty. 2	
52. Metzenbaum -Nelson dissecting scissor curved 28.5 cm - Qty. 2	
53. Reynold's dissecting scissors 18cm - Qty. 2	
54. Mayo Stille scissor curved 19.5 cm - Qty. 1	
55. Mayo Stille scissor straight 19.5 cm - Qty. 1	
56. Mayo stille scissior curved 21.5 cm - Qty. 1	
57. Mayo stille scissor straight 21.5 cm - Qty. 1	
58. Metzenbaum TC gold scissor curved 11.5 cm - Qty. 1	
59. Metzenbaum TC gold scissor curved 18 cm - Qty. 1	
60. Metzenbaum TC gold scissor curved 31 cm - Qty. 1	
61. Mitter baby haemostatic forces 18.5 cm - Qty. 2	
62. Micro mosquito hemostatic forceps 2cm cm (kg. 2	
63. Adson artery forceps curved 19 cm - Qty. 2	
64. Obwegeser wire catching forces J or - Qty. 2	
on. Ouwegeer wire Lattung Totterps 19 On "-Quy. 2 65. Derf Needle holder 12 cm -Quy. 1	
65. May Hegar needle holder 18.5 cm - Qty. 1	
60. May U regal inequie (10.3 Un - U.V. 1 67. DeBakey needle holder TG GDI D 8 m - U.V. 1	
b7. Deblakey needle holder 1.G.GUU 38 cm - Cty. 1 68. Mayo Hegar needle holder TG GOUIA Gm - Cty. 1	
88. Mayo Hegar needle holder I C 40UD16 cm - Qty . 1 69. Masson needle holder T C 60UD 26.5 cm - Qty . 1 69. Masson needle holder T C 60UD 26.5 cm - Qty . 1	
70. Mixter dissecting and ligature forceps 23 cm - Qty. 2	
71. Meeker dissecting forceps angled 28 cm - Qty. 2	
72. Allis -Baby tissue grasping forceps 13 cm - Qty. 2	
73. Allis tissue grasping forceps 15.5 cm - Qty. 2	
74. Thomas Allis tissue grasping forceps 20.5 cm - Qty. 2	
75. Babcock tissue grasping forceps 15.5 cm - Qty. 2	
76. Babcock tissue grasping forceps 17.5 cm - Qty. 2	
77. Babcock tissue grasping forceps 21 cm - Qty. 2	
78. Metzenbaum dissecting scissor curved 11.5 cm - Qty. 2	
79. Metzenbaum dissecting scissor curved 15.5 cm - Qty. 2	
80. Metzenbaum -Nelson dissecting scissor curved 20.5 cm - Qty. 2	
81. Metzenbaum dissecting scissor straight 14.5 cm - Qty. 2	
82. Metzenbaum TC GOLD dissecting scissor curved 14.5 cm - Qty. 2	
83. Metzenbaum TC GOLD dissecting scissor curved 20.5 cm - Qty. 2	
84. Metzenbaum - Fino TC GOLD dissecting scissor curved 14.5 cm - Qty. 2	
85. Mayo dissecting scissor straight 14.5 cm - Qty. 2	
86. Mayo dissecting scissor straight 17 cm - Qty. 2	
87. Mayo -Stille dissecting scissor curved 15cm - Qty. 2	
88. Mayo -Stille dissecting scissor curved 17cm - Qty. 2	
89. Dissecting forceps 12 cm - Qty. 2	
90. Dissetting forceps 14.5 cm - Qty. 2	
91. Disserting forceps 18 cm - Qty. 2	
92. Adson dissetting forcess 15 cm - Qty. 2	
93. Adson dissecting forceps 12 cm Tc Gold Non tooth - Qty. 2	
94. Adson dissecting forceps TC GOID 12 cm toothed - Qty. 2	
95. Adson dissecting forceps TC GOLD 15cm Non tooth - Qty. 2	
95. Adson dissecting forceps TC GOLD 15cm Non tooth - Qty. 2 96. Waugh dissecting forceps 20 cm - Qty. 2	
95. Adson dissecting forceps TC GOLD 15cm Non tooth - Qty. 2 96. Waugh dissecting forceps 20 cm - Qty. 2 97. Potts-5-mith dissecting forceps TC GOLD 16 cm - Qty. 2	
95. Adson dissecting forceps TC GOLD 15cm Non tooth - Qty. 2 96. Waugh dissecting forceps 30 cm - Qty. 2 97. Potts -Smith dissecting forceps TC GOLD 16 cm - Qty. 2 98. Tissue forceps (single toothed 13cm - Qty. 2	
95. Adson dissecting forceps TC GOLD 15cm Non tooth - Qty. 2 96. Waugh dissecting forceps 20 cm - Qty. 2 97. Polts - Smith dissecting forceps TC GOLD 16 cm - Qty. 2 98. Tissue forceps (single toothed) 13cm - Qty. 2 99. Tissue forceps (single toothed) 13cm - Qty. 2	
95. Adson dissecting forceps TC GOLD 15cm Non tooth - Qty. 2 96. Waugh dissecting forceps 20 cm - Qty. 2 97. Potts - Smith dissecting forceps TC GOLD 16 cm - Qty. 2 98. Tissue forceps (single toothed J13cm - Qty. 2 99. Tissue forceps (single toothed J16 cm - Qty. 2 Operating Environment	
95. Adson dissecting forceps TC GOLD 15cm Non both - Qty. 2 96. Waugh dissecting forceps TC GOLD 16cm - Qty. 2 97. Potts - Smith dissecting forceps TC GOLD 16cm - Qty. 2 98. Tissue forceps (single toothed [13cm - Qty. 2 99. Tissue forceps (single toothed [13cm - Qty. 2 99. Tissue forceps (single toothed [13cm - Qty. 2 90. Tissue forceps (single	
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95. Adson dissecting forceps TC GOLD 15cm Non tooth - Qty. 2 97. Potts - Smith dissecting forceps CD orn - Qty. 2 97. Potts - Smith dissecting forceps TC GOLD 16 cm - Qty. 2 98. Tissue forceps (single toothed J13cm - Qty. 2 99. Tissue forceps (single toothed J13cm - Qty. 2 99. Tissue forceps (single toothed J16 cm - Qty. 2 99. Tissue forceps (single toothed J16 cm - Qty. 2 Operating Environment The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95% The unit shall be capable of being stored continuously in ambient temperature of -5°C-40°C and relative humidity of 10-95% Standards & Safety Requirements	
95. Adson dissecting forceps TC GOID 15cm Non booth - Qby. 2 96. Waugh dissecting forceps TC GOID 15cm Non booth - Qby. 2 97. Potts - Smith dissecting forceps TC GOID 15cm - Qby. 2 98. Tissue forceps (single toothed)13cm - Qby. 2 99. Tissue forceps (single toothed)13cm - Qby. 2 Operating Environment The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95% The unit shall be capable of being stored continuously in ambient temperature of -5°C-40°C and relative humidity of 10-95% Standards & Safety Requirements Must submit (S0-1348S-2003/4c-2007 for Medical Devices AND	
95. Adson dissecting forceps TC GOLD ISCM Non tooth - Qty. 2 96. Waugh dissecting forceps ZG GOLD ISCM - Qty. 2 97. Potts - Smith dissecting forceps TC GOLD ISCM - Qty. 2 98. Tissue forceps (single toothed I3cm - Qty. 2 99. Tissue forceps (single toothed I3cm - Qty. 2 99. Tissue forceps (single toothed I3cm - Qty. 2 Operating Environment The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95% The unit shall be capable of being stored continuously in ambient temperature of -5°C-40°C and relative humidity of 10-95% Standards & Safety Requirements Must submit ISO13485-2003/AC-2007 for Medical Devices AND CE (914/2 EEC Directive) or VIPS An or TUV approved product certificate.	
95. Adson dissecting forceps 1C GOID 15cm Non tooth - Qty. 2 96. Waugh dissecting forceps 20 cm - Qty. 2 97. Potts: Smith dissecting forceps 1C GOID 16 cm - Qty. 2 98. Tissue forceps (single toothed 13cm - Qty. 2 99. Tissue forceps (single toothed 13cm - Qty. 2 99. Tissue forceps (single toothed 13cm - Qty. 2 90. Tissue forceps (
95. Adson dissecting forceps TC GOLD ISCM Non tooth - Qty. 2 96. Waugh dissecting forceps ZG GOLD ISCM - Qty. 2 97. Potts - Smith dissecting forceps TC GOLD ISCM - Qty. 2 98. Tissue forceps (single toothed I3cm - Qty. 2 99. Tissue forceps (single toothed I3cm - Qty. 2 99. Tissue forceps (single toothed I3cm - Qty. 2 Operating Environment The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95% The unit shall be capable of being stored continuously in ambient temperature of -5°C-40°C and relative humidity of 10-95% Standards & Safety Requirements Must submit ISO13485-2003/AC-2007 for Medical Devices AND CE (914/2 EEC Directive) or VIPS An or TUV approved product certificate.	

192 Ultrasound Machine with 2 Probes

No.	Item Specifications	Fill your Specification
110.	Manufacturer Name:	Till your specification
	Model No.:	
	Modern No.: Country of Origin:	
	Country or Origin: Description of Function	
	Description or Function A general purpose fully digital B & W Ultrasound imaging system.	
	Operational Requirements	
	It shall operate on mains AC supply.	
	System Configuration	
	System shall come with main unit, 1 probe, 1 unit of black and white video thermal printer and Ultrasound gel warmer 1 unit.	
	Technical Specifications	
	Latest technology and all digital beam former general purpose standalone ultrasound machine with integrated light weight mobile cart.	
	Main applications: OB/GYN, abdominal, peripheral vessels and small parts.	
	The system shall have at least 12" or higher flat LCD monitor with tilt & swivel facilities.	
	Shall have B-mode, M-mode, B/M mode, 2B mode & 2D mode.	
4.5	The system must have at least Two active probe ports for easy use and convenient operation.	
4.6	256 Grey shades for sharp contrast resolutions.	
4.7	Controls for depth, gain compensation, body markers with transducer position.	
4.8	Shall have real time continuous dynamic focus.	
4.9	Shall have facility for image zoom, freeze, text annotation.	
	The system shall have extensive calculation software package for Ob/Gyn and general imaging.	
4.11	The system must have provision for measurement and calculation of distance, area, volume, heart rate and circumference on the image.	
4.12	The system shall have Tissue Harmonic Imaging.	
	Near and far gain adjustable.	
	Contrast, adjustable.	
	Focus: auto adjustable.	
4.16	Shall have an alpha-numeric keyboard with easy access scans controls and track ball and status display.	
	Cine memory of 250 frames for cine loop playback.	
	Frame rate: not less than 50fps.	
	Display depth: minimum 28-30cm.	
	Dynamic range, selectable up to approximately 165dB.	
	Original, range, selections up to paper and unit. Image storage Minimum 200 papers image so main unit.	
	Integer size dec. International Control of the Cont	
	Shall make leading to Iron Co. Write: System shall be Iron Co.	
	System stan be brown ready and capability. Facility for future uperadeability.	
	Facility to riscure upgradeaunity. Probe: 2 to 5 MHz convex probe for Obs. /Gyn. and abdominal application is to be supplied.	
	Trode: 2 to 3 mis pares and consistent and addominal application is to de supplied. Accessories, pares and consistent and addominal application is to de supplied.	
	Accessories, spares and consumatives Accessories:	
5.1	Accessories: Black and white video thermal printer with 50 rolls of high density recording paper: 01 no.	
_	B DVD/CD Recorder with DICD media transfer.	
_	B DUTY ON NECTION WAS TO THE OWN THE O	
	Is Utrassound get warmer: 01 unit. 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.	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Shall provide UPS of suitable rating with voltage regulation and spike protection for 30 minutes back-up.	
	Standards and Safety Requirements	
	Must submit ISO 13485:2003/AC: 2007 AND	
7.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Electrical safety conforms to standards for Electrical Safety IEC 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
9.1	Comprehensive warranty for 2 years after acceptance.	
10	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.	
11	Documentation	
	User (Operating) manual in English.	
11.1	User (Operatine) manual in English. Service (Technical / Maintenance) manual in English.	

193 Urethroplasty Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	II Model No.:	
- 1	Country of Origin:	
	Technical Specifications	

	1
2. All instruments should be made of corrosion free surgical grade stainless steel [SS alloy grade for surgical instruments as specified in ISO 7153-1: latest ed. or EN 10088 grade or AISI grade 300-450 or equivalent standards].	
A. All the firms are required to submit their catalogue along with tender/ quotation clearly marking the quoted item and no. with a highlighter.	
S. All the components of item under a particular serial no. will be purchased together from a single manufacturer.	
6. L-1 will be decided on total value only.	
7. 10% of tolerance is acceptable in sizes of the instruments mentioned below.	
II. Description of instruments:	
A. Oral Set 1 Adult Boxle-Davis Mouth gag with different sized (five) Tongue blades - Oty. 1	
2 Adult Depresents indusin gag with Custions on blades, 14cm, 51 pt.21 cd. 2 Adult Depresents on the Company of	
3 BP handle No.7 - Qty. 1	
4 Kelly haemostats, curved, 5 ½" - Qty. 4	
5 Halsted mosquito forceps, curved, 5 ½" - Qty. 2	
6 Halsted mosquito forceps, curved, 7" - Qty. 2 7 Allis tissue holding forceps, 7" - Qty. 2	
8 Standard tissue forceps, non-toothed, 6" - Qty. 1	
9 Gerald tissue forceps, straight, toothed, 7" - Qty. 2	
10 Gerald tissue forceps, straight, non-toothed, 7" - Qtv. 2	
11 De Bakey forces, Straight, 1.5 mm tip, 8" - Qtv. 1	
12 Surgical scissors, straight, Sharp+Blunt tip, 6" - Cty. 1 13 Mayo-Sittle Scissors, straight, 7" - Cty. 1 13 Mayo-Sittle Scissors, straight, 7" - Cty. 1	
14 Fine Metzenabaum scissor, curved, 7" - Qty. 1	
15 Reynolds fine dissecting scissors, curved, 7" - Qty. 1	
16 Kilner scissors, curved, 6" - Qty. 1	
17 Fine Mixter forceps, 7" - (3t), 1 18 Mayo + Hegar Resells holder, 7" - (3t), 1	
Lo Mayor-megar necure incutes, 7 - Cuty. 1 10 Prile-Woode Holder Strated, 6" - City, 1 10 Prile-Woode Holder Strated, 6" - City, 1	
20 Frazier suction cannula, 19 cm, 2 mm I.D. tube - Qty. 1	
21 Nelaton director, 5" - Qty. 1	
22 Metal Scale, with mm marking, min upto 15 cm - Qty. 1	-
8. Perined Set 19 Pandle No.3 - Cly. 1	
2 Halsted mosquito forceps, curved, 5" - Qty. 10	
3 Halsted mosquito forceps, curved, 7" - Qty. 2	
4 Kelly haemostats, curved, 5 1/2" - Qty. 4	
5 Kocher delicate hemostat, straight, 6°-Qby. 2 Grien Mister Toreps, 7°-Qby. 1	
b hine Muster forceps, $r \sim 10 \text{J} \cdot 1$. Delicate Babcock tissue holding forceps, $6^\circ - 0 \text{L} \cdot 1$. To Delicate Babcock tissue holding forceps, $6^\circ - 0 \text{L} \cdot 1$.	
8 Babcock triang more por 7 (4): 1	
9 Allis tissue holding forceps, 6" - Qty. 2	
10 Russian tissue forceps, straight, 6" - Qty. 1	
11 Sills sereated tissue forceps, straight, 6" - Oty, 2 Le Gerald tissue forceps, straight, 6" - Oty, 2 Le Gerald tissue forceps, straight, tombed, 7" - Oty, 2	
22 Stefand Ussser Druceps, straight, bouneu, 7 - cty. 2 2 Stefand Ussser Druceps, straight, bouneu, 7 - cty. 2 2 Stefand Ussser Druceps, straight, bouneu, 7 - cty. 2	
14 De Bakey forceps, Straight, 2.0 mm tip, 8" - Qty. 2	
15 De Bakey forceps, Straight, 2.0 mm tip, 6" - Qty. 2	
16 Surgical scissors, straight, Sharp+Blunt tip, 6" - Qty. 1	
17 Mayo Sille scissors, straight, 7" - Oty. 1 18 Mayo Sille scissors, curved, 6" - Oty. 1 18 Mayo Sille scissors, curved, 6" - Oty. 1	
20 mayor-unie acassos, r _a ured _a , v = c ₄ v ₂ , 2 20 mayor-unie acassos, r _a ured _a , v = c ₄ v ₂ , 2 21 mayor-unie acassos, r _a reght, f = c ₄ v ₂ , 2	
20 Mayo scissors, curved, 6" - Qty. 1	
21 Fine Metzenabaum scissor, curved, 6" - Qty. 1	
22 Fine Metzenabaum scisors, curved, 7" - (3y, 1 23 Mayo + Hegar Redelh holder, 7" - (2y, 1	-
22 mayoringan vector inouer, 7 - Qy, 1 24 crile-Wood Reddie holder, 7 - Qy, 1	
25 Ryder Needle holder, TC, 6" - Qty. 1	
26 De Bakey Needle holder, TC, 7" - Qty. 1	
27 Andrews suction cannula, 24 cm - CQV, 1 28 Frazier suction cannula, 3 cm - gm m Lo. tube - QQv, 1	
29 Haari Succivit Guilla, 13 Ori, 2 min 10. 100 e Cay. 1 29 Haari Succivit Guilla, 13 Ori, 2 min 10. 100 e Cay. 1 29 Haari Succivit, long thin nosed - Cly, 1	-
30 Nelaton director with tip, Groved, 5 1/2" - Qty. 1	
31 Turner-Warwick grooved Gorget, 6" - Qty. 1	
32 Bowman Lacrimal Probe Size: 0(0.7mm) & 00(0.8mm) both end, 5 1/2" - Qty. 1	
33 Bowman Lacrimal Probe Strz: 5(1.5mm) & Gl. (1.6mm) both end, 5 1/2" - Qly, 1 43 Bowman Lacrimal Probe Strz: 5(1.5mm) & R. (1.6mm) both end, 5 1/2" - Qly, 1 43 Bowman Lacrimal Probe Strz: 7(1.8mm) & R. (1.6mm) both end, 5 1/2" - Qly, 1	
24 BOWINI LACHINE TOUR 2012, 1,1,2,0,111 (2), 2,1,2,3,1,3,1,4,1,4,1,4,1,4,1,4,1,4,1,4,1,4,1	
36 Vickers retractor, 2 prongs, 7" - Qty. 2	
37 Desmarres, Lid retractor, children 6" - Qty. 1	
38 Gil-Vernet Vein Retractor, 12°, 8mm tip - Oty. 1 39 Gil-Vernet Vein Retractor, 12°, 8mm tip - Oty. 1 39 Gil-Vernet Vein Retractor, 12°, 8mm tip - Oty. 1	
39 Gil-Vernet ven netroor, 12, 1,5mm tip - (dy. 1 40 langenbek retractor 6X25 mm - (dy. 2	
41 Langenbeck retractor 8X35 mm - Qty. 2	
42 Stille gouge, %" tip - Oty. 1	
43 Stille gouge, 1" tip - Qty. 1	
44 Farabert periosteal elevator, curved, 5 1/2" - Qty, 1 45 Stille Austin hore rongeur, 9" - Qty, 1 45 Stille Austin hore rongeur, 9" - Qty, 1	-
45 Stille-Huston Bone rongeurs, 9" - Uty. 1 46 Hey Groves retrograde bougies, Tip should have facility to tie Foley catheter, (Sizes: 4/7, 6/9, 8/11 Fr) - Uty. 1 57 Hey Groves retrograde bougies, Tip should have facility to tie Foley catheter, (Sizes: 4/7, 6/9, 8/11 Fr) - Uty. 1	
47 Clutton urethral dilator set, tapered end, (Set of 12) (6/10 Fr to 28/32 Fr), 10 1/2" - Qty. 1	
48 Lister urethral dilator set, Olive tip end, (Set of 12) (1/4 Fr to 12/15 Fr), 11" - Qty. 1	
C. Other accessories	-
1 Sterilization box for Oral set, 13*'9'%3.5" - (19. 1 2 Sterilization box for Perineal set, 15*'14"5.3" - (19. 1	-
3 Micro Instrument Box 9"x8"x1" with silicone sheet - Qty. 1	
4 Perforated Instrument Tray, 12"x8" - Qty. 2	
5 Instrument Tray, 12"x8" - Qty. 1	
6 Backhau Towel Clamps, 5° - Cty. 12 Forester curved densing forces, 10° - Cty. 2	
7 Foerster curved dressing forceps, 10" - Cty. 2 Makier curved dressing forceps, 10" - Cty. 2 Makier curved dressing forceps, 10" - Cty. 2	+
s water curved cressing torceps, 10 ½ - Luty, 2 Whyos safety class, 15 cm - Cly 2, 2	<u> </u>
10 Mayo safety clips, 20 cm - Qty. 2	
11 Kidney bowl 8" - Qty. 4	
12 Kildney bowl 10" - Qty, 2 13 Canad bowl 10" - Qty, 2	-
13 Round Bowl 10 cm - Qty. 2 Operating Environment	
Uperating environment The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	<u> </u>
The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
Standards & Safety Requirements	
Must submit (SO13485:2003/AC:2007 for Medical Devices AND (E) (93/42 EEC (Discribed) or ITV) approved product certificate.	
LE (93/A2 EEC. Directives) or US-DA or 1UV approved product certificate. Warranty Warranty	
Two isomorphisms warranty for 2 years.	

194 Vein Viewer (Finder)

Mode No.: Mode	Ne	Item Specifications	Fill your Specification
Unit of Origin: 1 Technical Specifications Should be Anon-laser device based on harmless nearinfrared Lights. Should be a portable, hand held model for easy handling, Wrist strap Penetration Depth: The vein imaging device should have the ability to visualize vessels up to 10mm deep or better, the ideal clinical depth range for PIV options, with provided clinical evidence to substantiate, Multiple Imaging Modes: Universal, inverse mode - for Adult and dark skin patients Fine detail mode, resistemode. NICU/Paediatric patients Max Bright Modes-Special Max Bright mode for using the equipment in non-standard Lighting conditions / under smalling to rwithout dimming the room light. Image Quality and Focusvein imaging device should offer an image appropriate across all skin tones and a method of detecting when image is at the proper focal distance, by clearly reading the text in image outline border. Should have minimum brightness of is lumens and substantiatie with technical specifications evidence. Image Capture optionshould have a in built camera to capture the real time image of the vasculature under focus area. Captures a time stamped static image of the projected vein image and saves at-least 200 images the image as a BMP file. Direct projection on surface of skin: should not require secondary monitor to interfere with technique Utilization of device in any orientation without degradation of performance. Vein-imaging device should offer an image that provides for the same accuracy and reliability of image regardless of the rotation of the device/technique for use on the patient. Real time digital imageshould provide evidence of real-time imaging and demonstrate ability to visualize fluid flushing process for vessel patency to prevent against infiltration and hematoma. Should he a Non-laser based system and the light should not be harmful to eye. It should not have any mandated eye safety warnings. Emission: Device should be tested to and complies with IEC 60601-1-2 standard or better for Electromagnet		Manufacturer Name:	
1 Technical Specifications Should be to Non-laser device based on harmless nearinfraredLights. Should be a portable, hand held model for ceay handling Wrist strap Penetration Depth. The veri imaging device bould have the ability to visualize wessels up to 10mm deep or better, the ideal clinical depth range for PIV options, with provided clinical evidence to substantiate, Multiple Imaging Modes: Universal, Inverse mode - for Adult and dark skin patients Fine detail mode, resizemode.NICU/Paediatric patients Max Bright Modes-Special Max Bright mode for using the equipment in non-standard Lighting conditions / unifer Surlight or without dimmins the room light. Image Coulably and Focusives in Imagine and seven should offer an image appropriate across all skin tones and a method of detecting when image is at the proper focal distance, by clearly reading the text in image outline border. Should have minimum brightness of 8 lumens and substantiate with technical specifications evidence. Image Capture optionshould have a in built camera to capture the real time image of the vaculature under focus area. Captures a time stamped static image of the projected vein image and saves at-least 200 images the image as a BMP file. Direct projection on surface of skin: should not require secondary monitor to interfere with technique Utilization of device in any orientation without degradation of performance. Vein-imaging device should offer an image that provides for the same accuracy and reliability of image regardless of the rotation of the device/technique for use on the patient. Real time digital imageshould provide evidence of real-time imaging and demonstrate ability to visualize Bluid flushing process for veined applications and hematoma. Should be a Non-laser based system and the light should not be harmful to eyes. It should not have any mandated eye safety warnings. Emission: Device should be tested to and complies with IEC 60601-1-2 standard or better for Electromagnetic Compatibility (EMC) and for regardless		Model No.:	
Should be Non-laser device based on harmless nearinfraredlights. Should be a portable, hand held model for easy handing, Wrist strap Penetration Depth: The vein imaging device should have the ability to visualize vessels up to 10mm deep or better, the ideal clinical depth range for PIV options, with provided clinical evidence to substantiate., Multiple imaging Modes: Universal, invese mode - for Adult and dark skin patients Fine detail mode, resizemode:NICU/Paedalatic patients Max Bright Mode-Special Max Bright Mode for using the equipment in non-standard Lighting conditions / under Smillarith or without dimmiting the room light without dimmiting the room light device should offer an image appropriate across all skin tones and a method of detecting when image is at the proper focal distance, by clearly reading the text in image outline border. Should have minimum brightness of is lumens and substantiate with technical specifications evidence. Image Capture optionshould have a in built camera to capture the real time image of the vasculature under focus area. Captures a time stamped static image of the projected vein image and saves at-least 200 images the image as a BMP file. Direct projection on surface of skin: should not require secondary monitor to interfere with technique Utilization of device in any orientation without degradation of performance: Vein-imaging device should offer an image that provides for the same accuracy and reliability of image regardless of the rotation of the device/technique for use on the patient. Reat time digital imageshould provide evidence of real-time imaging and demonstrate ability to visualize fluid flushing process for vessel patency to prevent against infiltration and hematoma. Should be a Non-laser based system and the light should not be harmful to eyes. It should not have any mandated eye safety warnings. Emission: Device should be tested to and complies with IEC 60601-1-2 standard or better for Electromagnetic Compatibility (McI) and for realized and conducted		Country of Origin:	
Should be a portable, hand held model for eary handling, Wrist strap Penetration Depth: The veri imaging device to brould have the ability to visualize vessels up to 10mm deep or better, the ideal clinical depth range for PIV options, with provided clinical evidence to substantiate, Multiple Imaging Modes: Universal, Inverse mode - for Adult and dark skin patients Fine detail mode, resizemode.NICU/Paediatric patients Max Bright Modes: Special Max Bright mode for using the equipment in non-standard Lighting conditions / under Sunlight for without dimming the room light. Image Cuality and Focusives imagine device should offer an image appropriate across all skin tones and a method of detecting when image is at the proper focal distance, by clearly reading the text in image outline border. Should have minimum brightness of 8 lumens and substantiate with technical specifications evidence. Image Captures optionshould have an in-built camera to capture the real time image of the vasculature under focus area. Captures a time stamped static image of the projected vein image and saves at-least 200 images the image as a BMP file. Direct projection on surface of skin: should not require secondary monitor to interfere with technique Utilization of device in any orientation without degradation of performance. Vein-imaging device should offer an image that provides for the same accuracy and reliability of image regardless of the rotation of the device/technique for use on the patient. Real time digital imageshould provide evidence of real-time imaging and demonstrate ability to visualize Bluod refill and detect valves. Vein imaging device to provide evidence of real-time imaging and demonstrate ability to visualize Bluod flushing process for veined applications of the light should not be harmful to eyes. It should not have any mandated eye safety warnings. Emission: Device should be tested to and complies with IEC 60601-1-2 standard or better for Electromagnetic Compatibility (EMC) and for registed and conducted emiss		Technical Specifications	
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Device should not come in contact with the skin, preventing contamination, heating etc.		Compatibility (EMC) and for radiated and conducted emissions.	
		Clinical evidence minimum requirementshould provide at least 2-3 peer-reviewed journal in quality.	
Device should not need consumables.		Device should not come in contact with the skin, preventing contamination, heating etc.	
		Device should not need consumables.	

Derations and rechargeable battery.Fast – swap rechargeable Lithium

Mandatory Accessories to be provided: 2.5 mounts, Rechargeable battery, Battery charging station, AC power adapter, USB cable, Training DVO and a storage case.

Portable and Fast Set Up Time/Direct Projection on Surface of skin/Hands free use: Should provide a hands free technique with less than 60 seconds setup time from power up to useable image.

View invested Fise include a straved case (to hold the device, batteries and battery charge) and a charger.

To be provided with standard with [2]: Mounts and [2] clamps so clinicians can mount the device to existing fixtures – allowing for hands free, Eyes on patient technique.

Z Warranty

Comprehensive warranty for 2 years.

Maintennae Service During, Warranty Period

Supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.

Documentation

User (Operating) manual in English Should provide 2 sets/hardcopy and soft-copy)

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195 Videonystagmography (VNG) Machine

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Technical Specifications	
	Component specifications side mount VNG goggles	
	Monocular/Binocular video eye tracking goggles.	
	Removable eve cover for vision enabled or vision denied recording IEEE1394 FireWire	
	Resolution: \$40 x 240 Pixels 010 Hz or better Images: 100 images per second or higher	
	Dispensing box with disposable goggle foam pads.	
	Congeles were unpossing gagger room proces	
	Suggers weight. 305 g (non-occluded view) or less	
	300 g (notinectated view) or less	
_	Jour girculatest viewy or ress Test	
-	Test Calibration.	
-	Spontaneous Nystagmus, Dix Hallpike,	
-	Positional,	
-	Bithermal Caloric: Software	
-	Oculomotor Test:	
-	Gaze	
	Smooth Pursuit Random Saccade Optokinetic	
	It should be including Torsional Eye Movement observation.	
	External Stimulus	
	It should be software generated from the system (PC/Laptop) to the projector & LCD Display.	
	for Oculomotor Test	
	Test Mode	
	Both Automatic and Manual Analysis	
	Test Protocol	
	It should have customizable protocols	
	Operating system	
	Windows® 7 32-bit and 64-bit/Windows® 8.1 64-bit/Windows® 10	
	support	
	64-bit.	
	Should be supplied with	
	RF hand held Remote Control and/or Foot pedal VNG installation media/software	
	Database media/software	
	Cleaning cloth for lens and goggle mirrors	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Shall provide UPS of suitable rating with voltage regulation and spike protection for 30 minutes back-up.	
	Standards and Safety Requirements	
	Must submit ISO 13485:2003/AC: 2007 AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Electrical safety conforms to standards for Electrical Safety IEC 60601-2-37 Medical electrical equipment – Part 2-37. Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment.	
	User Training	
_	Must provide user training (including how to use and maintain the equipment).	
_	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
1	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.	
	<u>Documentation</u>	
	User (Operating) manual in English.	
	Service (Technical / Maintenance) manual in English.	
1 -	List of important spare parts and accessories with their part number and costing.	· · · · · · · · · · · · · · · · · · ·

196 Digital Sphygmomanometer

No.	Item Specifications	Fill your Specification
- 1	Manufacturer Name:	
- 11	Model No.:	
	Country of Origin:	
	Technical specifications	
	Measurement Method	
	Oscillometric	
	Pressurization	
	Internal Micro Pump	
	Display Range	
	0 - 320mmHg	
	Measurement Range	
	Systolic: 60 - 280mmHg (min. division: 1mmHg)	
	Diastolic:40 - 160mmHg (min. division: 1mmHg)	
	Pulse: 30-200bpm (min. division: 1bpm)	
	Pressure: ±3mmHe or ±2% measurement.	
	Accuracy	
	Pulse Rate: whichever is greater ±5%	
	24 hour (1997-2096 and auto leap year setting)	
	Memory Capacity	
	Power Source	
	Three AA Alkaline or NiCd (Batteries included)	
	Temperature & Humidity Range	
	Operation: 50°F to 104°F (10°C to 40°C), less than 85%RH ,-4°F to 131°F (-20°C to 55°C), less than 95%RH	
	Cuff	
	Adult Cuffs, Left Arm (7.9" - 12.2" (20-31cm)) included	
	Large Cuffs, Left Arm (11" - 14.2" (28-36cm)) Optional	
	Small Cuffs, Left Arm (5.9" - 8.7" (15-22cm)) Optional	
	Adult Cuffs, Right Arm (7.9" - 12.2" (20-31cm)) optional	
	Large Cuffs, Right Arm (11" - 14.2" (28-36cm)) Optional	
	CPU	
	Intel 80486DX/equivalent or higher	
	RAM	
	16MB Min.	
	Operating System	
	Windows® 95, 98, 2000, ME, XP	
	Monitor	
	SVGA (800 x 600 dats), 256 color or more	
	Peripherals	
	3.5"/1.44MB floppy disk drive	
	Hard Disk	
	1.5MB Min	
	Serial Port	
	Standard RS -232C port	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
	Comprehensive warranty for 2 years.	

No.	Item Specifications	Fill your Specification
.40.	Manufacturer Name:	your specification
_ 11	Model No:	
III	Country of Origin:	
1	Description of function	
	Used in urology display & monitr during operation.	
	Technical specifications	
2.1	X-Ray Generator	
	Microprocssor based, high frequency inverter generator, 40 KHz or better Power outbut: 2.5 Wor more	
	Tower output: A RW of more Floring and the Company of the Company	
	mai ir radiography: 20mA or more	
	mA in fluoroscopy: 0.1 to 4 mA or more in normal fluoroscopy and 12 mA or more in High Level Fluro	
	Should have facility for continuous fluoroscopy and Pulse fluoroscopy (Pulse rate upto 8 pulse per second)	
	Should have Digital Spot for high quality single image, 16 mA or more	
	Housing heat capacity of minimum 700 KHU and cooling rate of more than 12,000 HU/min	
2.2	X-Ray Tube	
	Output should match the output of the generator, Rotating ander bye, dual focal spot, shall not be more than 0.6 mm and 1.2 mm	
	Notating amone type, user used split, steen true then to sittle steen the st	
	what remote render render to the control of the con	
	Should be operator controlled automatic collimation	
	Collimation: motorized iris and motorized rotating blades	
2.3	C-Arm mechanism:	
	Locks for stabilization at desired position	
<u> </u>	It should have the following range of movements:	
<u> </u>	Source image distance: 950 mm or more	
-	Begth of carm: 550 mm or more Horizontal travel a least 200mm	
	Horizonia trave at least 400mm	
	vertical travel at least auum mil	
	Swing / panning movement: +/-12'or more	
	Rotation about horizontal axis shall be more than +/-180*	
2.4	Control panel (Digital work station)	
	It should have the following facilities:	
<u> </u>	System should have capabilty of Pulse Fluoroscopy option to reduce to radiation exposure with 1,2,4,8 pulse per second, which should be easily user selectable	
\vdash	Fluoroscopy and Radiography exposure on switching	
-	Image rotation from control panel Image rotation from control panel Image rotation from control panel Image intensification, node selection (normal and zoom)	
	mage meismicanon, mobe seecuon (norma ano zoom) Automatic brightness stabilizer	
	Automotic originates assumed	
	Collimation for radiography	
2.5	Image Intensifier:	
	Put diameter 9" with Triple field (9/6/4)	
<u> </u>	Minimum central resolution (at monitor): 2.0 lp/mm or better at 9" FOV	
\vdash	CCD camera technology with ABC and ABC control	
2.6	CCD camera with Lxt.k resolution for high resolution image acquisition TW Monitor:	
2.0	17 monutor. 2 LCD monitor medical grade flat screen TFT	
L	Shall be at least 43 cm with automatic brightness control	
	Should have image rotation facilities	
<u> </u>	Automatic and manual control of brightness and contrast	
<u> </u>	Mounted on mobile trolley with locking device	
2.7	High resolution (1280x1024 pixels or better)	
2.7	Imaging Modes Floorscopy mode shall have the following facilities:	
	ruporscopy mode shall nave the toulowing faculties: Continuous (floorscopy with last inage hold	
	Commission industry with its climage involu	
L	Continuous fluoroscopy with image acquisition rate: about 20 frame/second.	
	Hard disk with image storage capacity of at least 25000 images	
	RAM Memory of 256 images	
<u> </u>	Mosaic display of 16 images	
<u> </u>	Zoom (x 2)	
3	Measures: at least distances, angles Accessories, spares and consumables	
3.1	ACCESSORS, spares and consumables and parts required to operate the equipment.	
3.1	All Standard accessories, Consumatories and parts required to operate the equipment. Sterlinable textile cover and clips, for the X-ray tubee and the Cassette holder for 24 x 30 cm	
	Activisms teals (Code and Code), no the Arist Guide dim 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (Soberle Hower to 24 A 20 CH) Lead apron, light weight with Lead equivalence 2 min 3 feet (So	
4	Environmental factors	
4.1	The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90	
	The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%	
5	Power supply:	
5.1	Input power supply: 220/240 V AC, 50Hz single phase schuko plug	
5.2	Built in UPS to protect & save patient data Standards and safety requirements	
	Nandarias and satety requirements Equipment should have AERB Type Approval Certificate for radiation safety	
6.2	equipment snown nave actus type approach Letrincate for radiation sarety Should be FDA or CE approved product certificate.	
	SMOOTO DE LE APPROVED PRODUCT CERTIFICATE.	
	wasians to warranty for 2 years.	
	Availability of spare parts for minimum (10) years.	
8	User Training	
	Must provide operating and service trainings local and overseas	
	Documentation	
9.1	User (Operating) manual in English Should provide 2 setShardcopy and soft-copy)	
9.2	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy) List of important spare parts, accessories and consumables with their part numbers and costing.	
2.3	an or important aport, porta, accessories una consumante areal titet part number a ana costing.	

198 C-Arm Machine for Neurosurgery

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 11	Country of Origin:	
	The proposed mobile C-arm system must include:	
	Mobile C-arm with motor driven orbital movement and capability to perform 3D reconstructions	
	High frequency generator	
	Monoblock	
	Digital flat screen image intensifier	
	2 High res flat screen monitors	
	2 operating consoles with touch screen display	
	Digital imaging system	
	DICOM connectivity	
	Clinical Applications:	-
	The mobile C-arm system must be able to perform the following investigations:	
	Fluoroscopy, including 3D reconstructions, for specialised spinal surgery and spinal interventional	
	radiology procedures, including	
	Spinal fusion and stabilisation, including minimally invasive surgical procedures	
	Spinal biopsy	
	Injection therapy including	
	Facet joint injections	
	Epidural injections	
	Nerve root blocks	
	Verteboplasty, kyphoplasty and sacroplasty	
	On table angiography	
	Intra-operative delineation of spinal arteriovenous malformations, vascular tumours etc	
	Mobile C-arm	
	The mobile C-arm must comply with the following minimum requirements:	
	Motor driven C-arm with isocentric movement	
	Motor driven orbital rotation: minimum 130o	
	Vertical travel: minimum 420mm	
	Horizontal travel: minimum 220mm	
	Swivelling (panning): minimum +/- 100	
	Angulation: minimum 220o	
	Focus – image receptor distance: minimum 1000mm	
	C-arm vertical free space: minimum 800mm	
	C-arm depth: minimum 750mm	
	Parallel movement of C-arm stand with operating table	
	Wheels steering and braking system	

Cable deflection system on wheels High Frequency Generator	
The high frequency generator must comply with the following minimum requirements:	
Microprocessor controlled HF generator Fluoroscopy KV range: minimum 40-110kV	
Fluoroscopy mA range: minimum 1.5-20mA Fluoroscopy unds rate: minimum 25 pulses/sec	
Digital radiography kV range: minimum: 40-110kV	
Digital radiography may mA: minimum 20mA Minimum working possibilities:	
Pulsed fluoroscopy	
Digital radiography Application oriented anatomical programmes in fluoroscopy and digital radiography	
Real time detection programme for moving objects in the operating field Monoblock	
The monoblock must comply with the following minimum requirements:	
X-ray tube with two focal spots Focal spots sein influencescopy c.6mm	
Maximum anode heat capacity: minimum 45kHU	
Monoblock heat capacity >4000Khu Maximum anode heat dissipation: minimum 500W	
Continuous heat dissipation in clinical performance: <400W Additional Historia: >0.1mmCU	
Total filtration >4mmAl	
Collimators The collimators must comply with the following minimum requirements:	
Iris collimator	
Slot Collimator with rotation of cones Two cindepends shutters with minimum of 900 rotation	
Collinator rotation 4-)- 900 Virtual collination without radiation	
Digital flat panel image intensifier	
The digital flat panel image intensifier must comply with the following minimum requirements: Detected field size: minimum 19x19 cm	
Detector matrix: minimum 1024x1024 pixels	
Dynamic range: minimum: 72dB Monitors	
Two high resolution flat screen monitors must be supplied, each to the following minimum requirements: Minimum 18" on a mobile trolley	
TFT high res monitors 1280x1024	
Brightness: min 600cd/m2 Contrast ratio: minimum 600:1	
Contact and Department Security Contact and Securit	
Digital memory	
The system must be supplied with digital memory complying to the following minimum requirements:	
Fluoroscopic sequential image storage and display: minimum 25 images/sec Memory storage capacity on HDD: minimum 60,000 images with 1024x1024 matrix	
Memory matrix: 1024-0124 pixels image matrix: 1024-1024 pixels	
Digital image processing: minimum 32bit	
User interface consoles Two user interface consoles are to be supplied, with synchronised displays, one on the monitor trolley and	
one on the C-arm stand, each with the following minimal requirements:	
TFT touch screen displays Oisplays with inutive ions for equipment operation	
Hardware The system must be supplied with appropriate hardware for the clinical applications outlined above including	
the support of 3D reconstructions. This will be to the following minimum requirements:	
Microprocessor: minimum 2 cores Microprocessor frequency minimum 2.5 GHz	
RAM: minimum 2048RAM	
USB port	
CD/DVD +/-RW	
Software	
Software The system must be supplied with appropriate software for the clinical applications outlined above including the support of 3D reconstructions. This will be to the following minimum requirements:	
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The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
Should work on 220-240V/50 Hz AC Single phase fitted with appropriate plugs and sockets.	
7 Standards and Safety Requirements	
The unit offered shall be certified to meeting the relevant requirements of TUV, CE mark (MDD), FDA and/ or any equivalent quality and safety standards.	
Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.	
User Training	
On site operational training till the familiarity of the system and satisfaction of end user shall be provided.	
Warranty	
Comprehensive warranty for 2 years.	
Maintenance Service During Warranty Period	
Preventive & Corrective Maintenance:	
During the warranty period supplier must ensure planned preventive maintenance (PPM) at least 3 nos. in a year along with corrective/breakdown maintenance whenever required.	
Installation, Inspections and Commissioning	
Supplier must accomplish proper installation and commissioning of the equipment on site.	
Inspections to verify the compliance of the offered equipment as per the specifications	
Documentation	
User (Operating) manual in English	
Service (Technical / Maintenance) manual in English	
List of important spare parts and accessories with their part numbers and costing.	
Log book with instruction for daily weekly, monthly and guarterly maintenance checklist.	,

Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist.

199 Minor surgical Set

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 11	Country of Origin:	
	Technical Specifications	
	surgical knife handle - Qty. 1	
	needle holder straight (mayo) 17.5 - Qty. 1	
	straight artery forceps ,pean 16 - Qty. 1	
	curved artery forceps, pean 16 - Qty. 1	
	dissecting forceps - Qty. 1	
	Curved. Scissors , blunt point (mayo) 17 cm - Qty. 1	
	surgical scissors , straight , blunt 14.5 cm - Qty. 1	
	sharp uterine curette 26 cm x 9 mm sims - Qty. 1	
	blunt uterine curette 26 cm x 8 mm (sims) - Qty. 1	
	kidney basin 475 ml (16oz) stainless steal 12" x5 x 2-3/8 - Qty. 1	
	torch power supply 220v , 50Hz - Qty. 1	
	Bowl, solution, stainless steel, 8 liters Qty. 1	
	gauze scissors - Qty. 1	
	dressing tray - Qty. 1	
	surgical towels - Qty. 1	
	handing forceps - Qty. 1	
	Operating Environment	
	The unit shall be capable of operating in ambient temperature of 15°C-35°C and relative humidity of 10-95%	
	The unit shall be capable of being stored continuously in ambient temperature of -5°C -40°C and relative humidity of 10-95%	
	Standards & Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	Warranty	
	Comprehensive warranty for 2 years.	

200 Spectrophotometer

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Description of Function	
	Very/issual spectroscopy is routinely used in the quantitative determination of solutions of transition metal ions and highly conjugated organic compounds. The instrument used in ultraviolet-visible spectroscopy is called a UV/Vis spectrophotometer. It measures the intensity of light passing through a sample (I), and compares it to the intensity of light before it passes through the sample (Io). In a double-beam instrument, the light is split into two beams before it reaches the sample. One beam is used as the reference; the other beam passes through the sample. Some double-beam instruments have two detectors (photodiodes), and the sample and reference beam are measured at the same time.	
	Operational Requirements	
	System Must provide for analysis of Protein, DNA / RNA & Enzyme kinetics etc.	
	Microprocessor controlled Double beam spectrophotometer with scanning, kinetic and multi wave length facility, Self-check & self-diagnostic facility and Auto wavelength calibration facility	
	System Configuration	
3.1	UV-visible Spectrophotometer, Dual Beam with complete accessories.	
4	Technical Specifications	
	Single beam and double beam mode: Allow both modes	
	Wavelength range: 190nm - 1100nm	
	Photometric range :Minimum 2.0 Absorbance (Abs.) units	
	Lamp switching: Allow both modes manual or automatic	
	Band width: 0.2 nm - 4.0 nm or better, with 0.1 nm of increments	
	Must have automatic baseline corrections	
	Wavelength accuracy: Minimum of ±0.2 nm	
	Wavelength reproducibility:0.05 nm or better	
	Wavelength resolution: 0.2 nm or better	
	Photometric accuracy: ±0.003 Abs. units or better for 1.0 Abs. units	
	Photometric stability: After 2 hour Must not be more than 0.0005 Abs. units/h	
4.12	Photometric reproducibility: Must not be more than 0.0005 Abs. units at 0.5 Abs. units	
4.13	Photometric noise: Must not be more than 0.0003 Abs. units at 1.0 Abs. units	
4.14	Scan speed: Must be between 0.25 nm/sec. and 8 nm/sec. or better	
4.15	Monochromator slew rate: Must be 1500 nm/min. or better	
4.16	Acquisition at more than one wavelength: Minimum of two	
4.17	Must have Data acquisition and processing system	
	Must be Photometric scaling in Abs. units, %T, log Abs. units and concentration	
	Must Abscise scaling in nm, min., deg. and mm	
	Calibration at one or more levels and one or more wavelengths	
	Must Calculate and give factor for linear regression and other	
	Must Build and memorize in file form: data, method and report	
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	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Suitable UPS with maintenance free batteries for minimum 30 min. back-up shall be supplied with the system.	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate.	
	Must be compliant with IEC 61010-1:(or any international equivalent e.g. EN/UL 61010) covering safety requirements for electrical equipment for measurement control and laboratory use.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years from acceptance.	
	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.	
	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.	
	Documentation	
	User (Operating) manual in English	
	Service (Technical / Maintenance) manual in English	
12.3	List of important spare parts and accessories with their part number and costing.	

201 Electrolyte Analyzer

No.	Item Specifications	Fill your Specification
		Fill your Specification
	Manufacturer Name:	
	Model No.:	
III	Country of Origin:	
	Technical Specifications	
1	For analysis of electrolytes in laboratories or hospital point of care	
2	Units to measures electrolytes from whole blood, serum, plasma,	
3	Urine dialysate or aqueous standards.	
4	The machine can be configured to measure Na,K,and ionized	
5	Calcium Interchangeable electrodes	
6	Programmable correlation factors	l -

7	microprocessor controlled.	
8	Electrodes for : Sodium. Potassium, Chloride., Ionized Calcium,	
9	Lithium Reference System.	
10	Sample Size not more than 100 uL	
11	Measurement range for blood approx:	
	Na+: 20 - 200	
	K*: 0.2 - 40	
	CI: 25 - 200	
	ii: 02-5	
	Ga+:: 0.1 - 6	
	PH: 6-8 units	
12	Measurement range for urine approx:	
12	weessurement range for unine approx. Nat- 25 - 1000	
	180°-22-2000 Ke: 1-500	
	C: 25-500	
-	Co. 25 - 300 Sample Application syringe, sample cup, collection tube, capillary	
-	Sample Application syringe-parties (blood) not more than 1 min	
-	Analysis Time (urine) not more than 2 min	
\vdash	Analysis time (unne) not more than 2 min Samole Rate minimum 60 samole/hour	
	Sample kate minimum up sampie/nour Must has Built in printer	
_		
-	Consumables details	
	Specify all Reagent types and solutions that machine used with their volumes and packing	
	Specify the Total shelf life for each Reagent, Solution and materials	
	Specify the No. of tests per each set	
	Specify the Cost per test	
	Specify QC materials and intervals	
	Specify auto calibration frequency and volumes of reagent consumed if applicable	
18	Operating Environment	
	The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%	
	The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%	
19	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Suitable UPS with maintenance free batteries for minimum 30 min. back-up shall be supplied with the system.	
20	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	Should be FDA/CE approved product.	
	Shall meet internationally recognised for Electromagnetic Compatibility(EMC) for electromedical equipment: 61326-1.	
	Certified to be compliant with IEC 61010-1, IEC 61010-2-281, 61010-2- 101 for safety.	
21	User Training	
	On site operational training till the familiarity of the system and satisfaction of end user shall be provided.	
22	Warranty	
	Comprehensive warranty for 2 years from acceptance.	
23	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.	
24	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 user in advance, in detail.	
25	Documentation required	
	User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
	Must submit the List of all Reagents / Consumables / Controls / Calibrators and spare parts and accessories and with their part number and costing (in foreign currency)	
	· · · · · · · · · · · · · · · · · · ·	

202 Analytical Balance

No.	ltem Specifications	Fill your Specification
- 1	Manufacturer Name:	
II	Model No.:	
III	Country of Origin:	
1	Technical Specifications	
	Capacity : Maximum wieght : 300 g.	
	Readability: 0.0001 g.	
	Multilingual display.	
	steplization time: ±(3-10) s.	
	Large backlit display with dual text prompts.	
	Large stainless steel pan.	
	Solid metal housing.	
	Non-slip adjustable levelling feet.	
	Lock down mounting slot .	
	Dual tare keys.	
	Splashproof to protect from accidental spills.	
	RS-232 bi-directional interface.	
	Internal calibration.	
	External calibration.	
	AC Adapter.	
2	Operating Environment	
2.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
2.2	Power supply: 220-240V/50 Hz AC Single phase with appropriate plug. The power cable must be minimum 3 Meter	
3	Standards and Safety Requirements	
3.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
3.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
4	User Training	
4.1	Must provide user training (including how to use and maintain the equipment).	
5	Warranty	
5.1	Comprehensive warranty for 2 years after acceptance.	
6	Maintenance Service During Warranty Period	
6.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
7	Installation and Commissioning	
7.1	Supplier must accomplish proper installation and commissioning of the equipment on site.	
8	Documentation	
8.1	User (Operating) manual in English	
8.2	Service (Technical / Maintenance) manual in English	
8.3	List of important spare parts and accessories with their part numbers and costing.	

203 Binocular Microscope (Electric)

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
II	Model No.:	
III	Country of Origin:	
1	Description of Function	
1.1	Compoun d microscope consists of two or more than two magnifying lenses. One can view individual cells, even living ones. It has high magnification	
2	Operational Requirements	
2.1	System co mplete with illumination system is required.	
3	System Configuration	
3.1	Binocular Microscope Compound with complete accessories	
4	Technical Specifications	
4.1	Body :Bin ocular, sturdy, stable base body with focus adjustment controls	
	Eye piece : Paired, high quality, (the image of the object as seen through the binocular eyepiece must be well defined centrally in at least 2/3 field of view), achromatic, wide field, 10x and 15x without inbuilt pointer. The eyepiece must be aplanatic	
4.2	and have a minimum field number of 18. Dioptre adjustment must be present on one/ both eye pieces or on the eye piece tube	
4.3	Objective : Four 4x, 10x, 40x, 100x.	
4.4	10x and 4 0x objectives must have numerical apertures of 0.25 and 0.65 respectively and must be of spring loaded type or otherwise.	
4.5	100 x mu st have numerical aperture of 1.25 and must be of oil immersion and spring loaded type.	
	Suitable prominent marking must be provided on 100x for easy identification.	
4.6	Unbreaka ble containers to be provided for storing the objectives. All objectives must be wide field, achromatic and par focal.	
4.7	Making f or the Objectives: Each objective must be engraved with the following information:-	
	® Name of the manufacturer	
	BMagnification and numerical aperture, for example, 10x/0.25	
	\$ 100x objective must be engraved with the word 'Oil'	
	Nose piece: Revolving nose piece to accommodate four objectives with click stops. It must be provided with ribbed grip for easy rotation mounted on a precision ball bearing mechanism for smooth and accurate alignment. Extra ports if any must be	
4.8	fitted with dust proof metallic/ebonite caps.	
	Stage Un iformly horizontal, mechanical stage having dimensions of length 140 mm (+/- 20mm) with fine vermier graduations (minimum reading accuracy of 0.1 mm). the stage must be provided with spring loaded slide holder for exact positioning of	
4.9	specimen/ slide. It must be designed with convenient sub-stage vertical coaxial adjustment for slide manipulation. The stage must have ball-bearing arrangement to allow smooth travel in transverse directions i.e. 80 mm (+/-5mm) and front to back	
	direction, 50mm (+/-5mm)	
	Sub-stage condenser: Abbe-type condenser, numerical aperture (N.A.) 1.25 focusable with rack and pinion arrangement incorporating a spherical lens and an iris-diaphragm. The condenser must have a filter holder and removable/ swing in/ out blue	
4.10	filter (suitable for bright field Microscopy).	
	Sub-stage illuminator: 1.The system must have a build-in variable light source (Illuminator). This source must have a 20 W, 6/12 V Halogen lamp. The circuitry for the light source must include a constant voltage supply. The system must be provided	
4.11	with a step down transformer and an on-off switch and intensity control. The lamp must be provided with a lamp socket which has the facility for easy replacement of the bulb. light	ĺ
4.12	The Illuminator must have a build-in field diaphragm for Kohler illumination.	
4.13	Eye piece tubes: Binocular eye piece tubes, inclined at 30 and 45 degrees, rotatable through an angle of 360 degrees, having inter-pupillary distance range of 54-74 mm or wider, covering the above mentioned range	
	Focusing knob: Co-axial coarse and fine focusing knobs capable of smooth fine focusing movement over the full range of coarse travel. The fine focusing movement must have sensitivity of two microns or less (finer) over the entire coarse focusing stop	
4.14	safety arrangement must be provided.	ĺ

4.15 General 1. All optical parts including objectives, eye pieces and prisms must have anti-reflective coating which also gives anti-fungal property.	
B All metallic parts must be corrosion-proof, acid-proof and stain-proof	
5 A bottle of at least 25 ml immersion oil, a roll of lens tissue paper and lens cleaning solution (100 ml) must be provided with each microscope.	
© One no. of anti-static cleaning brush must be provided with each Microscope for cleaning purpose.	
E Each Microscope must be supplied with Blue filters. The Blue filter must be packed in the box and not fixed on the Microscopes.	
5 Accessories, spares and consumables	
5.1 Accessories:	
🖪 100x oil immersion objective – one.	
B Halogen bulb, (6/12volts, 20w) – 6 Nos.	
₿Fuses – 6 Nos	
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	
5.2 (including items not specified above).	
6 Operating Environment	
6.1 The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6.2 Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 metres long.	
6.3 Voltage corrector/stabilizer of appropriate ratings meeting international standards.(Input 160-260 V and output 220-240 V and 50 Hz)	
7 Standards and Safety Requirements	
7.1 Must sub mit ISO13485:2003/AC:2007 for Medical Devices AND	
7.2 CE or US FDA 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 years 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 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	
12.3 List of important spare parts and accessories with their part numbers and costing.	

204

Water Bath

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
- 11	Country of Origin:	
- :	Technical Specifications	
	Digital Tempereture Control	
	Capacity approx: 10 liter	
	Temp 30-100c	
	Temperature Sensitivity: +/- 0.5°C.	
	Temperature sensor : PID	
	Body: Inner body SS and outer body MS with powder Coated.	
	With Mixing Unit	
	Stainless Steel	
	Safety Thermostat	
	Accessories	
	Stainless Steel Racks	
	Flat lids With Rings Cover	
	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 Power Supply, Climate, Temperature, Humidity, etc.	
5.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meter in length.	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
- 1	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.	
10	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.	
1:	Documentation	
	User (Operating) manual in English.	
	Service (Technical / Maintenance) manual in English.	
	List of important spare parts and accessories with their part numbers and costing.	1

205

Ultra Plasma freezer (-80 °C)

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Description of Function	
	Deep Freezers are required to preserve blood and blood products, vaccinations etc at specified temperature.	
	Operational Requirements	
	Internal Minimum Capacity 350 to 400 L net at least double door with adjustable At least 6 shelves	
	Range up to -65C to -85C(Adjustable)	
2.	Vertical Cabinet (upright model)	
	Technical Specifications	
3.	Construction:	
	Solid rust free cabinet to prevent corrosion and lockable castor wheels. Inner surface should be stainless steel.	
3.	CONTROL SYSTEM	
	Micro-processor based temperature controller with digital temperature display LED/LCD with seven days graphic temperature recorder with rechargeable battery back up including charger maintenance free and insensitive to vibration. Details of	
	battery and battery charger shall be indicated.	
3.	Refrigeration System	
	Heavy Duty refrigeration system, maintenance free, below -850C (+ 10 C) with hermetically sealed dual compressors, noise free and vibration free, air cooled with security lock to prevent unintentional switch off shall be supplied. It should have	
	maximum cooling time of 5 hours at maximum ambient temperature of 330C. The equipment should be of continuous duty.	
3.	Alarm	
	It should also have audio visual Electronic Alarm System independent of power supply.	
	Insulation	
	High density polyurethane or equivalent Gaskets - Double seal silicon.	
	Door heating system for easy opening of door	
	System Configuration Accessories, spares and consumables	
	Refrigerator -01	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Standards, Safety and Training	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period During warranty period Supplier must ensure corrective/breakdown maintenance whenever required.	
	Installation and Commissioning	
	Supplier must accomplish proper installation & commissioning of the equipment on site.	
1	Documentation	
	User (Operating) manual in English	
	Service (Technical / Maintenance) manual in English	
	List of important spare parts and accessories with their part numbers and costing.	

206 Benchtop tube sealer

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- II	Model No.:	
III	Country of Origin:	
1	Description of Function	
	Blood Bag Tube Sealer is a compact equipment to seal the Blood Bag pilot tube by radio frequency sealing system.	
2	Operational Requirements	
	The system should be heavy duty and be able to seal the blood bag etc quickly and effectively.	
	Should be simple to handle	
	System should gently seal the tubing with no hemolysis.	
3	Technical Specifications	
	Should be a heavy duty tube-sealer capable of sealing tubes of various manufacturers of blood bag.	

Should be for bench-top use.	
The sealing time should be adjustable between 0.5-5 seconds	
Sealing triggering should be automatic	
Should also have extended portable hand unit. Sealing hand should be with coaxial cable of 1.5 - 2.0 meter.	
Should have indication lamps (LED or any other) for "Sealing Process" on handle as well as main unit.	
No warm-up time should be required.	
Should ensure easy separation of tube segments after the sealing.	
System should run on both mains and battery (more than 10 hrs. back up and charger).	
Should be lightweight not more than 6 Kg.	
Detection of wet tube, leakage & sealing defect. Alarm in case of seal not complete.	
4 4 System Configuration Accessories, spares and consumables	
Tube Sealer with Accessories - 01	
5 Operating Environment	
The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6 Standards, Safety and Training	
Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
CE (93/42 EEC Directives) or USFDA approved product certificate.	
7 User Training	
Must provide user training (including how to use and maintain the equipment).	
8 Warranty	
Comprehensive warranty for 2 years after acceptance.	
Maintenance Service During Warranty Period During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
9 Installation and Commissioning	
Supplier must accomplish proper installation & commissioning of the equipment on site.	
10 Documentation	
User (Operating) manual in English	
Service (Technical / Maintenance) manual in English	
List of important spare parts and accessories with their part numbers and costing.	

207 No. Item Specifications

Item Specifications

Item Specifications

Item Specifications

Item Specifications

Item Country of Origin:

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Item Country Cold Centrifuge Fill your Specification

208 Platelet Agitator (shaker & incubator) Item Specifications Fill your Specification No

	Manufacturer Name:	
- II		l
	Model No.:	L
III	Country of Origin:	L
1	Technical Specifications	L
	Stainless steel chamber with adjustable shelves and a tough ended glass inner viewing door.	L
	The outer cabinet is to be rust resistant.	
	Temperature Control detail required:-	
	An LED display to show the chamber temperature, Indicator	
	Lamps to show when the heater is active and if an over temperature condition exists.	
	The over temperature safety cut-out to be set by the user.	
	Fitted with circulation fan.	
	Temperature Range: At least 5°C above ambient to +60°C	
	Control (fan): ±0.1°C at +37°C	
	Variation (fan): ±0.25°C at +37°C	
	Chamber Capacity: 80 - 100 Litres	
	Shelves: >= 5.	
2	Operating Environment	
2.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
2.2	Power supply: 220-240V/ 50 Hz AC Single phase with appropriate plug . The power cable must be minimum 3 Meter	
2.3	Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.	
	Standards and Safety Requirements	
3.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
3.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
5	Warranty	
5.1	Comprehensive warranty for 2 years after acceptance.	
6	Maintenance Service During Warranty Period	
6.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
	Installation and Commissioning	
7.1	Supplier must accomplish proper installation and commissioning of the equipment on site.	
8	Documentation	
	User (Operating) manual in English	
	Service (Technical / Maintenance) manual in English	
8.3	List of important spare parts and accessories with their part numbers and costing.	1

209 I.V Stand

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	
III	Country of Origin:	
1	Description of Function	
1.1	This IV/saline stand is used for hanging various intravenous items such as blood bag, glucose bottle etc.	
2	Operational Requirements	
2.1	Epoxy powder coated IV/Saline stand with castors.	
3	System Configuration	
3.1	Adjustable IV/saline stand with five legs, with 4 hooks and five swivels castors.	
4	Technical Specifications	
4.1	The IV stand shall be made of tubular anti-corrosive and antirust treated epoxy powder coated mild steel, with a 5 pronged base fitted on mobile on swivelling castors of approx. diameter @50mm. The castors must be non-rusting and non-marking.	
4.2	The stand should come with stainless steel double IV hook, height adjustable from approximately 1620mm to 2340mm, with a screw knob for height adjustment.	
5	Operating Environment	
5.1	The product offered shall be designed to be stored and to operate normally under the conditions. The conditions include Climate, Temperature, Humidity, etc.	
6	Warranty	
6.1	Comprehensive warranty for 2 years after acceptance.	

210		Manual Patient Bed One Movement With Mattress	İ
	No.	Item Specifications	Fill your Specification
		Manufacturer Name:	
	- 11	Model No.:	
	III	Country of Origin:	
	1	Description of Function	
			í .

	Mattress is to provide a comfortable platform to rest or sleep upon the bed.	
	Operational Requirements	
2.1	The patient bed shall be made of solid steel construction with anti-corrosive and antirust treated baked hard epoxy powder coating	
3	System Configuration	
3.1	Hospital Bed epoxy powder coated	
4	Technical Specifications	
4.1	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.	
4.2	The patient bed shall be fixed height with 2 sections where the backrest section could be elevated by mechanical hand crank located at the foot-end of the bed.	
4.3	Shall have 4 IV rod receptacles and mosquito net pole receptacles at the 4 corners	
4.4	It shall come with one dual hook anti-corrosive and antirust treated epoxy powder coated or 304 grade stainless steel IV rod.	
4.5	Shall have provisions to fix urinary bag on both sides.	
4.6	It shall mobile on 4 x 200mm robust swivelling castors with non-marking grey tyres and with at least 2 diagonal castors shall have locking/brake mechanism.	
4.7	Bedhead and foot-end panel (head and foot bows) shall be made of either between 4-6 anti-corrosive and antirust treated epoxy powder coated vertical tubular tube of not less than 30mm in diameter or epoxy powder coated steel panel	
4.8	Both bedhead and foot-end panel shall be detachable.	
4.9	The height of the bedhead panel: not less than 1060mm from floor.	
4.10	The height of the foot-end panel: not less than 820mm from floor.	
4.11	Overall approximate dimension: not less than 1980mm length, 910mm width, 600mm height	
4.12	The mattress negotiable with hospital beds having an overall approximate dimension of not less than 1980mm length, 910mm width.	
4.13	It shall be fire retardant antibacterial treated high density approx. 40kg/m3 PU foam mattress.	
4.14	The mattress shall have thickness of at least 100mm.	
4.15	Mattress with two sections shall be designed to bend with the positioning of the bed when the backrest and foot section of the bed are adjusted.	
4.16	The weight capacity of the mattress shall be more than 100kg.	
4.17	Mattress Cover:	
	The mattress shall come with a zipped fire retardant antibacterial, antistatic, acid resistance, waterproof and washable vinyl or vinylized nylon cover. It shall be designed to provide ventilating airflow over the patient's skin. The zip shall be a heavy-duty/large toothed synthetic zipper to enable inspection of the inner foam and totally covered by a flap extending over the zip to prevent ingress of fluids into the actual mattress and allow for replacement.	
5	System Configuration Accessories, spares and consumables	
5.1	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 Teaching Standard St	
6	The period period of the perio	
	The system offered shall be designed to store and to operate normally under the conditions. The conditions include Climate. Temperature. Humidity, etc.	
	The system meters along the designed to store and to operate normally ander the conditional medical element, respectively, normally see:	
7.1		

	Manual Patient Bed Two Movements With Mattress	
No.	Item Specifications	Fill your Specific
	Manufacturer Name:	
	Model No.:	
	Country of Origin:	
	Description of Function	
	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.	
	Mattress is to provide a comfortable platform to rest or sleep upon the bed.	
	Operational Requirements	
2.1	The patient bed shall be made of solid steel construction with anti-corrosive and antirust treated baked hard epoxy powder coating	
3	System Configuration System Configuration	
3.1	Hospital Bed epoxy powder 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 with 3 sections where the backrest section could be elevated by mechanical hand crank located at the foot-end of the bed.	
	Shall have 4 IV rod receptacles and mosquito net pole receptacles at the 4 corners	
	It shall come with one dual hook anti-corrosive and antirust treated epoxy powder coated or 304 grade stainless steel IV rod.	
	Shall have provisions to fix urinary bag on both sides.	
4.6	It shall mobile on 4 x 200mm robust swivelling castors with non-marking grey tyres and with at least 2 diagonal castors shall have locking/brake mechanism.	
4.7	Bedhead and foot-end panel (head and foot bows) shall be made of either between 4-6 anti-corrosive and antirust treated epoxy powder coated vertical tubular tube of not less than 30mm in diameter or epoxy powder coated steel panel	
4.8	Both bedhead and foot-end panel shall be detachable.	
4.9	The height of the bedhead panel: not less than 1060mm from floor.	
4.10	The height of the foot-end panel: not less than 820mm from floor.	
4.11	Overall approximate dimension: not less than 1980mm length, 910mm width, 600mm height	
4.12	The mattress negotiable with hospital beds having an overall approximate dimension of not less than 1980mm length, 910mm width.	
4.13	It shall be fire retardant antibacterial treated high density approx. 40kg/m3 PU foam mattress.	
4.14	The mattress shall have thickness of at least 100mm.	
4.15	Mattress with two sections shall be designed to bend with the positioning of the bed when the backrest and foot section of the bed are adjusted.	
4.16	The weight capacity of the mattress shall be more than 100kg.	
4.17	Mattress Cover:	
	The mattress shall come with a zipped fire retardant antibacterial, antistatic, acid resistance, waterproof and washable vinyl or vinylized nylon cover. It shall be designed to provide ventilating airflow over the patient's skin. The zip shall be a heavy-duty/large toothed synthetic zipper to enable inspection of the inner foam and totally covered by a flap extending over the zip to prevent ingress of fluids into the actual mattress and allow for replacement.	
5	System Configuration Accessories, spares and consumables	
5.1	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	
6	Operating Environment	
	The system offered shall be designed to store and to operate normally under the conditions. The conditions include Climate, Temperature, Humidity, etc.	
	Warranty	
	Warranty for 2 years.	

	Electric Suction Two Bottles	
No.	Item Specifications	Fill your Spec
	Manufacturer Name:	i iii youi spec
- 1	Model No.:	
	Country of Origin:	
	Country or origin. Description of Function	
11	Description or Tunction To extract fluid from the body during surgery or emergency treatment.	
	Operational Requirements	
	Operational requirements Shall operate on mains AC supply.	
	Sitati Operate Oi Hanis N. Suppy. System Configuration	
	System Computation The system consists of:	
3.1	The system consists of B Suction machine with 2 Jar.	
	B Sociation fundamental 2 Jan. B	
	Estation to the	
	E IVO DOUCES. Technical Specifications	
	i ecnnical specinications The machine shall be portable on four wheels and with a handle for transportation.	
	Internationine snail de potratie on tour winness and with a nandie tor transportation. The vacuum pump must be totally dil-free diaphragm type. Must have maintenance free pumps of international design for continuous use.	
	Ine vacuum pump must be totally oil-ree diaphragm type. Must nave maintenance ree outputs or international dosign for continuous use. Motor shall be of Class "F" insulation to operate in ambient temperature to withstand up to 50 of, with thermal cut-outs.	
	Motor snail be of Lass F institution to operate in amoient temperature to winstand up to 50 Oc, with thermal cut-duts. To facilitate maintenance, the cover of the machine must be easy to open from the too & sides.	
4.4	to ractificate maniferrance, the cover of the machine most be easy to open from the top as sides.	
	The suction machine must be capable of producing minimum vacuum of approx. 700 mm Hg and which must be adjustable and monitored by vacuum gauge of suitable range. The suction capacity must be 25 litres per minute and can be regulated.	
	It must have two bottles of 2L each . 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.	1
4.7	On/Off Switch and power indicator must be available.	
4.8	Shall provide foot switch.	
4.9	Body material:	
	Base, top & panel made of rust proof and corrosion resistant moulded ABS.	
5	Accessories, spares and consumables	
5.1	Accessories:	
	B Spare bottle: 02 nos.	
	B Lids 02 nos.	
	图 Rubber Seals: 02 nos.	
	B Blades 02 nos.	
	B Suction tubing set at least 5 metres: 02 nos.	
	® Spare fuse: 01 set.	
	B Bacterial filter: 05 nos.	
5.2	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.	1
	Operating Environment	1
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	1
	Power supply, 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be apt least 3 metre in length.	1
	Standards and Safety Requirements	
	Must submit IS013485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.	
	User Training	
	User training Must provide user training (including how to use and maintain the equipment).	
	wos to rouse oser caning incooning now to use and maintain the equipment). Warranty Warranty	
	warranty Comprehensive warranty for 2 years after acceptance.	1
	Lomprenensve warranty ror z years atter acceptance. Maintenance Service Durine Warranty Period	1
	Maintenance Service Juring warranty veriod During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
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11.1 User (Operating) manual in English.
11.2 Service (Technical / Maintenance) manual in English.
11.3 List of important spare parts and accessories with their part numbers and costing.

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LED Double Head Ceiling Lamp

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4.38] Must have a control for eachies light intensity and to awisch on the unit. 4.39 (Shall have a control for eachies light intensity and to awisch on the unit. 4.39 (Shall have a control for eachies light intensity and to awisch on the unit. 4.40 (Shall come with continuous didmer, continuous field adjustment. 4.41 (Shall come with continuous didmer, continuous feel adjustment. 4.42 (Vertical adjumment shall not be lies than 1150m. 4.43 (Shall come with Ophthalmic procedures sale light bulbs with a minimum of 1000 hours 4.45 (Shall come with Ophthalmic procedures sale light bulbs with a minimum of 1000 hours 4.46 (Shall come with Ophthalmic procedures sale light bulbs with a minimum of 1000 hours 4.47 (Shall come with Ophthalmic procedures sale light bulbs with a minimum of 1000 hours 4.48 (Shall come with Ophthalmic procedures sale light bulbs with a minimum of 1000 hours 4.49 (International adjument shall not leave the light shall comply with interference suppressed VIX 6975 or equivalent. 4.40 (International adjument shall not leave the shall sha	
4.40) Shall now en On/Off witch at lamp head. 4.40) Shall now en with continuous dismer, continuous feel adjustment, and one with continuous dismer, continuous feel adjustment, and one with continuous between the state of the	
4.40) Starli come with continuous dimmer, continuous focus adjustment. Continuous feel adjustment shall not be less than 115cm. 4.41) Starli come with Ophthalmic procedures safe light buils with a minimum of 1000 hours 4.43) Rotation 360°. 4.44 Shall come with Ophthalmic procedures safe light buils with a minimum of 1000 hours 4.45) The main light and satellite light shall comply with interference suppressed VDE 0875 or equivalent. 4.46) The main light and satellite light shall comply with interference suppressed VDE 0875 or equivalent. 4.47 Installation RI The followings items shall also be included: G celling outing place? Vote the installation on the light shall comply with interference suppressed VDE 0875 or equivalent. B Wires, condust and other accessories for connecting the wall control box, the light and others. B Other and stelling outing place? Vote the installation on the times above. 5 Accessories, sparse and consumables 5 Accessories, sparse and consumables 6 Shall comply and the start of the stallation of the start of the stallation of the start of	
4.412 Vertical adjustment shall not be less than 15cm. 4.43 Rotation: 360°. 4.44 Shall come with Ophthalmic procedures safe light bulbs with a minimum of 1000 hours 4.45 The main light and satellite light shall comply with interference suppressed VDC 8975 or equivalent. 4.46 Transformer and operating elements shall be integrated in housing of main light & satellite light. 4.71 Installation Kit The following: Items shall also be included: B. Celling mounting plated bracket or equivalent and works and materials to make good the celling after installation. B. Wires, conducts and other accessments for connecting the vall control box, the light and others. B. Other materials needed for the installation on the tens above. S. Accessories: B. I is gove set of liuse. 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). Operating Environment S. I is govern and Self-time for additional be designed to store and to operate normally under the conditions include Climate, Power supply, Temperature, Humidity, etc. for Sudan Colorating Environment S. I shadard accessories or consumables and parts required bulbs. The power cable must be at least 3 metre in length. 7. I Standards and Self-time Registrations of the element of the length of the power cable must be at least 3 metre in length. 7. I Standards and Self-time Registrations for electrical safety icit Co6001-1 General requirement for Electrical safety of Medical Equipment. 8. I Have spread and Self-time Registrations for electrical safety icit Co6001-1 General requirement for Electrical safety of Medical Equipment. 9. I Installation of Commissioning 1.1. 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	
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12.2 Service (Technical / Maintenance) manual in English.	
12.3 List of important spare parts and accessories with their part numbers and costing.	

214

Syringe Pump

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	Model No.:	l .
III	Country of Origin:	l .
1	Description of Function	
1.1	The Syringe Infusion Pump provides uniform flow of fluid by precisely driving the plunger of a syringe down its barrel. It provides accurate and continuous flow rate for precise delivery of LV. medication in critical medical care.	
2	Operational Requirements	
2.1	The syringe pump must be programmable, user friendly, safe to use and must have battery backup and comprehensive alarm system. This must be able to integrate in the HIS.	i .
3	System Configuration	1
	Syringe infusion pump with battery backup alarm and with complete accessories.	
	Technical Specifications	l
	Flow rate programmable from 0.1 to 200 ml/hr. or more in steps of 0.1 ml/hr. with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched OFF.	l
	Bolus rate must be programmable to 400 – 500 ml/hr. or more with infused volume display. Reminder audio after every 0.5 ml delivered bolus. SAVE last Bolus rate even when the AC power is switched OFF.	l
	Display of Drug Name with a provision of memorizing 10°15 names by the operator	
	Keep Vein Open (KVO) must be available 1.0 ml/hr. or set rate if lower than 1.0 ml. User must have choice to disable KVO whenever desired.	l
	Selectable Occlusion pressure trigger levels selectable from 300/500/900 mmHg	l
4.6	Must Work on commonly available 20, 50/60 ml Syringes with accuracy of minimum of +/-2% or better.	l
	Automatic detection of syringe size & proper fixing. Must provide alarm for wrong loading of syringe such as flanges out of slot; disengaged plunger, unsecured barrel etc.	l
4.8	Anti-bolus system to reduce pressure on sudden release of occlusion	l
4.9	Must have comprehensive alarm package including: Occlusion limit exceed alarm ,Near end of infusion pre-alarm & alarm, Volume limit pre-alarm & alarm, KVO rate flow, Low battery pre-alarm and alarm, AC power failure, Drive disengaged and preventive maintenance.	İ
4.10	Rechargeable Battery having at least 5°6 hour backup for about 5ml/hr. flow rate with 50ml syringes. Larger battery life and indication of residual life will be preferred.	
5	Accessories, spares and consumables	1
5.1	Accessories:	1
	B Mounting device/ Docking Station for two or four pumps as per requirement so as to enable to power up to 2.4 pumps with one power cord when mounted on IV pole01 pc.	l .
	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	i
3.2	(including items not specified above).	
	Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
7	Standards and Safety Requirements	i.

7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
7.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.	
7.3	Certified for meting IEC60601-2-24:Particular requirements for the safety of infusion pumps and controllers	
7.4	Must meet IEC 529 Level 3 (IP3X) (spraying water) for enclosure protection, water ingress.	
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.	
	Comprehensive warranty for 2 years. Maintenance Service During Warranty Period	
10		
10.1	Maintenance Service During Warranty Period	
10.1 10.1	Maintenance Service During Warranty Period During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
10.1 11.1	Maintenance Service During Warranty Period During the warranty period supplier must ensure corrective/breakdown maintenance whenever required. Documentation	

215 Air Matress

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 1	Model No.:	ı
- II	Country of Origin:	l
	Technical Specifications	
	Circulation time: 3 - 6 minor or better	I .
	Material: Polyurethane, PVC. Or Better	I .
	Air capacity: 3 - 10 L.	I .
	Mattress Dimentions: 200 x 90 cm.	I .
	Air pump attached.	I .
	washable and water proof.	I .
	Patient weight: more than 175 Kg.	I .
	Power Line: 220 V ±20 %, 50 Hz.	I .
	Item must have CE or US FDA certificate	I .
	Comprehensive warranty for 2 years.	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	l .

216 Nebulizer - Home Use

No. Item Specifications	Fill your Specification
Manufacturer Name:	
II Model No.:	
III Country of Origin:	
1 Description of Function	
1.1 Nebuliser is a device used to administer medication to people in forms of a liquid mist to the airways. It is commonly used in treating cystic fibrosis, asthma, and other respiratory diseases.	
2 Operational Requirements	
2.1 Home Use compact Nebuliser is required.	
3 System Configuration	
3.1 Nebuliser, complete unit with all standard accessories.	
4 Technical Specifications	
4.1 Compact, lightweight, low noise.	
4.2 Durable long life compressor. must be able to run uninterruptedly for one hour.	
4.3 Maximum pressure: 2.0 to 2.5 bars.	
4.4 Must produce particle of size 1-5 micron.	
4.5 Aluminium cabinet painted with epoxy powder.	
4.6 Piston-type electric aspirator that offers high performance and great durability.	
4.7 Protective thermal cut out relay.	
4.8 Air delivery rate app.15 L/min.	
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.	
6 Operating Environment	
6.1 The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6.2 Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
7 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 or TUV approved product certificate.	
7.3 Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.	
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	i
10.1 During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11 Documentation	
11.1 User (Operating) manual in English.	
11.2 Service (Technical / Maintenance) manual in English.	
11.3 List of important spare parts and accessories with their part number and costing.	

217 Examination Lamp

No.	Item Specifications	Fill your Specification
140.	Manufacturer Name:	riii your specificati
-	Model No.:	
	Inductive. Country of Origin:	
	Country or Origin. Description of Function	
	Description or Function Examination light/lamp use in hospital for general examination & minor surgical procedure in wards and in treatment rooms etc.	
	Cognitional requirements	
	Spall operate on mains electric supply.	
	System Configuration	
	Jayacimi coningination: Examination in amp with all standard accessories.	
	Leatinisation rainy with an statution accessiones.	
	Facinity Spurint Technical Spurint Technical Spurint	
	1 recurring specimations. Nobile examination light with sturdy construction and easily moveable.	
	Modelie examination light with sturry construction and easily moveable. Shall have heavy base with 5 swice castors, 2 with brakes. Caster must be medical chemical resistant.	
	Shali nave neavy pase with 5 sweet Sators, 2 with oraces, Laster must be medical chemical resistant. Low centro of eravity for ootings stability and erach.	
	Low Centre of gravity or Optimal Esta Data Training and Teach. Shall have single lamp with 7 LES 221 VIV light to Retter.	
	Shail nave single tamp with 7 LED 12 V 14W light of Better. If this half have file fire more than 20 000 bours of neeration.	
	LEU Stall nave une time more than ZUUUU nours or operation. Fleid-of-view diameter, approximately, 0.15m.	
	Freich-Or-view diameter, approximatery, U.15m. Homogeneous limitination across entire field-of-view, approx. 60.000 lux (at 0.5m).	
	Homogeneous illumination across entire neid-on-view, approx. 50.000 illux (at u.s.m). Colour temperature, approximately 4500K.	
	Loiour temperature, approximatery, 450.0x. Light head mounted on spring loaded articulating arm, height approx.1.60m.	
	Light nead mounted on spring tolated articulating arm, neight approx.Loum. On/off switch incorporated in base or spring tolated articulating arm.	
	Un/or switch incorporated in base or spring loaded articulating arm. Accessories, spares and consumables	
5.1	Accessories: Bit sources of fues:	
	us is spare set or ruses. Bit is spare of ED Lamp.	
5.2	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].	
	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
	Power consumption, approximately: 10W.	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.	
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.	
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	
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	

218	CTG Machine

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
	II Model No.:	
II	Country of Origin:	
	Technical Specifications	

1 Antepartum fetal monitor for Foetal HR and contractions tracking.	
2 Trolley mounted with twin Ultrasound Transducer, Contractions Transducer (TOCO), Patient Event marker and unique clinical event marker with trace annotation, Automatic fetal movement detection	
3 High Resolution thermal printer Alarm facilities	
4 Communication ports (RS232).	
5 Builtin Battery rechargeable	
6 Operating Environment	
6.1 The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
7 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.	
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.	

219 Aneroid sphygmomanometer

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
- 11	Model No.:	
111	Country of Origin:	
1	Description of Function	
1.1	Sphygmomanometer is a device used to measure blood pressure, composed of an inflatable cuff to restrict blood flow, and a mechanical manometer to measure the pressure.	
2	Operational Requirements	
2.1	Aneroid sphygmomanometer having a dial to show clear numbers and pointer / needle for measurement of pressure.	
	System Configuration	
3.1	Aneroid sphygmomanometer	
	Cuffs for child size and for adult size (regular)	
	Inflation bulb	
	Carrying pouch	
4	Technical Specifications	
4.1	Packed in easy carrying high quality pouch made of waterproof cloth to accommodate cuff, and inflation bulb.	
4.2	Gauge to be calibrated in 2 mm Hg units.	
4.3	Must provide blood pressure cuffs for child size and for adult size (regular).	
5	Accessories, spares and consumables	
5.1	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.	
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 Climate, Temperature, Humidity, etc.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007.	
8	User Training	
8.1	Not applicable.	
9	Warranty	
9.1	Warranty for 2 years.	
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	
12.1	User's manual in English	

220 Adult Scale With Tap

Manufacturer Name: Country of Origin:			1
III Model No: III Description of function	No.	ltem Specifications	Fill your Specification
Description of Function			
1. Description of Function 1. Description of Function 1. Description of Function 1. Description of Function 1. Description of Function 1. Description of Function 1. Description of Function 1. Description of Function 1. Description			
1.1 Used for routine height and weight measurements of patients, paediatric to adult. 2. Operational Requirements 3. 1 Unsut be a platform type of weight and height measuring scale on which the patient can stand for measurement of weight and height. 3. 1 Weighing Machine with Height Measuring Scale, Mechanical , paediatric to adult patients, complete unit. 4. Technical Specifications 1. It must measure the weight in kilogram. 1. It must measure the weight in kilogram. 1. It must measure the weight in kilogram. 1. It must measure the height in centimetre. 2. Capacity weights up to 200 By. 3. Garduation: \$100 g, 8. Sass Measurement (platform): 2 330 x 80 x 340 mm. 1. It must be mounted on transport castors with breaks to allow free mobility from one place to other. 3. Required contrast include telescoping measuring rod up to minimum of 200 cm. 3. Accessories, sparse and consumables 4. All standard accessories: Other must include telescoping measuring rod up to minimum of 200 cm. 3. Accessories go, sparse and consumables 4. All standard accessories: Other must include telescoping measuring rod up to minimum of 200 cm. 4. All standard accessories: Other must include telescoping measuring rod up to minimum of 200 cm. 4. All standard accessories: Other must include telescoping measuring rod up to minimum of 200 cm. 4. Capacity under the designed to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. 4. Departing Environment 5. Departing Environment 6. Operating Environment 7. Standards and Safety Requirements 8. Comprehensive warranty for 2 years. 8. Comprehensive warranty for 2 years. 8. Operating Environment warranty of 2 years. 9. Standard warranty conditions are applicable. 9. Standard warranty conditions are applicable. 9. Standard warranty conditions are applicable. 9. Standard warranty conditions are applicable. 9. Standard warranty conditions are applicable. 9. Standard warranty conditions are applicable. 9. Standard warranty conditions are	- II		
2 Operational Requirements 2.1 It must be a platform type of weight and height measuring scale on which the patient can stand for measurement of weight and height. 3.1 Vergining Machine with Height Measuring Scale, Mechanical , paediatric to adult patients, complete unit. 4 Technical Specifications It must measure the weight in kilogram. It must measure the weight in centimetre. Capacity weight: up to 200 kg. Graduation: 1.100 g. Base Measurement (platform): 2-30 x 80 x 340 mm. It must measure the height on centimetre. Required Accessories: Offer must include telescoping measuring rod up to minimum of 200 cm. 8 Accessories: Offer must include telescoping measuring rod up to minimum of 200 cm. 8 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. 6 Operating Environment 7.1 Must submit 150 9001 or 15013485:2003/AC-2007 for Medical Devices AND 7.2 CE or USFDA approved product certificate. 8 Warranty 8.3 Comprehensive warranty for 2 years. 9 Maintenance Service burning Marranty Period 9.1 Standard warranty conditions are applicable. 10.1 The supplier must accomplish proper commissioning of the item onsite.	1		
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7.1 Must submit ISO 9001 or ISO134852003/AC 2007 for Medical Devices AND 7.2 CE or USFDA approved product certificate. 8. Warranty 8. Comprehensive warranty for 2 years. 9 Maintenance Service During Warranty Period 9. Standard warranty conditions are applicable. 9. Is standard warranty conditions are applicable. 10.1 The supplier must accomplish proper commissioning of the item onsite. 11 Documentation	6.1	The product offered shall be designed to be stored and to operate normally under Climate , Temperature , Humidity, etc. for Sudan.	
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8 Warranty 9. Standard warranty for 2 years. 9 Maintenance Service During Warranty Period 9. Standard warranty conditions are applicable. 9. Standard warranty conditions are applicable. 10 Installation and Commissioning 10.1 The supplier must accomplish proper commissioning of the item onsite. 11 Documentation	7.1	Must submit ISO 9001 or ISO13485:2003/AC:2007 for Medical Devices AND	
8.1 Comprehensive warranty for 2 years. 9 Maintenance Service During Warranty Period 9.1 Standard warranty conditions are applicable. 10 Installation and Commissioning 10.1 The supplier must accomplish proper commissioning of the item onsite. 11 Documentation 12 Documentation	7.2	CE or USFDA approved product certificate.	
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9.1 Standard warranty conditions are applicable. 10 Installation and Commissioning 1.0.1 The supplier must accomplish proper commissioning of the item onsite. 11 Documentation	8.1	Comprehensive warranty for 2 years.	
10 Installation and Commissioning 10.1 The supplier must accomplish proper commissioning of the item onsite. 11 Documentation	9	Maintenance Service During Warranty Period	
10 Installation and Commissioning 10.1 The supplier must accomplish proper commissioning of the item onsite. 11 Documentation	9.1	Standard warranty conditions are applicable.	
11 Documentation	10	Installation and Commissioning	
	10.1	The supplier must accomplish proper commissioning of the item onsite.	
11.1 User and/or service manual shall be sunnlied in English	11	Documentation	
	11.1	User and/or service manual shall be supplied in English.	

221 Torch (Diagnostic Penlight)

No. Item Specifications		Fill your Specification
Manufacturer Name:		
II Model No.:		
III Country of Origin:		
1 Technical Specifications		
1.1 LED , Xenon lamp or Better for light.		
1.2 Including 2 batteries type AA.		
1.3 Extremely heavy duty resistant casing.		
1.4 Practical metal clip on handle for attaching the light to the physician's coat.		
2 Accessories, spares and consumables		
2.1 Not applicable,		
3 Operating Environment		
3.1 The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.		
4 Standards and Safety Requirements		
4.1 Must sub mit ISO 9001 or ISO13485:2003/AC:2007 for Medical Devices AND		
4.2 CE or U SFDA approved product certificate.		
5 Warranty		
5.1 Warranty for 2 years after acceptance.		
6 Maintenance Service during Warranty Period		
6.1 Standard warranty conditions are applicable.	·-	
7 Installation and Commissioning	·-	
7.1 Must supply preassembled unit, ready to use		

222 Mercury Sphygmomanometer

No.	Item Specifications	Fill your Specification
	Manufacturer Name:	
ll ll	Model No.:	
111	Country of Origin:	
1	Description of Function	
1.1	Sphygmomanometer is a device used to measure blood pressure, composed of an inflatable cuff to restrict blood flow, and a mechanical manometer to measure the pressure.	
2	Operational Requirements	
2.1	Mercury sphygmomanometer.	
3	System Configuration	
3.1	Sphygmomanometer with adult and paediatric size cuffs.	
4	Technical Specifications	
4.1	300 mm wide tube	
	A	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	
5.1 (including items not specified above).	
6 Operating Environment	
6.1 The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.	
7 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.	
8 User Training	
8.1 Not applicable.	
9 Warranty	
9.1 Comprehensive warranty for 2 years from acceptance.	
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	
12.1 User's manual in English.	

223

No.	Item Specifications	Fill your Specification
NO.	Manufacturer Name:	riii your specification
	wanuacurer warne: Model No.:	
	wouer wo:	
	Country of Origin: Description of Function	
_ ,		
	Automated haematology analyser or complete blood cell counter is used to count various types of blood cells in the blood.	
_ 4	Technical Specifications	
	The Principle should be Flow cytometry and multi-angular laser scattering, Electric impendance method and Colorimetry method	
	Should accept two modes of sampling: Whole blood, pre-diluted blood	
	System should be fully Automatic.	
	Should include 19 reportable parameters	
	Body fluid mode	
	Determination of 18 to 19 parameters, with 3-part differential, for routine haematology.	
	Shall have fully automatic, open system.	
	Sample volume: < 30ul.	
	Throughput: approx. 50 samples per hour, 24h power on, with dormancy and wake function.	
	Determination of: Red blood cell (RBC), White blood cell(WBC), Haemoglobin(HGB), Haematocrit(HCT), Mean cell volume(MCV), Mean cell haemoglobin(MCH), Red cell distribution(RDW-SD and RDW-CV), Platelets(PLT), Platelet distribution(PDW-SD	
	and PDW-CV), Mean platelet volume(MPV), differential leucocytes (LYM, LYM%, MID, MID%, GRA, GRA%).	
	Method: Photometry and impedance technology, cyanide-free colorimetry for haemoglobin counting.	
	Calibration: independent automated calibration and manual calibration for minimum two test modes.	
	Typical counting time: approximately 60 seconds for differential.	
	Shall have with self-test capability.	
	Display: LCD screen.	
	Indication of self-test failures and assistance messages, sample ID, date and time are reported with test results.	
	Supplied complete with dedicated data analysis and data management software.	
	Results are reported on external laser printer.	
	Shall have built-in RS232, USB2.0 or equivalent, for allowing data transfer and network capability via LIS.	
	Shall quote rates for reagents & consumables, calibrators & controls, printer paper, separately and it must be valid for at least 3 years.	
	Data storage capacity Up to 200,000 patient results including all numeric and graphical	
3	Accessories, spares and consumables	
	Reagents for 500- 1000 reaction should be provided with the instrument.	
	Laptop and printer.	
	Suitable on - line UPS (about 2 KVA) is required to support the instrument.	
	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.	
4	Operating Environment	
	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.	
	Power supply: 220-240V/50 Hz AC Single phase with appropriate plug .The power cable must be minimum 3 Meter	
5	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate	
	Must comply with IEC 61010 Safety requirements for electrical equipment for measurement, control, and laboratory use	
6	User Training	
	Must provide user training (including how to use and maintain the equipment).	
7	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
8	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
9	Installation and Commissioning	
	Supplier must accomplish proper installation and commissionine of the equipment on site.	
10	Documentation	
	User (Operatine) manual in Enelish	
_	Ose (Specially, Carlotte) Service (Technical/Maintenance) manual in English	
_	Ust of important spare parts and accessories with their part numbers and costing.	
	The state of the s	

224 Fully Automated Haematology Analyser (3 Parts Differential)

No.	Item Specifications	Fill your Specification
No.	Manufacturer Name:	Fill your Specification
H		
	Model No.:	
- 11	Country of Origin:	
-	Description of Function	
-	Automated haematology analyser or complete blood cell counter is used to count various types of blood cells in the blood.	
-	Operational Requirements	
_	Fully automated 3 parts differential haematology analyser.	
-	System Configuration	
-	Fully Automated Haematology Analyser, complete unit with all standard reagents, consumables and accessories.	
-	Technical Specifications	
-	Determination of 18 to 19 parameters, with 3-part differential, for routine haematology.	
-	Shall have fully automatic, open system.	
_	Sample volume: < 30ul.	
	Throughput: approx. 50 samples per hour, 24h power on, with dormancy and wake function.	
	Determination of: Red blood cell (RBC), White blood cell(WBC), Haemoglobin(HGB), Haematocrit(HCT), Mean cell volume(MCV), Mean cell haemoglobin(MCH), Red cell distribution(RDW-SD and RDW-CV), Platelets(PLT), Platelet distribution(PDW-SD	
—	and PDW-CV), Mean platelet volume(MPV), differential leucocytes (LYM, LYM%, MID, MID%, GRA, GRA%).	
—	Method: Photometry and impedance technology, cyanide-free colorimetry for haemoglobin counting.	
<u> </u>	Calibration: independent automated calibration and manual calibration for minimum two test modes.	
	Typical counting time: approximately 60 seconds for differential.	
	Shall have with self-test capability.	
	Display: LCD screen.	
	Indication of self-test failures and assistance messages, sample ID, date and time are reported with test results.	
	Supplied complete with dedicated data analysis and data management software.	
	Results are reported on external laser printer.	
	Shall have built-in RS232, USB2.0 or equivalent, for allowing data transfer and network capability via LIS.	
	On board memory for about 100-150 tests records.	
	Shall quote rates for reagents & consumables, calibrators & controls, printer paper, separately and it	
	must be valid for at least 3 years.	
	Accessories, spares and consumables	
	Reagents & consumables, calibrators & controls, printer paper to be supplied for 1000 samples.	
	Shall provide compatible laser printer, 1 no.	
	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).	
	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 Power Supply, Climate, Temperature, Humidity, etc.	
	Power supply: 220-240VAC, 50Hz fitted with appropriate plug type D (3 pins). The power cable must be minimum 3 meters long.	
	Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up for the entire system including computer and printer shall be supplied with the system.	
	Standards and Safety Requirements	
	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) or USFDA approved product certificate.	
	Shall meet IEC 61010-2-081 safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes.	
	User Training	
	Must provide user training (including how to use and maintain the equipment).	
	Warranty	
	Comprehensive warranty for 2 years after acceptance.	
	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown	
	maintenance whenever required.	
	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.	

Documentation	
User (Operating) manual in English.	
Service (Technical / Maintenance) manual in English.	
list of important space parts and accessories with their part numbers and costing	I