1 Laparoscopy Tower

	Laparoscopy Tower			
No.	Specification	Technical data	Qty.	Fill Your Specifications
	Monitor icreen diagonal	At least 55	1	
	Contrastratio	5000:01:00		
	Resolution and aspect ratio prightness	3840x2160 pixels or more 500cd/m^2		
Α	angel of view	178 V/H		
	fideo input	2x DVI, 1x 3G-SDI, 1x VGA, 1x S-Video, 1x Composite 1x DVI, 1x 3G-SDI, 1xComposite, including: 1x External 24 VDC - Power Supply 1x Mains Cord 1x		
\perp	fideo out put	Cable Cover 4x Mounting Screws M4		
F	Power supply Power consumption	internal 280-290 w		
P	Power supply /frequency	100-240 VAC. 50/60Hz		
	Monitor Assistant: icreen diagonal	At least 30	1	
	Contrast ratio	1000:01:00		
	Resolution and aspect ratio orightness	3840x2160 pixels 500cd/m^2		
	Ingitatiess Ingel of view	178 V/H		
	/ideo input	1xdisplayport.1x12G-SD1.1X2x DVI, 1x 3G-SDI, 1x VGA, 1x S-Video, 1x Composite 11x DVI, 1x 3G-SDI, 1xComposite, including: 1x External 24 VDC - Power Supply 1x Mains Cord 1x		
	/ideo out put	Cable Cover 4x Mounting Screws M4		
	Power supply Power consumption	internal 280-290 w		
	supply /frequency	100-240 VAC. 50/60Hz		
3 C	Camera Head:	m attack	1	
	ens Veight	Fixed focus Maximum 210g		
s	ensor	3chip		
	able length able routing	300cm angled Operation (camera head buttons)		
	ength	300cm		
c	leaning	Sterilization and storage head camera's suitable for use with steam gas and hydrogen peroxide		
P	Plastic container storage head camera	· · · · · · · · · · · · · · · · · · ·		
9	suitable for use with steam gas and hydrogen proxide Camera Controller		1	
C	Camera	At least 2 camera input		
T	ype of control	Touch screen OR manual via membrane key board mouse and camera head button		
	Max video signal resolution	4096x2160 pixies' 110-240vac 50/60HZ		
п	nemory	Internal memory of more than 50 GB and internal storage medium USB		
	srightness control	Automatic shutter control + Automatic gain control	1	
li	amp	LED		
	ife time of LED	At least 60.000 h		-
	ight output OWER	300W 110-240vac 50/60HZ		
	Color light	6500K	_	
	CO2 Insufflators: apacity	40 liter	2	
P	Power supply	100-240VAC,50/60Hz		
1	nsufflations tube	Inner diameter 9mm, length 250cm or up Sterilizable reusable		
	Sas filter ,sterile	Sterilizable reusable 25 per pack or more		
N	Max gas flow	50 or up		-
	dose length tigh pressure in line gas filter	200cm		
7 C	Diathermy:		1	
li e	t shall operate on AC power supply in the operating theatre. Provides all functions with improved properties for diverse applications			
1	8 unipolar and bipolar cutting modes such as for example bipolar resection			
2	15 unipolar and bipolar coagulation modes such as and the Bivascularsafemode			
0	ystem Configurations: Diathermy Machine (Electrosurgical unit) 400w with complete accessories.			
1	Diathermy can be used in practically all surgical disciplines:			
1	leurosurgery "laparoscopy" Gynecology" urology " spine surgery 'echnical Specifications:			
S	olid-state/microprocessor-controlled frequency generator.			
	Monopolar and bipolar outputs, electrically isolated from ground. iigh resolution color touch display.			
N	Monopolar modes include pure cut, blend, and coagulate (soft, contact and spray).			
E	Sipolar mode includes coagulate and cut mode. Generator creates automatic program configuration			
N	Maximum unipolar and bipolar power400w			
В	Sipolar resection in saline. Hand switch mode when button-activated probes are connected.		_	-
	oot switch that can operate in monopolar and bipolar modes.			
Y	ellow buttons/pedals for cut and blue buttons/pedals for coagulate.			
	Grounding pad/return electrode monitored for patient connection. Front panel allows mode selection, power settings and on/off.			
1	Display shows output power, system errors and electrode failure.			
	utomatic shut off/generator deactivation on grounding pad/return electrode connection failure. udible and visual indicators of activation and alarms.			
S	elf-test mode.			
	Protection against defibrillator discharges. The unit shall come with troller well designed to fit the generator with drawers for keeping the accessories.			
	The unit shall come with trolley well designed to fit the generator with drawers for keeping the accessories Accessories, Spare Parts and Consumables			
	WI standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer			
	x Foot switch, two pedals, yellow and blue, with connecting cable. x Grounding pad/return electrodes, reusable, with 3m connecting cable (adult & child).			
2	x Monopolar electrode handle, reusable, foot switch controlled, with connecting cable.			-
1	x Monopolar electrode handle, reusable, finger switch controlled, with connecting cable. 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).			
	x Bipolar forceps, reusable, foot switch controlled, with connecting cable (long, straight, tip-angled). rrigation:		1	
F	luid Management System.			
	nterdisciplinary single roller pump for irrigation or suction with TFT (Thin Film Transistor) touch screen. Modular design can support basic functionalities across various fields of application.			
	Pump can be equipped with various software modules for multiple disciplines such as Lap, Hysteroscopy, Urology, Arthro and Spine.			
	rump can be equipped with various software modules for multiple disciplines such as Lap, Hysteroscopy, Urology, Arthro and Spine. Tubing set recognition, color coded tubing sets for clear identification One hand installation of cassette Cartridge locking lever.			
H	HYS Irrigation pressure: 20 to 150 mmHg.			
H	tYS Irrigation flow rate: 200 to 600 ml/min. Jrology Software License, for cystoscopy, resection, URS and PCNL.			
Α	dvanced Software license for extended functions of installed software.			
T	ubing Set, Irrigation, PC, sterile, for reusable use, package of 10. ROLLEY:		-	
0	Dimension cart (W x H x D)	At least 830 x 1474 x 730mm	1	
0	Dimension shelf (WxHxD)	At least630x25x510		
	vheels Irowse	Dual/lock break 4 or more		
l N	Monitor position	With 2arm		
	hould have premium electrics hould have hold camera			
9 L	aparoscopic Instruments Set for General Surgery:			
Ţ	elescope 30,englared ,diameter 10mm,length 31cm, autoclavable elescope 0,diameter10mm autoclavable		1	
H T	elescope 0,diameter10mm autoclavable relescope 30, diameter 5.3mm autoclavable			
P	Plastic Container, for Sterilization, suitable for steam, gas		1	
1 17	rocar, size 11 mm		2	
T	rocar, size 6 mm		6	
T T	Tocar, size 6 mm rocar, size 5.5 mm Reducer, 11/5 mm		3	

VERESS Pneumoperitoneum Needle, with spring-loaded blunt inner cannula, LUER-Lock, autoclavable, diameter 2.1 mm, length 13 cm	2
Grasping Forceps, atraumatic, wavy, double action jaws, size 5 mm, length 36 cm C Forceps Insert, Dissecting and Grasping Forceps, double action jaws, size 5 mm, length 36 cm	1
Forceps Insert, Dissecting and Grasping Forceps, double action jaws, size 5 mm, length 18 cm Forceps Insert Dissecting and Grasping Forceps, double action jaws, size 5 mm, length 24 cm	1
Forceps Insert Dissecting and Grasping Forceps heavy, double action jaws, size 5 mm, length 36 cm	1
Forceps Insert, Dissecting and Grasping Forceps heavy, double action jaws, size 5 mm, length 18cm Forceps Insert Dissecting and Grasping Forceps heavy, double action jaws, size 5 mm, length 24 cm	1
Forceps Insert, for grasping forceps, fenestrated, with fine atraumatic serration, single action jaws, size 5 mm, length 36 cm Forceps Insert, for grasping forceps, fenestrated, with fine atraumatic serration, single action jaws, size 5 mm, length 18 cm	1
Forceps Insert, for grasping forceps, fenestrated, with fine atraumatic serration, single action jaws, size 5 mm, length 24 cm	1
Scissors Insert, for scissors, double action jaws, serrated jaws, spoon-shaped, size 5 mm, length 36 cm. Forceps Insert, Claw Forceps, 2 x 3 teeth, single action jaws, size 10 mm, length 36 cm	1
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	5
Plastic Handle, without ratchet, with larger contact area at the finger ring, with connector pin for unipolar coagulation Plastic Handle, with hemostat style ratchet, with larger contact area at the finger ring, with connector pin for unipolar coagulation	1
Metal Handle, with hemostat style ratchet	1
Clip Applicator, dismantling, rotating, with ratchet to lock the jaw part holding the clip, size 10 mm, length 36 cm, consisting of: 30444 H Metal Handle, with ratchet 30444 A Metal Outer Tube 30440 LR Insert, for use with Pilling-Weck Titanium-Clips 30460 AL (medium large)	1
Pilling-Weck Titanium-Clips, medium-large, box with 16 sterile cartridges, 10 clips each, for use with applicators 30443 LR, 30444 LR and 26060 LR Injection Needle, LUER-lock, diameter 1.2 mm, size 5 mm, length 36 cm	1
Coagulating and Dissecting Electrode, with channel, L-shaped size 5 mm, length 36 cm, for use with suction and irrigation handles	1
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
Knot Tier, size 5 mm, length 36 cm, for extracorporeal knotting BERCI Fascial Closure Instrument, for subcutaneous ligature of trocar incisions, size 2.8 mm, length 17 cm	1
Endo-Loop Ligature, with ROEDER knot, for bleeding stumps, with absorbable synthetic suture, for single use, sterile, USP 0, size 3 mm,	1
length 33 cm, package of 12 Needle Holder, with tungsten carbide insert, ergonomic pistol handle with disengageable ratchet, ratchet position left, jaws curved to	1
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 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	1
Unipolar High Frequency Cord, with 8 mm plug, length 300 cm, for use 400 300/400 Laparoscopsic spatula electrode	1
Laparoscopsic spatula hook Trocar conical tip	 1
Guide rod 5mm	1
Frocar sleeve 5,5mm self retaining Atraumatic grasping forceps 5mm	1
Mayland dissector 5mm Grasping and dissection forceps 5 mm	1
Bowel graspers	2
Stomach graspers Asyhe forceps, 5mm and 10mm	2
Dissection spatula for tissue cogulation	 2
Plastic Container, for sterilization and storage. With seperated rack for storage of up to 12 instruments with diameter 2,5 to 10 mmand seperated insert tray for up to 6trocars. Perforated, with transparent lid. external dimensions (w x d x h): 532 x 254 x 165 mm	1
Pediatric Laparoscopic Instruments Set: Straight Forward Telescope 0°, enlarged view, diameter 5 mm, length 24cm, autoclavable, fiberoptic light transmission incorporated,	3
color code: green Straight Forward Telescope 30°, enlarged view, diameter 5 mm, length 24cm, autoclavable, fiberoptic light transmission incorporated,	
color code: green Plastic Container, for Sterilization	3
straight Forward Telescope 0°, enlarged view, diameter 5 mm, length 28cm, autoclavable, fiberoptic light transmission incorporated,	3
color code: green Straight Forward Telescope 30°, enlarged view, diameter 5 mm, length 28cm, autoclavable, fiberoptic light transmission incorporated,	3
color code: green	3
VERESS Pneumoperitoneum Needle, with spring-loaded blunt inner cannula, LUER-Lock, autoclavable, diameter 2.1 mm, length 10 cm Trocar, size 3.5 mm	9
Trocar, size 6 mm	9
Grasping Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, double action jaws, atraumatic, fenestrated, size 3.5 mm, length 20 cm, consisting of: 33152 Plastic Handle, with style ratchet,	6
with larger contact area 31100 Outer Sheath 31110 A Forceps Insert (Grasping Forceps, rotating, dismantling, insulated, with connector for cleaning, double action jaws, atraumatic, fenestrated, size 3.5 mm, length 28 cm, consisting of: 33152 Plastic Handle, with style ratchet,	6
with larger contact area 31100 Outer Sheath 31110 A Forceps Insert Ord Grasper, 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, with non tooth	4
Bowel Grasper, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for	4
cleaning, double action jaws, size 3.5 mm, length 20 cm, with tooth Dissecting and Grasping Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation	4
connector for cleaning, double action jaws, size 3.5 mm, length 20 cm 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 28 cm	4
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	4
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 28 cm	4
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	4
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 28 cm	4
cissors, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER- Lock irrigation connector for cleaning,	4
double action jaws, serrated, curved, conical, size 3.5 mm, length 20 cm cissors, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning,	4
double action jaws, serrated, curved, conical, size 3.5 mm, length 28 cm Dissecting Electrode, L-shaped, size 3 mm, length 20 cm	 4
Dissecting Electrode, L-shaped, size 3 mm, length 28cm Palpation Probe, with cm-marking, size 3.5 mm, length 20 cm	4
alpation Probe, with cm-marking, size 3.5 mm, length 28 cm	4
Ultramicro Needle Holder, straight handle with ratchet, length 20 cm Needle Holder, straight handle with ratchet, length 28 cm	4
Needle Holder, with tungsten carbide insert, straight handle with disengageable ratchet, jaws curved to left, size 3 mm, length 20 cm	4
Weedle Holder, with tungsten carbide insert, straight handle with disengageable ratchet, jaws curved to left, size 3 mm, length 28 cm	4
Suction and Irrigation Tube, size 3 mm, length 20 cm	 4
ouction and Irrigation Tube, size 3 mm, length 28 cm (wo-way stopcock, for suction and irrigation, for use with cannulas 26167 LH/LHS/LHL	4
connector pin for bipolar coagulation, curved blades, double action jaws, size 3.5 mm, length 20 cm	2
onnector pin for bipolar coagulation, curved blades, double action jaws, size 3.5 mm, length 28 cm Grasping Forceps, connector pin for bipolar coagulation, with especially fine atraumatic serration, fenestrated, double action jaws, size	2
 S. mm, length 20 cm Srasping Forceps, connector pin for bipolar coagulation, with especially fine atraumatic serration, fenestrated, double action jaws, size S. mm, length 28 cm 	2
Jnipolar High Frequency Cord, with 8 mm plug, length 300 cm, for use with II 400 SCB series (112, 116)300/400	2
Sipolar High Frequency Cord, length 300 cm, pin distance on the unit side 28.58 mm	2
Plastic Container, for sterilization and storage. With seperated rack for storage of up to 12 instruments with diameter 2,5 to 10 mmand seperated insert tray for up to6trocars. Perforated, with transparent lid. external dimensions (w x d x h): 532 x 254 x 165 mm	2
SUPPLEMENTARY SET FOR PYLORIC STENOSIS	
ALAIN-GROUSSEAU Pylorotome, distendable, size 3 mm, length 20 cm Pyloric Knife, with LUER-Lock connector for cleaning, size 3 mm, length 10 cm, consisting of: 26167 KS Handle, with outer sheath 26167	2
KRS Knife Insert, for reus eable, unsterile, package of 10 Percutaneous Pyloric Spreader, rotating, dismantling, without connector pin for unipolar coagulation, with LUER-Lock irrigation	4
connector for cleaning, duble action jaws, size 3.5 mm, length 20 cm, consisting of: 33161 Metal Handle, without ratchet, with larger	2
contact area 31100 M Metal Outer Sheath 31110 PS Forceps Insert	
Pyloric Grasper, rotating, without connector pin for unipolar coagulation, with irrigation connector for cleaning, for percutaneous use,	2
Pyloric Grasper, rotating, without connector pin for unipolar coagulation, with irrigation connector for cleaning, for percutaneous use, double action jaws, size 3 mm, length 20 cm, consisting of: 33161 Metal Handle, without ratchet, with larger contact area 30310 PS Outer Sheath, with working insert Clip applicator 20cm Clip applicator 20cm	4

Transport				
Thems 1 The Control of Control o		<u> </u>	10	
Thems 1 The Control of Control o	Three of color clips (yellow/green/blue)		3	
Section 5 Section Se	Trocars 3		6	
Theses 18 Company of the Company of		1		
Benchmarkery (Control of the Name of State Application Association Recentifications assistance and a few accommon of the Application Association Recentifications assistance and a few accommon of the Application Association (Application Association)	Indias 5			
Supplied to extractionary of American Company	Trocars 10		4	
Transcription of the common and th				
Transcription of the common and th	StraightForwardTelescope0*, diameter5.5mm, length50cm, autoclayable, fiberoptic lighttransmission incorporated	- - - - - - - - -		
Universe with formation concept. Journal of control work of the Control of Co	Sorgard Obligate Telegraps 20° diameters. Emm. Joneth F.Orm. author) and blight from the first inninger partial Coloredge and	1	\vdash	
	rorwardobilque relescopeso, diameters.smin,lengtisocin,autociavable.riberopticingnitransmissionincorporated.colorcode.red		-	
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University and consciousness, and a "A section in more 12 and my part of Section (was interested and section and s	10318LFiberOpticLightCarrier			
Statistics of contingent contents Security (1985) Security (+	-	
Journal Polision Concessor, and S. American Secretary Secretary Concessors (S. American Secretary Secretary Concessors) Injury Concessors (S. American Secretary Secretary Concessors)	UniversalBronchoscope,size7.5,outerdiameter10.2mm,innerdiameter9.5mm,length43cm,consistingof:10318CUniversalBronchoscope1	·		
Journal Polision Concessor, and S. American Secretary Secretary Concessors (S. American Secretary Secretary Concessors) Injury Concessors (S. American Secretary Secretary Concessors)	0318LFiberOpticLightCarrier	·		
18.6. The Original Content of C	Universal Breachers can a size 5 autordia meter 9 2mm inperdiameter 9 5mm length 42cm consisting of 10219 Disjunct all Propositions 10			
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Supplies Springers Company It Springers Company It Springers springers Company It Springers springers Company It Springers springers Company It Springers springers See I was springers	Adaptor, with sliding glass window plug, sealing cap, not chedlens and keyhole opening	·		
Copyright of Part Part Standard Standard Control of Part Standard Standar	Ligateuro Surtom:		2	
Generate special resident and seal that palling with injurture betrokings Consequent Squitter Square (Consequent Square	Ligature system.	4	- 2	
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Command Significe registed. Control to Significe registed. Seed 1 will emblasted by the control system of the state of t	Generator specialized in vessel sealing with Ligature technology	·		
Used for seen and improvement processors procedures Seek section for the including Prints in register to the including Seek Seek Seek Seek Seek Seek Seek See	Compact & light weight	1	-	
Seat season as to an entireliability from, Impublistic, pulmonary variabilities and filling (PO) - Resulting required, the increasing feed in policy price of the control special policy of the policy of the control special policy of the contr	- Compact & right weight	<u> </u>	-	
Seat season as to an entireliability from, Impublistic, pulmonary variabilities and filling (PO) - Resulting required, the increasing feed in policy price of the control special policy of the policy of the control special policy of the contr	Used for open and la paroscopic procedures	·		
Set all withstends to the normal systems (body descuers A set all withstends to the normal systems (body descuers) Solitique to be 2 to 4 sectods on exerge Moment themse larger does were without the set of	Seals vessels up to and including 7mm, lymphatic, nulmonary vasculature and tissue hundles			
Automatic instrument recognises by Ratio Proposency Generalization (RTD) No. Extriting expenses force must automatic straight for glatima proper unique large distinguishment No. Extriting expenses for extrain automatic straight for glatima proper unique large distinguishment No. Extriting expenses for exclusive and straight for glatima proper into the target of issue No. Include a straight for the straight for glatima in the straight force is greatly and into the straight of issue is straight for glatima and into straight for glatima into straight for gl	Sens research to the increasing rinni, rimpharte, parmonary researched in tissue buriets		₩	
Resemble geographic doctors must submarked by adjust the organism power output according to connected instrument Excluding from the 1/2 but Section from section sect	Seal will withstand 3x the normal systolic blood pressure	·		
Resemble geographic doctors must submarked by adjust the organism power output according to connected instrument Excluding from the 1/2 but Section from section sect	- Automatic instrument recognition by Radio Frequency Identification (RFID)	1		
Sealing time to be 2 for seconds on everyge Minion themsel year to surprisingly tower, resident interest tower		+	-	
Month formul spread to surrounding tissues, resulting his stanger, This set for the surges shows and so long his appropriate energy to the targeted tissue. These signal to derit the surges when seed is completed. The signal to derit the surges when seed is completed. The surgest to derit the surges when seed is completed. The surgest to derit the surges when seed is completed. The surgest to derit the surges when seed is completed. The surgest to derit the surges when seed is completed and surgest to derive the surge	ואט אבינוווין ובין ווויפים; מפעוכי must automatically adjust for optimum power output according to connected instrument			l
Month formul spread to surrounding tissues, resulting his stanger, This set for the surges shows and so long his appropriate energy to the targeted tissue. These signal to derit the surges when seed is completed. The signal to derit the surges when seed is completed. The surgest to derit the surges when seed is completed. The surgest to derit the surges when seed is completed. The surgest to derit the surges when seed is completed. The surgest to derit the surges when seed is completed and surgest to derive the surge	Sealing time to be 2 to 4 seconds on average	1	1 -	
Thouse for Plans sensing sectionage of 2-00000 times per second to apply the appropriate energy to the tragened toqual Expression of the company of the com	Minimal thormal caread to currounding tierune, reculting in loss damage	1	$\overline{}$	
Easy refuser upgrades These gains to set to suppose when seal's completed. These gains to set the suppose when seal's completed. The seal part to set the suppose when seal's completed. The seal part to seal the seal part to se		4	\vdash	-
Easy refuser upgrades These gains to set to suppose when seal's completed. These gains to set the suppose when seal's completed. The seal part to set the suppose when seal's completed. The seal part to seal the seal part to se	Tissue Fect Plus sensing technology of ≥ 20,000 times per second to apply the appropriate energy to the targeted tissue	'	ı	
Toes upped to alert the surges on when each is completed so. Seports wide * range of lightum intrinsment to your surgery spillations and lips recognic surgery Seports wide * range of lightum intrinsment to your surgery spillations and lips recognic surgery Footback to the spirlation of the spirla	- Easy software upgrade			
Separate white range of Eigentrum instruments for open rungery application and playancegor surgery	To a simulate a manufactural to a malated	1	 	1
Instruments must have built is knot for controp, there reading without change of instrument Instruments must have built is knot for for controp, the reading without change of instrument Instruments must have built is knot for controp, the reading without the form of the control of the contr		<u> </u>	Ь—	
Instruments must have built is knot for controp, there reading without change of instrument Instruments must have built is knot for for controp, the reading without change of instrument Instruments must have built is knot for controp, the reading without the form of the control of the contr	Supports wide range of Ligature instruments for open surgery application and laparoscopic surgery	1	1 -	
Instruments must be operate and both by hand switch and bothwitch forebounds Cort length at least 4 meters. For a activation of seed sealing function Mounting Get Throllogy Cort classified and seed sealing function Cort classified and sealing function Cort classified and sealing functions 2 3 Integrated cutting mechanism 2 3 Integrated cutting mechanism Cort classified and sealing functions 1 4 Integrated cutting mechanism Cort classified and sealing functions Integrated cutting mechanism Integrated cutting grade and shut dissection Integrated cutting grade part of but dissection Integrated cutting grade part of but dissection Integrated cutting grade part of but dissection Integrated cutting grade grade of but dissection Integrated cutting grade grade part but dissection Integrated cutting grade part of but dissection Integrated cutting grade grade part but dissection Integrated cutting grade grade function Integrated cutting grade grade but dissection Integrated cutting grade grade but dissection Integrated cutting grade	Instruments must have built in knife for cutting after soaling without change of instrument	1	$\overline{}$	
Footbaseful water proof Footbaseful water pro	macramenta mast nave ount-in knile for cutting after searing, without change of instrument	<u> </u>	⊢	-
Footbaseful water proof Footbaseful water pro	Instruments must be operated both by hand switch and footswitch	'	ı	
Footswitch water groof Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Cool seight last statemen. Last			1	
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Cord relegant at least 4 meters. For arbitation of seast scaling function Neeming, for fifty Neeming, for fifty Supplied with cord management bit Supplied with cord management bit Hinder the control of the contr		<u> </u>		
For activation of viscel a sailed function			1 -	
Mounting Cert Profesy Set position Set		1	-	
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Rest resistant Conductive saters I locking 2 ron-locking Conductive saters I locking a ron-locking Conductive saters I locking a ron-locking Conductive saters I locking mechanism Conductive saters I locking mec	Mounting Cart (Trolley)	1	1	
Conductive caters (2 locking. 2 non-locking) Sopiled with cord man agement that 1 Homorboid & Thyroid Instrument 1 Hindor for Catevishion 1 Soate (2 locking) Soate (3 locking) Soate (4 locking		 		
Sopplied with cord man agement kit		4	⊢	-
Namod rolls carevation	Conductive casters (2 locking, 2 non-locking)	·		
Namod rolls carevation	Supplied with cord management kit			
Handor foo activation Integrated culting mechanism Integrated culting mech	Supplied with Cold management Ait	4	-	
Integrated cutting mechanism			2	
Integrated cutting mechanism	Hand or foot activation	·		
Sale of visioner	Interested within management	+	-	
16.5 mm seal length				
1.4.7 mic cut length	· Sealer / divider	·		
1.4.7 mic cut length	16 F mm coal length			
Curved jaw (28 degrees)		4	\vdash	
General Surgery Instrument	14.7 mm cut length		Ш_	
General Surgery Instrument	· Curved law (28 degrees)	·		
Mand or foot activation	Count for many for the many	+	-	
Sealer / divider				
Sasily rotatable	Hand or foot activation	·		
Sasily rotatable				
Easily rotatable			_	
18 cm shaft length	- Sealer/divider	·		
18 cm shaft length	Easily rotatable	1		
Curved jaw Laparoscopic Instrument (Blunt Tip)		 	_	
Laparoscopic Instrument (Blunt Tip)	18 cm snaπ length			
Laparoscopic Instrument (Blunt Tip)	· Curved jaw	·		
Hand or foot activation		 	-1	
Integrated cutting mechanism Sealer / divider Sam diameter 37 cm shaft length 20 cm shaft length 21 cm shaft length 22 cm shaft length 23 cm shaft length 24 cm shaft length 25 cm shaft length 26 cm shaft length 27 cm shaft length 28 cm shaft length 28 cm shaft length 38 cm shaft length 48 cm shaft length 49 cm shaft length 40 cm shaft length 40 cm shaft length 40 cm shaft length 40 cm shaft length 41 cm shaft length 42 cm shaft length 43 cm shaft length 44 cm shaft length 45 cm shaft length 46 cm shaft length 47 cm shaft length 48 cm shaft length 49 cm shaft length 40 cm shaft length 40 cm shaft length 41 cm shaft length 43 cm shaft length 44 cm shaft length 45 cm shaft length 46 cm shaft length 47 cm shaft length 48 cm shaft length 49 cm shaft length 40 cm shaft length 40 cm shaft length 41 cm shaft length 42 cm shaft length 43 cm shaft length 44 cm shaft length 45 cm shaft length 46 cm shaft length 47 cm shaft length 48 cm shaft length 49 cm shaft length 40 cm shaft length 40 cm shaft length 41 cm shaft length 42 cm shaft length 43 cm shaft length 44 cm shaft length 45 cm shaft length 46 cm shaft length 47 cm shaft length 48 cm shaft length 49 cm shaft length 40 cm shaft length 40 cm shaft length 41 cm shaft length 42 cm shaft length 43 cm shaft length 44 cm shaft length 45 cm shaft length 46 cm shaft length 47 cm shaft length 48 cm shaft length 49 cm shaft length 40 c		4		
Sealer / divider	Hand or foot activation	·		
Sealer / divider				
Smm diameter	Integrated cutting mechanism			
3 7 cm shaft length 20 cm shaft length 28 cm shaft length 28 cm shaft length 48 stally cratable 8 littratable 8 littratable 9 littratable 9 littratable 9 littratable 10 littratable 11 littratable 12 littratable 13 littratable 14 littratable 15 littratable 16 littratable 16 littratable 17 littratable 18 littratable 18 littratable 18 littratable 18 littratable 19 littratable 19 littratable 19 littratable 10 littratable 11 littratable 12 littratable 13 littratable 14 littratable 15 littratable 16 littratable 16 littratable 17 littratable 18 littratable 18 littratable 19 littratable 10 littratable 10 littratable 10 littratable 10 littratable 10 littratable 11 littratable 11 littratable 12 littratable 12 littratable 13 littratable 14 littratable 15 littratable 16 littratable 17 littratable 18 littratable 18 littratable 18 littratable 18 littratable 19 littratable 10 littratable 11 littratable 12 littratable 12 littratable 12 littratable 13 littratable 14 littratable 15 littratable 16 littratable 16 littratable 17 littratable 18 li	· Integrated cutting mechanism	+		
28 cm shaft length Easily rotatable Blunt jaw Blunt jaw A traumatic grasping and blunt dissection Non-stick nano coating on the jaws Many Jand 2 size (adult-pediatric) Lapracopoli Instrument	· Sealer/divider			
28 cm shaft length Easily rotatable Blunt jaw Blunt jaw A traumatic grasping and blunt dissection Non-stick nano coating on the jaws Many Jand 2 size (adult-pediatric) Lapracopoli Instrument	· Sealer/divider			
28 cm shaft length Blunt jaw At raumatic grasping and blunt dissection Non-stick nan ocating on the jaws Mary land 25 ize (adult – pediatric) Laparoscopic Instrument Mary land 25 ize (adult – pediatric) Laparoscopic Instrument Mary land 25 ize (adult – pediatric) Laparoscopic Instrument Mary land 25 ize (adult – pediatric) 1 caparoscopic Instrument Mary land 25 ize (adult – pediatric) 2 caparoscopic Instrument Mary land 27 ize (adult – pediatric) 3 caparoscopic Instrument 4 caparoscopic Instrument 5 caparoscopic Instrument 5 caparoscopic Instrument 5 caparoscopic Instrument 5 caparoscopic Instrument 6 caparoscopic Instrument 7 caparoscopic Instrument 8 caparoscopic Instrument 8 caparoscopic Instrument 9 caparoscopic Instrument 1 caparoscopic I	Sealer / divider 5mm diameter			
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Easily rotatable	Sealer / divider Smm diameter 37 cm shaft length			
State Stat	Sealer/divider Smm diameter 37 cm shaft length 20 cm shaft length			
A traumatic grasping and blunt dissection Mon-stick nano coating on the jaws Many land 2 size (adult -pediatric) Lagrange of the structure	Sealer / divider 5 mm dia meter 3 rcm shaft length 20 cm shaft length 22 cm shaft length			
A traumatic grasping and blunt dissection Mon-stick nano coating on the jaws Many land 2 size (adult -pediatric) Lagrange of the structure	Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easily rotatable			
Nonstick nano coating on the jaws	Sealer / divider 5 mm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easily rotatable Blunt jaw			
Mary land 2 size (adult-pediatric)	Sealer / divider 5 mm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easily rotatable Blunt jaw			
Laparoscopic Instrument	Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easily rotatable Blunt jaw Atraumatic grasping and blunt dissection			
Laparoscopic Instrument	Sealer / divider 5 mm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length 6 as illy rotatable Blunt jaw A traumatic grasping and blunt dissection Non-stick nan coacting on the jaws			
Maryand	Sealer / divider 5 mm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length 6 as illy rotatable Blunt jaw A traumatic grasping and blunt dissection Non-stick nan coacting on the jaws			
Hand or foot activation	Sealer / divider 3m diameter 37 m shaft length 20 cm shaft length 28 cm shaft length Easily rotatable Blut jaw Atraumatic grasping and blunt dissection Non-tick nan ocoating on the jaws Mary Ind 25 siz (dolft—pediatric)		2	
Hand or foot activation	Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easilyrotatable Blunt jaw A traumatic grasping and blunt dissection Non-stick nano coating on the jaws Many Jand 2 size (adult-pediatric) Laparoscopic Instrument		2	
Integrated cutting mechanism	Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easilyrotatable Blunt jaw A traumatic grasping and blunt dissection Non-stick nano coating on the jaws Many Jand 2 size (adult-pediatric) Laparoscopic Instrument		2	
Sealer / divider	Sealer / divider 3m diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easily rotatable Blunt jaw Atraumatic grasping and blunt dissection Non-stick nan ocoating on the jaws Mary Ind 2 size (adult – pediatric) Laparoscopic Instrument (Mory Lond)		2	
Sealer / divider	Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easily rotatable Blunt jaw At raumatic graping and blunt dissection Mon-stick nano coating on the jaws Many land 2 size (adut-pediatric) Laparoxopic Instrument (Monty and) Hand or hota activation		2	
Smm diameter	Sealer / divider 3m diameter 37 m shaft length 20 m shaft length 28 m shaft length Easily rotatable Blunt jaw Atraumatic grasping and blunt dissection Non-stick nan ocoating on the jaws Mary land 2 size (adult—pediatric) Laparoscopic Instrument (MoryLand) Hand or foot activation Integrated cutting mechanism		2	
37 cm shaft length 28 cm shaft length 28 cm shaft length 28 cm shaft length 58 silly rotatable Maryland ja w At raumatic graping and blunt dissection Non-stick nan o coating on the ja ws Perki CSE works relactors Jolis for thyroid and Hernia Ugatsure hondies Small jaw 2 (straight - curved) 1 care (straight - curved) 2 curved large 2 size 2 curved large 2 size 3 Blunt tip Laparsocopic 2	Sealer / divider 3m diameter 37 m shaft length 20 m shaft length 28 m shaft length Easily rotatable Blunt jaw Atraumatic grasping and blunt dissection Non-stick nan ocoating on the jaws Mary land 2 size (adult—pediatric) Laparoscopic Instrument (MoryLand) Hand or foot activation Integrated cutting mechanism		2	
20 cm shaft length 28 cm shaft length 5 sily rotatable 6 sily rotatable Maryland jaw Atraumatic grasping and blunt dissection 1 Non-stick nan ocoaling on the jaws 9 Pelvic St works relactors 1 Jolis for thyroid and Hernia 1 (getsure hondles 1 Small jaw 2 (straight - curved) 2 care large jaw 2 (straight - curved) 2 curved large 2 size 3 Wont type a parsocopic 2 3 Wont type a parsocopic 2 5 Small jaw 2 (straight - curved) 2 2 2 2 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Earlily rota table Blunt jaw At raumatic grasping and blunt dissection Mon-stick nano coating on the jaws Many land 2 size (adult-pediatric) Itaparoscopic instrument (Mony land) Hand or host activation Integrated cutting mechanism Sealer / divider		2	
20 cm shaft length 28 cm shaft length 5 sily rotatable 6 sily rotatable Maryland jaw Atraumatic grasping and blunt dissection 1 Non-stick nan ocoaling on the jaws 9 Pelvic St works relactors 1 Jolis for thyroid and Hernia 1 (getsure hondles 1 Small jaw 2 (straight - curved) 2 care large jaw 2 (straight - curved) 2 curved large 2 size 3 Wont type a parsocopic 2 3 Wont type a parsocopic 2 5 Small jaw 2 (straight - curved) 2 2 2 2 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	Sealer / divider 3 mm diameter 3 7 ms shaft length 20 cm shaft length 28 cm shaft length Easily rotatable Blunt jaw Atraumatic grasping and blunt dissection Non-stick nan ocoating on the jaws Mary land 2 size (adult—pediatric) Laparoscopic Instrument (MoryLand) Hand or foot activation Integrated cutting mechanism Sealer / divider Smm diameter		2	
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Essily rotatable	Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Estily rotatable Blunt jaw Atraumatic grasping and blunt dissection Anostick nano coating on the jaws Wary land 2 size (adul-pediatric) Idaproscopic instrument (Mory land) Hand or foot activation Integrated cutting mechanism Sealer / divider Smell jaw from James Andread Sealer / divider Smm diameter 37 cm shaft length		2	
Essily rotatable	Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easily rotatable Blunt jaw Atraumatic grasping and blunt dissection Non-stick nan o coating on the jaws Mary land 25 size (adult – pediatric) Laparox copic Instrument (Laparox copic Instrument Integrated cutting mechanism Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length		2	
Maryland jaw	Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easily rotatable Blunt jaw Atraumatic grasping and blunt dissection Non-stick nan o coating on the jaws Mary land 25 size (adult – pediatric) Laparox copic Instrument (Laparox copic Instrument Integrated cutting mechanism Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length		2	
A traumatic grasping and blunt dissection Non-stick nan ocasting on the plans Petric SE works relactors Petric SE works relactors Iligature handles	Sealer / divider 37 cm shaft length 20 cm shaft length 28 cm shaft length 28 cm shaft length Estily rotatable Bunt law Atraumatic grasping and blunt dissection Non-stick-nano coating on the laws Mary land 2 size (adult-pediatric) Idaparoscopic instrument (Mory Land) Hand or host activation Integrated cutting mechanism Sealer / divider 5 mm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length		2	
A traumatic grasping and blunt dissection Non-stick nan ocasting on the plans Petric SE works relactors Petric SE works relactors Iligature handles	Sealer / divider 3 mm diameter 3 7 cm shaft length 20 cm shaft length 28 cm shaft length Easily rotatable Blunt jaw Atraumatic grasping and blunt dissection Non-stick nan ocoating on the jaws Mary Ind 2 size (adult -pediatric) Laparoscopic Instrument (MonyLand) Hand or foot activation Integrated cutting mechanism Sealer / divider Smm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easily rotatable		2	
Nonstick nan o coating on the jaws	Sealer / divider Smm diameter 37 cm shaft length 28 cm shaft length 28 cm shaft length Estily rotatable Bont jaw Araumatic grasping and blunt dissection Non-stick nano coating on the jaws Mary land 2 size (adul-pediatric) Idaproscopic instrument [Mory land of the structure of the jaws Mary land 2 size (adul-pediatric) Integrated cutting mechanism Integrated cutting mechanism Sealer / divider 5 mm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easlly rotatable Bally rotatable Maryland jaw		2	
Pelvic SE works relactors	Sealer / divider Smm diameter 37 cm shaft length 28 cm shaft length 28 cm shaft length Estily rotatable Bont jaw Araumatic grasping and blunt dissection Non-stick nano coating on the jaws Mary land 2 size (adul-pediatric) Idaproscopic instrument [Mory land of the structure of the jaws Mary land 2 size (adul-pediatric) Integrated cutting mechanism Integrated cutting mechanism Sealer / divider 5 mm diameter 37 cm shaft length 20 cm shaft length 28 cm shaft length Easlly rotatable Bally rotatable Maryland jaw		2	
Pelvic SE works relactors	Sealer / divider 3 mm diameter 3 7 cm shaft length 20 cm shaft length 28 cm shaft length 28 cm shaft length 8 limit jaw Atraumatic grasping and blunt dissection Non-stick nan ocoating on the jaws Mary land 25 size (adult—pediatric) Laparoscopic Instrument (MoryLand) Hand or foot activation Integrated cutting mechanism Sealer / divider 3 m diameter 3 7 cm shaft length 28 cm shaft length 28 cm shaft length Easily rotatable Maryland jaw Atraumatic grasping and blunt dissection		2	
Illis for thyroid and Hernia	Sealer / divider 37 cm shaft length 28 cm shaft length 28 cm shaft length 28 cm shaft length Easily rotatable Bunt Jaw At raumatic grasping and blunt dissection Non-stick nano coating on the jaws May land 2 size (adult-pediatric) Laparoscopic finatument (Mary Land) Integrated cutting mechanism Sealer / divider 5 mm diameter 37 cm shaft length 20 cm shaft length 22 cm shaft length Easily rotatable Maryland jaw At raumatic grasping and blunt dissection		2	
Ligotare handles	Sealer / divider 37 cm shaft length 28 cm shaft length 28 cm shaft length 28 cm shaft length Easily rotatable Bunt Jaw At raumatic grasping and blunt dissection Non-stick nano coating on the jaws May land 2 size (adult-pediatric) Laparoscopic finatument (Mary Land) Integrated cutting mechanism Sealer / divider 5 mm diameter 37 cm shaft length 20 cm shaft length 22 cm shaft length Easily rotatable Maryland jaw At raumatic grasping and blunt dissection		2	
Small Jaw 2 (straight - curved) 2	Sealer / divider 3 mm diameter 3 7 ms shaft length 20 cm shaft length 28 cm shaft length 8 limt jaw Atraumatic grasping and blunt dissection Nonstick nan ocoating on the jaws Mary land 2 size (adult-pediatric) Laparoscopic Instrument (Mary Land 2 size (adult-pediatric) I Laparoscopic Instrument Mery Land 2 size (adult-pediatric) Sealer / divider 3 mary land 2 size (adult-pediatric) Sealer / divider 3 mm diameter 3 cm shaft length 28 cm shaft length 28 cm shaft length Easily rotatable Maryland jaw Atraumatic grasping and blunt dissection Non-tick nan ocoating on the jaws Petick SE works relactors		2	
Small Jaw 2 (straight - curved) 2	Sealer / divider 3 mm diameter 3 Cm shaft length 28 cm shaft length 28 cm shaft length 8 live Sasily rotatable 8 live Sasily rotatable 8 live Save Sasily rotatable 8 live Sasily rotatable 8 live Sasily rotatable 9 live Sasily rotatable 10 live Sasily rotatable 10 live Sasily rotatable 11 live Sasily rotatable 12 liperovs spile individence Sasily rotatable 13 liperovs spile individence Sasily rotatable 14 liperovs Sasily rotatable 15 liperovs Sasily rotatable 16 liperovs Sasily rotatable 18 liperovs Sasily rotatable 19 liperovs Sasily rotatable 10 liperovs Sasily rotatable 11 liperovs Sasily rotatable 12 liperovs Sasily rotatable 13 liperovs Sasily rotatable 14 liperovs Sasily rotatable 15 liperovs Sasily rotatable 16 liperovs Sasily rotatable 17 liperovs Sasily rotatable 18 liperovs Sasily rotatable 19 liperovs Sasily rotatable 10 liperovs Sasily rotatable 10 liperovs Sasily rotatable 10 liperovs Sasily rotatable 11 liperovs Sasily rotatable 12 liperovs Sasily rotatable 13 liperovs Sasily rotatable 14 liperovs Sasily rotatable 15 liperovs Sasily rotatable 16 liperovs Sasily rotatable 17 liperovs Sasily rotatable 18 liperovs Sasily rotatable 19 liperovs Sasily rotatable 19 liperovs Sasily rotatable 19 liperovs Sasily rotatable 10 liperovs Sasily rotatable 10 liperovs Sasily rotatable 10 liperovs Sasily rotatable 1		2	
Large jaw 2 (straight -curved)	Sealer / divider 3 mm diameter 3 Cm shaft length 28 cm shaft length 28 cm shaft length 8 live Sasily rotatable 8 live Sasily rotatable 8 live Save Sasily rotatable 8 live Sasily rotatable 8 live Sasily rotatable 9 live Sasily rotatable 10 live Sasily rotatable 10 live Sasily rotatable 11 live Sasily rotatable 12 liperovs spile individence Sasily rotatable 13 liperovs spile individence Sasily rotatable 14 liperovs Sasily rotatable 15 liperovs Sasily rotatable 16 liperovs Sasily rotatable 18 liperovs Sasily rotatable 19 liperovs Sasily rotatable 10 liperovs Sasily rotatable 11 liperovs Sasily rotatable 12 liperovs Sasily rotatable 13 liperovs Sasily rotatable 14 liperovs Sasily rotatable 15 liperovs Sasily rotatable 16 liperovs Sasily rotatable 17 liperovs Sasily rotatable 18 liperovs Sasily rotatable 19 liperovs Sasily rotatable 10 liperovs Sasily rotatable 10 liperovs Sasily rotatable 10 liperovs Sasily rotatable 11 liperovs Sasily rotatable 12 liperovs Sasily rotatable 13 liperovs Sasily rotatable 14 liperovs Sasily rotatable 15 liperovs Sasily rotatable 16 liperovs Sasily rotatable 17 liperovs Sasily rotatable 18 liperovs Sasily rotatable 19 liperovs Sasily rotatable 19 liperovs Sasily rotatable 19 liperovs Sasily rotatable 10 liperovs Sasily rotatable 10 liperovs Sasily rotatable 10 liperovs Sasily rotatable 1		2	
Curved large 2 size 2 Blunt tip Laparoscopic 2 2	Sealer / divider 3 mm diameter 3 7 cm shaft length 20 cm shaft length 28 cm shaft length 28 cm shaft length 8 limit jaw Atraumatic grasping and blunt dissection Non-stick nan ocoating on the jaws Mary land 2 size (adult—pediatric) Laparoscopic Instrument (MaryLand 2 size (adult—pediatric) I laparoscopic Instrument MeryLand 2 size (adult—pediatric) Sealer / divider 18 mary land 2 size (adult—pediatric) Sealer / divider 37 cm shaft length 28 cm shaft length 28 cm shaft length 28 cm shaft length Atraumatic grasping and blunt dissection Non-stick nan ocoating on the jaws Petick SE works relactors Jolis for thyroid and ternia Ulgotsure hondes		2	
Curved large 2 size 2 Blunt tip Laparoscopic 2 2 2	Sealer / divider 3 mm diameter 3 Cm shaft length 28 cm shaft length 28 cm shaft length 8 live Sasily rotatable 8 live Save		2	
Blunt tip Laparoscopic 2	Sealer / divider 3 mm diameter 3 7 cm shaft length 20 cm shaft length 28 cm shaft length 28 cm shaft length 8 limt jaw Atraumatic grasping and blunt dissection Non-tick nan ocoating on the jaws Mary land 25 size (adult—pediatric) Laparoscopic Instrument (MaryLand 25 size (adult—pediatric) I laparoscopic Instrument MeryLand 25 size (adult—pediatric) Sealer / divider 18 mary land 25 size (adult—pediatric) Sealer / divider 37 cm shaft length 28 cm shaft length 28 cm shaft length 28 cm shaft length Atraumatic grasping and blunt dissection Non-tick nan ocoating on the jaws Petiv E5 works relactors Jolis for thyroid and ternia Ulgotare handles Ulgotare handles Small jaw 2 (straight—curved) Large jaw 2 (straight—curved)		2 2 2	
Doubt up Laperoscupit 2 2 2	Sealer / divider 3 mm diameter 3 7 cm shaft length 20 cm shaft length 28 cm shaft length 28 cm shaft length 8 limt jaw Atraumatic grasping and blunt dissection Non-tick nan ocoating on the jaws Mary land 25 size (adult—pediatric) Laparoscopic Instrument (MaryLand 25 size (adult—pediatric) I laparoscopic Instrument MeryLand 25 size (adult—pediatric) Sealer / divider 18 mary land 25 size (adult—pediatric) Sealer / divider 37 cm shaft length 28 cm shaft length 28 cm shaft length 28 cm shaft length Atraumatic grasping and blunt dissection Non-tick nan ocoating on the jaws Petiv E5 works relactors Jolis for thyroid and ternia Ulgotare handles Ulgotare handles Small jaw 2 (straight—curved) Large jaw 2 (straight—curved)		2 2 2	
Strad 2	Sealer / divider 3 mm diameter 3 7 cm shaft length 20 cm shaft length 28 cm shaft length 8 little fashi y catable 1 laparoxopic Instrument (Mary land 2 size (adutt-pediatric) 1 laparoxopic Instrument 8 little fashi y catable 1 laparoxopic little fashi y catable 1 laparoxopic little fashi y catable 1 lattle fashi y catable 3 con shaft length 2 son shaft length 2 son shaft length 2 son shaft length 5 sally rotatable Maryland jaw At raumatic grasping and blunt dissection Non-stick nan coating on the jaws Pelvic SE works relactors 1 Jolis for thyroid and Hernia 1 Ugotsure handles Small jaw 2 straight -curved J Largi jaw 2 (straight -curved) Largi avg 2 (straight -curved) Largi avg 2 (straight -curved) Largi avg 2 (straight -curved)		2 2 2 2	
	Sealer / divider 3 mm diameter 3 rm shaft length 20 cm shaft length 28 cm shaft length 8 lunt jaw Atraumatic grasping and blunt dissection Non-stick nan oc casting on the jaws Mary Ind 2 size (adult – pediatric) Laparoscopic Instrument (MoryLand) Hand or foot activation Integrated cutting mechanism Sealer / divider 3 rm shaft length 28 cm shaft length 28 cm shaft length 28 cm shaft length Maryland jaw Atraumatic grasping and blunt dissection Non-stick nan oc casting on the jaws Maryland jaw Maryland jaw Maryland jaw Maryland jaw Maryland jaw (2 (straight – curved) Logtosus Policy (2 (straight – curved) Lange jawz (straight – curved) Curved large 2 size Butt tip Laparoscopic 2 Butt tip Laparoscopic 2		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	Sealer / divider 3 mm diameter 3 rm shaft length 20 cm shaft length 28 cm shaft length 8 lunt jaw Atraumatic grasping and blunt dissection Non-stick nan oc casting on the jaws Mary Ind 2 size (adult – pediatric) Laparoscopic Instrument (MoryLand) Hand or foot activation Integrated cutting mechanism Sealer / divider 3 rm shaft length 28 cm shaft length 28 cm shaft length 28 cm shaft length Maryland jaw Atraumatic grasping and blunt dissection Non-stick nan oc casting on the jaws Maryland jaw Maryland jaw Maryland jaw Maryland jaw Maryland jaw (2 (straight – curved) Logtosus Policy (2 (straight – curved) Lange jawz (straight – curved) Curved large 2 size Butt tip Laparoscopic 2 Butt tip Laparoscopic 2		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	Sealer / divider 3 mm diameter 3 rm shaft length 20 cm shaft length 28 cm shaft length 8 lunt jaw Atraumatic grasping and blunt dissection Non-stick nan oc casting on the jaws Mary Ind 2 size (adult – pediatric) Laparoscopic Instrument (MoryLand) Hand or foot activation Integrated cutting mechanism Sealer / divider 3 rm shaft length 28 cm shaft length 28 cm shaft length 28 cm shaft length Maryland jaw Atraumatic grasping and blunt dissection Non-stick nan oc casting on the jaws Maryland jaw Maryland jaw Maryland jaw Maryland jaw Maryland jaw (2 (straight – curved) Logtosus Policy (2 (straight – curved) Lange jawz (straight – curved) Curved large 2 size Butt tip Laparoscopic 2 Butt tip Laparoscopic 2		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

2 ENDOSCOPYTOWER:

No.	Specification	Technical data	Otv.	Fill Your Specifications
1	Monitor		1	
	Screen diagonal	At least 27		
	Contrastratio	5000:01:00		
	Resolution and aspect ratio	3840x2160 pixels or more		
	brightness	500cd/m^2		
	Angel of view	178 V/H		
		2x DVI, 1x 3G-SDI, 1x VGA, 1x S-Video, 1x Composite		
		1x DVI, 1x 3G-SDI, 1xComposite, including: 1x External 24 VDC - Power Supply 1x Mains Cord 1x Cable Cover 4x Mounting Screws M4		
	Power supply	Internal.		
	Power supply /frequency	100-240 VAC. 50/60Hz		
2	Video processor:		1	
	HD with the magni view optical zoom endoscopes, facilitates endoscopic diagnostics and therapies.			
	Automatically select and saves the cleanest image			
	Digital output			
	2xDVI:1280x1024por1920x1080px			
	1xRGBTV(PAL,RGB+SYNC),1xS-VIDEO(Y/C),1xVIDEO(Composite)			
	Analog output			
	2xRemote,2xPeripheral,1xKeyboard,1xCardreader,1xAux,1xDigitalprinter,1xFootswitch,1xEthernet(100/10Base			
	Control terminal			
		Brightness,Red,Green,Blue,R-Hue,Chroma,9steps		
		3steps		
		USB Flash Drive		
3	Lightsource			
		300W LED lamp.		
		Automatic light control		
		Air cooling		
		60.000 H		
4	Gastroscope:			
	Achieve successful therapeutic intervention with the, which offers a working channel			
	of 2.8 mm or 3.8 mm, an exterior diameter of 9.3 mm -10.8 mm and a water jet function to keep the area being working length 1100mm depth of field 2-100 mm total lengh 1400mm.			
	treated clean of mucus and debris			
	Gastroscope consisting of 1x Irrigation Tube 1x V-Irrigation Tube 1x Pressure Compensation Cap, ETO cap 1x Leakage Tester 1x Sealing Cap, for working channel, package of 10 1x Cleaning Valve 1x Suction Valve 1x Air/Water Valve 1x Valve Brush 1x Bite Protector 1x Biopsy Forceps 3x Cleaning Brushes, diameter 5 mm 1x Protective Film 1x Case			

		_	
Field of view	140°		
Observation range	3 - 100 mm		
deflection capability	Up 210°/Down 90 Right 100°/Left 100°or		
	Up 210°/Down 100 Right 120°/Left 120°or		
	Up 210°/Down 120 Right 120°/Left 120°		
5 Colonoscope:			
Field of view 140°	140°		
Observation range	3 - 100 mm		
Bending capability	Up 180°/Down 180. Right 160°/Left 160°		
Distal end diameter	12.8 mm		
Flexible portion diameter	12.8 mm		
Working channel diameter	3.8 mm		
Working length	1,330/1,520/1,600/1,690mm		
Total length	1,630/1,820/1,990mm		
6 Doudenoscope:			
Field of view	100°-140°		
Observation range	2 - 100 mm		
Bending capability	Up 130°/Down 90. Right 110°/Left 90° or		
	Up 120°/Down 90. Right 110°/Left 90°		
Distal end diameter	12.8 mm -or more.		
Tube diameter	11.5mm		
Flexible portion diameter	12.8 mm		
Working channel diameter	4.2 mm		
Working length	1250/1260 mm		
Total length	1,500/1,550/1,600mm		
7 Sigmoidoscope:	1,300/1,330/1,000/////		
sigmoidoscope with an effective length of 790 mm. The working channel diameter is 3.8 mm, and it is equipped with a water jet function.			
	140°		
Field of view Observation same 2, 10 mm		\vdash	
Observation range 3 - 10 mm	3 - 10 mm	\vdash	
Bending capability	Up 180°/Down 180. Right 160°/Left 160°	ш	
Distal end diameter	12.8 mm	ш	
Flexible portion diameter	12.8 mm	ш	
Working channel diameter	3.8 mm		
Working length	790 mm		
Total length	1,090 mm		
8 Bonchoscope:			
provide with high quality images to enhance your diagnostic capability and improve . operability in all areas of bronchial care.			
Field of view	120°		
Observation range	3 - 100 mm		
Bending capability	Up 180°/Down 130°		
Distal end diameter	5.8 mm		
Flexible portion diameter	5.9 mm	آسا	
Working channel diameter	2.8 mm		
Working length	600 mm	LT	
Total length	870 mm		
9 Diathermy:			
It shall operate on AC power supply in the operating theatre.			
Provides all functions with improved properties for diverse applications			
18 unipolar and bipolar cutting modes such as for example bipolar resection			
25 unipolar and bipolar coagulation modes such as and the Bivascularsafemode		\vdash	
System Configurations:			
Diathermy Machine (Electrosurgical unit) 400w with complete accessories.			
Diathermy can be used in practically all surgical disciplines:			
Neurosurgery "laparoscopy" Gynecology" urology " spine surgery			
Neurosurgery "laparoscopy" Gynecology" urology " spine surgery Technical Specifications:			
Neurosurgery "laparoscopy" Gynecology" urology "spine surgery Technical Specifications: Solid-state/microprocessor-controlled frequency generator.			
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Neurosurgery "Taparoscopy" Gynecology" urology "spine surgery Technical Specifications: Solid-state/microprocessor-controlled frequency generator. Monopolar and bipolar outputs, electrically isolated from ground. high resolution color touch display.			
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3 Echo Ultrasound:

No.	Specification	Fill Your Specifications
	Description of Function	
	4.1.1. Colour Doppler Echocardiography System is required to study the anatomical abnormalities and blood flow in the heart and	
	associated vessels.	
	Operational Requirements	
	Latest generation electronic phased array colour Doppler system with minimum 512 Electronic Independent channels.	
	System must be DICOM ready and capable of being interfaced with HIS/RIS/PACS	
	Must be upgradable to next generation system on site.	
	Frequency compounding or better technology for better resolution and penetration	
	System Configuration	
	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.	
	1-3 MHZ adult cardiac probe electronic Phase array = 01ea.	
	1-11 MHZ electronic Phase array probe for vascular application-cardiac-01ea.	
	multi-plane TEE probe:. 4-8 MHZ adult as well as pediatric echo cardography .	
1	5-10 MHZ electronic Phase array probe for pediatric cardiology	
	colour printer 0-1 No.	
	B/W video thermal printer0-1 No.	

Technical Specifications	
Latest generation Electronic Phased array colour Doppler system with Minimum 512 Electronic independent channels.	
256 gray shades for sharp contrast resolutions	
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	
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.	
Harmonic Imaging: System must have following modes in harmonic with separate setting for:	
Harmonic imaging apability in Adult Cardiac, Paediatric Cardiac and linear Probe.	
Gain control in two dimensions for additional level of flexibility to image quality control.	
Real time high frequency 20 for higher resolution and low frequency Doppler for higher sensitivity in all probes	
Frame rate must be 300 FPS or more.	
Steerable PW/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	
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.	
Colour Flow Imaging for:	
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).	
Cine loop memory-more than 120MB of memory.	
Various maps for pre and post processing.	
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)	
Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress	
protocol.	
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:	
Accessories, spares and consumables	
Accessories:	
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.	
UPS of suitable rating conforming to international standards shall be supplied for minimum 30 min. backup for the entire system.	
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UPS of Suitable rating conforming to international standards shall be supplied for minimum 30 min. backup for the entire system. Standards and Safety Requirement. Must submit ISO13485.2003/AC:2007 for Medical Devices AND (CE)434.2 EED (Incretives for USEPA approved product certificate. The product shall comply to IEC 50601.2-37 et al.: Medical Electrical Equipment - Part 2-37: Particular Requirements for the Safety of Ultrasonic Medical Diagnostic and Monitoring Equipment. Type of protection against electric shocks - Class i Degree of protection against electric shocks for ultrasound probes Type "BF" For EC6 electrodes Type CF" User Training Must provide user training (including how to use and maintain the equipment). Warranty Warranty Warranty Warranty Warranty Warranty Warranty Warranty Warranty for 2 years. Maintenance Service during Warranty Period During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
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	C-Arm Machine:	
	Specification	Fill Your Specifications
•	Specification	Fill Your Specifications
Description of Function	continuous fluoroscopy, image storage and retrieval The system offered shall be a general	
	it should be a non-digital; non-DICOM compatible type.	
System Configuration	it should be a non-digital, non-bicom compatible type.	
X-ray C-Arm Mobile with compl	oto accorrarios	
Technical Specifications	ete accessories	
X-Ray Generator		
Microprocessor based, high fre	augnes invertor generator	
Generator Output: 5-6kW	equency inverter generator	
Continuous Fluoroscopic(manu	int / nutamatic)	
Tube voltage : 40KV ~120KV	an y decombacy	
Tube current : 0.3 mA~4 mA		
Pulse Fluoroscopic		
Tube voltage : 40KV ~120KV		
Tube current: 0.3 mA~30 mA		
Radiography mode		
Radiography 40KV~120KV		
Radiography tube current: 25 n	n∆s ~100 m ∆s	
Radiography mAs: 1.0 mAs ~ 18		
X-Ray Tube	O III AS.	
Rotating anode type		
Single focal spot, shall not be n	para than 0.6 mm	
Nominal voltage: 40KV-120 kV	nore than 0.6 mm	
Tube current :0.3 Ma-4 mA		
Anode heat storage capacity no	ot loss than 200 KHII	
Inherent filtration should be at		
Collimator	Tleast 3 mm Alleq	
Operator controlled automatic		
C-Arm	Commation	
Focus - I.I. Distance shall be at	Alassa 100 see	
Depth shall be ~ 75cm	rieast 100 cili	
Horizontal travel at least 200:		
Vertical travel at least 450 mr		
· Orbital movement shall be ~1		
· Swivel range shall be ~12°	25	
Rotation about horizontal axis		
	s snail be more than +/-180.	
Image Intensifier	ith direct coupling with camera	
	ith direct coupling with camera	
· Shall be at least 52 lp/cm	ht trap for high contrast dynamics	
CCD camera technology with A		
	ABC and AGC control	
TV Monitor	1. f. P 1. f	
	de for live and reference image	
· Shall be at least 24inch with a	utomatic brightness control	
Image rotation		
· Shall be at least 625 scanning		
	nd with the alphanumeric keyboard included	
· High resolution and anti glare		
Imaging Modes		
· Fluoroscopy mode shall have		
· Continuous fluoroscopy with I	ast image hold	
· Last image hold with at least		
· Continuous fluoroscopy with i	mage acquisition rate: about 20 frame/second.	
· Hard disk with image storage	capacity of at least 30000 images	
· RAM Memory of 256 images		
 Mosaic display of 16 images 		
· Zoom (x 2)		
 Measures: at least distances, 	angles	
· Come with CD/DVD/RW drive		

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	
Indicate here other features and software functions included in this offer	
System Configuration Accessories, spares and consumables	
Video printer for B/W thermal printing 01 no.	
Sterilizable textile cover and clips, for the X-ray tube and the Cassette holder for 24 x 30 cm	
Full protective shield (led aprons /neck shield/led eye glasses)	
All standard accessories/consumables/parts required for the proper operation of the above item shall be included in th	

5 Conventional X-ray

5	L	Conventional X-ray	
N	lo.	Specification	Fill Your Specifications
IN.			riii i oui specifications
\vdash		Description of Function	
L		Ageneral purpose X-ray machine for routine X-ray examinations at healthcare facilities.	
	- 1	Operational Requirements	
		It shall be suitable to be used for adult and pediatric patients in general Radiography examination.	
		System Configurations	
H		X-ray Generator, 1 unit	
H			
H		X-Ray tube & tube support system, 1 unit	
L		Radiographic patient table, fixed height1 unit	
		Floor mounted Bucky stand, 1 unit	
		Technical Specifications	
		l should be floor to floor mounted	
H		X-ray Generator:	
\vdash		Microprocessor based, high frequency inverter generator, the generator shall have at least 50 kHz.	
H			
L		Generator Output: not less than 30 K w	
L		Radiographic voltage: 40 kV to 140kV, in 1Kv step.	
	- 0	Radiographic current approx : 10 to 350 m A	
Г		Exposure time: 0.001sec (1msec) - 10sec	
Н		Anatomical Programmable Radiographic mode shall be available.	
Н	-1	Manual & automatic exposure control and automatic brightness control shall be available.	
\vdash			
\vdash		Shall come with over load protection device.	
		Floor Mounted Tube Stand:	
Г	T	Longitudinal travel: approx. 1750mm.	
	,	Vertical travel: from 630 -1850mm or in the range.	
\vdash		Movement arrested by electromagnetic brakes.	
\vdash		Rotation of tube arm around vertical axis: 1800; lockable at 00 to +/- 900.	
\vdash			
\perp		X-Ray Tube:	
L		Maximum tube output shall match with the generator output of not less than 20 K w.	
Г		X-ray tube rotating: +/-90°.	
		Large focus not more than 1.2 mm.	
Н	-1	Small focus not more than 0.6 mm.	
\vdash		Maximum tube voltage 140 KV.	
L			
L	- 1	Filtration: min 2.5mm Al equivalent.	
		Cooling method passive or forced air and /or oil cooling.	
Г		Anode rotating speed: More than 3000 rpm.	
		Anode heat capacity shall not be less than 200 KHU.	
Н		Collimator:	
\vdash			
L	-1	Manually adjustable .	
L		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.	
-		Radiography Patient Table:	
\vdash	-1	Radiography table shall be fixed height, 4-way floating top type with foot switch control.	
L			
L		Come with grid and cassette tray, with grid ratio: approx 8:1 or more. Grid line number: 40 line/cm. Focus distance: 115cm.	
L		Cassette size: accept all sizes from cassette 5" x 7" cm to 14" x 17" type.	
	- 0	Radiography table shall be fixed height of about 60cm.	
Г	_	Table top to film distance: approx. 6cm.	
F		Table top transverse movement: approx. ±14cm.	
\vdash		Table longitudinal movement: approx. ±29cm.	
\vdash	-	Table to light during in overlient. approx. 125cm.	
\vdash		Table top dimension: approx. 2000 x 800 mm (L x W)	
L		Table movement arrested by electromagnetic brakes .	
L		Floor Mounted Bucky Stand:	
Г	7	Vertical travel: from 460-1700mm or in the range.	
Г		Moving Grid with Grid ratio approx 8:1 or more. Grid line number: 40 lines /cm.	
Н		Shall come with Automatic Exposure Control for vertical bucky exposures.	
\vdash	- 1	Cassette size: accept all sizes from 5"x7" to 14"x17".	
\vdash		Movement arrested by electromagnetic brakes.	
L			
L		Control Console:	
L		Digital Display.	
Г	T	Minimum 3 Point Exposure Technique.	
г		Status display, error display.	
H		Shall have area dose product determination and display.	
\vdash		Shall come with radiography remote control in control room.	
\vdash			
\vdash	_	Accessories, spares and consumables	
L		All standard accessories, consumables and parts required to operate the equipment.	
Т		Power supply:	
Г		Power supply: 415 ±5%V (3 Phase), 50Hz fitted with appropriate plug	
Н		Environmental factors	
Н			
\vdash		The unit shall be capable of being stored continuously in ambient temperature of 0-55deg C and relative humidity of 15-95%	
L		The unit shall be capable of operating in ambient temperature of 20-50 deg C and relative humidity of 80%	
1		Standards & Safety Requirements	
Г	1	Should be CE or FDA approved product certificate.	
Н		Warranty	
\vdash	-1.	Comprehensive warranty for 2 years.	
\vdash			
\vdash	_	Documentation	
L		User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
L		Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and soft-copy)	
1	Т	List of important spare parts, accessories and consumables with their part numbers and costing.	

6 Digital X-Ray Machine:

No.	Specification	Fill Your Specifications
	Complete family of floor-mounted digital radiography solution that organize the individuality of clinic imaging routine. Digital	
	radiographic work place for recumbent, standing, or seated patient utilizes wireless flat detector.	
	Digital X-Ray Machine consist of:	
	- Floor-mounted tube stand with X-Ray tube and collimator:	
	 Adjusted manually with handles symmetrically mounted to the tube head. 	
	- Horizontal travel range 125 cm or 231 cm.	
	- Vertical travel range 147 cm manual or motorized.	
	- At least 10 inch color touch screen user interface on the X-Ray tube of multi function.	
	- Display resolutions 1280x800 pixels.	
	- Colorimeter high power LED long life time approximately 10 years and low noise without external cooling system, rotated manually	
	by , or –45 around center beam.	
	- Max exposure voltage for X-Ray tube 150 KV.	
	- Anode range 12º.	
	- Bucky wall stand:	
	 Floor-mounted Bucky wall stand with manual high adjustable tray for 14"x17". 	
	- Suited for orthopedic diagnostic, thorax and general diagnostic, trauma and ER diagnostic.	
	- At least 55 KW Generator:	
	- High frequency X-Ray generator.	
	- Multi processor system for organ programs.	
	- Automatic exposure control.	
	Table high fixed patient positioning with floating table top design:	
	- patient positioning table top width: 80 cm	
	table top, height: 70 cm.	
	- patient positioning table top length: 213 cm or more	
	- patient weight 300 kg	
	At least 23 inch color flat- screen display as the control display integrated image station.	
	Highend pc imaging system.	
	Keyboard and mouse .	
	 High performance image station .with image storage capacity of at least 10000 DICOM images: 	
	- DICOM network interfaces are included in basic system	
	§ DICOM send /StC	
	§ DICOM print.	
	§ DICOM work list/mpps.	
	§ DICOM query/retieve.	

-	§ Image documentation and archiving.	
	3 mage transfer to the network. \$ Automatic, user configurable data distribution(DICOM send, see also DICOM system interfaces).	
	§ Automatic filming with virtual film sheet (DICOM print, see also DICOM system interfaces).	
L	Operation time up to 950 images (up to 7 hour during regular utilization	
7	fluorescent microscope	
N		Fill Your Specifications
-	instrument Stable &study stand with well-contoured base .corrosion resistant paint anti-fungus treated	
	siedentopf trincoular observation head inclined at 30 and 360 rotatable diopter adjustment ring on ocular tube interpupillary distance from 53 to 75mm.	
	wide field eyepiece 10 (PAIRED)FOV 22mm anti-fungal and with eye guards .	
	Reverse angle quadruple (4-5 position) nosepiece revolves on ball bearing (tilted backwards).soft rubber knurled grip on nosepiece.	
-	Plan achromatic objective Plan fit fluorescent objective 4 /0.10	
	Plan fl fluorescent objective 10 /0.25	
-	Plan fi fluorescent objective 40 /0.65 Plan fi fluorescent objective 100 /1.25	
	Double layer graduated mechanical rectangular stage with size 210mmx 140mm (better) cross travel 75 (X)x 50 (Y)mm on ball bearing co—axial controls driving right and spring clip specimen holder on left.	
	Sub-stage ABBE condenser center able .NA 0.9/1.25 with aspheric lens.	
-	low position co-axial coarse and fine focusing control on ball bearing guide ways with pre-focusing lever & tension adjustment ring . The Epi –illumination is through LED illumination the fluorescent light spectrum range 420 mm -650mm	
-	One exciting light waves 8 (blue light) Comprising of :Exciting filter (EX) comprising of –blue light (EX-490)	
	Color separation prism (DM) comprising of –blue light (BA 530)	
-	Position of ordinary transmission light (Central) illumination box with LED lamp .power supply unit 220 volt orange coloured plastic screen to safeguard the operator from UV light .	
	Power supply (AC INUT75V-265V50/60 Hz) warranty 2 years	
	external training	
8	immune full automated	I
N		Fill Your Specifications
F	Fully automated and computerizes system Standard micro plate wells	
F	Max volume 2UI-1.95ml	
H	For washing 8-needels automatic prime and rinse User programmable protocol (aspiring .dispense .soak)	
F	Absorbance reading in 4 simultaneous channel (NIST-traceable calibration .monochromatic or dichromatic results Tungsten –xenon lamp	
L	8 position filter wheel : (340 -700nm)	
-	Linear - 0.2 to 3.0 A Open system	
	External training	
9	Immunhistochemistry	I
Ne	Specification	Fill Your Specifications
	Fully automated. Baking deparaffinization .cell conditioning and staining .including IHCSISH immunofluorescence .multiparameter IHC staining(dual .triple) counter stain and titration	
	1-30 slides with independent processing /functionality and temperature control for each position	
-	35 reagent positions Up to 7 different bulk solution can be changed on the fly without process interruption	
	Power supply (100-230 v) (50 /60Hz) Open system	
	External training	
10		
	Multihead microscope	1
	Multihead microscope Specification	 EIII Your Specifications
N	Optical system :UIS2 /UIS	 Fill Your Specifications
	b. Specification Optical system :UIS2 /UIS Illumination Illumination	Fill Your Specifications
	b. Specification Optical system :US2 /UIS Illumination Built -in Koehler illumination for transmitted light, light preset switch. Light intensity manager switch. Jhigh color reproductively 14 W LED light source.	Fill Your Specifications
	b. Specification Optical system :US2 /UIS Illumination Built - in Koehler illumination for transmitted light. light preset switch. Light intensity manager switch .high color reproductively 14 W LED light source . 10position nosepiece and 5 position nosepiece Objectives:	 Fill Your Specifications
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	Defical system :US2 /UIS Optical system :UIS2 /UIS Illumination Built - in Koehler illumination for transmitted light. light preset switch. Light intensity manager switch. high color reproductively 14 W LEDI light source. 10position nosepiece and 5position nosepiece Objectives: Plan APO N 2X / 108 UPIAN EN N 10X / 103 UPIAN EN N 10X / 0.13 UPIAN EN N 10X / 0.13 UPIAN EN N 10X / 0.14 UPIAN EN N 10X / 0.14 UPIAN EN N 10X / 0.14 UPIAN EN N 10X / 0.15 UPIAN EN N	
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Technical Specifications	Fill Your Specifications	
power output of 90 watts Holmium LASER.		
repetition rate of 5 – 40 Hz.		
Energy per Pulse of 0.5 – 4.5 joules		
pulse duration of 50 – 1300 microseconds		
Green – aiming beam of 1.0 mw at 532 nm, variable intensity settings.		
closed loop self-contained water to air exchanger cooling system.		
Fiber 200 – 600 μm, reusable		
Ion Exchanger		
One-Pedal Footswitch		
laser radiation wavelength: 980 – 2100 nm		
power supply: 210-240, 10% - Ac 50/60 Hz		