

STANDARD BIDDING DOCUMENTS

FOR

MEDICAL EQUIPMENT

DHQ TEACHING HOSPITAL KDA AND WOMEN

AND

CHILDREN/LM TEACHING HOSPITAL KOHAT

(KHYBER PAKHTUNKHWA)

MAY 2013

TABLE OF CONTENTS

NO. OF SECTION	NAME OF CONTENTS	PAGE NO.
SECTION- I	INVITATION OF BIDS	3
SECTION- II	TERMS & CONDITIONS / INSTRUCTIONS TO BIDDERS	4-5
SECTION- III	SPECIFICATION	
	a) DHQ H KDA	6-48
	b) W&C/LM H	49-76
SECTION -IV	BID SUBMISSION FORM	77
SECTION- V	FORM OF AGREEMENT /CONTRACT	78-80
SECTION -VI	DELIVERY TIME	81
SECTION- VII	QUALIFICATION CRITERIA	82
SECTION -VIII	BID EVALUATION CRITERIA	83
SECTION- IX	BID VALIDITY	84

INVITATION OF BIDS

Sealed tenders are invited from the manufacturers / importers / authorized dealers / sole distributors registered with the Sales Tax and Income Tax Department for the purchase of following items for teaching hospitals of KMU IMS kohat from SAFRON fund.

1. Equipments for gynae/obs unit <u>of w&c/LM Teaching Hospital kohat</u>
2. Equipments for paediatrics unit <u>of w&c/LM Teaching Hospital kohat</u>
3. Equipments for dental unit <u>of w&c/LM Teaching Hospital kohat</u>
4. demand of equipment for Pathology unit <u>w&c/LM teaching hospital kohat</u>
5. demand of equipment for Radiology unit <u>of w&c/Im teaching hospital kohat</u>
6. <u>demand of equipment for orthopaedic unit</u>
7. <u>demand of equipment for ENT unit</u>
8. <u>demand of equipment for EYE unit</u>
9. <u>demand of equipment for surgical unit</u>
10. <u>demand of equipment for cardiology unit</u>
11. <u>demand of equipment for radiology unit</u>
12. general items for hospital
13. CCTV system for hospital

The bidding documents including quantity, specification and detailed terms and conditions can be downloaded from www.kmu.edu.pk and [PPRA Website](#) .

Bid must be accompanied by DD worth Rs.1500/- (with downloaded BID form) in the name of chief Executive or can be obtained from the office of chief Executive till 25.5.13 on payment of Rs 1500/- (Non Refundable). Quotation shall reach the office of the undersigned through registered mail only within 30 days of publication of tender. Personal delivery will not be accepted. Mail received after 2.30 PM (closing hours) will not be entertained. The quotations will be opened in the office of Chief executive the same day at 1200 hrs by Purchase Committee in the presence of the bidders or their representatives.

The Purchase Committee reserves the right to accept or reject all or any bid at any stage without assigning any reason.

Chairman Purchase Committee
Khyber Medical University Institute of Medical sciences Kohat,

Section – II TERMS & CONDITIONS / INSTRUCTIONS TO BIDDERS

1. The Tender submitted by the suppliers shall be based on the following terms and condition and required documents must be attached with bid as per details given below:

- Bid/rate may be quoted on prescribed bidding form available in the bidding document as well as on the company's letter head along with detail specification for the unit price of the item (including all taxes and transportation charges to KIMS Kohat) entirely in Pak rupees transparently and clearly according to the prescribed specification available in the bidding document for each item. The rates should be mentioned in both words and figures. Rates with cutting or overwriting will be considered as nonresponsive.
- No tender with conditional, ambiguous and alternate price will be considered. Only one rate should be submitted for one item. If firm desires to offer more than one rates, he should purchase separate bidding documents. The items without mentioning country of origin will not be accepted for purchase, even though if it is lowest in price.
- Qualification and experience certificate of technical staff.
- Copies of registration with income tax and sales tax department. Income tax general sales tax and stamp duty will be deducted from the supplier as per government rules.
- Clearance Certificate of Excise and Taxation Department.
- A Call Deposit equal to 2 % of the quoted value must accompany the bid otherwise bid will be considered as nonresponsive. The Call Deposit should be in favor of the Chief Executive DHQ Teaching Hospital KDA and W&C/ LM hospital Kohat. The Call Deposit amount should be deposited on formula as $\text{Unit price} \times \text{qty required} = b * 2 \%$. Cheques, Bank Guarantee, insurance guarantee and pay orders will not be accepted. The call deposits shall be verified before the preparation of comparative statements and if found fake, legal action will be taken against the firm as per rules.
- The approved suppliers will be responsible for the replacement of spare parts free of cost during the warantee period, which should be mentioned in the quotation and should be at least two years. In this regard a contract / agreement will have to be signed between the supplier and KMU- IMS.

2. The Purchase Committee reserves the right to accept or reject any bid and cancel the process of completion and reject all bids, at any time prior to award of the contract without; thereby incurring any liability on the part of the effected supplier or any obligation to inform the affected supplier of the goods for the Purchase Committee decision.

3. No partial payment will be made against partial supply/ delivery.
4. The payment will be released after inspection by KMU Technical / Inspection Committee and satisfactory report submitted by the end user.
5. The supplier shall also be responsible to install and demonstrate the required equipment at the site specified by the authority at his own cost.
6. The supplier shall be bound to provide catalogues with photos, samples of small instruments or any other information required for the Technical / Inspection committee or Purchase Committee.
7. The black listed suppliers are not eligible to participate in the bidding.
8. All documents relating to the bid and contract shall be in English language.
9. The bidding documents should be signed and stamped by a person duly authorized on

- behalf of the supplier on every page.
10. The supplier shall produce authorization letter of manufacturers, which will be verified.
 11. The supplier belong to the other province will provide the complete address and phone numbers of his branch office at Khyber Pakhtunkhwa.
 12. The tender should be in sealed cover envelop clearly written thereon “**quotations for -----**” the name of the supplier with full address and telephone/ fax number must be written on the back of the quotation. If the envelop is not sealed and marked as above, the University will not be responsible for misplacement or pre-mature opening of bid. Sealed bids should be addressed to the Chairman Purchase Committee.
 13. The Purchase Committee reserve the right to increase or decrease the quantities of items of equipment/instruments/machinery.
 - 14.** In case of supply of defective or used items, the firm will be dealt with as per Government rules and regulations.
 - 15.** The successful supplier will have to make an agreement on stamp papers for the supply of the items according to the Contract.

Section III

List of Equipment for DHQ Teaching Hospital KDA Kohat

S No	Name of Item	specifications	Quantity	Rate per Unit
		<u>DEMAND OF EQUIPMENT FOR ENT UNIT</u>		
1	Operating Microscope	Magnification changes: Drum type, with 5 changes Objective lens: lens with F-200,300 and 400 mm Having teaching handle Eyepiece: Field of view at 12.5x – 17mm diameter adjusting range of visibility –6D to +5D Filters: Cobalt filter, blue filter, ½ ND Light Source: Halogen lamp 15V, 150W Brightness: (Max) 80,000lux Range of papillary distance: 50-75mm Vertical fine control: Model: Electric type, using a motor Adjustment of focus: 40mm Focusing speed: 1.3mm/sec. Microscope inclination: 0 to 30° <u>MAKE: USA, JAPAN, GERMANY, ITALY, KOREA or equivalent</u>	1	
2	Klein Saucer Anterior Commisure Laryngoscope with Levy's Suspension + Microlarygeal Instrument set <u>Broncho Fiberscope</u>	<u>LARYNGOSCOPES INSTRUMENTS SET.</u> <u>S.No. QTY ITEMS.</u> 1. 01 Laryngoscopes set. (Set of two pieces) With Adopter. 2. 01 Laryngeal Scissors Straight. 3. 01 Laryngeal Scissors Right. 4. 01 Laryngeal Scissors Left. 5. 01 Kleinasser Sup Cutting Forceps Straight. 6. 01 Kleinasser Cup Cutting Forceps Right. 7. 01 Kleinasser Cup Cutting Forceps Left. 8. 03 Suction Tube Deferent Sizes. 9. 01 Riecker-Kleinasser Laryngoscopes Holder and chest support.	1	
		<u>Specifications :</u> Angle of view field: 95 ° Range of Tip Bending: 180 ° U, 90 ° D, 100 ° R, 100 ° L Depth of View: 3-100mm Diameter of Instrument Channel: ø2.8mm Working Length: 530mm <u>Light Source:</u> <u>Specifications :</u> Light of Source: Halogen Lamp Power Supply: Voltage 110/220~240V.		

		Frequency 50~60Hz Power Consumption: 150W		
3	Mastoid drill burrs with angled handpiece	<p>ENT Form Germany Complete Specification as under</p> <p>1. Micro mot.syst.cpl.w.cool.220V 1 for Surgery, ENT, Neuro MD20 40,000 rpm, single moto: contains 1 x Control unit with LCD Display 2 Motor connectors, itegrated pump, foot pedal connection, printer connection 1 x Elctronic Motor 31-ESS with 3m Cable, Sterilizable 1 x Foot peda IP68, electronic, suitable for Op. theater 1 x Tubing Set, single use sterile, 3m 1 x Infusion bottle holder 1 x Nou-Clear Spray for cleaning and lubrication 500ml 2 x Spary-tube-attachment for E-Coupling and Motor 31-ESS 1 x Cooling liguid 0,9% NaCl, 1 liter (Note: W ithout Handl Pieces, W ithout Thermal printer) Straight hand piece 1:1/40000 w.spray 1 TL 104mm, tip 22mm, for burrs with shaft length 70mm a. shank \varnothing 2.35mm</p> <p>2. burr round 0,6 mm/70/2,35 mm 1 3. burr round 0,7 mm/70/2,35 mm 1 4. burr round 0,8 mm/70/2,35 mm 1 5. burr round 1,0 mm/70/2,35 mm 1 6. burr round 1,4 mm/70/2,35 mm 1 7. burr round 1,8 mm/70/2,35 mm 1 8. burr round 2,3 mm/70/2,35 mm 1</p>	1	
4	Myringoplasty Set	S# ITEMS	QTY	

		1. Plaster First Incision Knife	01		
		2. Rotary First Incision Knife	01		
		3. Sickle Knife	01		
		4. Trangular Knife	01		
		5. Mringotome	01		
		6. Aural Crocodile Forceps Tilly	01		
		7. Cawthorne Crocodile Scissors Straight	01		
		8. Cawthorne Crocodile Scissors Right	01		
		9. Cawthorne Crocodile Scissors Left	01		
		10. Frazier Suction Nozzle No 6,7,8	03		
		11. Micro Suction Nozzle	02		
		12. Cawthorne Hooks Different Angles	02		
		13. Granulation Forceps Straight	01		
		14. Micro Ear Instruments Different (Mobilizer, Measuring Rode, Currette, Elevator Rt, Lt	05		
		15. Micro Hartmann Crocodile Forceps Straight	01		
		16. Micro Hartmann Crocodile Forceps Curved	01		
		17. Mollison Mastoid Retractor Adult	02		
		18. Mollison Mastoid Retractor Child	01		
		19. Micro Granulation Forceps Straight	01		
		20. Micro Granulation Forceps Right	01		
		21. Micro Granulation Forceps Left	01		
		22. Plaster Jenson Retractor Right	01		
		23. Plaster Jenson Retractor Left	01		
		24. Tumarkin Metal Ear Speculum Slotted	03		

		25. Cawthorne Periosteal Elevator	01		
		26. King Vein Graft Pressing Forceps	01		
		27. Instruments Box	01		
		28. Needle Box	01		
		29. Mastoid Chisel	01		
		30. Crocodile Forceps	01		
5	Rigid Bronchoscope with full set of forceps / suction tips	Length 302 to 544 mm Outer diameter 4 to 6 4 206mm 4.5 280mm 5.0 280mm 5.5 280 mm 5.5 300 mm 6.0 300 mm Matching forceps for bronchoscopes of different types Biopsy forceps = 2 360 Foreign forceps 2 360 Grasping forceps 2 360 Suction tubes 2 360, 3 320, 3.5 320. 4.0 320 Fiberoptic light cable Light fountain cold light		1	
6	Set of Rhinoplasty	foerster sponge hold.forc.,serrat.jaws 1 backhaus towel clamp 90mm 1 scalpel hdl.no.3 1 masing cartilage slitting knifept130mm 1 cottle-masing plastic sciss s/s105mm 1 cottle-knapp plastic scisscvdb/b105mm 1 dorsal scissor cottle angular 165mm 1 joseph scissors cvd s/s 150mm 1 columella clmpw/fix bearings&scrw100mm 1 cottle lwr lat fcpsbayo3thserr145mm 1			1

	adson brown dissect.atr.forceps 120mm	1		
	gruenwald forceps bay.sh.w/o.t.200mm	1		
	halsey needle holder 130mm	1		
	crile-wood needle holder 150mm	1		
	cotton applctrtri-serr-end1.2mm160mm	1		
	cottle saddle hook 10x12mm140mm	1		
	cottle double-ended retractor203mm	1		
	cottle hook sharp hvy-cvd159mmdg180	1		
	fomon retractor 2-prong blunt145mm	1		
	cottle retractor2-prongsharp146mm	1		
	cottle retractor2-prongshrp146mm	1		
	aufrecht retractor speculum 160mm	1		
	nasal speculum cottle si.2	1		
	nasal speculum cottle si.4	1		
	cottle septum speculum thin-bld 90x7mm	1		
	cottle chisl/osteo.w/dpth-mrk4mm178mm	1		
	cottle chisel/osteotomew/mrk7mm178mm	1		
	cottle chisel/osteotomew/mrk9mm178mm	1		
	cottle chisel/osteotomw/mrk12mm178mm	1		
	cottle osteotome 6mm178mm	1		
	masing osteotome lft-cvsgguard178mm	1		
	masing osteotomert-cvdmmsgguard178mm	1		
	masing osteotome str ssguard178mm	1		
	cottle mallet flat/rnd235g30mm184mm	1		

		cottle elevator dbend grad 203mm	1	
		cottle elevator dbend 203mm	1	
		joseph elevator 160mm	1	
		ferg-frazier suct 7fr110mm wrk-lgt	1	
		ferg-frazier suct 12fr 110mm wrk-lgt	1	
		fomon bone filedbend6.5/7.5mm210mm	1	
		fomon bone raspdbend6.5/7.5mm210mm	1	
		joseph nasal saw bayo rt-cvd 170mm	1	
		joseph nasal saw bayo lft-cvd 170mm	1	
		bone crusher	1	
		weiblakesley rongeurstr4.2mm 121mm	1	
		watson-williams ethmoidal fcpsrr121mm	1	
		cottle-walsham septum fcps str 222mm	1	
		bone-cutting forceps fine170mm	1	
		jansen-middleton septum forceps 210mm	1	
		kidney tray stainless steel 250mm	1	
		laboratory dish 0.16 l	1	
7	Tonsillectomy set	metzenbaum dissect.scissors cvd.200mm		1
		waugh dissect.forceps 1x2t.200mm		1
		schnidt tonsil fcpsopen-ringcvd 185mm		1
		hegar-mayo needle holder 200mm		1
		buchwald tongue depressor 19/23mm180mm		1
		davis-boyle tongue dep frame f/adults		1
		russel-davis tongue bladegroove29x67mm		1

		russel-davis tongue blade groove 33x75mm	1																																																																												
		russel-davis tongue blade groove 38x85mm	1																																																																												
		abraham tonsil seizing forceps 205mm	1																																																																												
		tonsil dissector/pillar retr 10mm 216mm	1																																																																												
		eves tonsil snare 250mm	1																																																																												
		snare wires 0.5mm dia	1																																																																												
		beckmann adenoid curette #22 22mm	1																																																																												
		beckmann adenoid curette #5 22mm	1																																																																												
		yankauer suction tube w/born 4.8mm 285mm	1																																																																												
		luc septum forceps sm 200mm	1																																																																												
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8	SMR set	<table border="1"> <thead> <tr> <th>S/No</th> <th>Qty</th> <th>Items.</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>Freer Elevator & Separators.</td></tr> <tr><td>2</td><td>2</td><td>Killina Nasal Gauge V-shaped angled.</td></tr> <tr><td>3</td><td>2</td><td>Killina nasal Gauge V-shaped straight.</td></tr> <tr><td>4</td><td>2</td><td>Lucus Nasal chisel.</td></tr> <tr><td>5</td><td>1</td><td>Stainless steel hammer.</td></tr> <tr><td>6</td><td>3</td><td>Frazier suction nozzle no 9,10,12.</td></tr> <tr><td>7</td><td>1</td><td>Tilley's Nasal dressing forceps.</td></tr> <tr><td>8</td><td>1</td><td>Luc thurbinate forceps small.</td></tr> <tr><td>9</td><td>1</td><td>Luc thurbinate forceps medium.</td></tr> <tr><td>10</td><td>1</td><td>Hartmann crocodile forceps.</td></tr> <tr><td>11</td><td>1</td><td>Killina nasal speculum self – retaining 2”.</td></tr> <tr><td>12</td><td>1</td><td>Killina nasal speculum self retaining 2.5”.</td></tr> <tr><td>13</td><td>1</td><td>Killina nasal speculum self-retaining 3”.</td></tr> <tr><td>14</td><td>1</td><td>Heyman's turbinectomy scissors.</td></tr> <tr><td>15</td><td>3</td><td>Thudicum nasal speculums.</td></tr> <tr><td>16</td><td>1</td><td>Tilley's trocar & cannulas No. 7.</td></tr> <tr><td>17</td><td>1</td><td>Tilley's trocar & cannulas No.8.</td></tr> <tr><td>18</td><td>1</td><td>Wassham septum forceps straight 2.</td></tr> <tr><td>19</td><td>1</td><td>Double action bone nibbler Jenson. Middleton.</td></tr> <tr><td>20</td><td>1</td><td>Walsham septum forceps right.</td></tr> <tr><td>21</td><td>1</td><td>walsham septum forceps left.</td></tr> <tr><td>22</td><td>1</td><td>Yankaur suction nozzle.</td></tr> <tr><td>23</td><td>1</td><td>Kidney tray 1000ml.</td></tr> <tr><td>24</td><td>1</td><td>Instrument container box 10x12.</td></tr> </tbody> </table>	S/No	Qty	Items.	1	2	Freer Elevator & Separators.	2	2	Killina Nasal Gauge V-shaped angled.	3	2	Killina nasal Gauge V-shaped straight.	4	2	Lucus Nasal chisel.	5	1	Stainless steel hammer.	6	3	Frazier suction nozzle no 9,10,12.	7	1	Tilley's Nasal dressing forceps.	8	1	Luc thurbinate forceps small.	9	1	Luc thurbinate forceps medium.	10	1	Hartmann crocodile forceps.	11	1	Killina nasal speculum self – retaining 2”.	12	1	Killina nasal speculum self retaining 2.5”.	13	1	Killina nasal speculum self-retaining 3”.	14	1	Heyman's turbinectomy scissors.	15	3	Thudicum nasal speculums.	16	1	Tilley's trocar & cannulas No. 7.	17	1	Tilley's trocar & cannulas No.8.	18	1	Wassham septum forceps straight 2.	19	1	Double action bone nibbler Jenson. Middleton.	20	1	Walsham septum forceps right.	21	1	walsham septum forceps left.	22	1	Yankaur suction nozzle.	23	1	Kidney tray 1000ml.	24	1	Instrument container box 10x12.	1	
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9	Head light	Ideal white cold light illumination halogen bulb 1 watt, with 5500 kelvin 6V 7100 Lux Adjustable headband with washable inner padding	1																																																																												

		<p>equipment or patient visual with high and low priority.</p> <ul style="list-style-type: none"> - Adjustable alarm limits: Pmax, minute volume, FiO₂, Temperature, Tidal volume <p>Patient Gas Conditioning The integrated heated patient gas humidification system generates saturated and heated respiration gas. The heated patient tubes helps to avoid the formation of condensation.</p> <p>Independent Operation Built-in rechargeable battery for up to 3,5 hours operation independent of mains power supply With integrated charging device, visual and audible monitoring of the battery charge Built-in special air compressor with an output of 30l/min incl. electronically transformer, dust and bacterial filter.Vibration-free and noise insulated.</p> <p>Basic unit, with built-in double flowmeter 0 - 30 l/minm,battery and air compressor with Connection cable for external battery, for power 12 V for use on present on-board network Patient component with integrated heating (40°C max) and humidification (up to 98% rH) The patient component is autoclavable up to 134 °C.</p> <p>Connecting hose O₂ complete with NIST connection, White according to EN 739, length 3m with DIN gas extraction plug</p> <p>Connecting hose AIR complete with NIST connection, Black & White according to EN 739, length 3m with DIN gas extraction plug</p> <p><u>Required for adult patient ventilation:</u> Heated patient hose Protected voltage, for temperature stabilization and prevention of condensation, with Y-piece for adults, diameter 22 mm continuous heating, overall length 1100 mm</p> <p>Pneumotachograph - Adults - TYPE D with plug and silicone tubing, autoclavable 134°C</p> <p>Temperature system P3</p> <p><u>Required for pediatric patient ventilation:</u> Heated patient hose Protected voltage, for temperature stabilization and prevention of condensation, with Y-piece for children, diameter, 10 mm continuous heating, overall length 1200 mm heated length 800 mm, with cone couplings.</p> <p>Pneumotachograph - Pediatric - TYPE C with plug and silicone tubing, autoclavable 134°C</p> <ul style="list-style-type: none"> • Temperature system P3 • Test lung, pediatric – silicone • Mobile Stand • Articulated-arm for holding the patient component system with 2 joints and flexible shafts, with holding clamps <p>Operating Unit</p>		
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		<p> Plateau: 15 - 60 cmH₂O PEEP: 0 - 10 cmH₂O Cont. Flow: 0-30 l/min Insp. Time: 0,35 - 2 sec Exp. Time: 0,05 - 60 sec Freq: 2-60 BPM Tidal Volume: 5 - 2000 ml FiO₂: 21 - 100% Flow Trigger: 0,8 - 8,0 l/min Monitoring Display: LCD 240x 128 pixels Pressure: Pmax, PEEP, Volume: MV, VTe, Others: Freq, FiO₂, Temp. Graph Display Waveforms: P(t), V'(t), Scaling of x and y axis Gas supply AIR: Internal comp. 30l/min AIR: 1,5 - 6 bar +/- 0,5 bar O₂: 1,5 - 6 bar +/- 0,5 bar Electric power supply Mains 115/230 V AC, 50-60Hz, Int. Battery 12V DC, up to 3,5h Aux. Battery 12V DC <u>MAKE: USA, JAPAN, GERMANY</u> </p>		
	hot air oven	<p> <u>Features:</u> Dust-Free Gravity-Flow convection Ideal for drying, conditioning, Sterilizing and quality control even the most laboratory application temperature between ambient to 250°C maximum Digital PID control Membrane type touch key pad provides precision temperature control, timer, alarm, and auto-tuning (Option: automatic on/ off function) Safety and convenience Over temperature and current protection, leakage breaker ensures user safety and adjustable sliding rack, silent fan motor automatically stops when door is opened. Rapid Heat up 25 min up to 250°C Digital Timer built-in Controller Provide a efficient and convenient use and operation Dimensions Inner 400 x 350 x 400 (W x D x Hmm) Outer 545 x 500 x 770 Capacity 56Liters Heater 1.5 kW Temperature Range Ambient + 5°C to 250°C Accuracy ± 1.0°C Uniformity ± 3.0°C at 120°C </p>	3	

		<p>Convection Natural Convection Controller PID Multi-Function Controller, Alarm, Auto tuning Timer Automatic timer 0-99 min, 99hr, continuous Material Inner Stainless Steel (SUS 304) Outer Steel with epoxy powder coating Shelves Adjustable 2 or 3 shelves Insulation Glass Wool Electric Supply 110V, 60Hz or 220 V, 50/60Hz with solid schuko plug</p> <p><u>MAKE: USA, JAPAN, GERMANY, ITALY, KOREA.</u></p>		
O.T lights ceiling 12 Reflector	<p><u>Technical Data:</u></p> <p>Number of Bulb: 12 Bulbs China Bulb: 24V, 50W Halogen 24V, 50W Light Intensity in LUX: 145000 LUX Colour Temp: 4200 ± 200°K Power Consumption: 400 W Electrical Connection in Put: 110V, 6A or 220V, 5A Diameter Lamp Head: 75 CM Diameter Reflection: 14CM Colour Rendition Index: 90 Diameter of Illuminated Field: 20 CM Brightness Adjustment: Continuous 0 % ~ 100% Depth of Illuminated Field: 45 CM Swivel Radius (Approx): 100 CM Height Adjustment of Lamp Head: 55 CM Minimum Ceiling Height: 260 CM Absorption of Infrared Radiation: 95% Temperature Increase in Area of the Surgeon's Head: 7°C Focus Controller by Manual: Located on side of lamp head Transformer: 220V, 24V</p> <p><u>MAKE: USA, JAPAN, GERMANY, ITALY, TAIWAN</u></p>		3	
O.T light portable	<p>To be used in case of power failure Mobile emergency shadowless operation light with hermetically sealed dust-proof lamp head.</p> <p>Number of bulb: 3 Halogen bulb: 24v 150w Light intensity in lux: 120,000 lux Colour temp: 3800°k~4500°k Power consumption: 150w Electrical connection input: 220v,7a Bulb life (approx): 1000hrs</p>		3	

		<p>Color rendition index: 93 Diameter of illuminated field at im: 15~25cm Brightness adjustment:continuous 0%~99% Depth of illuminated field: 80cm Swivel radius (max) : 120cm Height adjustment of lamp head: 60cm Heat absorption (approx): 99% Time of service per charge with ups battery : (approx)120minutes Two sterilizable handles. A set of spare bulbs.ce certified</p> <p><u>MAKE: USA, JAPAN, EEC, TAIWAN, KOREA</u></p>		
	<p>Anaesthesia machine</p>	<p><u>Anesthesia Machine Complete, Including Ventilator:</u></p> <ul style="list-style-type: none"> • Input cylinder, three Gas Manifold, fitting pin indexed • Pipeline input connection for Oxygen, Nitrous Oxide, Air (inlet fitting British Standard) • Provided cylinders (Oxygen, Nitrous Oxide, Air) • Precision Calibrated Flow meters of Oxygen, Medical Compressed Air And Nitrous Oxide • Flowmeters: Oxygen two tubes- ranges 0.05 to 0.95 L/min and 1.0 to 15.0 L/min, Nitrous oxide two tubes- ranges 0.05 to 0.95 L/min and 1.0 to 10 L/minand Air two tubes 0 to 0.95 and to 1 to 15 L/min • System with three Vaporizer • The system can not turn on more than one Vaporizer at a time and Vaporizer and manifold prevents gas flow through all the vaporizer that are off • Built in Battery in Ventilator, internal rechargeable sealed lead acid • Approximately 30 minutes of operation provided by battery • Complete power failure or sudden gas failure (or low pressure gas) should indicate visually and audibly • Ventilator to monitor inspiratory, expiration volume and airway pressure • Ventilator screen Height x Width: 7.6 x 15.2 cm • Ventilator operating modes: Volume controlled and pressure limited and pressure controlled • Ventilator performance ranges: Tidal volume 20 to 1500 ml (Volume control mode) with incremental setting, Minute volume range 0 to 99.9 L/min, and pressure inspired range 12 to 60 cm H2O (increments of 1 cm H2O) • Positive End Expiratory Pressure (PEEP) integrated and electronically controlled, range: off, 4 to 30 cm H2O (increment of 1 cm H2O) • Alarm sittings for Tidal volume, Minute volume, inspired oxygen for Low and High. Also to be warm setting for Apnea, Low air way pressure, high pressure Provided Autoclavable sensor • On Castors size diameter: 12.5 cm and brakes: single foot lever 	<p>1</p>	

- locks and unlocks two front castors
- Spare Socket box for other equipment
- With Two Shelve and folding side shelf for accessories
- Leakage current less than 500 micro ampere
- Power Supply: 230Volts +/- 20%, 6A, 60Hz

7. ANESTHESIA MACHINE TROLLEY MOUNTED WITH TWO VAPORIZERS

Specifications:

- Strong back bar, selectatec type, allows for the fitting of two vaporizer
- 3 position selection valve, O2+Air, O2+N2O, or Air only.
- Swivel fresh gas outlet
- Safety N2O cut-off device, in the event of oxygen supply failure
- O2 failure warning device, audible (auto-reset)
- Monitoring shelf
- Stainless steel work surface
- Pivoting writing tablet
- 3 x drawer units
- Swivel absorber mounting bracket (OD= 25 mm)
- 3 x pipeline NIST fittings (1 x Oxygen, 1 x Nitrous Oxide, 1 x Air)
- 2 x cylinder Pin Index fittings (1 x Oxygen, 1 x Nitrous Oxide)
- 4 antistatic castors, 2 with brakes
- Soft bumpers on above each castors
- 'V' socket mounting point
- 4 electrical sockets
- Auxiliary Oxygen Outlet
- Two standing cylinders mounting capability
- Flow meter, 1xO2 / 1xN2O (O2 0.1-1.0 and N2O is 0.2 -12.0 l/min)
- CO2 Absorber System - 2 Lt, with Bag/Vent Valve
- Halothane vaporizer & IsoFlourane, Selecta Tec interlock (no calibration needed FOR LIFE TIME 10 Years approx)
- Patient circuit
- Pediatric Breathing System, Hytral tubing
- AMS Mapleson D (Bain) Breathing Circuit, reusable
- AMS Magill Breathing Circuit, w/exhaust valve, reusable

7. ANESTHESIA MACHINE WITH BUILT IN VENTILATOR

Applicable for Adult, Child, Baby.

Anesthesia Machine complete with brakes on castors, one drawer with following performance features. Mobile, suitable for inhalation, including measuring and monitoring devices for ventilatoric respiration functions, breath and anesthetic gas composition, with sensors and adapters for adults and children.

- 2 Yokes each for oxygen and N2O, with Pin index system with

pressure reducing valve.

- Gas mixing device with measuring tubes for O₂ and NO₂.
- Anesthesia gas cut off with acoustics O₂ efficiency alarm.
- O₂ bypass with safety valve.
- Breathing circuits.
- Halothane Vaporizer with Zero lock and safety transportation system. The unit must be pressure, temperature and flow compensated and should require no regular calibration. The vaporizer must be graduated for at least 7 years

Flow meter:

- Calibrated, color & touch coded,.
- O₂ 0.1 to 10 liter/min.
- N₂O 05-10 liter/min.
- O₂ Flush Valve:

Safety System:

- O₂ flow fail-safe device
- N₂O Cut-Off Valve automatically works with audible alarm
- Floretic mask
- Closed Ckt with CO₂ Absorber lit (Adult and pediatrics)
- Magills Ckt
- Bains Ckt

VENTILATION MODES

1. SIMV
2. CMV
- . PEEP
4. VC (volume control).
5. PC (pressure control).
6. Manual ventilation
7. Spontaneous ventilation
8. VCI (Intermittent volume control)
9. PCI (Intermittent pressure control)

ventilator (1)

Mains wire 2p+t (1mm) Length=3m (European type)

Autoclavable MONOBLOC (without FiO₂ sensor) (1)

- | | | |
|--------------------------|--|-----------------------------|
| <input type="checkbox"/> | O ₂ flush rate | 55 L/min |
| <input type="checkbox"/> | Tidal volume | 20-1500ml |
| <input type="checkbox"/> | Insufflation pressure | 10 to 50 hPa |
| <input type="checkbox"/> | Frequency | 5 to 60 c/min |
| <input type="checkbox"/> | I/E | 1/3 to 1/1 |
| <input type="checkbox"/> | PEEP | 0 to 25cm H ₂ O |
| <input type="checkbox"/> | Safety valve | 10 to 90cm H ₂ O |
| <input type="checkbox"/> | O ₂ flow | 0.2-15 L/min |
| <input type="checkbox"/> | N ₂ O flow | 0.2-15 L/min |
| <input type="checkbox"/> | Air flow | 0.2-12 L/min |
| <input type="checkbox"/> | Control cut of valve for N ₂ O if oxygen pressure drops and failure warning device acoustic built in. | |

VAPORIZERS:

Halothane OR Isoflurane OR Sevoflurane vaporizer, (**Two VAPORIZER**)
INTERLOCK/SELECTATEC

Facility for 2nd vaporizer

Alarms:

P min	3-76 hPa
P max	11-81 hPa
Ve min	0.1-15 L/min
O2 min	18% - 93 %
O2 max	27% -100%.

Additional accessories

CO2 absorber with capacity of more than 1 kg.

Anti hypoxic device

ADULT ACCESSORIES KIT

including:

Autoclavable 900 mm adult patient circuit

2.71 latex anaesthesia bag

Patient circuit connector

Single use adult patient circuit

PALL bacteriological filters

PAEDIATRIC ACCESSORIES KIT

Including:

Autoclavable 600mm paediatric patient circuit

1.21 latex anaesthesia bag

Patient circuit connector

Single use pediatric patient circuit

PALL bacteriological filters

PNEUMATIC ACCESSORIES

Including :-

O2 supply hose, 3m (AL quick connectors)

N2O supply hose, 3 m (AL connectors)

Air supply hose, 3 m (AL connectors)

FILTRABLOC air filter (AL quick connectors)

REUSABLE PATIENT CIRCUITS

Including:

adult patient circuit

pediatric patient circuit

TAEMA adult induction circuit

TAEMA pediatric induction circuit

GENERAL:

Voltage.. 100 – 240 V / 50-60 Hz

Type of driving gas Air or Oxygen

7. Anesthesia Machine with ventilator

The Anesthesia Machine with ventilator is through its unique horizontal “bag-in-bottle” system capable to ventilate from neonates to adult, without changing any bag or bellow.

The Neptune ventilator is standard equipped with several ventilation modes: Volume controlled, Pressure controlled, spontaneous, manual ventilation and can be easily upgraded with new modes. The Horizontal “bag in bottle” system is well known for its decelerating flow pattern which has the advantage of the best alveolar diffusion and less risk of barotrauma.

		<p>The Anesthesia is standard equipped with an “anti-barotrauma system” developed by Medec. This unique feature automatically reacts to major changes in the patient pressure, it gives a new dimension to patient safety.</p> <p>In manual/spontaneous mode we integrated the special “anti-volutrauma” software, specially developed by Medec</p> <p>Pipeline inlet pressure: 02 3 - 8 bar - NIST inlet N20 3 - 8 bar - NIST inlet Air 3 - 8 bar - NIST inlet</p> <p>Regulators (optional): Built-in regulator for 02 - N20 PIN-Index.</p> <p>Manometer gauges: N20 0 - 10 bar Air 0 - 10 bar 02 0 - 10 bar</p> <p>Vaporizer mounting: Selectatec system two station</p> <p>Absorber features: Autoclavable system Built-in overpressure valve Connection system to oxygen cell.</p> <p>Oxygen flush: 40 l/min (between 3 - 8 bar)</p> <p>Cylinder holders: 2 holders for 10 litre bottles</p> <p>Rotameter: 3 gases - 4 tubes 02 tube : 0 - 1 l/min 0 - 10 l/min N20 tube : 0 - 12 l/min Air : 0 - 15 l/min</p> <p>Vaporizers:</p> <p>Supplied with one Hal/Iso/Enf or Sev</p> <p>Volume of CO2 absorber: 1,5 litres Quick change’ canister system</p> <p>Suction: Built-in, operating on vacuum (optional with injector system)</p> <p>Manometer gauges regulator: 02 : 0 - 250 bar N20 : 0 - 100 bar</p> <p>Shelves: 1 monitor shelf (optional external arm) Drawer unit Drawer unit incorporated 2 drawers</p> <p>VENTILATOR Electronically controlled, pneumatically driven</p> <p>Principle: Bag-in-bottle system</p> <p>Tidal volume (CMV): 10 - 1600 ml</p> <p>I:E ratio: 1:1, 1:1.5,1:2, 1:3, 1:4, 1:5, 1:6, 2:1, 3:1, 4:1</p> <p>Plateau time : 0 - 50%</p> <p>Low oxygen alarm limit: 18 - 98 %</p> <p>Measured parameters Expired tidal volume, frequency, Minute volume, PIP, Plateau pressure, PEEP, Mean pressure ,Airway pressure</p> <p>Battery backup: Minimal 4 Hours when fully charge</p> <p>Battery type: Sealed lead acid battery</p> <p>Ventilation modes: CMV, PCV, manual, spontaneous</p> <p>Peak pressure (PCV): 5 - 70 mbar</p> <p>Peep (electronic): 0 - 20 mbar</p> <p>Upper pressure alarm limit: 8 mbar to 98 mbar</p>		
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		<p>High oxygen alarm limit : 20 - 99 % - OFF</p> <p>Audible and visual Alarms: Low air/O2/N2O input pressure Apnea alarm, O2 alarms Upper/lower limit alarm User and Technical alarms Major leak or patient disconnection</p> <p>Anesthesia Trolley Mounted</p> <p>High quality LED display, with IPPV and Manual Ventilation mode</p> <ul style="list-style-type: none"> • Parameters Monitored include V1, Paw and breath rate • Accurate & stable vaporizer out put, with flow , pressure and temperature compensation • Precise flow meter, with low-flow range (0-1/min). and high accuracy (0.05 L/min, meeting low-flow requirement. <ul style="list-style-type: none"> • Ventilation mode: IPPV, Manual • Tidal volume: 0-1500ml • Breathing rate: 6-6-bpm • IE Ration: 1: 1,2:3, 1:2,1:3, 1:4 • High airway pressure: 20-60cmH2O • Alarm silence: < 120s • Parameters monitored: Vt Paw, breath rate • Alarm: Paw high/low limit, power failure, low gas supply pressure • Safety valve: >6KPa • Patient type: Adult & Pediatric • Mode: Close, semi-close and semi-open • Driven mode: Pneumatically driven and electronically controlled sitting : Touch key and navigator wheel knob • Display : High quality LED • Flow meter: O2, N2O; 4 tube; 0-10l/min • O2 Flush: 35-75L/min • Single vaporizer • Power supply: 110V-240V; 50Hz-60Hz • Gas supply:O2 N2O; pressure: 0.3-0.5MPa 		
	<p>Sigmoidoscope steel Rigid with halogen light source and accessories set (Adult & Children)</p>	<p>Features of Sigmadioscope:</p> <ul style="list-style-type: none"> □ The images with high resolution, large range of view field, and brightness and clearance, make operators satisfactions very much and improve the correctness of observation and diagnosis.. <p>Specifications and Qualifications:</p> <p>Angle of view field: 100 °</p> <p>Diameter of Distal End: ø13mm</p> <p>Diameter of Insertion Tube: ø12.8mm</p> <p>Range of Tip Bending: 180 ° U, 180 ° D, 160 ° R,</p> <p>8.Sigmadioscope</p> <p>160 ° L</p> <p>Depth of View: 3-100mm</p> <p>Diameter of Instrument Channel: ø3.2mm</p> <p>Working Length: 1300mm</p> <p>Light Source:</p>		<p>1</p>

		<p>It has dielectric-coating reflector for Illuminating and it's mechanical luminance-adjustment is easy and comfortable to handle. Power voltage and frequency ~ 220V/50HZ Illumination >70000Lx Color temperature >3200K Bulb parameter 24V/150W Air pump: 0.03MPa= Pressure=0.06Mpa; 0.25M³/h=Q=0.65 M³/H Working distance 56 mm Mode of Working Continuous 4h</p>		
	<p>Cystoscope with 0, 30 and 70 degrees telescope with resectoscope</p>	<p>1 HOPKINS II Lateral Telescope 70°, enlarged view, ø 4 mm, autoclavable, fiber optic light transmission incorporated, Color code: yellow</p> <p>2 Cystoscope-Urethroscope-Sheath, 22 Fr., with obturator 27026 BO and 2 LUER-Lock adaptors, Color code: blue</p> <p>3 Cystoscope-Urethroscope Sheath, 17 Fr., with obturator 27026 UO and 2 LUER-Lock adaptor, Color code: yellow</p> <p>4 Telescope Bridge with 2 lockable instrument channels</p> <p>5 Catheter Deflecting Mechanism, with 2 instrument channels, with ratchet</p> <p>6 Grasping Forceps for removal of foreign bodies, 7 Fr. double action jaws, flexible, length 40 cm</p> <p>7 Biopsy Forceps, 7 Fr., double action jaws, flexible, length 40 cm</p> <p>8 Coagulating Electrode, 4 Fr., unipolar, length 53 cm</p> <p>9 Unipolar High Frequency Cord, with</p>		

		<p>4 mm plug, length 300 cm,</p> <p>1 Cold Light Fountain HALOGEN 0 250twin with two</p> <p>250Watt halogen lamps, with automatic switch-in spare lamp,</p> <p>one light outlet</p> <p>Power Supply: 100/120/230/240 VAC, 50/60 Hz. 400A</p> <p>Consisting of: Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm</p>																																		
	Cutting instruments	<ul style="list-style-type: none"> • For all instruments made of stainless steel. • All die made with hidden joints and leak proof. • Manufacturer's mark must be indicated on all instruments. <table border="1" data-bbox="453 1028 1315 1944"> <tr> <td>Sponge Holding foreceps</td> <td>8</td> </tr> <tr> <td>Needle Holders 7 inch</td> <td>15</td> </tr> <tr> <td>Needle Holders 8 inch</td> <td>10</td> </tr> <tr> <td>Hemostatic Forceps Mosquito STR 12 Cm</td> <td>15</td> </tr> <tr> <td>Hemostatic Forceps Mosquito CVD 12 Cm</td> <td>10</td> </tr> <tr> <td>Rankin Crile Artery Forceps STR 16 cm</td> <td>30</td> </tr> <tr> <td>Rankin Crile Artery Forceps VCD 16 cm</td> <td>30</td> </tr> <tr> <td>Rochester Pean Artery Forceps STR 18 cm</td> <td>30</td> </tr> <tr> <td>Rochester Pean Artery Forceps VCD 18 cm</td> <td>30</td> </tr> <tr> <td>Rochester Pean Artery Forceps STR 20 cm</td> <td>30</td> </tr> <tr> <td>Rochester Pean Artery Forceps VCD 20 cm</td> <td>30</td> </tr> <tr> <td>Rochester Pean Artery Forceps STR 24 cm</td> <td>30</td> </tr> <tr> <td>Rochester Pean Artery Forceps VCD 24 cm</td> <td>30</td> </tr> <tr> <td>Disecting Forecps Plain 14 cm</td> <td>20</td> </tr> <tr> <td>Disecting Forecps Plain 16 cm</td> <td>20</td> </tr> <tr> <td>Disecting Forecps Plain 18 cm</td> <td>20</td> </tr> </table>	Sponge Holding foreceps	8	Needle Holders 7 inch	15	Needle Holders 8 inch	10	Hemostatic Forceps Mosquito STR 12 Cm	15	Hemostatic Forceps Mosquito CVD 12 Cm	10	Rankin Crile Artery Forceps STR 16 cm	30	Rankin Crile Artery Forceps VCD 16 cm	30	Rochester Pean Artery Forceps STR 18 cm	30	Rochester Pean Artery Forceps VCD 18 cm	30	Rochester Pean Artery Forceps STR 20 cm	30	Rochester Pean Artery Forceps VCD 20 cm	30	Rochester Pean Artery Forceps STR 24 cm	30	Rochester Pean Artery Forceps VCD 24 cm	30	Disecting Forecps Plain 14 cm	20	Disecting Forecps Plain 16 cm	20	Disecting Forecps Plain 18 cm	20		
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		Disecting Forecps Tooth 20 cm	20		
		Disecting Forecps Tooth 25 cm	20		
		Adson's Disecting Forecps tooth and plain	20		
		Allisis Tissue Forceps 16 cm	20		
		Allisis Tissue Forceps 19 cm	20		
		Allisis Tissue Forceps 25 cm	20		
		Monyhen's foreceps curved right angle	10		
		Lahey's foreceps	8		
		Becks Dilators one set	1 set		
		Desjardin's foreceps straight and curved	10		
		Babcock Forceps 16 cm	10		
		Babcock Forceps 20 cm	8		
		Babcock Forceps 24 cm	8		
		Monthy Hysteractomy forceps 24 cm	8		
		Deavers Retractor different sizes sets	6		
		Proctoscope	8		
		Silver knife for grafting	10		
		Urethral dilators set	4		
		Lungs holding foreceps	6		
		Green armitag's foreceps	15		
		Catpaw retractors	10		
		Czerny Retractor	15		
		Morris's Retractor	10		
		Langen back Retractor different sizes	10		

		Self retaining Bladder Retractor Millin	3		
		Lung Retractor Allison	6		
		Doyen's retractors	10		
		Clamps Vascular satinsky	6		
		Bulldog Clamps Vascular	6		
		Intestinal Non Crushing Camp	10		
		Humbey's Skin Grafting with Blades	2		
		Rib Spreader	1		
		Rib Approximator Bailey	1		
		Peritoneum Elevator	4		
		Freer Osteotome	4		
		Towel Clamps	40		
		BP Handle No. 3	10		
		BP Handle No. 4	10		
		Mayo Dissecting Scissor STR	20		
		Mayo Dissecting Scissor CVD	20		
		Stitch Scissor	10		
		Mc Indo's Scissors STR 20 cm	10		
		Mc Indo's Scissors CVD 20 cm	10		
		Instrument Tray with Lid 12x14	8		
		Kidney Tray 10	8		
		Bowel ss 4	10		
		Bowel ss 6	10		
		Bowel ss 8	10		
		Bowel stands	6		
		Layngoscope 4 Blades simple**	4		
		Layngoscope 4 Blades simple Fiber optic**	4		
	INSTRUMENT TROLLEY	<u>size 60 x 90cm</u>		8	

	STAINLESS STEEL	Frame constructed of stainless steel hollow pipe, complete with two stainless steel trays, both trays provided with reinforcement as side guards for safety mobile on 50 mm dia twin wheels		
	Laryngoscope for Adult & Peads	Laryngoscope in wooden/plastic case having following specification. Four blades. Fine quality and dull finishing. Battery operated. Made of stainless steel.	4	
		<u>DEMAND OF EQUIPMENT FOR ORTHOPAEDIC UNIT</u>		
	<u>Traction Beds/Orthopedic Beds</u>	Mattress top having full fowler adjustment with the help of screw cranks. 4 sections, full gatch adjustment with 2 screw cranks. Vascular position adjustable by ratchet mobile on 4 castors, dia. 125mm (two diagonal lockable) fitted on recessed legs. Laying area made from reinforced steel strips. Head/Foot panels/Bows can be easily removable. Complete with Orthopedic traction attachment. Bed side Locker Made of Electrolytic Galvanize sheet, all plastic resin coated body with drawer & cabinet, table top of fiber glass, cabinet provided with half shelf, open bottom rack provided for shoes etc, mobile on 50mm Dia. Castors.	8	
	Image Intensifier C-Arm	<p>9-inches mobile c-arm image intensifier, comprising:</p> <p>high frequency inverter type x-ray generator with out put: radiography : 40 – 110kv, 16ma 1 – 100 mas.</p> <p>fluoroscopy : constant fluoroscopy abc: kv/ma inter link system. 0.2 to 3ma constant mode 0.8 to 12ma pulse mode. 1.0 to 16ma high pulse mode. 3.2 to 16ma digital shot mode.</p> <p>-nominal max. electric power 1.75kw. 'c'-arm vertical movement (motor driven) 400mm 'c'-arm horizontal movement 200mm 'c'-arm sliding rotation 115° 'c'-arm rotation ± 205°</p> <p>- 9-inches high resolution image intensifier with ccd type tv camera and two monitors of 17-inches. last image hold and monitor cart.</p>	1	

<p><u>Interlocking Nail Set Complete (Local Made)</u></p>	<p><u>SPECIFICATION OF SET</u></p> <p>01. Tibia nail. 8 to 12mm Length 28 to 34 35 pes 02. Femour nail. 9 to 13mm Length 36 to 44 25pes 03. Instrument box with tray Fiting. <u>instruments</u></p> <p><u>Tibia</u></p> <p>01. Tibia jig 01 02. Drill bitt 3.5mm long 01 03. All tibia bone reamer set</p> <p><u>Femour</u> <u>instruments</u></p> <p>01. Deapth gaege 6.5mm 01 02. Astractor 01 03. Screw driver 01 04. Trocar 01 05. Universal pana 5mm 01 06. Bone reamer 01 07. Distal jig tafloun 01 08. Masering gaege 01 09. All femour tissue protactor set 10. Box fiting 01 11. Femour jig 01 12. Drill bitt 4.5mm 01 13. Drill bitt 4.5mm long 01 14. Key 18x19 01 15. Instruments box with tray 01</p>		
<p><u>. PLASTER CUTTING SAW</u></p>	<p><u>SPECIFICATION:</u></p> <ul style="list-style-type: none"> • High oscillating speed: 16000 osc/min • Low oscillating speed: 11800 osc/min. • Voltage: 22/29 V • Sound level: 68 dB(A) • Length: 245 mm • Output to saw: 22/29 V • Supply frequency: 50 - 60 Hz 	4	
<p><u>Spica Table</u></p>	<p>Table base construction with four castors for easy movement Manual base brake Lateral tilt and trendeleburg adjusted by hand crank Base cover, side rails, accessories & clamps made of number 304 stainless steel Divided into 5 sections including head plate (U-shaped head rest optional), back plate, seat plate and leg plates Table top elevation controlled by hydraulic system 360° table top rotation. With side rails for the insertion of X-ray cassettes TECHNICAL SPECIFICATION. Length: 190-200cm. Width 45-50 cm, Height: 70-100cm Trendeleburg/ Reverse Trendeleburg: +20° / 30° each Lateral Tilt Left/Right: 20-30° Each Head section. + 30° / -90° Flexion & Extension: 100° / 215° Back Plate: 80 Leg Rest Split type horizontal positions: 20° / 120°</p>	1	

		<p>Leg Rest Split type Vertical positions: 20° / -90° STANDARD ACCESSORIES: -</p> <ul style="list-style-type: none"> • Pair of arm rest with quick disconnect clamps • Designed for easy installation and removal • Adjustable Head rest and Pair of shoulder supports • Lithotomy pole with universal swivel clamps • Anesthesia frame and Infusion Rod • Foot Rests • Side supports <p>Specification: Break pedal Elevation crank Horizontal angle lock handle Rotation "Z" type angle Leg supporter and HIP supporter Traction stopper with mattress Caster with break device Vertical elevator lock handle Traction crank Reaction foot boot.</p> <p>Easy to use any radiography and image intensification procedures. The HIP supporting sheets are made by bakelite sheet, with mattress for radiography and image intensification procedures. The HIP supporting sheet can be rotated 360d and the angle can be rotated 360d and elevation 300mm. The tractor range is 200mm and elevation range 200mm.</p>		
	<p><u>ORTHOPA DIC OT TABLE</u></p>	<p>General Design Stable base construction with four castors for easy movement Manual base brake Lateral tilt and trendelenburg adjusted by hand crank Base cover, side rails, accessories & clamps made of #304 stainless steel</p> <p>Table top Divided into 5 sections including head plate , back plate, seat plate and leg plates Table top elevation controlled by hydraulic system 360° table top rotation allows unrestricted image intensifier access With side rails for the insertion of X-ray cassettes (equipped with acrylic sheet plates for X-ray radiography)</p> <p>Specification:</p> <ul style="list-style-type: none"> • Length: 190cm • Width :50cm • Table top elevation/Height incl.padding: 69~100cm • Lateral Tilt (left/right): 25°/25° • Trendelenburg/Reverse position: +-22°/28° • Back plate up/down: +80°/0° • Leg plate up/down: +20°/-90° • Head plate up/down: +30°/-90° • Base brake: Mechanical by foot-pedal <p>Standard Accessories:</p> <ul style="list-style-type: none"> • Screen frame: 1 set • Shoulder Supporter I pair 	<p style="text-align: center;">1</p>	

		<ul style="list-style-type: none"> • Body Support 1 pair • Head plate: 1 set • Arm rest: 1 pair • Knee Crutches 1 pair • Kidney elevator 1 pair • Foot rest: 1 set • Mattress: 1 set <p><u>AND ORTHO ATTACHEMENT.</u></p>																
	<p><u>Diathermy machine</u> <u>400 watts</u> <u>(Bipolar</u> <u>&</u> <u>Unipolar</u> <u>nodes)</u> As for gynae</p>	<p>Provide PURE CUT, BLEND(1), BLEND(2),BLEND(3), COAG1(spray), COAG2(contact)and AUTO BIPOLAR, FOOTSWITCH BIPOLAR.</p> <ul style="list-style-type: none"> • The Percentage output digital display shows on the front panel. • It is controlled by Microprocessor which is responsible for controlling and monitoring of all the functions and features in unit. • Output values (CUT, COAG, BIPOLAR) are remained in the memory after switching off. These values will be come up to the display at turning on the power. • Automatic bipolar output without using footswitch.(300D/400D) • Multi monopolar outlets can be used for tow hand control outlets and for one Laparoscope outlet. • This can be hand or foot operated. • A bipolar output power profile that provides good resolution to permit small changes in power levels for delicate work yet has sufficient maximum output power capability to satisfy the requirements of the more demanding Procedures. • Spray Coagulation provides the Trans Urethral Resection (T. U. R) and Endoscopic procedures in urology. (400D) • Accessibility to parts and ease of maintenance that is unsurpassed. • Versatility, Reliability. • Designed for safety / Designed for Ease of use. <p>Adaptive REM Monitoring After the patient return electrode is applied, and the initial impedance is between 5 ohms and 135 ohms, the “adaptive” REM system measures the contact impedance and uses it as a reference value or above 135 ohms, the REM alarm sounds and the monopolar output is disabled.</p> <p>Technical Specifications:</p> <ul style="list-style-type: none"> • Output Power <table border="0" style="width: 100%;"> <tr> <td>PURE CUT</td> <td>400W at 500</td> </tr> <tr> <td>BLEND 1</td> <td>270W at 500</td> </tr> <tr> <td>BLEND 2</td> <td>200W at 500</td> </tr> <tr> <td>BLEND 3</td> <td>160W at 500</td> </tr> <tr> <td>CONTACT COAG</td> <td>120W at 500</td> </tr> <tr> <td>SPRAY COAG</td> <td>70W at 500</td> </tr> <tr> <td>BIPLAR COAG</td> <td>70W at 100</td> </tr> </table> <ul style="list-style-type: none"> <input type="checkbox"/> Operating Frequency: 400KHz ± 10% <input type="checkbox"/> Input Voltage: 110/220V, 50/60 Hz <input type="checkbox"/> Enclosure Leakage Current 0.1 μA <input type="checkbox"/> Patient Leakage Current 7 μA <input type="checkbox"/> Earth Leakage Current 03.358 mA <input type="checkbox"/> RF Leakage Current 43 mA <input type="checkbox"/> Protection Class / Type: Class I / Type CF 	PURE CUT	400W at 500	BLEND 1	270W at 500	BLEND 2	200W at 500	BLEND 3	160W at 500	CONTACT COAG	120W at 500	SPRAY COAG	70W at 500	BIPLAR COAG	70W at 100	5	
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		<ul style="list-style-type: none"> <input type="checkbox"/> Pulse Repetition Frequency: 32KHz ± 10% <input type="checkbox"/> Dimensions(H x W x D)mm: 150 x 350 x 430 <input type="checkbox"/> Weight: 15~16kg <input type="checkbox"/> Warranty: 1 years Parts and labor. Extended five year warranty available <input type="checkbox"/> Power Consumption: 750~950VA <p><u>STANDARD ACCESSORIES:</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">No</th> <th style="text-align: left;">Standard Accessories</th> </tr> </thead> <tbody> <tr><td>1</td><td>Footswitch 2 pedal with cable</td></tr> <tr><td>2</td><td>Footswitch 1 pedal with cable</td></tr> <tr><td>3</td><td>Reusable Foot switching pencil with cable</td></tr> <tr><td>4</td><td>Disposable 2 push button monopolar pencil with cable and electrode</td></tr> <tr><td>5</td><td>Bipolar forcep and Cable asset</td></tr> <tr><td>6</td><td>Reusable patient plate with cable for adult</td></tr> <tr><td>7</td><td>Disposable patient plate for adult</td></tr> <tr><td>8</td><td>Set of electrodes (6Pieces) for reusable and disposable handle</td></tr> <tr><td>9</td><td>Power cable</td></tr> </tbody> </table>	No	Standard Accessories	1	Footswitch 2 pedal with cable	2	Footswitch 1 pedal with cable	3	Reusable Foot switching pencil with cable	4	Disposable 2 push button monopolar pencil with cable and electrode	5	Bipolar forcep and Cable asset	6	Reusable patient plate with cable for adult	7	Disposable patient plate for adult	8	Set of electrodes (6Pieces) for reusable and disposable handle	9	Power cable		
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	<p><u>AUSTIN MOORE INSTRUMENT SET</u></p>	<p>Specification:</p> <ol style="list-style-type: none"> 1. Stainless Steel case, Long, Perforated 2. Tray for instrument (Stainless Steel) 3. Austin Moore Rasp (Standard Stem) 4. Thompson Rasp 5. Austin Moore Hollow Chisel 6. Austin Moore Extractor 7. Nylon Headed Impactor 8. Femoral Head Gauge (Set of 3) 9. Femoral Head Extractor 10. Murphy Lane Bone Skid 	1 set																					
	<p><u>FREGMENT SET</u></p>	<p><u>LARGE FREGMENT SET.</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">S.#</th> <th style="text-align: left;">Items</th> <th style="text-align: left;">Qty</th> </tr> </thead> <tbody> <tr><td>1</td><td>Bone Holding Forceps A/o Large.</td><td>02</td></tr> <tr><td>2.</td><td>Depth Gage Large.</td><td>01</td></tr> <tr><td>3.</td><td>Tap Sleeve 4.5</td><td>01</td></tr> <tr><td>4.</td><td>Bone Spikier Large.</td><td>02</td></tr> <tr><td>5.</td><td>Screw Driver Large 4.5mm.</td><td>01</td></tr> </tbody> </table>	S.#	Items	Qty	1	Bone Holding Forceps A/o Large.	02	2.	Depth Gage Large.	01	3.	Tap Sleeve 4.5	01	4.	Bone Spikier Large.	02	5.	Screw Driver Large 4.5mm.	01				
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6.	Periosteal Elevator Large.	01
7.	Chisel Large.	01
8.	Bone Cutter Large.	01
9.	Wire Cutter Large.	01
10.	Tap large 4.5.	01
11.	Screw Sleeve	01
12.	Instruments Box.	01

Small Fragment Set.

S.#	Items	Qty
1	Bone Holding Forceps A/o Small.	02
2.	Depth Gage Small.	01
3.	Tap Sleeve 3.5	01
4.	Bone Spikier Small.	02
5.	Screw Driver Large 2.5mm.	01
6.	Periosteal Elevator Small.	01
7.	Chisel Small.	01
8.	Bone Cutter Small.	01
9.	Wire Cutter Small.	01
10.	Tap large 3.5.	01
11.	Screw Sleeve	01
12.	Instruments Box.	01

	<u>Pneumatic Drill</u>	<u>SPECIFICATION:</u> - Pneumatic modular motor - Drill, saw, Reamer, K-wire Attachments - lubricating oil with the hand piece - 3m air hose, MA7 Schroeder connection - Conversion hose MA7 to ¼” NPT - Conversion hose MA7 to AO - Jacobs drill attachment - Wire driver attachment - K-wires, Set - Sagittal (oscillating) saw attachment - Saw blades Set - AO Reamer attachment - AO synthesis reamer shaft - Reamer shell 4 different types - Guage and Cylinder	2	
		1 Screw drivers different sizes 2 Bone holding forceps 3 Plaster retracting holder 4 Reamers diff sizes 5 Wire cutters diff sizes 6 Osteotomes diff sizes 7 Bone cutters diff sizes 8 Plates contours 9 Reduction clamps Different sizes On sample basis		
		<u>DEMAND OF EQUIPMENT FOR CARDIOLOGY UNIT</u>		
	Holter monitor	Holter ECG Monitoring System Having Following Features: <u>FEATURES :</u> - 24 hours continuous ECG examination in 2 or 3 channels from 5,7 lead. - 2 or 3 channels recording. - Removable PCMCIA-ATA flash card. - Prints complete narrative and quantitative reports, as well as 24 hours of full disclosure. - ST analysis and reporting is independent for all 3 channels. - Analysis classifications include : Maximum, minimum and average Heart Rate, Bradycardia, Tachycardia, Ventricular Ectopics,	1	

		VE Pairs, Ventricular Runs, Bigeminy, Pauses, Supraventricular Ectopics, SVT's, ST Elevation, ST Depression. Patient and recorder		
	ECG – Channel - 3	<p>Three channel electrocardiograph with both automatically and manually operation</p> <ul style="list-style-type: none"> • High quality printouts and choice between roll and Z-fold paper • Memory to copy ECG • ECG storage: Memory for 10 s., 12 leads ECG; Circular input memory for 10 s., 12-lead ECG • Leads: Standard/Cabrera • Paper Speed: 5/25/50 mm/s (direct) • Sensitivity: 5/10/20 mm/mV, either automatically adjusted or manually selected • Chart paper: Thermal paper (Z-folded(90mm wide), Roll(90 mm wide) • Printing process: High-resolution thermal pint-head, 8 dots per mm • Recording Tracks: 3 channels, positioned at optimal width on 80 mm, automatic baseline adjustment • Automatic Lead Programs: 3 channels representation of 12 simultaneously acquired standard leads • Data Record: Listing of ECG Recording data; Version M; ECG measurements results (intervals, amplitudes, electrical axes), average complexes with optional measurement reference markings • Mains supply: Built in Battery and 230V AC, 50 Hz 	5	
	<u>CENTRAL MONITORING SYSTEM WITH 8 MONITORS</u>	<p>Reliable monitoring system with centralized display of waves and numeric parameters and alarms for patients connected to MEK monitoring network, It display accurate patient information needed with simple pop- up menu, better access to patient data.</p> <p><u>Features:</u></p>	1	

- ☐ Connectable Up to 16 bed patient monitors
- ☐ Review 72hr Graphic Trend for each bed
- ☐ Save 1000 times alarm events or save it for 3 years
- ☐ Display for 32 waveforms for 16 beds

View window

All vital signs data and information continuously display

Trend Display

Review up to 72 hrs patient data for each monitor

Zoom Display

Enlarge wave display you need to evaluate patient's condition

Easy to Use

Easy to operate central system with pop-up menu and simple setting

PC Configuration

17" TFT LCD display
 Pentium IV 256MB RAM
 CD ROM

Accessories

USB type Multi serial port with RS 232 cable
 Ethernet Multi port & Ethernet Transducer
 Software

Performance

Display Resolution	1024 x 768 or higher Over 65000 color
Waveform	2 wave selective (ECG/SpO2/IBP1/IBP2/RESP) Max. 32 wave with 16 beds
Parameter	ECG/SpO2/NIBP/2-TEMP/2-IBP/HR
Alarm	High and Low limits alarm
View bed	32 waveforms for 16 besides monitors Up to 16 besides monitors connectable
Network	RS232
Review monitor	72 hours Graphic & Tabular Trend for each monitor 1, 000 items alarm review for each monitor
Recorder	External Printer
Language	English

Specifications:

(2ch ECG+SpO2+NIBP+2ch IBP+ TEMP + Resp)

- **Enhanced Multiparameter Patient Monitor**
- **Full Arrhythmia Analysis & Event Managing**
- **72 hr Tabular and Graphic Trend**

DisplayDisplay: **10.4" Color TFT LCD**

Resolution: 640 x 480 VGA STD

Trace line: 6 wave form max.

Vital sign graphic HR, SpO2, NIBP, IBP, Temp., Resp., CO2 Trend

ECG:

Channel: 2 channels

Electrode: 3 or 5 electrode

Lead: 7 Lead (I, II, III, aVR, aVL, aVF, C) selective

Dynamic range: 10mV

Heart rate: 20 ~ 300 bpm

Accuracy: +/-2 %

Input signal range: +/-0.5mV ~ +/-5mV

Defibrillator Protection: Defibrillator Discharge: <5s

Defibrillation Artifact Recovery Time: <8s

Pacemaker Detection Mode: User Selectable

ST Level measurement: User Selectable

Arrhythmia analysis

PVC Detection with display indicator: available

Respiration

Method: ECG Lead LA-RA impedance method

Respiration rate: 2~150 bpm

Accuracy: +/-1 bpm

Impedance range: 100 ~ 2K ohm

Detect sensitivity: 0.5 ohm min

SPO2

Range: 0 ~ 100%

Accuracy: Adult

+/-2% for readings 70 ~ 100%

+/-3% for readings 50~69%

Neonate

+/-3% for readings 70~100%

Unspecified 0~49%

NIBP

Measurement range: 0 ~ 300mmHg

Auto deflation pressure:

Adult: 300mmHg

Neonate: 150mmHg

Measurement time: max40 sec.

IBP

Measurement range: -50~300mmHg

Sensor: 5uV/mmHg (Optional)

Accuracy: +/-2%

Zero balance: +/-150mmHg

Temperature:

	<p>Resolution: 0.2°C Measurement range: 0~50°C Accuracy: +/-0.4°C (15~34°C, 41~45°C) +/-0.2°C (34~41°C)</p> <p>Display parameter Heart rate and alarm limit SpO2 percentage and alarm limit Blood pressure (NIBP, IBP) Respiration Temperature 72hrs Graphic Trend of Vital signs, Value &time Name, Bed ID, Date & time and menu information Event management (Save up to 20 Event memory capacity)</p> <p>Alarm Alarm: All parameters on/off selective independently Alarm silence: 30 sec.</p> <p>Power input Battery 12V 2Ah Operating time: 1Hr Power consumption 50W max. Dimensions W 282 x H 315 x D 165</p> <p>Environmental Operating temperature: 10~40°C (50~104°F) Storage temperature: -20~70°C (-4~158°F) Relative humidity: 10~90% (operation) 0~95% (storage)</p> <p><u>ACCESSORIES :</u></p> <ul style="list-style-type: none"> • ECG 3Lead cable CANDLE, AHA 1 • Disposable Electrodes Adult 10 • SPO2 Finger sensor (Nellcor type) 1 • SPO2 Extension cable CANDLE (Nellcor type) 1 • Reusable Adult Cuff (23~33cm) 1 • NIBP Hose 3m 1 • AC power code 1 • Ground cable 1 • Fuse 2A 250V 2 • Operation Menu 1 • ADULT SKIN TEMP 1 <p><u>MAKE: USA, JAPAN, GERMANY, ITALY, AND KOREA</u></p>	
<p><u>Central Monitor</u></p>	<p>Multi-channel 17-inches colored Central Monitor with recording facility on Laser Printer, digital HR with high and low alarms on all parameters selected on bedside monitors. Other parameters to be monitored as selected in the bedside monitors with automatic recording on alarm.</p>	<p>1</p>

		<ul style="list-style-type: none"> - Capability of displaying up to 16-patients data on the screen. - Hard wire system with capabilities of Tele Monitoring as a future upgrade. - Capability to store 72-hours trend data and up to 250 arrhythmia episodes of 8-seconds each and up to 4000 ST events for each patient. - Capability to store 72-hour full disclosure ECG as well as 5 other waveforms For each patient. - Built-in automatic Arrhythmia analysis and ST analysis. <p><u>Cardiac Monitors</u> <u>For Combining with Central Monitor</u></p> <p>Bedside monitor with 8-inches or more color TFT screen with 5-trace capability. Built-in ECG, NIBP, Respiration, Temperature, and SpO₂, measurements with all standard accessories including washable and reusable SpO₂ Probe. Built-in arrhythmia analysis and storage of up to 16-arrhythmia episodes of 8-seconds each. Touch screen for easy menu changes on the monitor screen itself. Built-in battery with up to 3 hours operation or more. Capability to write patients name directly on the touch monitor screen. Capability of OCRG (Oxygen-Cardio-Respirogram), i.e. display of respiration wave, real time heart rate, ECG, and SpO₂ Trendgraph. Periodic NIBP measurement alongwith PWTT capability to automatically trigger the NIBP measurements, if pulse wave transit time exceeds the threshold level, which is automatically calculated from the ECG and SpO₂. Multi-color alarm with up to 3-levels to inform of severity of patient condition. Universal connector to be provided with the system capable of connecting any new parameter probe that doctor may require. Monitor to automatically configure itself to new probe/parameter.</p>		
	<p><u>ETT SYSTEM WITH TREADMILL:</u></p>	<p>Features</p> <ul style="list-style-type: none"> • 12-Channel Stress Test with recording, presentation and evaluation of ECG. • Full Disclosur memory • Manual and automatic event memory • ST-Trend and ST-Level display of all 12 channels. • Display of blood pressure, heart rate and arrythmias. • QRS-Complex show in a superimposed mode. • Review function at any time during exercise 9Time-Cursor) • Standard or individual protocols. • Automatic control of bicycle ergometers and treadmills. • (optional) monitoring function within a network. 		

		<p>12 channel ECG Stress Test system which controls treadmills in speed and elevation in load. The complex control of a Stress Test system has been simplified by the intelligent software to give best comfort to the user. For high quality ECG recording the FLASHLIGHT Sensor (ECG amplifier) fulfils all the needs. Even for patients with pacemaker.</p> <p>QRS-Analysis: Speed up the analyzing of the Stress Test with control of histograms. Critical phases of the exercise are pointed out by ST-Level-and Trend – Histograms of all leads. The ECG or Representative QRS-Complexes can be displayed at any arbitrary point in time, or for particularly conspicuous trends, using the Time-Curso . It is also possible to run through the entire ECG manually with the Time-Curso quickly. In FLASHLIGHT ERGO the Scientifically acknowledge HES-BKG Algorithms are used for precise measurements of the ECG. The built in calipers allow control measurements of the ECG and the Representative QRS-Complexes to be made at any time. The specials designed monitoring feature with its review function allows analyz the ECG during the exercise within a network.</p> <p>TREADMILL:</p> <ul style="list-style-type: none"> • Speed :0.3 – 15.0 km/h • Speed tolerance:< 5 % • Motor power :1.5 kw • Elevation :0 to 22.4 % • Moving Surface:150cm x 50cm • Patient weight :170 kg <p>COMPONENTS:</p> <ul style="list-style-type: none"> • CPU • ECG Amplifier • Patient cable • Treadmill • Laser printer • Trolley <p>Make: USA, Japan, EEC, UK</p>		
	<p>1. <u>Cardiac Beds</u></p>	<p>POSITION; HEIGHT ADJUSTMENT : By foot pump (imported) 40-47 cms hydraulically operated. HORIZONTAL TILING : Leg up 30 dg leg down 20dg controlled by Bloc-o-lift gas spring with step less movement with foot operated lever on foot side. KNEE BRAKE ADJUSTMENT BY: Gas spring mechanism by hand operated lever on both side. BACK REST: By means of gas shock upto 70 dg by hand operated on both sides. CASTORS: 5" ball bearing rust proof, water proof,high quality electrically conductive wheel castors with central brake system.Head raise and knee raise by gas shock mechanism to make a fowler</p>	<p>6</p>	

		<p>position. Vascular position by means of lever or comb mechanism. Bedding area is radiotranslucent (Bakelite or Melamine material) for doing X-Ray and to apply "C" arm. Base and back rest is designed to accommodate "C" arm in case of emergency. For cardiac catheterization and other procedures so the central area of back rest is free of any metal part for "C" arm radiology. Have cardiac chair position. Head and foot bows is detachable in case emergency for doing intubations and CPR. DIMENSIONS: Bedding area : 200cm x 91 cm Height : 40-75 cms adjustable. MAIN FRAME: 1" X2" 16SWG pipe round at all corners having a single invisible joint. BASE FRAME: Frame made of 1-1/2" x 3" M.S pipe 16 SWG "U" shaped. FINISH: Polyester powder coating finish after treating with derusting & phosphating chemical. SIDE RAIL : Collapsible in 2 steps made of 1" upper pipe 3/4" 16 SWG supporting pipe and base 1-1/4 x 1/4" M.S plate S.S 5/8" I.V. ROD : 4 prongs revolving height adjustable having I.V ports on the sides of the bed. Four reflecting bumpers. Urine bag holder and N.G bag holder hocks. Basket for urine pot. Basket for bed pan. Patient lifting pole S.S. 3/4" on head side with triangular grip. MATTRESS: Foam 4" 1st quality with rexine cover.</p>		
		<u>DEMAND OF EQUIPMENT FOR RADIOLOGY UNIT</u>		
	USG	<p>Doppler Ultrasound Machine with 04 probes Convex 3.75 Mega Hz Adult Linear 7.5 Mega Hz Linear small 10-12 MHZ Transvaginal / Transrectal Probe Trans-oesophageal Echo – Cardiographic probe (optional)</p>	1	
		<p><u>DIGITAL COLOR DOPPLER ULTRASOUND SYSTEM</u> color doppler ultrasound system with fully digital beam former having 2d/m-mode, color & pw doppler having facility of hprf doppler with a high resolution imaging doppler signal quality system to be upgradeable to cw doppler.</p> <p>1) <u>B-MODE SPECIFICATION :</u></p> <p>A) scan angle variable in four steps. b) viewing depth: 24cm or more (both in b&w and color). C) frame rate: 200 f/sec or more. D) built in cine loop with ability to vary reverse and slow motion display; internal memory 500 color images or more. E) real time and freeze image magnification at least 8x or more w</p>	1	

		<p>panning for real, freeze and memorized images.</p> <p>2) <u>M-MODE SPECIFICATION :</u></p> <p>A) magnification: x2 or more. B) sweep speed: slow, medium, fast. C) color display of m-mode.</p> <p>3) <u>D-MODE SPECIFICATION :</u></p> <p>A) pulse-wave doppler measurable velocity range. B) measureable velocity range: 4.5m/sec or more C) must have doppler beam steering and bi-directional stereo-audio D) colorized spectrum display. E) auto doppler trace on live mode to analyze peak systolic and diastolic flow.</p> <p>4) <u>COLOR DOPPLER MODE SPECIFICATIONS :</u></p> <ul style="list-style-type: none"> - pw doppler must be continuous steerable in the color blood flow image mode in real time. - simultaneous display of “b” & “bdf” mode ability to show low blood flow area using b/w image data only so as to avoid color smudging and high spatial resolution. - 2d image with color, pw doppler. - windows based system for easy usage with programmable control panel keys. - tissue harmonic imaging with two thir frequency. - power doppler. - triplex mode for simultaneous display of color b/m and d-mode displays. - 360° degree image rotation. - 172 db system dynamic range or more. <p>5) <u>STANDARD PROBES :</u></p> <ul style="list-style-type: none"> - 3 to 6 mhz multi frequency convex probe. - 6 to 11 mhz multi frequency linear probe. - 4 to 7.5 mhz triple frequency endovaginal probe. <p>5) <u>OPTIONAL</u></p> <ul style="list-style-type: none"> - Panoramic viewing software - 3- D Advance in color and gray scale - UPS 2 KV (Imported) <p>6) <u>SYSTEM COMPLETE WITH FOLLOWING FACILITIES AND</u></p>		
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		<p><u>ACCESSORIES:</u></p> <ul style="list-style-type: none"> - 15-inches or more non interlaced color flat screen lcd tft monitor - built in dvd recorder for image storage. <p>7) <u>MEASUREMENT PACKAGE :</u> to provide comprehensive software package for measurement distance, circumference, area, time depth, velocity, frequency, heart rate, volumes, e.f., f.s., cardiac output, pressure gradient, bio-metric tables, twin % stenosis, volume.</p> <p>8) <u>STANDARD RECORDING DEVICES :</u></p> <ul style="list-style-type: none"> - thermal paper printer with ten rolls of paper (black & white). <p>9) tissue harmonic imaging without contrast with tissue harmonic frequencies.</p> <p>10) <u>UPGRADEABILITY :</u></p> <ul style="list-style-type: none"> - system software must be upgradeable. - system should have the capability for the upgradation of telemedicine 		
		DEMAND OF EQUIPMENT FOR RADIOLOGY UNIT		
		<p>Ultrasound Machine with</p> <ol style="list-style-type: none"> 1. Convex probe for Adults 2. Convex probe for Paed 3. Linear probe for vascular examination 4. Videographic Printer <p><u>. Ultrasound Machine</u> Fully digital Mobile Black and White Ultrasound System, with Digital Beam Former & Tissue Harmonic Imaging</p> <p><u>SPECIFICATIONS</u></p> <p>Scanning Method : - Electronic Convex - Electronic Linear</p> <p><u>B-mode specifications:</u> Viewing depth : 0-24cm or more. Display size : Upto 4x with PAN/Zoom</p> <p><u>M-mode specifications:</u> M-mode display : Scrolling with 4 Speeds</p> <p><u>DISPLAY MODES:</u> B/M Scan mode:</p>	1	

		<p>a) B(Single / Dual) (b) B/M(c) M</p> <ul style="list-style-type: none"> - 2-Active Transducer Connectors. - At least 12" Black and White Monitor. - Zoom after Freeze - 360 DEG. DSC/Image Rotate. - Probe Hanger. - Image Memory Kit (100-Frames). - Built-in CD Writer. - Multi frequency Convex Probe with center frequency between 3 – 5 MHz. - Multi frequency Linear Probe with center frequency between 5 – 7 MHz. - Complete original Trolley Mounted System.: <ul style="list-style-type: none"> - 8-steps selectable transmittal focus, Reception : Continuous Dynamic Focusing. - Biopsy Lines System Software. - Input/Output Composite Output Black & White, RS-232C, Ethernet. - Gain: 62-100db, STC Switches 0-24cm, 8 steps. - Image Processing, Dynamic Range, Echo Enhancement, Echo-Filter, Echo average & Post Process. - B-Mode measurements: Distance 4-Channel, Angle 2-Channels Area 4-channel, volume, 4-channels. - Auto annotation facility. - Measurement Functions: Distance, Angle, Ratio, Histogram, Area/Circumference, B-Mode Profile, Slop Ratio Time, Speed, Biometric Tables for fetal growth measurements with trendgraphs. <p>Accessories:</p> <ul style="list-style-type: none"> . B/W Thermal Printer with 50 Rolls . UPS 2 KV . Gel : 20 Litre <p>OPTIONALS:</p> <ul style="list-style-type: none"> . Endo vaginal / Endo cavity Multi frequency Probe between 4 – 8 MHz . Endo rectal / Endo cavity Multi frequency Probe between 4 – 8 MHz . Biopsy Adopter for any Probe 		
		<u>DEMAND OF EQUIPMENT FOR EYE UNIT</u>		
	Phaco-emulsification Machine	<p>Phaco Emulsification for Cataract Surgery with the following features and accessories:</p> <ul style="list-style-type: none"> • Cool phaco technology. 		1

		<ul style="list-style-type: none"> • Built-in peristaltic pump with realistic venture effect. • Dual linear control of foot switch • Real time vacuum sensor and air free aspiration line for maximum anterior chamber stability • Unit programmable for several surgeons and multiple procedures • Foot switch functions can be programmed to suit individual preference. • One Ultrasonic hand piece • One Bipolar Forceps • One I/A hand piece • One Disp. Anterior Vitrectomy cutter • One reusable I/A tubing set • One Phaco Tip • One vacuum pressure sensor • Irrigation sleeves • Bipolar cable <p>Technical Details</p> <p>Aspiration Flow Rate : 1-50 ml Vacuum : 1-550 mmHg Flow rate Pulsation : 7 Hz Excessive aspiration : 0-100% +/- 10 ml Vacuum rise with Venturi effect : 5-0.5 sec.</p> <p>Phaco Frequency : 27-55 kHz</p> <p>With Anterior Vitrectomy</p> <p>Country of Origin: Europe/USA/Japan</p>		
	AUTOMATIC PERIMETER	<p>30 Degree direct projection system comprising of following features:</p> <ul style="list-style-type: none"> • 5 Diagnostic examination programs (G!, 32, M2, ST, LV) • Automatic pupil measurement • Fixation Control • Head position recognition • Easy language adaptation • Static white on white Perimetry • Various test strategies: Normal, Low Vision, Dynamic, Qualitative (3 zone) • CCFF Test (Central Critical Fusion Frequency) <p>Specifications:</p> <p>Video Eye monitor camera & video display : Infrared sensitive eye Pupil size measurement : Automatic Average</p>		2

		<p>Stimulus size : Goldmann III and V Stimulus interval : 1.5 sec to 4.0 sec Stimulus intensity : 0-4, 800 asb Background illumination : 31.4 asb Power requirement : 100-240 VAC, 50/60 Hz, 40VA</p> <p>Complete with Printer, Pak made electric stand and Table top.</p> <p>Country of Origin: Europe / USA / Japan</p>		
	GLAUCOMA SET	<ul style="list-style-type: none"> <input type="checkbox"/> Barraquer Heavy wire Speculum <input type="checkbox"/> Castroviejo Caloper <input type="checkbox"/> Halstgead Curved Hemostatic Mosquito Forceps (2) <input type="checkbox"/> Westcott Stitch Scissors <input type="checkbox"/> Westcott Tenotomy Scissors <input type="checkbox"/> Vannas Straight Capsulotomy Scissors <input type="checkbox"/> Barraquer Iris Scissors <input type="checkbox"/> Bonn Iris Hook <input type="checkbox"/> Iris Spatula <input type="checkbox"/> Bishop-Harmon Tissue Forceps <input type="checkbox"/> Castroviejo 0.12 mm Suturing Forceps <input type="checkbox"/> Castroviejo 0.5 mm Suturing Forceps <input type="checkbox"/> Kelman –McPherson Angled Tying Forceps <input type="checkbox"/> McPherson Straight Tying Forceps <input type="checkbox"/> Needle Holder, Curved w/o Lock <input type="checkbox"/> Micro-Surgical Instrument Tray 		
	(DCR SET)	<ul style="list-style-type: none"> <input type="checkbox"/> Stevenson Lacrimal Sac Retractor <input type="checkbox"/> Knapp Lacrimal Sac Retractor <input type="checkbox"/> Wilder Lacrimal Dilator, Short Taper <input type="checkbox"/> Wilder Lacrimal Dilator, Medium Taper <input type="checkbox"/> Wilder Lacrimal dilator, Long taper <input type="checkbox"/> Ruedemann Lacrimal Dilator <input type="checkbox"/> Bowman Lacrimal Proble 0000-000 <input type="checkbox"/> Bowman Lacrimal Proble 00-0 <input type="checkbox"/> Kerrison Rongeur #0 <input type="checkbox"/> Belz Lacrimal Sac Rongeur <input type="checkbox"/> Tenzel Double Ended peri-osteal Elevator <input type="checkbox"/> West Lacrimal Sac Chisel <input type="checkbox"/> Mallet –Lead Filled <input type="checkbox"/> STORZ Nasal Speculum #1 <input type="checkbox"/> Bishop-Harmon Tissue Forceps <input type="checkbox"/> Schaedel Towel Clamp (2) <input type="checkbox"/> Halstead Curved Mosquito Forceps (2) <input type="checkbox"/> Halstead Straight Mosquito Forceps (2) <input type="checkbox"/> Sorz Straight Dressing Forceps 		

		<ul style="list-style-type: none"> <input type="checkbox"/> Stevens Tenotomy Scissors <input type="checkbox"/> Westcott Stitch Scissors Straight Eye Scissors <input type="checkbox"/> Storz Curved Iris Scissors <input type="checkbox"/> Barraquer Needle Holder, Curved w/Lock <input type="checkbox"/> Miro-Surgical Instrument Tray <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">S/No</th> <th style="text-align: left;">Qty</th> <th style="text-align: left;">Item</th> </tr> </thead> <tbody> <tr><td>1.</td><td>1</td><td>Cambell Lachrimal Sac Retractor.</td></tr> <tr><td>2.</td><td>1</td><td>Tyrell hook 5" sharp.</td></tr> <tr><td>3.</td><td>1</td><td>Stainless ruler 6".</td></tr> <tr><td>4.</td><td>1</td><td>Castroviejo Lacrimal dilator 5 ½" double ended.</td></tr> <tr><td>5.</td><td>1</td><td>Bowman probe size. 4/0 and 3/0.</td></tr> <tr><td>6.</td><td>1</td><td>Bowman probe size. 2/0 and 0.</td></tr> <tr><td>7.</td><td>1</td><td>Bowman probe size. 1 and 2.</td></tr> <tr><td>8.</td><td>1</td><td>Bowman probe size. 3 and 4.</td></tr> <tr><td>9.</td><td>1</td><td>Eye dressing forcep 4" full cud.</td></tr> <tr><td>10.</td><td>1</td><td>Freer chisel 6 ½".</td></tr> <tr><td>11.</td><td>1</td><td>West chisel 6 ½".</td></tr> <tr><td>12.</td><td>1</td><td>Freer elevator 7" double ended.</td></tr> <tr><td>13.</td><td>1</td><td>Kerrison Rongeur 3.5 mm bite, 3" shaft.</td></tr> <tr><td>14.</td><td>1</td><td>Lucae bayonet forceps 5 ½".</td></tr> <tr><td>15.</td><td>1</td><td>Frazier ferguson suction tube 7 Fr.</td></tr> <tr><td>16.</td><td>1</td><td>Baron suction tube 3 Fr.</td></tr> <tr><td>17.</td><td>1</td><td>Miltex mallet 7 ½" stainless and nylon faces.</td></tr> <tr><td>18.</td><td>1</td><td>Lampert rongeur 6 ¼" cvd.</td></tr> <tr><td>19.</td><td>1</td><td>Beckman nasal speculum 6".</td></tr> <tr><td>20.</td><td>1</td><td>Cottle sptum speculum 50 mm blade.</td></tr> <tr><td>21.</td><td>1</td><td>Takahashi nasal forceps 2.5 x 10 mm bite, 4 ½" shaft.</td></tr> <tr><td>22.</td><td>1</td><td>Metzenbaum scissors 5 ½" delicate.</td></tr> <tr><td>23.</td><td>1</td><td>Wire cutting scissors 4 ¾" angular.</td></tr> <tr><td>24.</td><td>1</td><td>Wire speculum.</td></tr> <tr><td>25.</td><td>1</td><td>Lacrymal Sac retractor.</td></tr> <tr><td>26.</td><td>1</td><td>B.P.handle No.3.</td></tr> <tr><td>27.</td><td>1</td><td>B.P.handle No.7.</td></tr> </tbody> </table>	S/No	Qty	Item	1.	1	Cambell Lachrimal Sac Retractor.	2.	1	Tyrell hook 5" sharp.	3.	1	Stainless ruler 6".	4.	1	Castroviejo Lacrimal dilator 5 ½" double ended.	5.	1	Bowman probe size. 4/0 and 3/0.	6.	1	Bowman probe size. 2/0 and 0.	7.	1	Bowman probe size. 1 and 2.	8.	1	Bowman probe size. 3 and 4.	9.	1	Eye dressing forcep 4" full cud.	10.	1	Freer chisel 6 ½".	11.	1	West chisel 6 ½".	12.	1	Freer elevator 7" double ended.	13.	1	Kerrison Rongeur 3.5 mm bite, 3" shaft.	14.	1	Lucae bayonet forceps 5 ½".	15.	1	Frazier ferguson suction tube 7 Fr.	16.	1	Baron suction tube 3 Fr.	17.	1	Miltex mallet 7 ½" stainless and nylon faces.	18.	1	Lampert rongeur 6 ¼" cvd.	19.	1	Beckman nasal speculum 6".	20.	1	Cottle sptum speculum 50 mm blade.	21.	1	Takahashi nasal forceps 2.5 x 10 mm bite, 4 ½" shaft.	22.	1	Metzenbaum scissors 5 ½" delicate.	23.	1	Wire cutting scissors 4 ¾" angular.	24.	1	Wire speculum.	25.	1	Lacrymal Sac retractor.	26.	1	B.P.handle No.3.	27.	1	B.P.handle No.7.		
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	3-D Mirror		1 set	
	Cataract Set		1 set	
	<u>Wheel Chair</u>	Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps	15	
	<u>PATIENT TROLLEY</u>	Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. Provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment.	15	
	<u>_____</u> Oxygen Flow Meter with Humidifier:	<ul style="list-style-type: none"> • Direct fitted to the Outlet (BOC British Standard), included with the Humidifier. • Nickel-plated brass base and body • Clear shroud • Expanded lower scale 0-5Lpm <p>Adjustable exit steam Moisture sensors for adjusting required moisture. Transparent water container. Easy to clean thermo steam maker parts. Applicable in all living environment to create desirable atmosphere for children. Built-in circuit breaker in time of dry up GS International Standard. Must have cool body all through the operation. Humidifier should have thermo steamer element and since it has Teflon resistant coating the parts wouldn't be in contact with water and cleaning operation is very easy.</p> <ul style="list-style-type: none"> • 	15	
	<u>Examinati on Couch</u>	Backrest adjustable with friction clutch lever, stationary type, cushioned foam mattress with high quality Rexene covering.	10	
	<u>BP APPARATUS MERCURY</u>	Table top B.P. apparatus with following features:- Mercury manometers with 0-300 mm of Hg calibrations.	20	

	<u>TYPE</u>	Washable strap with Velcro attachment. Washable cuff with 1 meter long tubing. Lock for mercury gauge while not in use. 1-No stethoscope (Littman type) Complete in a packable box with standard accessories		
	<u>OXYGEN CONCENTRATOR OR</u>	<p><u>SPECIFICATIONS:</u></p> <ul style="list-style-type: none"> • Higher outlet pressure for delivering up to 10 LPM of oxygen • Quiet and efficient operation with PowerPurge™ technology • Enables the use of standard accessories and long tubing runs without a drop-off in flow • Low flowmeter blocks for pediatric and other low flow applications available <p>Performance LPM Concentration*: 2-9 LPM 92%±3 10 LPM 90%±3 Oxygen Outlet Pressure:20 psig (138 kPa) Power Consumption:590 W</p> <p><u>Alarms:</u> Power failure , High and low pressure Temperature Low concentration (with oxygen monitor) * based on an atmospheric pressure of 14.7 psig (101 kPa) at 70°F (21°C). 120V/60Hz Unit, Single ,Flow meter, Oxygen Monitor.</p> <p><u>MAKE: USA, JAPAN, GERMANY</u></p>	3	
	<u>SUCTION MACHINE:</u>	<p>Mobile suction pump Oil-Less Piston along with 4 anti-static wheels with lock convenient for operation and delivery, with following performance features: Built-in Vacuum gauge with a range from: 0-760 mm Hg adjustable. Flow capacity:- 40-50 liter per minute Explosion proof foot switch. Capacity of two graduated suction bottle.3,000 cc each. Heat resistant and disinfect able rubber tube for suction. Over flow safety device. Power requirement: 220/240V, 50 Hz. Complete with standard accessories with spare bottle</p> <p>Make:- USA,Japan,EEC,UK</p>	6	
		<u>Submersible pump with 11 fans 25 HP</u>	1	
	<u>CCTV</u>	<u>Close circuit TV system for Hospital linking OT to recovery , demonstration room and auditorium</u>	1	

List of Equipment for W&C/LM Teaching Hospital Kohat

S No	Name of Item	specifications	Quantity	Rate per Unit																								
		demand of equipment for gynaecologist/obs unit of w&c/lm teaching hospital kohat																										
1	<u>COLPOSCOPE</u>	<p><u>SPECIFICATIONS:</u></p> <ul style="list-style-type: none"> • Inbuilt Objective Changer • Rooking (4 wheel base) or firm attachment to examine chairs and tables • Easy one hand movability into horizontal and vertical direction • Bright coaxial fiber optic illumination, continuously adjustable • Green filter • Magnification changer 3- step • Straight or inclined binocular tubes on choice • Changeable objectives and eyepieces • Handle controlled precision focusing • Integrated T- handle • Integrated beam splitter C- Mount • Rolling Base: 600 mm height, adjustable • Binocular straight tube: f= 125 mm; f = 159 mm • Binocular inclined tube: f= 125 mm; f = 159 mm • Objective: f= 300 mm (on choice f= 250 mm) • Eyepiece (WF): WF 20 x V (on choice WF 16 x V) • Green filter: swing in green filter • Cold light illumination: 12 V/100W continuously adjustable • T- handle: Can be mounted left or right side <p>Magnification with 3- step changer</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 30%; text-align: center;">Magnification</th> <th style="width: 40%; text-align: center;">Field of View ø</th> </tr> </thead> <tbody> <tr> <td>Objective f=250 mm</td> <td style="text-align: center;">6, 5x</td> <td style="text-align: center;">30 mm</td> </tr> <tr> <td></td> <td style="text-align: center;">10,0x</td> <td style="text-align: center;">18 mm</td> </tr> <tr> <td></td> <td style="text-align: center;">16,0x</td> <td style="text-align: center;">12 mm</td> </tr> </tbody> </table> <p>Magnification with 3- step changer</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 30%; text-align: center;">Magnification</th> <th style="width: 40%; text-align: center;">Field of View ø</th> </tr> </thead> <tbody> <tr> <td>Objective f=300 mm</td> <td style="text-align: center;">5, 0x</td> <td style="text-align: center;">36 mm</td> </tr> <tr> <td></td> <td style="text-align: center;">8,0x</td> <td style="text-align: center;">22 mm</td> </tr> <tr> <td></td> <td style="text-align: center;">13,0x</td> <td style="text-align: center;">15 mm</td> </tr> </tbody> </table> <p><u>MAKE: USA, JAPAN, GERMANY, FRANCE, UK.</u></p>		Magnification	Field of View ø	Objective f=250 mm	6, 5x	30 mm		10,0x	18 mm		16,0x	12 mm		Magnification	Field of View ø	Objective f=300 mm	5, 0x	36 mm		8,0x	22 mm		13,0x	15 mm	1	
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2	<u>HYSTROSCOPE</u>	<p><u>SPECIFICATIONS:</u></p> <p><u>Telescopes</u></p> <p>Mini hysteroscope ø 2.0 mm</p>	1																									

	<p>Direction of View: 0° Working length about: 235 mm</p> <p>Mini hysteroscope ø 2.7 mm Direction of View: 30° “Wide Angle” Working length about: 301 mm</p> <p>Telescopes ø 4.0 mm Direction of View: 30° Working length about: 301 mm</p> <p><u>Diagnostic Sheaths including Obturators</u> For use with telescopes ø 2.0 mm Sheath Direction of View: 0° / 15° Outer ø in Fr. 9.0</p> <p>For use with telescopes ø 2.7 mm Sheath Direction of View: 30° Outer ø in Fr. 10.5</p> <p>For use with telescopes ø 4.0 mm Sheath Direction of View: 30° Outer ø in Fr. 15.0</p> <p><u>Continuous flow Sheaths</u> For use with telescopes ø 2.0 mm with instrument channel 5 Fr. Direction of View: 0° / 15° Outer ø in Fr. 15.0</p> <p>For use with telescopes ø 2.7 mm with instrument channel 5 Fr. Direction of View: 30° Outer ø in Fr. 18.0</p> <p>For use with telescopes ø 4.0 mm with instrument channel 7 Fr. Direction of View: 30° Outer ø in Fr. 22.5</p> <p><u>Outer Sheath and obturator</u> Outer sheath Including standard obturator French: 21</p> <p><u>Instrumentation</u> Flexible foreign body forceps double action French: 7 Length: 40 cm</p> <p>Flexible biopsy forceps double action French: 7 Length: 40 cm</p> <p>Flexible scissors single action French: 7 Length: 40 cm</p> <p>Office stretcher and ruler with steps French: 10.5/ 16.5</p> <p><u>Intra Uterine Probe</u> “COHEN” intra uterin probe with two adaptors</p> <p>HF electrodes :Loop electrodes French: 7</p> <p>High frequency cable with banana connector 4.0 mm</p>		
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		<u>MAKE: USA, JAPAN, GERMANY, FRANCE, UK.</u>		
3	LAPARO SCOPE	<p>Cystoscope 4,0 mm 0° HM ,301mm. Cystoscope 4,0 mm 12° HM,301mm Cystoscope 4,0 mm 30° HM,301mm Cystoscope 4,0 mm 70° HM,303mm Cyst.-sheath 21,0 Fr. incl. standard obturator Cyst. sheaths with two stopcocks 25 Fr. incl. standard obturator. Visual-Obturator 21 Fr. Albarran deflector 2-channels Opt. biopsy forceps 19,5 Fr. Opt. stone crushing forc. 23Fr Flex. foreign. body forc. 7 Fr Flex. scissors 7 fr. Stone baskets 5 Fr. 4 wires Button electrode 5 Fr. Loop electrode 5 Fr. HF-cable 4,0/ banana connector Combi sheath 27 Fr surrounding Obturator f. 24 Fr. atraumatic Obturator deflecting f. 24 Fr. Visual obturator 24 Fr. Working element passive Loop electrode 24 Fr. bent Knife electrode 24 Fr. Ball electrode 24 Fr. Ø 3,0 mm Sterilization tube f. electr. Evacuator "Ellik" with Adapter Record-syringe 100ml with Adapter</p> <ul style="list-style-type: none"> • CAMERA 1CCD camera PAL, integrated 12,3mm coupler, with SDI • XENON LIGHT SOURCE 180 Watts, mechanical iris, manual adjustment, digital display 450VA, 6000°K, Power Cord • INSUFFLATOR Ins Gas flow rate up to 20l/min Abdominal pressure from 0 to 24mm Hg, quick compensation of CO2 leaks. Automatic internal desufflation in case of over-pressure. 20Liters Insufflator 1 reusable tubing Flexible hose for CO2 bottle 1 m, US-DIN 477-1 N° 6 Pressure selection: 0 to 24 mmHG (accuracy 1mmHG) External pressure relief valve Electrical protection: class 1 type BF • LCD MONITOR , CART, HF Unit <p><u>MAKE: USA, JAPAN, GERMANY, FRANCE, UK.</u></p>		
			1	

4	OT table with fluroscopy capabilities	<p>Increased flexibility to meet different surgical requirements. Smooth rolling mobile design is suitable for emergency room operation. Covered moving joints offer added safety. Gas spring controlled back and foot plates provide smooth manipulation. Convenient and unrestricted access for C-Arm x-Ray scanning. Height adjustable for surgeons access and comfort (At low height, it can accommodate seated clinicians, such as ophthalmologists, etc.) Plate's durability maintains shape even after prolonged exposure to X-rays.</p> <p>Technical Specification:</p> <ul style="list-style-type: none"> • Length : 1975mm • Table top size: 500x1975mm • Elevation: 700~1000mm (hydraulic foot pedal) • Trendelenburg: +- 22d (mechanical) • Tilt: +- 22d (mechanical) • Back section: +65d~-30d (gas spring) • Head section: +90d~90d (mechanical) • Leg section: +15d~-100d (gas spring) • Break: Mechanical by foot-pedal. <p>Standard accessories:</p> <ul style="list-style-type: none"> • Screen frame: 1 set • Head section: 1 set • Arm board: 1Pair • Leg section: 1 set • Mattress: 1 set • Operation handle: 1 pc <p><u>MAKE: USA, JAPAN, GERMANY, ITALY, TAIWAN</u></p>	1	
5	<u>DELIVERY TABLE HYDRAULIC OPERATED</u>	<p>Specification: Brief instruction: This table is composed of bed surface, bedstead and bed base. The surface includes back section, seat section, and leg section. The ascending and descending movements and the forward and backward tilt are controlled by the operating hand wheel. It is makes the doctor and patients feel comfortable.</p> <p>Main specifications: Length and width for tabletop: 1800mmX600mm Dimensions of sections: Back section: 600X800mm Seat section: 600X400mm Legs: 540X500mm Height of table top from floor: min height: 660mm Max height: 920mm Back section raised from the horizontal: =60°</p>	4	

		<p>Forward tilt: =8° Backward tilt: =20°</p> <p>Accessories and it's usage:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Leg support quantity 2: one on each for supporting the legs during the operation, position can be adjusted according to need. <input type="checkbox"/> Handle quantity 1: provided for parfurient women to pull. <input type="checkbox"/> Arm rest quantity 2: can be mounted on either side of the table and used for infusion and for measurement of blood pressure and pulse 																
6	CAUTRY MACHINE	<p>FEATURES:</p> <ul style="list-style-type: none"> • Provide PURE CUT, BLEND(1), BLEND(2),BLEND(3), COAG1(spray), COAG2(contact)and AUTO BIPOLAR, FOOTSWITCH BIPOLAR. • The Percentage output digital display shows on the front panel. • It is controlled by Microprocessor which is responsible for controlling and monitoring of all the functions and features in unit. • Output values (CUT, COAG, BIPOLAR) are remained in the memory after switching off. These values will be come up to the display at turning on the power. • Automatic bipolar output without using footswitch. • Multi monopolar outlets can be used for tow hand control outlets and for one Laparoscope outlet. • This can be hand or foot operated. • A bipolar output power profile that provides good resolution to permit small changes in power levels for delicate work yet has sufficient maximum output power capability to satisfy the requirements of the more demanding Procedures. • Spray Coagulation provides the Trans Urethral Resection (T. U. R) and Endoscopic procedures in urology. • Accessibility to parts and ease of maintenance that is unsurpassed. • Versatility, Reliability. • Designed for safety / Designed for Ease of use. <p>Adaptive REM Monitoring: After the patient return electrode is applied, and the initial impedance is between 5 ohms and 135 ohms, the “adaptive” REM system measures the contact impedance and uses it as a reference value or above 135 ohms, the REM alarm sounds and the monopolar output is disabled.</p> <p>Technical Specifications:</p> <ul style="list-style-type: none"> • Output Power <table style="width: 100%; border: none;"> <tr> <td>PURE CUT</td> <td>400W at 500</td> </tr> <tr> <td>BLEND 1</td> <td>270W at 500</td> </tr> <tr> <td>BLEND 2</td> <td>200W at 500</td> </tr> <tr> <td>BLEND 3</td> <td>160W at 500</td> </tr> <tr> <td>CONTACT COAG</td> <td>120W at 500</td> </tr> <tr> <td>SPRAY COAG</td> <td>70W at 500</td> </tr> <tr> <td>BIPLAR COAG</td> <td>70W at 100</td> </tr> </table>	PURE CUT	400W at 500	BLEND 1	270W at 500	BLEND 2	200W at 500	BLEND 3	160W at 500	CONTACT COAG	120W at 500	SPRAY COAG	70W at 500	BIPLAR COAG	70W at 100		
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SPRAY COAG	70W at 500																	
BIPLAR COAG	70W at 100																	

		<input type="checkbox"/> Operating Frequency: 400KHz \pm 10% <input type="checkbox"/> Input Voltage: 110/220V, 50/60 Hz <input type="checkbox"/> Enclosure Leakage Current 0.1 μ A <input type="checkbox"/> Patient Leakage Current 7 μ A <input type="checkbox"/> Earth Leakage Current 03.358 mA <input type="checkbox"/> RF Leakage Current 43 mA <input type="checkbox"/> Protection Class / Type: Class I / Type CF <input type="checkbox"/> Pulse Repetition Frequency: 32KHz \pm 10% <input type="checkbox"/> Dimensions(H x W x D)mm: 150 x 350 x 430 Standard Accessories 1 Footswitch 2 pedal with cable 1 2 Footswitch 1 pedal with cable 1 3 Reusable Foot switching pencil with cable 1 4 Disposable 2 push button monopolar pencil with cable and Electrode 1 5 Bipolar forcep and Cable asset 1 6 Reusable patient plate with cable for adult 1 7 Disposable patient plate for adult 1 8 Set of electrodes (6Pieces) for reusable and disposable handle 1 9 Power cable 1 <u>MAKE: USA, JAPAN, GERMANY, ITALY, KOREA</u>		
7	<u>C-Section set</u>	. Instrument container box 10"x12" 1 2. Towel clips on pin 6 3. Sponge holding forceps 2 4. non toothed dissecting forceps 7" 1 5. Toothed dissecting forceps 7" 1 6. BP handle No 4 2 7. allis's forceps 9" 2 8. Kidney tray 1 litre 1 9. Artery forceps 6" curved on pin 8 10. Artery forceps 6" straight 4 11. Metzbaum scissors 9" curved 1 12. Sim's straight scissors 8" 1 13. Kidney tray 500 ml 1 14. Doyne retractors 15. Gallipots 150 ml 2 16. Wrigley's outlet forceps pair 1 17. Needle holder 7" 1 18. Needle holder 9" 1 19. Baby Cord clamps 1		6

		20. Greenarmytag forceps 4 21. Long Artery forceps 9" straight 2 22. Long Artery forceps 9" curved 4														
8	Portable OT Lamps with four reflector	As for surgical	2													
9	ANESTHESIA MACHINE	As in surgical	1													
10	UPS 4 IMPAIR WITH BATTERY		4													
11	ULTRASOUND MACHINE	As for radiology	1													
12	VACUUM EXTRACTOR	<p>FEATURES:</p> <ul style="list-style-type: none"> User-friendly design to fulfill the quality standard requirement. Ideal for use in operation theater room or general wards providing an efficient performance for most procedures of suction environment such as suction biopsy, surgery, endometrial curettage, obstetric and abortion etc. Dial regulate control knob to your desired vacuum flow rate from MIN to MAX capable of sustaining sufficient vacuum for most suction environment. Built-in vacuum gauge with a range from 0-760mmHg. Choice of portable type or mobile type with 4 anti-static wheels to suit your purpose. Two autoclaveable glass bottles each has 1000cc capacity graduated by mm incorporating over-flow protective device. Option for bacteria-retentive filter to prevent dispersal of bacteria aerosols into the environment. Comes with safety device for foot switch. <table border="0"> <tr> <td>PUMP</td> <td>Oil-Less Piston</td> </tr> <tr> <td>WATTS</td> <td>150</td> </tr> <tr> <td>CYLINDER</td> <td>Single</td> </tr> <tr> <td>AIRFLOW</td> <td>38LPM</td> </tr> <tr> <td>MAX VACUUM</td> <td>680mmHg (906mmHg)</td> </tr> <tr> <td>STANDARD</td> <td>CE mark</td> </tr> </table> <p>Standard Accessories:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 2 x Glass collection bottles 1000cc. <input type="checkbox"/> 1 x Foot Switch. <input type="checkbox"/> 1 x Silicon tubing. <ul style="list-style-type: none"> Suction cup 	PUMP	Oil-Less Piston	WATTS	150	CYLINDER	Single	AIRFLOW	38LPM	MAX VACUUM	680mmHg (906mmHg)	STANDARD	CE mark	1	
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Alarms

Audio visual alarms, Alarms history can display the last 20 alarms; each alarm sound is printed during cycle execution.

Built in printer

The built in printer for cycle documentation includes: date and time with hospital name, lot number and operator name, selected cycle, parameters values in different cycle periods that can be programmed as per customer requirements, phase by phase display, total cycle time and cycle results if valid or invalid as well as printing some operators instructions. In case of any alarm during cycle operations, everything is registered and printed.

Steam Generation

(SV): Steam to steam converter to generate good quality of steam from bad quality of steam using heat exchanging facility.

The steam generator is manufactured in stainless steel AISI 316 L the steam to steam converter is manufactured using stainless steel 316L.

Vertical Sliding door (s)**Water distiller with capacity of 5 Lit/ hour****Single Safety cloure**

- No cycle start or steam inlet until checking that door(s) are tightly closed.
- For operator safety: door closure is stopped if an obstacle is found in the closure way in automatic door version.

Technical Specifications

- Steam Sterilizer. Horizontal type
- Capacity 100 liters or above.
- Chamber (W x H x D mm): 320 x 320 x 1000
- Inner chamber from Stainless steel AISI 316 Ti (best material tp resist corrosion), non magnetic or 316L Stainless steel material
- Double wall chamber
- Automatic control for sterilization cycles
- Built in steam generator made from stainless steel AISI316L with pressure and temperature gauges
- Safety valve and low water cut off valve
- Sterilization cycles at: 121C°C / 134°C., cycles as follows: textile cycle: 134C, instrument cycle 134C, rubber cycle 134C, flash cycle 134C, Prion cycle 134C, Leak test cycle,
- Bowie Dick test cycle, up to 60 programmable cycles
- Working pressure 1.0-2.5 Kg/Cm².
- One removable shelf
- FDA/ CE marked
- Mild Steel robust painted stand minimum 2½ ft high
- Steri-gauge / sterilization indicator tape rolls 05 nos.
- 220V, 50 Hz operated, power cable with plug / adopter to match local electrical sockets

		<p>Accessories:</p> <ul style="list-style-type: none"> • Electric air compressors • Set of baskets, • internal trolley, <p><u>MAKE: USA, JAPAN, GERMANY, ITALY.</u></p>																																																																																									
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17	<u>FETUS</u> <u>HEART</u> <u>DETECTOR</u> <u>Sonic AID</u>	<u>SPECIFICATIONS</u> <ul style="list-style-type: none"> • Digital Heart-rate display. • Auto correction. • Rechargeable batteries. • Probes can be gas sterilized or sheathed. • Built-in speaker. • Small hand-held size. • Water proof probe. • Personal head set • Hand-held/Counter Top • Built-in speaker • Probe frequencies:3Mhz OB • Automatic Shut Off • LCD Display • Rechargeable • Batteries: Rechargeable <p><u>MAKE: USA, JAPAN, GERMANY</u></p>	3	
18	<u>SUCTION</u> <u>MACHINE</u> <u>HEAVY</u> <u>DUTY</u>	<u>SPECIFICATIONS:</u> <ul style="list-style-type: none"> • This oil-less type system is free from oil evaporation even after long use. • Its slim design enhances efficient space utilization in diagnosis and operation rooms. • The auxiliary bottle and the auto stopper prevent any dirt form entering the pump. • The displacement rate is 50L/min, reaching the highest output within the shortest time possible. • The motors and pumps are incorporated into one unit, offering noiseless, silent operation. • The check valve maintains the vacuum pressure for the time being during surgery or child delivery even if a power outage occurs. • The suction bottle is made of plastic (P.C), • Suction bottle (made of PC): 3,000cc x 2ea • Max. vacuum pressure: 740mmHg ± 10mmHg • Vacuum pump: Piston type oil-less pump • Motor: Single phase motor 0.25kW • Displacement: 50L/ min. ± 10L/min • Wheels: 2" rotary wheel x 4ea • Voltage: ac220v, 50/60Hz • Power consumption: 250W • Backflow prevention: Auxiliary bottle (float type) <p><u>Accessories:</u></p> <ul style="list-style-type: none"> • Foot switch: 1ea • Suction tip: 1ea 	2	

		<ul style="list-style-type: none"> • Suction bottle: 2ea • Ground cable: 1ea • Silicone hose (2m): 1ea • Fuse(10A): 2ea <p><u>MAKE: USA, JAPAN, GERMANY</u></p>																																																																				
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		Transvaginal / Transrectal Probe Trans-oesophageal Echo – Cardiographic probe (optional)		
		<p><u>DIGITAL COLOR DOPPLER ULTRASOUND SYSTEM</u> color doppler ultrasound system with fully digital beam former having 2d/m-mode, color & pw doppler having facility of hprf doppler with a high resolution imaging doppler signal quality system to be upgradeable to cw doppler.</p> <p>1) <u>B-MODE SPECIFICATION :</u></p> <p>A) scan angle variable in four steps. b) viewing depth: 24cm or more (both in b&w and color). F) frame rate: 200 f/sec or more. G) built in cine loop with ability to vary reverse and slow motion display; internal memory 500 color images or more. H) real time and freeze image magnification at least 8x or more w panning for real, freeze and memorized images.</p> <p>2) <u>M-MODE SPECIFICATION :</u></p> <p>A) magnification: x2 or more. B) sweep speed: slow, medium, fast. D) color display of m-mode.</p> <p>3) <u>D-MODE SPECIFICATION :</u></p> <p>F) pulse-wave doppler measurable velocity range. G) measureable velocity range: 4.5m/sec or more H) must have doppler beam steering and bi-directional stereo-audio I) colorized spectrum display. J) auto doppler trace on live mode to analyze peak systolic and diastolic flow.</p> <p>4) <u>COLOR DOPPLER MODE SPECIFICATIONS :</u></p> <ul style="list-style-type: none"> - pw doppler must be continuous steerable in the color blood flow image mode in real time. - simultaneous display of “b” & “bdf” mode ability to show low blood flow area using b/w image data only so as to avoid color smudging and high spatial resolution. - 2d image with color, pw doppler. - windows based system for easy usage with programmable control panel keys. - tissue harmonic imaging with two th frequency. - power doppler. - triplex mode for simultaneous display of color b/m and d-m 		

		<p>displays.</p> <ul style="list-style-type: none"> - 360° degree image rotation. - 172 db system dynamic range or more. <p>5) <u>STANDARD PROBES :</u></p> <ul style="list-style-type: none"> - 3 to 6 mhz multi frequency convex probe. - 6 to 11 mhz multi frequency linear probe. - 4 to 7.5 mhz triple frequency endovaginal probe. <p>5) <u>OPTIONAL</u></p> <ul style="list-style-type: none"> - Panoramic viewing softwear - 3- D Advance in color and gray scale - UPS 2 KV (Imported) <p>6) <u>SYSTEM COMPLETE WITH FOLLOWING FACILITIES AND ACCESSORIES:</u></p> <ul style="list-style-type: none"> - 15-inches or moor non interlaced color flat screen lcd tft monito - built in dvd recorder for image storage. <p>7) <u>MEASUREMENT PACKAGE :</u> to provide comprehensive software package for measurement distance, circumference, area, time depth, velocity, frequen heart rate, volummes, e.f., f.s., cardiac output, pressure gradier bio-metric tables, twin % stenosis, volume.</p> <p>8) <u>STANDARD RECORDING DEVICES :</u></p> <ul style="list-style-type: none"> - thermal paper printer with ten rolls of paper (black & white). <p>11) tissue harmonic imaging without contrast with t harmonic frequencies.</p> <p>12) <u>UPGRADEABILITY :</u></p> <ul style="list-style-type: none"> - system software must be upgradeable. - system should have the capability for the upgradation of telemedicine 		
22		<p>Ultrasound Machine with</p> <ol style="list-style-type: none"> 5. Convex probe for Adults 6. Convex probe for Paed 7. Linear probe for vascular examination 8. Videographic Printer <p><u>Ultrasound Machine</u> Fully digital Mobile Black and White Ultrasound System, with Digital Beam Former &</p>	1	

Tissue Harmonic Imaging

SPECIFICATIONS

Scanning Method : - Electronic Convex
- Electronic Linear

B-mode specifications:

Viewing depth : 0-24cm or more.

Display size : Upto 4x with PAN/Zoom

M-mode specifications:

M-mode display : Scrolling with 4 Speeds

DISPLAY MODES:

B/M Scan mode:

a) B(Single / Dual) (b) B/M (c) M

- 2-Active Transducer Connectors.
- At least 12" Black and White Monitor.
- Zoom after Freeze
- 360 DEG. DSC/Image Rotate.
- Probe Hanger.
- Image Memory Kit (100-Frames).
- Built-in CD Writer.
- Multi frequency Convex Probe with center frequency between 3 – 5 MHz.
- Multi frequency Linear Probe with center frequency between 5 – 7 MHz.
- Complete original Trolley Mounted System.:
- 8-steps selectable transmittal focus, Reception : Continuous Dynamic Focusing.
- Biopsy Lines System Software.
- Input/Output Composite Output Black & White, RS-232C, Ethernet.
- Gain: 62-100db, STC Switches 0-24cm, 8 steps.
- Image Processing, Dynamic Range, Echo Enhancement, Echo-Filter, Echo average & Post Process.
- B-Mode measurements: Distance 4-Channel, Angle 2-Channels Area 4-channel, volume, 4-channels.
- Auto annotation facility.
- Measurement Functions: Distance, Angle, Ratio, Histogram, Area/Circumference, B-Mode Profile, Slop Ratio Time, Speed, Biometric Tables for fetal growth measurements with trendgraphs.

Accessories:

- . B/W Thermal Printer with 50 Rolls
- . UPS 2 KV

		<p>. Gel : 20 Litre</p> <p>OPTIONALS:</p> <p>. Endo vaginal / Endo cavity Multi frequency Probe between 4 – 8 MHz</p> <p>. Endo rectal / Endo cavity Multi frequency Probe between 4 – 8 MHz</p> <p>. Biopsy Adopter for any Probe</p>		
		Equipment lits for LMH		
23	Ultrasound Machine with	<p>Convex probe for Adults</p> <p>Convex probe for Paed</p> <p>Linear probe for vascular examination</p> <p>Videographic Printer</p>		
		<p><u>1. Ultrasound Machine</u></p> <p>Fully digital Mobile Black and White Ultrasound System, with Digital Beam Former & Tissue Harmonic Imaging</p> <p><u>SPECIFICATIONS</u></p> <p>Scanning Method : - Electronic Convex - Electronic Linear</p> <p><u>B-mode specifications:</u> Viewing depth : 0-24cm or more. Display size : Upto 4x with PAN/Zoom</p> <p><u>M-mode specifications:</u> M-mode display : Scrolling with 4 Speeds</p> <p><u>DISPLAY MODES:</u> B/M Scan mode: a) B(Single / Dual) (b) B/M (c) M</p> <ul style="list-style-type: none"> - 2-Active Transducer Connectors. - At least 12" Black and White Monitor. - Zoom after Freeze - 360 DEG. DSC/Image Rotate. - Probe Hanger. - Image Memory Kit (100-Frames). - Built-in CD Writer. - Multi frequency Convex Probe with center frequency between 3 – 5 MHz. - Multi frequency Linear Probe with center frequency between 5 – 7 MHz. - Complete original Trolley Mounted System.: - 8-steps selectable transmittal focus, 		
				1

		<p>Reception : Continuous Dynamic Focusing.</p> <ul style="list-style-type: none"> - Biopsy Lines System Software. - Input/Output Composite Output Black & White, RS-232C, Ethernet. - Gain: 62-100db, STC Switches 0-24cm, 8 steps. - Image Processing, Dynamic Range, Echo Enhancement, Echo-Filter, Echo average & Post Process. - B-Mode measurements: Distance 4-Channel, Angle 2-Channels Area 4-channel, volume, 4-channels. - Auto annotation facility. - Measurement Functions: Distance, Angle, Ratio, Histogram, Area/Circumference, B-Mode Profile, Slope Ratio Time, Speed, Biometric Tables for fetal growth measurements with trendgraphs. <p>Accessories:</p> <ul style="list-style-type: none"> . B/W Thermal Printer with 50 Rolls . UPS 2 KV . Gel : 20 Litre <p>OPTIONALS:</p> <ul style="list-style-type: none"> . Endo vaginal / Endo cavity Multi frequency Probe between 4 – 8 MHz . Endo rectal / Endo cavity Multi frequency Probe between 4 – 8 MHz . Biopsy Adopter for any Probe 		
24	Complete Dental Unit with accessories	<p>Hand Pieces Ultrasound scalar Compressor</p> <p style="text-align: center;"><u>DENTAL UNIT</u></p> <p><u>1.Dental Unit Complete</u></p> <p>Comprising of:- Dental Unit Chair mounted fully motorized and electrically operated</p> <ul style="list-style-type: none"> • Air turbine high speed (Make Japan) • Air motor (3 in 1) Make Japan • Triple syringe • Scalar Piezzo type (Japan) • Dental Light • Automatic Cup filler • X-ray film viewer • Fiber Glass instrument Tray with S.S. lid. • Cotton holder 	1	

- Waste receptacle
- Oil free Compressor

Assistant Unit:-

- Cuspidor bowl with flush system (spittoon)
- Saliva ejector
- High Power Suction system (Air operated)

Triple Syringe

Dental Chair:

- Fully automatic motorized Hydraulic chair electrically Operated, **6 position**, operated on 220V / 50 Hz
- Motorized motion to raise / lower the seat and back by electro hydraulic system.
- Automatic Back to Zero Position
- Equipped with safety cut out device
- Adjustable head rest forward/ backward and up /down movements
- Comfortable arm rest, right arm swings in / out for patient ease.
- Smooth seamless upholstery in a large selection of colors.

Chair movement is smooth and silent through solenoid valve 12 / 24 volts for safety

Dental Light:

Day light Shadow less dental light with halogen lamp. The light is well balanced and adjustable to different heights with variable horizontal and inverse movements.

Easy bulb replacement

Doctor's Tray:

Unit has 4-tubings (Borden 2 holes). It is moveable over a patient through swing in / out flexible self supporting balance arm. Fiber Glass instrument tray covered with stainless steel Ltd, Cotton Holder and waist receptacle. Water on / of Toggle switch and flow control Air / water regulator for hand pieces and triple syringe. Rectangular air pressure gauge. X-ray viewer.

Cuspidor unit:

Water outlet services with junction / utility box. Equipped with automatic and manual cop filler. Single piece spittoon with solid collector bowl flush automatic and manual. Triple syringe. Saliva ejector and high power suction (Air operated)

Dentist Stool:

(Gas operated) Seat Shock absorbing, adjustable at any height by lever control. Anatomically designed back rest for maximum lumber support. Durable vinyl upholstery. Seat with back rest rotates freely 360deg. Mobile Base on 5-castors, smooth movement on any floor surface. Foot supporting ring with adjustable height

1. Dental Chair Unit, Complete:

- Dental Chair:
 - Chair base
 - Back rest
 - Headrest: push headrest in or pull it out to suit the patient height. Bring the headrest to the desired position.
 - Armrest: easier for the patient to get into dental chair, the arm rest can be swiveled upward.
 - Seat adjustment control

- Unit base:
 - Supply element: connection of electric (110/220 volts, 50/60Hz)

Water	pressure:	2.5	-	6bar
Air	pressure:	5.2	-	7bar
Suction	air:	≥ 65mbar	at	inlet

Waste water drainage

- Main fuse
- Main switch

- Unit body w/ Patient Parts:
 - Spittoon
 - Tumbler filler
 - Central control is housed in the unit body Pressurized water bottle
 - Footswitch controller

- Assistant elements:
 - Three function Syringes
 - Suction tubing
 - Comfort keypad and display
 - Saliva ejector
 - PolyLux handpiece

- Dentist elements:
 - Three function Syringe
 - Keypad and display
 - Locking brake
 - Compact X-ray viewer
 - Tray support
 - Scaler

		<ul style="list-style-type: none"> ○ Alternatively intra Lux motor Turbine • <u>Keypad Functions:</u> <ul style="list-style-type: none"> ○ Group A: <p>Dental chair up or automatic position Dental chair down or automatic position (rinse position) Backrest up or automatic position Backrest down or automatic position Last position or automatic position</p> ○ Group B: <p>Flushing of spittoon viewer Tumbler filler Cold light at the instrument Spray selection at the removed instrument Motor reserve pre-selection treatment light ON when instrument set down Dental chair plate safety switch</p> • <u>Dental Chair/Foot Control:</u> <ul style="list-style-type: none"> ○ Foot control switch for chair up, down, backrest up, backrest down, load position automatic operation <p>Dental Unit Foot Control</p> <ul style="list-style-type: none"> ○ Switch for foot control "ON" of the unit, spray indication, ccw/cwmotor operation • <u>Dental Light:</u> <ul style="list-style-type: none"> ○ The Lighting unit has removable (autoclave-able) handles ○ Light output of 25000 lux, highlight performance fan cooled bulb ensures optimum illumination that is indistinguishable from natural daylight. • <u>Dental Stool:</u> <ul style="list-style-type: none"> ○ Doctor Stool <p>Cast aluminum base with five casters Seamless upholstery Integral gas cylinder for height adjustment Two way adjustable lumbar support Seat height range 18.0 inch - 25 inch (470mm-635mm)</p> 		
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		<p>○ Assistant stool:</p> <p>Cast aluminum base with five caster Seamless upholstery Integral gas cylinder for height adjustment Height adjustable torso support</p> <p>Height adjustable foot ring Seat height range: 22 inch - 29 inch (572mm-737mm)</p> <p><u>Dental Scaler Unit:</u></p> <ul style="list-style-type: none"> • Titanium hand piece for cool and long life operation • Powerful scaling for the most stubborn stains and calculus • No heat generation of hand piece even under persistent use • User control of delivered power and water supply • Equipped w/endodontics function providing easy and rapid root canal enlargement and treatment • Standard accessories: Hand piece, 3 tips, torque wrench, foot switch, power cord and hose • Output frequency: 29khz, Delivered power: 20 watts, Hand piece cable: 2.5m • Mains supply: 100 - 240volts, 50/60Hz <p><u>Autoclave Unit, Dental:</u></p> <ul style="list-style-type: none"> • Capacity 17 liters (Bench top) • Microprocessor management and digital display • Automatic functioning • Thermodynamic initial vacuum • Thermical drying system • Fully automatic chamber water filling and safety mechanism <p><u>Mini auto Clave</u></p> <ul style="list-style-type: none"> • Microprocessor Controlled • Digital Display of Temperature and Sterilization time • Sterilization time : 1 to 99 minute • Sterilization Temperature : 101 to 121 Degree C • Chamber : Stainless Steel • Capacity : 40 liter <p>220 V / 50 Hz</p>		
24	<u>BINOCULAR MICROSCOPE</u>	<p><u>Technical Specifications:</u></p> <p>Head: Compensation binocular head with</p>	1	

		<p>interpupillary distance 55-75mm rotates 360 and lock in place with thumb screw.</p> <p>Coated Optics: Anti glare, color correction, anti fungal eyepieces.</p> <p>Eye piece: WF 10x</p> <p>Objectives: DIN Standard Achromatic 4x, 10x, 40xR, 100xR (oil), anti fungal</p> <p>Nose piece: Four hole standard</p> <p>Magnification: With 10x eyepieces, standard magnification is 40x, 100x, 400x and 1000x oil.</p> <p>Stand: Sturdy cast metal frame with unique polymer accent panels, designed to provide stability while dissipating bulb heat.</p> <p>Base: Stable and vibration free.</p> <p>Condenser: Features of focusable N and A.1.25 Abbe condenser with port for optional simple phase contrast annulus insertion. Focusable for concentrated or defused lighting with rack and Pinon movement.</p> <p>Focusing: Smooth extra large graduated coaxial coarse and fine focus coarse with tension adjustment to eliminate stage drift. Adjustable to your personal preference.</p> <p>Stage: Built in mechanical stage with low position coaxial X-Y controls, spring loaded slide holder.</p> <p>Illumination: Features a 6v/20watts halogen light source for consistence white bright</p> <p>light. Variable intensity rheostat wheel is located on the left side of the base.</p> <p>Electrical: 110V60htz – 240V/60htz, all UL/CSA approved.</p> <p>Iris Diaphragm: Features adjustable IRIS with metal leaf overly designed.</p> <p>MAKE: USA, JAPAN, GERMANY.</p>		
25	<p><u>BLOOD BANK REFRIGERATOR</u> <u>OR</u></p>	<p><u>Technical Specifications:</u></p> <p>Auto condensate evaporation system Capacity: above 700 liters / 430 bags Temp 2°c to 10°c 230v / 50hz Cfc/ hcfc free Single transparent heated dual-pane insulated glass door removes fogging & condensation 6 pull-out stainless steel drawers, adjustable L.e.d. digital temp display / lower & upper chamber 1/3 hp air-cooled 4000 btu r134a non-cfc 7-day temp. Recorder w/back up battery Audio/visual alarm/power failure</p>		1

		<p>Fin/tube forced air condenser/evaporator 1 fluorescent light Recorder chart paper Exterior & interior made of galvanized steel with bacteria resistant powder coated exterior</p> <p>Make: USA, Japan, and Germany.</p> <ul style="list-style-type: none"> • Compact Unit • 8 cu. ft. to 10 cu. ft. • Two Stainless Steel Drawers and with convenient flat counter Surface • Dual Automatic controls and maintain cabinet temperature 2°c to 8°c centigrade • Automatic off cycle defrost • Neoprene thermo-break seat • Audio/visual temperature monitor • Condensate evaporator • Included front, sides, top and interior or unit are stainless steel • Back and bottom are galvanized steel • Power supply: 220volts, 50/60hz 																								
26	<p><u>AUTOMATED HEMATOLOGY ANALYZER</u></p>	<p>3-Part Differentiation of WBC: 20 Parameter + 3 Histogram. 2 Counting Mode: whole blood and prediluted. Throughput: 60 Samples per Hour. 10 or more TFT Color LCD with Touch screen. Built-in Thermal Recorder. Up to 50,000 samples result (including Histograms) can be Stored. Multi-Language software available on request.</p> <p><u>Technical Specifications:</u></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 45%;">Parameters</td> <td>WBC, LYM#, MON# GRA#, LYM%,</td> </tr> <tr> <td>MON%</td> <td>GRA%, RBC, HGB, MCHC, MCH, MCV,</td> </tr> <tr> <td>RDW-CV.</td> <td>RDW-SD, HCT, PLT, MPV, PDW, PCT, P-</td> </tr> <tr> <td>LCR</td> <td>And Histograms for WBC, RBC and PLT</td> </tr> <tr> <td>Principle</td> <td>Electrical resistance for counting WBC,</td> </tr> <tr> <td>RBC and PLT</td> <td></td> </tr> <tr> <td>Sample Volume</td> <td>Prediluted: 20µL; Whole Blood: 9.8 µL</td> </tr> <tr> <td>Aperture Diameter</td> <td>WBC: 80µm;RBC: 50 µm</td> </tr> <tr> <td>Throughput</td> <td>60 samples per hour</td> </tr> <tr> <td>Display</td> <td>Large Color LCD with touch screen</td> </tr> <tr> <td></td> <td>Resolution: 800x600</td> </tr> </table>	Parameters	WBC, LYM#, MON# GRA#, LYM%,	MON%	GRA%, RBC, HGB, MCHC, MCH, MCV,	RDW-CV.	RDW-SD, HCT, PLT, MPV, PDW, PCT, P-	LCR	And Histograms for WBC, RBC and PLT	Principle	Electrical resistance for counting WBC,	RBC and PLT		Sample Volume	Prediluted: 20µL; Whole Blood: 9.8 µL	Aperture Diameter	WBC: 80µm;RBC: 50 µm	Throughput	60 samples per hour	Display	Large Color LCD with touch screen		Resolution: 800x600	1	
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		<p>Alarms</p> <p>Input/ Output interface</p> <p>Printout</p> <p>Operating Environment</p> <p>Power requirement</p>	<p>Error messages</p> <p>RS-232, USB, LAN, keyboard and mouse</p> <p>Thermal recorder, 55mm width paper, various printout formats, external printer optional</p> <p>Temperature: 16°C-35°C: Humidity: 10%-90%</p> <p>AC 100V – 240V, 50-60±1Hz</p>		
27	Centrifuge, Bench Top	<ul style="list-style-type: none"> • Compact Unit, Versatile • Enable to use as Micro-Hematocrit Cyto centrifuge, included accessories • Enable to use standard tube sizes • With sixty minutes timer • Display for time and speed • Up to 12000 rpm enables to change by steps • Automatically shut off the unit if sample load is not properly balanced • Auto-dynamic Electric Braking • All metal cabinet • Exterior backed enamel finish • Guard bowl Stainless Steel • Power Supply: 220V AC, 50Hz or 60Hz <p><u>4.CENTRIFUGE ELECTRIC</u></p> <p>Technical Specification:</p> <ul style="list-style-type: none"> • Bench top centrifuge machine with Angle rotor • Brushless motor • Noiseless and vibration free (Under 60db) • Maximum speed 500-6,000 rpm • Max Rcf 3800gm • Digital control of Timing up to 99min • Digital display of speed, timing • Rotor Imbalance detection • Lid safety interlock • 12 x 15ml tube, fixed angle rotor • ADAPTORS 5-10ml • ADAPTORS 2- 4.7ml • 220V, 50 Hz operated, power cable with plug / adopter to match local electrical sockets <p>Make: USA, UK, Germany, JAPAN.</p>			

		<u>Demand for Paedriatic Unit</u>		
28	<u>Baby Incubator</u>	<ul style="list-style-type: none"> • Infant Incubator with standard hood • Both servo (automatic) control and manual control system • Digital display of parameters • Measure Skin temperature and Air Temperature skin temperature. • Trendelenburg and fowler position of mattress tray with inbuilt X-Ray cassette holder. • Humidity control system, • Display of humidity level • Alarm for Motor-fan failure through a visible indicator LED. • Safety hood stopper, high quality micro filter are provided. • Storage unit with two doors and shelf on four castors. <p>▪ Probes for Air and Skin. Bacteria Filter</p> <p><u>Make:- USA,EEC,UK,Brazil,Korea,Japan</u></p>	6	
29	<u>.Nebulizer</u>	Fine and uniform Nebulizer with bacteria filter,ultra fine mist of particles from 1 to 5 microns. Germ free inhalation circuitry,incorporating two steps filters	6	
30	<u>Baby Cot</u>	Moveable trolley with removable top. Includes Raxin covered Mattress.	10	
31	PHOTOTHERAPY UNIT	<p>SPECIFICATIONS:</p> <p>Lamp:</p> <ul style="list-style-type: none"> · 6 fluorescent tubes(blue and white): :04 blue and 02 white · Wavelength: 420-520nm. <p>Light Cabinet:</p> <ul style="list-style-type: none"> · Tubes fitted in a steel frame · A spare tubes one set · Tilttable stand/head. Preferred angle of adjustment: 0-30 degrees · Fully adjustable both vertically and horizontally · Mobile, on casters. <p>Hour Meter:</p> <ul style="list-style-type: none"> · Indicates time total hours of use. <p>General:</p> <ul style="list-style-type: none"> · Power requirements (AC): 220V, 50 Hz operated, power cable with plug / adopter to match local electrical sockets · Complete with all operational accessories. · CE certified <p><u>MAKE: USA, JAPAN, GERMANY, ITALY, AND BRAZIL</u></p>	6	

		<p><u>4.Photo therapy Unit</u></p> <ul style="list-style-type: none"> · 6 fluorescent tubes (blue and white): 04 blue and 02 white · Wavelength: 420-520nm or better. · Tubes fitted in a steel frame · A spare tubes one set · Tilttable stand/head. Preferred angle of adjustment: 0-30 degrees · Fully adjustable both vertically and horizontally · Mobile, on casters. · Indicates time total hours of use. · Power requirements (AC): 220V, 50 Hz · Complete with all operational accessories. <p><u>Make:- USA,EEC,UK,Brazil,Korea,Japan</u></p>		
32	<u>Oxygen Concentrator</u>	<p>Specification:</p> <p>Performance: Flow Rate Variable 11/42 – 5 LPM O2 Concentration 95% to 92% @ 0.3 LPM Flow 95% to 90% @ 3-5 LPM Flow O2 Pressure: 5 PSIG (37.9 Kpa) Minimum</p> <p>Patient Controls: Control – panel – mounted on / off switch Control – panel – mounted rest switch Recessed, large, low resistance flow Control knob Restriction-sensitive flow meter</p> <p>Alarm Power failure O2 Concentration Irregular Pressure</p> <p>Make:- USA,EEC,Japan,UK,</p>	2	
33	<u>Humidifier</u>	<p>Adjustable exit steam Moisture sensors for adjusting required moisture. Transparent water container. Easy to clean thermo steam maker parts. Applicable in all living environment to create desirable atmosphere for children. Built-in circuit breaker in time of dry up GS International Standard. Must have cool body all through the operation. Humidifier should have thermo steamer element and since it has Teflon resistant coating the parts wouldn't be in contact with water and cleaning operation is very easy.</p>	2	
34	Resuscitator,	Silicone Resuscitator w/ exceptional bag re-expansion and superior feel	2	

	<p>Adult: Resuscitator, Pediatric: 7.</p> <p>Ambu Bag</p>	<p>for lung compliance</p> <ul style="list-style-type: none"> Fully autoclavable bag and Adult face mask (2 sets) Include with Oxygen Reservoir bag (2600ml), Silicone extension tube and complete with patient valve Silicone Resuscitator w/ exceptional bag re-expansion and superior feel for lung compliance Fully autoclavable bag and Pediatric face mask (2 sets) Include with Oxygen Reservoir bag (2600ml), Silicone extension tube and complete with patient valve <p>Auto cleavable silicone resuscitor for baby consisting of 600ml(approx) bag,paient valve with regulator, mask size 1,2,3,airway size 1,2,reservoir bag 2 liter capacity. Complete in carring case.</p>		
35	<u>Ophthalmosc</u> <u>ope</u>	<p>Rechargeable handle rheostat with on-off switch for variable power. Safety switch to prevent accidental draining of batteries with nickel cadmium rechargeable batteries.</p> <p>5 apertures –25 to 40 lenses illuminated lenses dial otoscope with reversible spatula 4 different size 2.5-5 cm.</p> <p>2.5 V wall transformer for ophthalmoscope handle and heard 220-250 volts 2.5 desk charger.</p>	2	
36	<u>BLOOD GAS</u> <u>ANALYZER</u>	<p><u>SPECIFICATIONS:</u></p> <p>Easy blood gas analyzer 220v English version Reagent module 800ml Ph electrode Pco2 electrode Po2 electrode Reference electrode Pump tubing Red test dye 50ml Printer paper 5 rolls Daily cleaning solution 50ml Sampler (probe wiper, sample probe) Troubleshooting kit Quality control kit – level.1 (30 ampules) Quality control kit – level 2 (30 ampules) Quality control kit – level 3. (30 ampules) Easy blood gas service manual</p> <p>Make: USA, GERMANY, JAPAN.</p>	2	

Section – IV BID SUBMISSION FORM

(Should also be submitted on company letter head too along with specification)

To

The Chief Executive/Principal

DHQ Teaching Hospital and W&C/LM Hospital

Kohat.

Enclosed please find the offer to execute the contract of supply of **Equipments** for DHQ Teaching Hospital and W&C/LM hospital, in accordance with the conditions of agreement accompanying this bid for the price of Rs. (Amount in figures) (Amount in words). We accept to supply the items mentioned in the supply order within days on the rate approved by the purchase committee. This bid and your written acceptance will constitute a binding contract between us. We understand that you are not bound to accept the lowest or any bid you receive. We hereby confirm that this bid complies with the validity of the bid required by the proposal documents.

1. Name of Supplier:

2. Address of Supplier:

3. Phone Number of Supplier:

4. Fax No.

5 Name of the authorized person:

6 Signature:

7 Designation of authorized person:

8. Stamp of the Supplying Agency:

9. Dated:

Section – V FORM OF AGREEMENT/CONTRACT

This agreement made on this day of between the Principal/Chief Executive , (herein after called the Purchaser) of the one part and (herein after called the Supplier) of the other part. Whereas the Purchaser invited bids for certain equipment viz and has accepted a Bid by the Supplier for the supply of those equipments/Machinery / Goods in the sum of Rupees (hereinafter called the Contract Price. NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The following documents shall be deemed to form and be read as construed as part of this agreement viz:
 - a. The purchasers Notification to the Supplier of Award of Contract (letter of acceptance);
 - b. The form of Bid and the price schedule submitted by the Supplier;
 - c. APPENDICES to BID.
2. The successful supplier shall be bound to supply the required items at approved rates within 30 days of the receipt of supply order for local items and 90 days for imported items. In case of delay in supply within stipulated time the penalty @ 2% per day will be imposed for first 15 days and thereafter@ 4% per day in the subsequent period.
3. The item if found sub-standard or if not according to specification shall be replaced free of cost by the Supplier.
4. The supplier shall be bound to deliver and install the approved equipments at the Site (Kohat) of installation at their own cost. However, the pre-requisite for the installation will be provided by the Hospital Administration.
5. The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate the equipment / machinery delivery upon fulfillment of all the obligations stipulated in the Contract. The payment to the supplier will be made by Purchaser after installation and inspection by technical committee and satisfactory report by end-users.
6. The Supplier is responsible for all taxes according to the laws of the Islamic Republic of Pakistan and Khyber Pakhtunkhwa Province.
7. The Supplier shall be responsible for deduction of 1% stamp duty while executing the contract as per Provincial Assembly Notification No. PA/NWFP/legis-1/2001/13723 dated 7/07/2007 regarding finance bill article No.22 (A) (B).

Warranty:

1. The Supplier warrants that all the good are new, unused and of the most recent or current models and that they incorporate all recent improvements in design and materials.
2. The Supplier further warrants that the goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials and workmanship, under normal use in the condition prevailing in Khyber Pakhtunkhwa.
3. The warranty shall remain valid for twelve (12) months after the goods have been delivered to and accepted by the Purchaser.
4. The Principal/Chief Executive KIMS shall give Notice to the supplier stating the nature of any such defects together with all available evidence thereof; promptly following the discovery thereof.
5. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such

defects. Upon receipt of such Notice, the supplier shall, within fifteen (15) days expeditiously replace the defective goods or parts thereof, at no cost to the Purchaser.

If having been notified the Supplier fails to remedy the defects within the stipulated period, the purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the suppliers risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

6. The KIMS Technical / Inspection Committee of University shall have the right to inspect / test the goods to confirm their conformity to the contract specification. The inspection and test may be conducted in the premises of at KIMS (KDA town ship-Kohat). The supplier shall provide all reasonable assistance, including access to drawings and production data, at no change to the Purchaser.
7. The purchaser may reject any equipment / machinery that fail to pass any test and / or inspection on do not conform to the specifications. The supplier shall replace the rejected equipment at no cost to the Purchaser and shall repeat the test or inspection.

Patent Indemnity: The Supplier shall, subject to the Purchaser compliance with the condition of contract indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands losses damages, costs, and expenses of any nature including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent utility model, registered design trade mark copyright, or other intellectual property right registered or otherwise existing at the date of the contract by reason of;

- a. The installation of the goods by the supplier or the use of the goods in polestar where the site is located.
- b. The sale in any country of the products produced by the goods.

Termination: Termination for default:

The Purchaser, without prejudice to any other remedy for breach of contract by notice of default sent to the supplier, may terminate the contract in whole or in part.

I. If the supplier fails to deliver any or all of the goods within the period specified in the contractor.

II. If the supplier fails to perform any other obligation under the contract.

In the event the purchaser terminates the contract in whole or in part, the Purchaser may procure, upon such terms and in such manner as it deems appropriate Goods or related services similar to those undelivered or not performed, and the Supplier shall be liable to the purchaser to any additional costs for such similar goods.

a. If the supplier, in the judgment of the purchaser has engaged in corrupt and fraudulent practices in competing for or in executing the contract.

2. **Assignment:** The supplier shall not assign, in whole or in part its obligation under the contract.

Party – 1(KIMS) (Treasurer, KMU)

Party – 2 (The Supplier)

Name of Supplier:
Address of Supplier:
Phone Number of Supplier:
Fax No.
Name of the authorized person:
Signature:
Designation of authorized person:
Stamp of the Firm:
Dated:

Witness No. 1

Name:
Signature:
CNIC No:

Witness No. 2

Name:
Signature:
CNIC No:

Section – VI DELIVERY TIME

1. The successful supplier / firm will be bound to supply the required items within 30 days of supply order for the local items and 90 days for imported items.
2. The successful supplier will be bound to supply the required items at approved rates within 30 days of the receipt of supply order for local items and 90 days for imported items. In case of delay in supply within stipulated time then penalty @ 2% per day will be imposed for first 15 days and thereafter @ 4% per day in the subsequent period.

Section – VII QUALIFICATION CRITERIA

As stated in Section – II (Terms and Conditions/Instructions to Bidders)

Section – VIII BID EVALUATION CRITERIA

The awards of contract would be based strictly on the specification provided in the bidding documents and quality of the items and not only on the basis of lowest rates.

Section –I X BID VALIDITY

The price bid will remain valid up to 30-10-2013