

اجهزة شعاعية والتخدير والجراحة (عامة+ عظام وكسور + بولية) المراد توفيرها لدائرة صحة كركوك

المبلغ بالدينار العراقي	العدد	سعر المفرد بالدينار العراقي		تفاصيل الجهاز	ت
		رقما	كتابة		
	25			<p>Mobile Surgical Lights</p> <p>Application : Surgical lights illuminate the surgical site for optimal visualization of small, low-contrast objects at varying depths in incisions and body cavities</p> <p>LIGHT SOURCE, TYPE : LED</p> <p>Number of light heads : Single</p> <p>Number of LED s : Should be specified</p> <p>Volts : According to LED type</p> <p>Service Life, hr : $\geq 40,000$</p> <p>COLOR TEMPERATURE, K : 4,000-5,000</p> <p>Adjustable : YES</p> <p>COLOR RENDERING INDEX : ≥ 94</p> <p>R9 value : ≥ 90 (higher preferred)</p> <p>FIELD SIZE, cm</p> <p>Diameter : ≥ 16</p> <p>Depth : ≥ 80</p> <p>FOCAL LENGTH, cm : ≥ 65</p> <p>ILLUMINATION LEVEL, maximum lux at 1 m : $\geq 120,000$</p> <p>MOUNTING : mobile floor stand</p> <p>CONTROLS</p> <p>Dimmer : Yes</p> <p>Focus : Adjustable</p> <p>Field size : Adjustable</p> <p>On sterile handle : Yes</p>	.1

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				<p>ROTATION, ° : 360 VERTICAL ADJUSTMENT RANGE : ≥ 80 cm HEAT-TO-LIGHT RATIO, mW/m2.lx : ≤ 4 REFLECTOR MATERIAL : According to manufacturer STERILIZABLE HANDLE : Yes Light head diameter, cm : ≥ 50 Video camera: No Power supply - 220/240 VAC, 50/60 Hz - Three pin G type plug - ≥ 1 hours back up battery(s) with automatic charging and change over circuits</p>																	
		7		<p style="text-align: center;">Ligature (vessel sealing)</p> <table border="1"> <tr> <td>Output configuration</td> <td>Isolated output</td> </tr> <tr> <td>Cooling</td> <td>Natural convection</td> </tr> <tr> <td>Display</td> <td>Two (2) digital seven – segment displays</td> </tr> <tr> <td>Operating (Temperature/Humidity/Pressure)</td> <td>(10 to 40)°c / (15% to 95%) / (700 to 1060) millibars</td> </tr> <tr> <td>Warm up time</td> <td>If transported or stored at temperature outside the operating temperature range, allow ≤ one hour for the generator to reach room temperature before using</td> </tr> <tr> <td>Activation tone volume (adjustable)</td> <td>≥ 45dB</td> </tr> <tr> <td>Activation tone model</td> <td>1- Seal Mode 2- Macro bipolar mode 3- Bipolar mode</td> </tr> <tr> <td>Activation tone duration</td> <td>Continuous while the generator is</td> </tr> </table>	Output configuration	Isolated output	Cooling	Natural convection	Display	Two (2) digital seven – segment displays	Operating (Temperature/Humidity/Pressure)	(10 to 40)°c / (15% to 95%) / (700 to 1060) millibars	Warm up time	If transported or stored at temperature outside the operating temperature range, allow ≤ one hour for the generator to reach room temperature before using	Activation tone volume (adjustable)	≥ 45dB	Activation tone model	1- Seal Mode 2- Macro bipolar mode 3- Bipolar mode	Activation tone duration	Continuous while the generator is	.2
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					activated; changes to one short tone when seal cycle is complete		
					Alarm tone volume	65dB minimum	
					Alarm tone frequency	Clearly audible	
					Output waveform	Macro bipolar/Bipolar sinusoid, 100% duty cycle Seal sinusoid, pulsed	
					Frequency Leakage Low frequency (50-60)Hz	Source current, Patient leads, all outputs Normal polarity, intact ground < 10μA Normal polarity, ground open < 50μA Reverse polarity, ground open < 50μA Sink current at high line, all inputs < 20μA	
					Frequency Leakage High frequency (RF)	Bipolar ≤69mA	
					Power supply	220/240 VAC 50/60Hz, Three pin UK type plug, Voltage stabilizer and over current protection circuit	
					Other specification	Compatible design Heavy duty	
		1			Operating Microscope		.3
					Floor stand / fully digital / adaptable with neuronavigator system / having		

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				<p>fluorescent image guided facility / with data documentation utilities</p> <p>(1) Motorized zoom magnification.</p> <p>(2) Magnification from 1.5 x to 25 .0x.</p> <p>(3) Variable working distance from 200 mm (+/- 25 mm) to 550 mm (+/- 25 mm) through motorized multi focal lens.</p> <p>(4) Pair of wide-field eyepieces for spectacle wearers 10x, dioptric setting + 6D to 8D.</p> <p>(5) Ergonomic handles with buttons for motorized control of focus, zoom, axis movement, video control & still photography with programmable keys, Motorized mouth piece.</p> <p>(6) Facility for adjusting speed of the focusing motor to adapt for different magnifications.</p> <p>(7) (200-500)W xenon illumination with (200-300)W Xenon back up</p>	
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| | | | | <p>through fiber optic cable.</p> <p>(8) Inclunable binocular tube, inclinable over range of minimum 0-360 Deg.</p> <p>(9) Facility for spot illumination.</p> <p>(10) Floor stand with electromagnetic brakes with freedom of movement in all axes.</p> <p>(11) System should be compatible for neuronavigator, Heavy Duty.</p> <p>(12) Complete auto balance by push at one button, intraoperative auto balance.</p> <p>(13) Should have interface for integrated heads up display for monocular image injection from endoscope & MR/CT (PIP).</p> <p>(14) Intraoperative diagnostic ICG.</p> <p>(15) Stereoscopic co-observation attachment for second observer with tiltable eyepieces, minimum 0-180 Deg.</p> | |
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| | | | | | <p>(16) Integrated Dual Beam Splitter.</p> <p>(17) Integrated 3-Chip CCD camera with c-mount for connecting with the microscope.</p> <p>(18) Integrated Digital video recording facility with appropriate video editing software.</p> <p>(19) Diploscope (face to face attachment).</p> <p>(20) Full Multifunction footswitch.</p> <p>(21) Digital still camera for attachment with microscope.</p> <p>- The unit shall be capable of being stored continuously in ambient temperature of (-5to70) deg C and relative humidity of 10-95%.</p> <p>- The unit shall be capable of operating in ambient temperature of (1 -50) deg C and relative humidity of (10- 95) %.</p> <p>- Power input to be 220-240VAC, 50Hz.</p> <p>- Suitable smart UPS with maintenance free batteries for minimum one-</p> | |
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				hour back- up should be supplied with the system. - Not refurbished. - Floor stand with antistatic castors with total stop breaks.	
		1		<p>Scanning Systems, Ultrasonic, Portable, Urology, Duplex Penile Doppler</p> <p>APPLICATION : Penile examination for impotent, General urology & Endocavity (Endorectal) for prostate biopsy</p> <p>PROBE TYPES, MHz</p> <p>Linear array Yes (Range \geq 5-10 MHz)</p> <p>Convex array for urology Yes (Range \geq 3-5 MHz)</p> <p>Endorectal Yes (Range \geq 5-7 MHz) with needle guide</p> <p>SCAN MODES : B, M-mode, anatomic M-mode, CFM, power Doppler imaging, PW Doppler, CW Doppler</p> <p>CINE LOOP PLAYBACK Yes</p> <p>SCAN CONVERTER:</p> <p>Matrix size \geq 512 x 512</p> <p>Grayscale levels \geq 256</p> <p>SOFTWARE FEATURES:</p> <p>Digital calipers : Yes (an electronic measuring system to determined size of a scanned structure)</p> <p>Vascular analysis : Yes (measurement and analysis of peripheral vessels: comprehensive vascular scan)</p> <p>Other packages : Urology, Abdominal, , intraoperative, small parts</p> <p>IMAGE PROCESSING: Yes (manufacturer should specified by details)</p> <p>Real time or truscan , freeze & zoom should be available</p> <p>PREPROCESSING Yes</p> <p>POSTPROCESSING Yes</p> <p>HARMONIC IMAGING Yes</p>	.4

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				<p>IMAGE STORAGE 40 GB HD DICOM COMPLIANT Yes MONITOR, in ≥15 LCD ANNOTATION Yes OUTPUTS SVGA, Printer OTHER SPECIFICATION: Cart, Foot switch, penile holder and all required accessories for duplex penile examination (should specified) POWER REQUIREMENTS : 110/220 VAC, 50/60 Hz, Three pin (G type) plug SMART UPS : Yes or internal rechargeable battery with voltage stabilizer board or device</p>	
		12		<p style="text-align: center;">Portable Ultrasound Machine</p> <p>Scanning mode convex/Linear/Micro-convex Display modes B,B+B,B+M,M,4B ,B+2B,6B,12B Scanning depth 240mm Gray scales 256 Cine-loop ≥ 500 frames Image permanent storage ≥ 64 frames Image conversion up/down, left/right, black/white Local zoom 2 times both in real-time and frozen Measurement Distance, circumference, area, volume, EF rate, heart rate OB measurement BPD, GS, CRL, FL, AD, HC,AC, EDD, GA, FW Probe connector ≥ 3 Port PAL-D video out, USB 2.0 Monitor ≥ 15 inch Body marks ≥ 40 Wide application Abdominal, OB/GYN, urology, Doppler,</p>	.5

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				<p>cardiology, small parts examination, ...etc.</p> <p>Probes:</p> <p>Standard configuration(3.5MHz Convex,6.5MHz Transvaginal Convex)</p> <p>Optional configuration (7.5MHz Linear, 5.0MHz Micro-Convex, 4D convex, 7.5MHz Endorectal Linear, Video Printer, Biopsy bracket)</p> <p>Other specification:</p> <ol style="list-style-type: none"> 1.Full digital beam forming technology 2.Probe automatic identification 3.8-Segment TGC adjustment 4.Digital encoder knobs 5.Gama correction, histogram 6.Automatic report generation(Normal/OB) 7.Scanning angle adjustment 8. Level scanning depth adjustment 9.USB 2.0 For real-time picture uploading to PC 10.Biopsy guide available 11.Back-lit keyboard 12. Key Interface, Trackball unit(or touch pad) 13. 3D Static,4D real time 14. Color <p>Power Supply</p> <ul style="list-style-type: none"> - 220/240 VAC, 50/60 Hz - Over current & over heated protection circuit - Three Pin G type Plug - Voltage corrector/stabilizer circuit of (Input 160-260 V and output 220-240 V and 50 Hz) -UPS (Rechargeable battery) of suitable rating with voltage regulation and
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				spike protection for ≥ 60 minutes back up			
		18		<p style="text-align: center;">laryngoscope child (Pediatric)</p> <p><u>Macintosh Laryngoscope Set:</u></p> <ul style="list-style-type: none"> • Medical Tools Laryngoscope is simply specialized torches with a handle containing the batteries and a blade which holds the bulb. • The medical tools brand ensures that the item is safe for use in anesthesia/ resuscitation foe endotracheal intubation. • Macintosh type curved blades are available in dull finish hence reduce reflections handle use battery that last longer. • Superfine Workmanship, Ultimate precision Quality Blades. • All metal, Premium Quality, Stainless steel blades &Handles. • Low blade heel, full metal spatula Better landing area. • Always cool LED lamp, No heat related injections to patients. • Correctly formed Blade Tip- Smooth, Superior surface finish. • Super Strong, rigid & Reliable product performance. • Laryngoscope Set comprises of 4 blades No. 1,2,3,4 and a handle: <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 60%;">Blade*</td> <td>Working Length</td> </tr> </table>	Blade*	Working Length	.6
Blade*	Working Length						

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1	(neonate blade)	70 mm or the compatible
2	(infant blade)	90 mm or the compatible
3	(child blade)	108 mm or the compatible
4	(adult blade)	133 mm or the compatible

Technical Details:

- **Blades Material:** Non magnet Stainless steel.
- **Ultrasonic Cleaned:** Yes.
- **Lubricate:** No.
- **Polished:** No (but possible).
- **Sand -Blasted:** No (but possible).
- **Dull -polished:** Yes.
- **Gold plated:** No.
- **Sharp edged:** No.
- **Usage:** Left hand or right hand.
- **Tests preformed:** performance Test, sharp test.
- **Packing:** Individually packed.
- **QC Passed:** Yes.
- **Availability:** Available.
- The unit shall be capable of being stored continuously in ambient temperature of (-5to70) deg C and relative humidity of 10-95%.
- The unit shall be capable of operating in ambient temperature of (1- 50) deg C and relative humidity of (10- 95) %.

		3			Diagnostic Spirometers	.7
					Application : Used to measure the flow and volume of gas moving into	

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				<p>and out of the lungs during inspiratory and expiratory efforts</p> <p>PATIENT TYPE : Adult , pediatric</p> <p>CONFIGURATION : Tabletop / portable</p> <p>MEASUREMENT DEVICE Any</p> <p>Volume range, L : $\geq 0-5$</p> <p>Accuracy: 3%</p> <p>Flow range, L/sec : $\geq 0-10$</p> <p>Accuracy: 3%</p> <p>Bidirectional : Yes</p> <p>Calibration method : ≥ 3 L syringe</p> <p>DISPLAYS, TYPE : Any</p> <p>Data displayed : Actual results, predicted comparison, graphs, other options</p> <p>PLOTS</p> <p>Timed spirogram : Yes</p> <p>Flow-volume loop : Yes</p> <p>DATA ANALYSIS : Processor based</p> <p>User-entered data : Patient data</p> <p>Procedures/parameters : >40 different parameters including pre-/post</p> <p>Evaluated : bronchodilator comparison</p> <p>BTPS correction : Automatic</p> <p>Actual, normal, % normal report : Yes</p> <p>Predictive equations :ECCS, Knudson, NHANES III, Zapletal, others</p> <p>Respiratory status/diagnosis : Yes</p> <p>Serial testing : Yes</p> <p>HARD-COPY REPORT : Yes</p> <p>Formatted : Yes</p> <p>Size of plots : 8.5 x 11“, A4, others</p> <p>Type of printer : Integral and/or optional external any Windows</p>	
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				<p>Strip chart : compatible Paper : Yes Speed, mm/sec : Thermal Depends on printer DATA EXPORTS : Yes Export method : Built-in function, and/or any one or combination of (Serial, USB , RS232 or other optional) Export data format : According to manufacturer COMPUTER INTERFACE : Yes Modem available : Yes Operating system : Yes DATA MANAGEMENT Storage options : Hard disk, other optional Capacity : Unlimited $\geq 1,000$ patients, 64 MB Compact Flash STERILIZING METHOD : According to manufacturer (Autoclavable) DISPOSABLE PARTS : Mouthpiece and/or bacteria filter Power Supply - 220VAC ,50/60 Hz - Three pin plug (G type) - UPS for ≥ 1 hour back up power (optional) OTHER SPECIFICATIONS :Includes carrying case and predicted value calculator.</p>	
		6		<p>Nerve Detecting Sonograph(for nerve block)</p> <ul style="list-style-type: none"> ❖ Application: used for visualization nerve and monitoring the local anesthetic spread. ❖ Heavy duty, compatible design, Portable and light weight. ❖ Display: LCD. 	.8

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					<ul style="list-style-type: none"> ❖ Contain amounting options including video electronics standards association. ❖ Contain a stand for easier portability. ❖ Contain connectivity of: <ul style="list-style-type: none"> ○ ≥ 2 USB. ○ Ethernet port ○ Digital video interface (DVI). ❖ Contain USB storage formats. <ul style="list-style-type: none"> • MPEG4 • JPEG • EMF ❖ Compatible with MAC and PC formats. <ul style="list-style-type: none"> ✓ Imaging capability should include: ✓ Board band multi frequency imaging. ✓ 2D with tissue harmonic imaging. ✓ Color Doppler to locate the nerve. ✓ Color power Doppler. ✓ Sono MB (Multi- bean technology) ✓ Auto gain auto gain autogenic image optimization. 	
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				<ul style="list-style-type: none"> ❖ Should contain supporting peripheral devices. <ul style="list-style-type: none"> ✚ Video printers ✚ DVD record ❖ Sterile ultrasound gel. ❖ Nerve block kit containing sterile drape, skin needles extension tubing, and syringes of choice. ❖ Needle guide system. ❖ Linear transducer array with frequency 5-12 MHz with variable <ul style="list-style-type: none"> ○ 7MHz for structure deeper than 5 cm. ○ 10 MHz for structures between 3cm and 5 cm deep. ○ 12MHz for structures maximally 3cm deep. ❖ Power Requirements: <ul style="list-style-type: none"> ✓ 220/240 VAC, 50/60 Hz, Three pin G type plug. ❖ <u>Environmental requirements:</u> the equipment suitable for work in the climate conditions in Iraq in terms of temperature & humidity. 	
		9		<p>Electronic Nerve Stimulator (anesthesia)</p> <ul style="list-style-type: none"> • The Peripheral Nerve Stimulator and Locator should offers a comprehensive range of features for both nerve location during regional anesthesia and monitoring of neuromuscular block during general anesthesia and intensive care procedures. 	9

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| | | | | <ul style="list-style-type: none"> • Constant current generator. • Bright LCD monitor. • On/OFF button. • Dial to increase and decrease settings. • Controls : ➤ mode. ➤ Rate. ➤ Width. ➤ Intensity. <p>Pulse width: (10 – 500) u sec. adjustable</p> <p>Pulse repetition rate: (0.5- 150) Hz adjustable</p> <ul style="list-style-type: none"> • Supplied with : ➤ Safety plug. ➤ Leads should be clearly marked to avoid confusion as to which is cathode and anode. ➤ Soft storage case. ➤ Electrodes(needles & catheters). <ul style="list-style-type: none"> • Programmable - stores pulse combinations and sequences for use at the push of a button. • External Mode - Peripheral Nerve Stimulation:
Current output (programmable wide range). <p>Demand Stimulation Patterns:</p> <ul style="list-style-type: none"> ➤ Twitch. ➤ Train of Four. ➤ Double Burst Stimulation. ➤ Tetanus. ➤ Post Tetanic Count. | |
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- Repetitive Stimulation Patterns: 1 Second Twitch (1 Hz) .
- 12 Second Train of Four.

- **Internal Mode -:**

- Nerve Location:

Battery:

- **Rechargeable.**
- **Low battery alarm.**
- **≥ 5 hr. operation.**
- **Safety features like circuit disconnection alert, impedance.**
- **Alert, low battery and malfunction alert.**
- **Options: remote control, pen percutaneous nerve mapping.**

Power and environmental requirements:

- AC Adapter Power input to be 220-240VAC, 50Hz.
- the equipment suitable for work in the climate conditions in Iraq in terms of temperature & humidity.

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		18		<p>Video laryngoscope (glidescope) Application: facilitate tracheal intubation during general anesthesia or cardiopulmonary resuscitation or for procedures on the larynx or other parts of the upper tracheobronchial tree. Type : Rigid Mounting : Portable or Trolley or on IV stand Patient types : pediatric, obese or routine airways Blades : Curved size 3 , reusable , Titanium Optional : disposable Illumination : LED, High-intensity Camera : YES , Digital, High resolution Monitor : YES, LCD or TFT or better . full-color ≥ 1.7 inch Video cable : YES USB port : YES Power source : Internal battery , AC power 220-240VAC, 50Hz Accessories :</p> <ul style="list-style-type: none"> • Grasping forceps (foreign body). • Sterilization basket (for reusable type). 	10
		16		<p>(Infusion Pumps, Patient-Controlled Analgesic) Application : Give pain relief to post operative, obstetric, terminally ill, and trauma patients CONFIGURATION Tabletop : Yes PCA dose button location : On pump or bolus cord Pole mounting : Yes DISPLAY : LCD Data displayed : Dose, concentration, lockout interval, rate, patient requests, alarms PUMP CAPABILITIES Flow range : 0.1-999 mL/hr</p>	11

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				<p> Increments : 0.1 mL/hr Bolus dose : Yes Increments : 0.1-25 mL Loading dose : Yes Dose programmable : Yes Concentrations: 0.1-100 mg/mL KVO rate, mL/hr : Yes Accuracy, % : ±5 MRI compatible : Yes Fluid resistant : Yes Nurse call jack : Yes Bar-code reader : Yes SAFETY FEATURES : Lockbox, locking keypad, memory protection, tamper evident Free-flow protection : Yes Lockout interval range, min : ≤ 5-100 Accumulated dose limit : Yes Controls access : Key or security code RESERVOIR TYPE Volume capacity, mL : Any (≥30) Access : Key, lockbox SYRINGE-SIZE DETECTION : Yes ALARMS & INDICATORS Up/down occlusion : Yes Flow error Yes Air in line Yes System malfunction Yes Empty reservoir Yes Infusion near end Yes Low battery Yes </p>	
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				<p>Depleted battery Yes</p> <p>User prompts Yes</p> <p>Other On line or battery power</p> <p>AUDIBLE ALARM</p> <p>Volume control Yes</p> <p>Momentary silence Yes</p> <p>DOSE ERROR REDUCTION SYSTEM (smart technology) Required for electronic pumps</p> <p>Pump defaults to DERS on startup Yes</p> <p>Library size ≥ 1500</p> <p>No. of care areas ≥ 10</p> <p>No. of drug entities/care area ≥ 100</p> <p>Log-analysis software Yes</p> <p>DATA PORT Yes</p> <p>EVENT LOG Yes</p> <p>Printout Yes</p> <p>Time/date stamp Yes</p> <p>Number of events ≥ 200</p> <p>Events stored Key presses, error codes, alarms, drug infused, amount infused, settings, boluses requested</p> <p>Time retained 1 year</p> <p>OTHER SPECIFICATIONS</p> <ul style="list-style-type: none"> - Heavy duty, compatible design - Internal drug library; 8 programmable configurations with alphanumeric text; continuous rate/time limit; supplementary bolus; auto syringe loading; stackable <p>Power supply - Medical Approved power supply board</p> <p>Line voltage - 220/240VAC,50/60Hz, Three pin (G type) plug</p> <p>Voltage stabilizer circuit (or device) -YES (170-260VAC to 220 /240 VAC)</p> <p>Integral Built in rechargeable battery(s)- Yes for ≥ 120 minutes back</p>
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				up(with long shelf lifebatteries \geq 1 year)		
		2		<p style="text-align: center;">PCNL SYSTEM</p> <p>1 Video-processor APPLICATIONS Camera inputs Controls/features Hue adjustment Illumination White balance Video gain Sharpness Other controls Documentation Outputs NTSC PAL Digital (DVI or SDI or HD-SDI or HDMI) Pixel resolution COMPATIBLE ENDOSCOPE Flexible Rigid Cable length, m Line power, VAC</p>	Real & Full HD system used to convert camera signals to controlled picture can be displayed on a monitor. Endoscopy \geq 1 Yes Automatic Automatic Yes Yes Zoom, other according to manufacturer. USB port or DVD recorder. Yes Yes Yes \geq 1920 x 1080 @ 50/60 Hz Yes Yes \geq 3	12

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						220/240 VAC, 3pin G type plug.
					2	<p>a- MONITOR b- Small side monitor</p> <p>Medical grade $\geq 26"$, TFT (LED or LCD), Resolution $\geq 1920 \times 1080$ pixel @ 50/60 Hz Medical grade $\geq 21"$, (LED or LCD), Resolution $\geq 1920 \times 1080$</p>
					3	<p>LIGHT SOURCE Light Source Type LAMP Type Watts Number of lamps Color temperature, °K Lamp life, hr Illumination Level Adjustment Mode Compatible Light Cables PORTS Number POWER SOURCE, VAC</p> <p>Multipurpose Xenon or LED ≥ 175 for (LED) and ≥ 300 for (Xenon) ≥ 1 $\leq 6,500$ LED ≥ 30000 and (Xenon) ≥ 300 (Replacement of lamp is included in five year of warranty) Continuous or Discrete Manual or automatic or both Should be matched to the device light post diameter to avoid risk of patient burns. ≥ 1 220/240 VAC, 3pin G type plug.</p>
					4	<p>Suction Irrigation system</p> <p>Suitable system to irrigate & suck fluid - Roller pump type</p>

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						<ul style="list-style-type: none"> - Touch screen (preferred) - Pre-programmed procedures - Flow regulated range \geq (0-1000)ml/min - Max Pressure \geq 200 mmHg - Suction (negative) Pressure \geq 200 mmHg - All type of handpiece & tubing set - 220/240 VAC, 3pin G type plug .
					5	<p>Power supply</p> <ul style="list-style-type: none"> 1.220/240 VAC, 50/60 Hz. 2. Over current & over heated protection circuit. 3. Three pin G type plug. 5. UPS of suitable rating with voltage regulation & spike protection for \geq 60 minutes back up.
					6	<p>CART</p> <ul style="list-style-type: none"> Antibacterial & Anticorrosion material \geq 3 Shelves \geq 1 Adjustable arm(s) for monitor (s) \geq 4 Antistatic Casters with \geq 2 breaks Isolation transformer Earth leakage monitor
					7	<p>Pneumatic Impact Lithotripters</p> <ul style="list-style-type: none"> \geq 3 different sizes of probes compatible with (URS & PCNL) Any value between 10 and 15 and/or continues Oscillation frequency, Hz Yes \geq 3.5 bar

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					Compressor Compatibility Disposable & Reusable Parts	Should be compatible with semi-rigid All available by the manufacturer which are not included in life years with starting kit for disposable parts ≥ 100 patients
				8	Ultrasonic Impact Lithotripters Probes Compatibility Oscillation frequency, KHz Suction pressure Disposable & Reusable Parts	Should be compatible with system suction/Irrigation unit ensuring synchronized functioning during stone fragmentation for URS , PCNL & litholapaxy ≥ 6 Should be compatible with semi-rigid Any value (24-26) ≥ 450 mmHg, ≥ 1000 mL/min All available by the manufacturer which are not included in life years with starting kit for disposable parts ≥ 100 patients
				9	Per-Cutaneous Nephro-Lithotomy scope (PCNL) set	- Including 22-24 Fr scope & 24-26 Fr sheath ,Compatible with 3 chip camera head or CMOS full HD - Compatible dilators up to 30 Fr (optional: inflatable balloon type preferred), Length ≥ 23 cm - Comprises ≥ 2 large stone forceps , ≥ 1 universal stone forceps, ≥ 1 small fragments forceps, ≥ 1 scissors, ≥ 1

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						<ul style="list-style-type: none"> catheter, ≥ 1 suction tube for laser - Suitable container for storage & sterilization
					10	<p>Per-Cutaneous Nephro-Lithotomy scope (PCNL) set</p> <ul style="list-style-type: none"> - Including scope diameter between (11 – 13) Fr & compatible sheath ≤ 22 cm, Compatible with 3 chip camera head or CMOS full HD - Compatible ≥ 1 step dilators - Compatible grasping forceps - Compatible foreign body removal forceps - Suction tube for laser - Suitable container for storage & sterilization
					11	<p>Mini Per-Cutaneous Nephro-Lithotomy scope (PCNL) set</p> <ul style="list-style-type: none"> - Including scope diameter of ≤ 9 Fr & compatible sheath ≤ 18 cm, Compatible with 3 chip camera head or CMOS full HD - Compatible 1 step dilators - Compatible grasping forceps - Compatible foreign body removal forceps - Suction tube for laser - Suitable container for storage & sterilization
					12	<p>General specification & requirements</p> <ul style="list-style-type: none"> - MOH can chose any item (should not ask for the whole system)

اجهزة شعاعية والتخدير والجراحة (عامة+ عظام وكسور + بولية) المراد توفيرها لدائرة صحة كركوك

						<ul style="list-style-type: none"> - Manufacturer should offer all what available from his factory with a list of compatibility with other competitive (Manufacturer should not applied for the items if he do not manufacture it) - Any (reusable or disposable) parts which are not under warranty should be clarified by the manufacturer with detailed priced list & starting kit for ≥ 100 Patient should be supplied F.O.C other way everything is included in five year of warranty - Regarding the instruments part, all the scopes should be compatible with 3 chip camera heads or CMOS full HD - All rigid scopes should be auto-cleavable type - All cameras should be pendulous or curved/straight type 		
					13	Environmental requirements	-The supplier confirm that: The equipment suitable for work in the climate conditions in Iraq in terms of temperature & humidity.	
		2			General Urology Endoscopic System			13

اجهزة شعاعية والتخدير والجراحة (عامة+ عظام وكسور + بولية) المراد توفيرها لدائرة صحة كركوك

					1	<p>Video-processor</p> <p>Real & Full HD system used to convert camera signals to controlled picture can be displayed on a monitor.</p> <p>APPLICATIONS</p> <p>Camera inputs Endoscopy</p> <p>Controls/features ≥ 1</p> <p>Hue adjustment Yes</p> <p>Illumination Automatic</p> <p>White balance Automatic</p> <p>Video gain Yes</p> <p>Sharpness Yes</p> <p>Other controls Yes</p> <p>Documentation Zoom, other according to manufacturer.</p> <p>Outputs USB port or DVD recorder.</p> <p>NTSC</p> <p>PAL Yes</p> <p>Digital (DVI or SDI or HD-SDI or HDMI) Yes</p> <p>Pixel resolution $\geq 1920 \times 1080 @ 50/60 \text{ Hz}$</p> <p>COMPATIBLE</p> <p>ENDOSCOPE Yes</p> <p>Flexible Yes</p> <p>Rigid ≥ 3</p> <p>Cable length, m 220/240 VAC, 3pin G type plug.</p> <p>Line power, VAC</p>	
					2	<p>a- MONITOR</p> <p>Medical grade ≥ 26" Full HD monitor, (LED or LCD), Resolution $\geq 1920 \times 1080$ pixel @ 50/60 Hz</p> <p>b- Small side monitor</p>	

أجهزة شعاعية والتخدير والجراحة (عامة + عظام وكسور + بولية) المراد توفيرها لدائرة صحة كركوك

						Medical grade $\geq 21"$, (LED or LCD), Resolution $\geq 1920 \times 1080$
				3	<p>LIGHT SOURCE Light Source Type LAMP Type Watts Number of lamps Color temperature, °K Lamp life, hr</p> <p>ILLUMINATION Illumination Level Adjustment Mode Compatible Light Cables</p> <p>PORTS Number</p> <p>POWER SOURCE, VAC</p>	<p>Multipurpose</p> <p>Xenon or LED ≥ 175 for (LED) and ≥ 300 for (Xenon) ≥ 1 $\leq 6,500$ LED ≥ 30000 and (Xenon) ≥ 300 (Replacement of lamp is included in five year of warranty) Continuous or Discrete Manual or automatic or both Should be matched to the device light post diameter to avoid risk of patient burns .</p> <p>≥ 1 220/240 VAC, 3pin G type plug .</p>
				4	Suction Irrigation system	<p>Suitable system to irrigate & suck fluid</p> <ul style="list-style-type: none"> - Roller pump type - Touch screen (preferred) - Pre-programmed procedures - Flow regulated range $\geq (0-1000)$ml/min

اجهزة شعاعية والتخدير والجراحة (عامة+ عظام وكسور + بولية) المراد توفيرها لدائرة صحة كركوك

						<ul style="list-style-type: none"> - Max Pressure \geq 200 mmHg - Suction (negative) Pressure \geq 200 mmHg - All type of handpiece & tubing set - 220/240 VAC, 3pin G type plug .
					5	<p>Power supply</p> <ol style="list-style-type: none"> 1.220/240 VAC, 50/60 Hz. 2. Over current & over heated protection circuit. 3. Three pin G type plug. 5. UPS of suitable rating with voltage regulation & spike protection for \geq 60 minutes back up.
					6	<p>CART</p> <ul style="list-style-type: none"> Antibacterial & Anticorrosion material \geq 3 Shelves \geq 1 Adjustable arm(s) for monitor (s) \geq 4 Antistatic Casters with \geq 2 breaks Isolation transformer Earth leakage monitor
					7	<p>ELECTROSURGICAL UNIT</p> <ul style="list-style-type: none"> High Frequency , Multidisciplinary (used to cut, coagulate, ablate, ...etc. during surgery) Yes Monopolar Yes Bipolar \geq 300 Power, W \geq 450 @ 750 ohm Peak voltage, V All Monopolar & Bipolar modes (according to manufacturer) , bipolar ablation & resection mode to be used in TURP & TURB should be available Modes Hand pieces & footpadels All available by the manufacturer with starting kit for disposable parts \geq 100

اجهزة شعاعية والتخدير والجراحة (عامة+ عظام وكسور + بولية) المراد توفيرها لدائرة صحة كركوك

						<p>patients</p> <ul style="list-style-type: none"> - Touch screen - Pre-programmed procedures and settings - ≥ 200 program memories
					8	<p>Cystoscopy Set</p> <ul style="list-style-type: none"> - 25°-30° HD scope , other scope according to manufacturer, 4mm diameter, compatible with 3 chip camera head or CMOS full HD - ≥ 2 sheath between (17 &19&21&23)Fr with obturator - ≥ 2 double channel bridge - ≥ 1 catheter deflection (Albarran deflection) . - ≥ 3 biopsy forceps - ≥ 2 grasping forceps - ≥ 3 Flexible Biopsy forceps - ≥ 3 Flexible grasper forceps . - ≥ 3 foreign body forceps . - ≥ 2 compatible light cable ≥ 230 mm - Suitable container for storage & sterilization
					9	<p>Urethrotomy Set</p> <ul style="list-style-type: none"> - 0°-5 ° HD scope, 4mm diameter , compatible with 3 chip camera head or CMOS full HD - Compatible Urethrotomy & Supplementary sheath & half sheath with obturator - Compatible passive type working element including straight & half-moon (round) cold

اجهزة شعاعية والتخدير والجراحة (عامة+ عظام وكسور + بولية) المراد توفيرها لدائرة صحة كركوك

						knife & hock knife - Compatible light cable ≥ 230 mm - Suitable container for storage & sterilization
				10	1- Resectoscope Set	25°-30° HD scope, 4mm diameter, compatible with 3 chip camera head or CMOS full HD - Compatible sheath (24 F) Continuous Irrigation & rotatable & passive type working element(unipolar & bipolar) - Compatible cutting loop (30° & optional 45°/0°) - Compatible vaporization loop - ≥ 100 cutting & coagulation loop (manufacturer should list all available types) - Bladder Syringe ≥ 5 - Evacuator ≥ 5 - Compatible light cable ≥ 230 mm - ≥ 3 sizes Visual Obutrator (Straight, deflecting & visual type)
					2- Resectoscope Set in saline	- power cable compatible with system - Suitable container for storage & sterilization 25°-30° HD scope, 4mm diameter, compatible with 3 chip camera head or CMOS full HD - Compatible sheath (24 F) Continuous

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						<p>Irrigation & rotatable & passive type working element(unipolar & bipolar)</p> <ul style="list-style-type: none"> - Compatible cutting loop (30° & optional 45°/0°) - Compatible vaporization loop - ≥ 100 cutting & coagulation loop (manufacturer should list all available types) - Bladder Syringe ≥ 5 - Evacuator ≥ 5 - Compatible light cable ≥ 230mm - ≥ 3 sizes Visual Obutator (Straight, deflecting & visual type) - power cable compatible with system - Suitable container for storage & sterilization
					11	<p>Uretrorenoscope (URS) set</p> <ul style="list-style-type: none"> - ≥ 2 sizes, compatible with 3 chip camera head or CMOS full HD suitable for laser procedure: <ul style="list-style-type: none"> A- Stone fragmentation procedure with 4Fr instrument channel & diameter between (6 – 8.5)Fr B- Routine uretroscopic procedure with 4Fr Instrument Channel & diameter between (7 – 9.8)Fr C- Continuous-Irrigation operation URS with 6.5 / 8.5 Fr Telescope with Two

أجهزة شعاعية والتخدير والجراحة (عامة+ عظام وكسور + بولية) المراد توفيرها لدائرة صحة كركوك

						channels - Length \geq 34 cm for all sizes - Each URS should be delivered with \geq 4 compatible Forceps (different types).
					12	Pediatric Cystoscopic set - 0° HD Telescope diameter between (1 – 2) mm, with compatible 3 chip camera head or CMOS full HD - Small Sheath diameter between (6 – 8)Fr - Large sheath diameter between (9 – 10)Fr - \geq 2 forceps for foreign body removal - \geq 2 biopsy forceps - Light cable length \geq 230 cm , diameter between (1.5 -3)mm
					13	Pediatric Cystoscopic set for reflux - 0° - 12° HD Telescope diameter between (1-10)mm, with compatible 3 chip camera head or CMOS full HD - Compatible Reflux sheath included in telescope - \geq 1 injection needle \geq 3Fr
					14	Pediatric Resectoscope set - 0° HD Telescope , with compatible 3 chip camera head or CMOS full HD - \geq 1 Working element - \geq 1 Resectoscope sheath with diameter between (9-10)Fr - \geq 1 Angled & blunt hock electrode (for coagulation) diameter \geq 3Fr - \geq 50 cutting & coagulation loop (manufacturer should list all available types)

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						- Light cable length \geq 230cm , diameter between (1.5 -3)mm
					15	<p>Pediatric Urethrotomy set</p> <ul style="list-style-type: none"> - 0° HD Telescope diameter between (1 – 2)mm with Passive type working element, with compatible 3 chip camera head or CMOS full HD - Sheath diameter between (8 – 9) Fr - \geq 100 Straight & round cold knife & Hook shaped - \geq 1 protection tube - Light cable length \geq 230cm, diameter between (1.5 – 3) - Suitable container for storage & sterilization
					16	<p>Pediatric Uretrorenoscope (URS) set</p> <ul style="list-style-type: none"> - \geq 1 size , compatible with 3 chip camera head or CMOS full HD suitable for laser procedure: <ul style="list-style-type: none"> A- Stone fragmentation procedure with \leq4Fr instrument channel & diameter of \leq 5 Fr B- Routine uretoscopic procedure with \leq4Fr Instrument Channel & diameter of \leq 6 Fr - Length \geq 30 cm for all sizes - Each URS should be delivered with \geq 4 compatible forceps (different types).
					17	<p>Compact Pediatric Cystoscopic set</p> <ul style="list-style-type: none"> - Between (0 – 12)° telescope, diameter between (8 –10)Fr

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					(Angled eye piece)	<ul style="list-style-type: none"> , Length \geq 12 cm, 3 chip camera head or CMOS full HD - \geq 1 working channel for operating instruments, diameter between (3 – 5) - \geq 20 forceps for foreign body removal diameter between (3 – 5)Fr - \geq 20 biopsy forceps diameter between (3 – 5)Fr - \geq 30 knife diameter between (3 – 5)Fr - \geq 100 injection needle between (3 – 4)Fr - Light cable length \geq 230 cm, diameter between (1.5 - 3)mm - Suitable container for storage & sterilization
				18	Neonate Cystoscopic set	<ul style="list-style-type: none"> - 0°-5°HD telescope, diameter between (1 – 2)mm, with compatible 3 chip camera head or CMOS full HD - Cystoscopic sheath diameter between (7 – 8) - \geq 10 forceps for foreign body removal diameter between (3 – 4)Fr - \geq 10 biopsy forceps diameter between (3 – 4)Fr - Ball electrode diameter between (3 – 4)Fr - Power cable compatible with system. - Light cable length \geq 230 cm, diameter between (1.5–3)Fr

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						- Container for instrument & scopes
19	Lithotripters,Intracorporeal,Laser Laser type Power, W Stone fragmentation and soft tissue manipulation Pilot beam Fibers Compatibility Disposable & Reusable Parts					As attached specification HO: YAG laser Multiple frequency & energy selection ≥ 20 Yes (green laser preferred) All available by the manufacturer reusable & disposable types with starting kit for ≥ 500 procedures (litholapaxy, URS, PCNL) ≥ 3 sizes Should be compatible with Semi-rigid & flexible uretorenoscope All available by the manufacturer which are not included in five years with starting kit for disposable parts ≥ 300 patients - Desktop unit
20	Surgical Laser Compatibility For prostate surgery Disposable & Reusable Parts					As attached specification Should be compatible with rigid and flexible scope ≥ 70W (optional) All available by the manufacturer which are not included in five years with starting kit for disposable & reusable parts ≥ 100 patients should be supplier responsibility
21	Laser compatible					- 25°-30° HD scope , other scope according

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						<p>Cystoscopy Set</p> <p>to manufacturer, compatible with 3 chip camera head or CMOS full HD, working element for laser fibers</p> <ul style="list-style-type: none"> - ≥ 2 sheath between (19 & 22.5)Fr with obturator - ≥ 2 (special laser insert) - ≥ 1 catheter deflection (Albarran deflection) - ≥ 3 biopsy forceps - ≥ 2 grasping forceps - ≥ 2 compatible light cable ≥ 230 mm - Suitable container for storage & sterilization
					22	<p>Flexible Video Cystoscopic set</p> <ul style="list-style-type: none"> - Video chip on tip CCD camera used with full real HD System (preferred) - Length ≥ 35 cm - Working channel ≥ 6 Fr diameter - Sheath ≥ 15 Fr diameter - ≥ 2 Grasping forceps - ≥ 2 Biopsy forceps - ≥ 1 leakage tester - ≥ 1 cleaning brush - Suitable container for storage & sterilization
					23	<p>Flexible Cystoscopic set (optional for simple use or as back up for item 21)</p> <ul style="list-style-type: none"> - Fiber optic type compatible with 3 chip camera head or CMOS full HD - Length ≥ 35 cm - Working channel ≥ 6 Fr diameter

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						<ul style="list-style-type: none"> - Sheath \geq 15 Fr diameter - \geq 2 Grasping forceps - \geq 2 Biopsy forceps - \geq 1 leakage tester - \geq 1 cleaning brush - Suitable container for storage & sterilization
					24	<p>Flexible Video URS set</p> <ul style="list-style-type: none"> - \geq 2 scopes - Video chip on tip or CMOS camera used with full real HD System (preferred) - Working length \geq 65 cm - Working channel \geq 3.5 Fr - Sheath diameter \geq 8.5 Fr - \geq 2 Grasping forceps - \geq 2 Biopsy forceps - \geq 1 leakage tester - \geq 1 cleaning brush - \geq 2 Suitable container for storage & sterilization
					25	<p>Flexible URS set (optional for simple use or as back up for item 23)</p> <ul style="list-style-type: none"> - Fiber optic type with compatible 3 chip camera head or CMOS full HD) - Working length \geq 65 cm - Working channel \geq 3.5 Fr - Sheath diameter \geq 7.5 Fr - \geq 2 Grasping forceps - \geq 2 Biopsy forceps - \geq 1 leakage tester - \geq 1 cleaning brush - \geq 2 Suitable container for storage &

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						sterilization
					26	<p>General specification & requirements</p> <ul style="list-style-type: none"> - MOH can chose any item (should not ask for the whole system) - Manufacturer should offer all what available from his factory with a list of compatibility with other competitive (Manufacturer should not applied for the items if he do not manufacture it) - Any (reusable or disposable) parts which are not under warranty should be clarified by the manufacturer with detailed priced list & starting kit for ≥ 100 Patient should be supplied F.O.C other way everything is included in five year of warranty - Regarding the instruments part, all the scopes should be compatible with 3 chip camera heads or CMOS full HD - All rigid scopes should be auto-cleavable type - All cameras should be pendulous or curved/straight type
					27	<p>Environmental</p> <ul style="list-style-type: none"> -The supplier confirm that: The equipment suitable for work in the climate conditions in

				requirements	Iraq in terms of temperature & humidity.	
		2		<p>Lasers, Ho:YAG, Surgical</p> <ul style="list-style-type: none"> ❖ Application: used in hospitals and outpatient surgical facilities for urology, and other. ❖ Heavy duty & compatible design. ❖ Wavelength, nm : 2100, may vary slightly if the YAG crystal is doped with another element ❖ Power output at tissue, w: <ul style="list-style-type: none"> ➤ For stones up to 20w ➤ For prostates more than 180w ❖ Energy, j: $\geq (0.2-4)$ ❖ Pulse repetition : <ul style="list-style-type: none"> ➤ Rate, Hz: ≥ 3 ❖ Pulse duration: user adjustable ❖ DELIVERED ENERGY COUNTER: yes ❖ Aiming beam: yes ❖ Fibers: reusable and/or disposable <ul style="list-style-type: none"> ➤ Length, m : suitable length 		14

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				<ul style="list-style-type: none"> ➤ Diameter, mm: all sizes ➤ User calibrated: yes ❖ hand pieces: yes ❖ special tips: yes ❖ cooling system: yes ❖ LINE POWER, VAC: 220/240 VAC, 50/60 Hz ❖ Safety features: external fiber calibration; must adhere to ANSI Z136.1 and Z136.3, visual and or audible alarms and eye google:3 . ❖ <u>Environmental requirements:</u> 1- The unit shall be capable of being stored continuously in ambient temperature of (-5-60) deg C and relative humidity of (5-95%) non condensing. 2- The unit shall be capable of operating continuously in ambient temperature of (5-40 deg C) 					
		2		<p><i>Ultrasonic Impact Ureteroscope Lithotripter</i></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">APPLICATION</td> <td>Stone fragmentation in Urethral, kidney; others optional</td> </tr> <tr> <td>Type</td> <td>Only Ureteroscope</td> </tr> </table>	APPLICATION	Stone fragmentation in Urethral, kidney; others optional	Type	Only Ureteroscope	15
APPLICATION	Stone fragmentation in Urethral, kidney; others optional								
Type	Only Ureteroscope								

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					LITHOTRIPTER PROBE Length, mm ≥ 300 Outer diameter, Fr ≥ 4.5 Operating frequency, kHz ≥ 22 Bent/straight shaft Straight Bur/blunt tip Yes
					URETEROSCOPE Sheath diameter, Fr Sheath length,mm 7.5-11.5 ≥ 310 Instrument channel diameter, Fr ≥ 2 Endoscope type Varies, Should be specified Viewing angle, degrees 0 - 8 Eyepiece type Straight, angled, parallel
					ULTRASONIC GENERATOR (Footswitch) Yes
					SUCTION PUMP Suction flow (maximum), mL/min ≥ 1000 ≤ 600 Suction pressure, mm Hg
					LIGHT SOURCE Type Xenon or better Watts 150, 300
					STERILIZATION Autoclave, chemical, gas
					PHOTOGRAPHIC AND VIDEO CAPABILITIES 35 mm cameras, video cameras, teaching attachments, VCRs, monitors

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				<p>*Power supply Line voltage Voltage stabilizer UPS</p>	<p>- Medical Approved power supply board - 220/240 VAC, 50/60 Hz single phase - Yes - Yes</p>	
		2		<p><i>Lasers, Surgical, Urology</i></p>		16
				LASER TYPE	Diode – pumped laser or Nd:YAG green laser or HO: Thulium laser or any combination or KTP	
				SURGICAL APPLICATIONS Urology Other	Yes (including all prostate treatment applications) Should specified by the manufacturer	
				MAXIMUM POWER at tissue, W	≥120	
				WAVELENGTH, nm	According to laser type (please specified)	
				AIMING BEAM	Yes (type should be specified)	
				TREATMENT MODES Continuous Single pulse, sec Repeat pulse, sec Other	Yes Yes Yes According to manufacturer (should be specified)	
				FIBEROPTIC SYSTEM Diameter Reusable/disposable Contact/noncontact or HANDPIECES / Different sizes available (Spot size , Focal distance,	Included in five years warranty period (for disposable parts ≥ 2500 patient/5years) All sizes available by the manufacturer (more sizes preferred) Yes/yes Yes/yes <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> { Included in five years warranty period (for disposable parts ≥ 2500 patient/5years) </div>	

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					<p>Contact Tips/Fibers should specified)</p> <p>COOLING SYSTEM TYPE According to manufacturer</p> <p>ACCESSORIES All available by the manufacturer (should be specified in details)</p> <p>SAFETY FEATURES Should be specified by the manufacturer</p> <p>Combo unit (Two type or more laser system) According to manufacturer</p> <p>Other Specifications - All needed endoscopes are supplier responsibility & including in five years warranty period (should be specified in details) - Two sided (frontal & lateral) Laser</p> <p>POWER REQUIREMENTS, VAC Voltage stabilizing circuit - 220/240 VAC, 50/60 Hz , Three Pin G type Plug - Yes or suitable Smart UPS</p>	
		2			<p><i>Adult Rigid Nephroscope Set</i></p> <ul style="list-style-type: none"> • 200 mm length, 4.8 – 5 fr. Working channel, angled eyepiece, 45° ocular, view 5° • Nephroscope sheath (24 – 27 fr.) with obturator • Adaptor for optical forceps (in PCN) • Telescope dilation set • Grasping forceps (for different size stone fragments) 4 mm in diameter, 310 mm in length • Biopsy forceps, 4mm, 310 mm length • Scissors, 4mm, 310mm length • Nephroscope knives (different types) 	17

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- | | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | <ul style="list-style-type: none">• Suction tube, 4mm diameter• Nephroscope cleaning / sterilization case | |
|--|--|--|--|--|--|--|

الشروط المطلوبة :

- 1- - ان يكون الجهاز حائز على احد شهادات الجودة (FDA الامريكية) او(CE الاوربية) ويتم تقديم هذه الشهادات مع شهادة المنشأ الى دائرة الصحة / قسم الامور الفنية لغرض مصادقتها وفق الاليات المتبعة .
- 2- تقديم (declaration letter) نسخة اصلية من الشركة المصنعة للجهاز التي توضح حصول الموديل المطلوب شراؤه على هذه الشهادات الى دائرة الامور الفنية – قسم ادارة الاجهزة الطبية او ارسالها للبريد الالكتروني الخاص بالقسم المذكور من قبل الشركة المصنعة.
- 3-التدريب للكادر العامل على الاجهزة (طبيب , مهندس او فني , مشغل) لمدة لا تقل عن اسبوع في مركز تدريبي وتزويد المتدربين بشهادة تدريبية .
- 4- ضمان لمدة خمس سنوات مواد وعمل وتبدأ الضمان من تاريخ انجاز العمل (نصب وتشغيل والتدريب) والالتزام بتوفير البرامج التشغيلية وكتالوك الصيانة والعطلات مع التدريب الموقعي لكافة الكادر العامل على الجهاز لمدة ثلاثة ايام .
- 5- يفضل وجود وكيل للشركة المجهزة في العراق لمتابعة خدمات مابعد البيع (النصب, الضمان ,الصيانة) و ان تكون الشركة المجهزة مسجلة لدى وزارة الصحة ويجب ان لا تكون مدرجة ضمن القائمة السوداء.
- 4- يفضل ان يكون الجهاز من المناشى الرصينة والمعتمدة لدى وزارة الصحة العراقية ومن الاصناف المتوفرة في مؤسساتنا الصحية .
- 5- يجب ان يكون الجهاز من احدث التقنيات المنتجة خلال اخر ثلاث سنوات وان لا يكون مستعمل او معاد التأهيل.