

دەرځسته ی څه ملینراو بو نامیری پزیشکی نه خوشخانه ی چاوی هه ولییری فییرکاری

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
1	Surgical ceiling light	<p>Color temperature (K) 4300±500                      Spot diameter (mm) 100—300                      Illumination depth (mm) ≥1200                      Brightness adjustment 1-100                      Color rendering index CRI ≥97%                      Color reproduction index Ra ≥97%                      Surgeon's head temperature rise (°C) ≤1                      Temperature rise in operating field (°C) ≤2                      Operating radius (mm) ≥2200                      Working radius (mm) 600—1800                      Power supply voltage 220V±22V                      50HZ±1HZ                      Input power 400VA                      Average bulb life (h) ≥60000                      Lamp power 1W/3V                      Battery Or Emergency Backup                      The best installation height (mm) 2800—3000.                      VIDEO CAMERA ( HD camera )                      MONITOR ≥ 15 inch LCD , HD                      Laminar Flow Compatible  <b>Origin :USA,EUROPE,JAPAN.</b></p>	2		
2	Anesthesia machine	<p><b>Gas supply &amp; control:</b></p> <ul style="list-style-type: none"> <li>• Pipeline gas inlets: at least 3 (N2O, O2, air)</li> <li>• Gas cylinder yokes: (O2, N2O, air) (should include indexing system)</li> </ul> <p><b>Vaporizers:</b></p> <ul style="list-style-type: none"> <li>• Agents: desflurane, isoflurane, sevoflurane.</li> <li>• Type of vaporizers :preferred ( electronically controlled and supply the liquid anesthetic agent directly into the stream of gases)                      Heated blender (if desflurane selected.)</li> <li>• No. of vaporizers: 2 minimum.</li> <li>• Interlock: yes.</li> </ul> <p><b>Hypoxic mixture fail-safe:</b> yes.  <b>O2 fail safe:</b> yes.  <b>Automatic gas control.</b> Preferred</p> <p><b>Ventilator:</b></p> <ul style="list-style-type: none"> <li>• Type: automatic.</li> <li>• Ventilation modes control: manual/ spontaneous, VCV, PCV, SIMV or pressure support &amp; pressure control volume guaranteed.</li> <li>• Tidal volume (cc): ≤(20~2000)</li> <li>• Minute volume (L/min): ≤ (0~99)</li> <li>• Frequency Bpm: ≤(0~100)</li> <li>• Inspiratory flow (L/min): ≤ (200)</li> <li>• Pressure limit (cm H2O): ≤(120 adjustable)</li> <li>• PEEP (cm H2O): ≤(0~50)</li> </ul> <p><b>System checks:</b> self-test (automated</p>	1		

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		<p>preferred)  <b>Scavenging system:</b> active or passive.  <b>Breathing circuit:</b></p> <ul style="list-style-type: none"> <li>• Type: circle system.</li> <li>• A fresh gas flow port.</li> <li>• A reservoir bag.</li> <li>• An expiratory port with APL valve to the scavenging system is driven through a CO2 absorption canister (soda lime or barium hydroxide lime)</li> <li>• Corrugated tubes.</li> <li>• Pressure gauge.</li> </ul> <p><b>Monitors:</b></p> <ul style="list-style-type: none"> <li>• Airway pressure, Expiratory volume/flow, O2 concentration, Peak inspiratory pressure, Mean airway pressure, PEEP pressure, Tidal volume, Minute volume, Spontaneous minute volume, FiO2 (analyzed %), Respiratory rate, Inspiratory time, Expiratory time &amp; IE ratio.</li> </ul> <p>Display :</p> <ul style="list-style-type: none"> <li>• No: 1 plus operating room monitor.</li> <li>• Type: color LCD or better.</li> <li>• Size: ≥15."</li> <li>• Integrated: yes.</li> <li>• Interface with others: yes.</li> </ul> <p><b>Data export:</b> yes.</p> <p><b>Alarms:</b></p> <ul style="list-style-type: none"> <li>• High pressure.</li> <li>• Subatmospheric pressure (preferred)</li> <li>• Continuing pressure.</li> <li>• Low pressure/apnea.</li> <li>• Apnea.</li> <li>• Agent concentration.</li> <li>• Inadequate O2 supply.</li> <li>• O2 concentration falls below the preset limit.</li> <li>• Mains failure.</li> <li>• Low battery.</li> </ul> <p><b>Origin :USA,EUROPE,JAPAN</b></p>			
3	Patient monitor	<p>Flatpanel color LCD&gt;15 inch  Touch screen or navigation knob, battery backup for at least 3hrs., re chargeable battery , data storage 360 hrs.  Built in recorder  Monitor parameter ( ECO, NIBP, IBp, Spo2,resparation, temp.)  <b>Origin :USA,EUROPE,JAPAN</b></p>	1		
4	Ophthalmic surgical microscope	<p>Long-lasting LED illumination (nominal life-expectance 50'000 hours)</p>	1		

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		<p>Direct Red Reflex illumination (without fiber optics cable)            Brightness control by surgeon with sterile knob            APO-chromatic corrected 5 step magnification changer 6.4/10/18/25/40x            Hands free operation of magnification changer operated by footswitch            Motorized focus-drive with 40mm range            APO-chromatic corrected optics, f= 200mm            24mm stereo-base for natural 3-dimensional viewing            Inclinable Binocular Tube 45° degree            Motorized XY-unit, range 40x40mm with Reset.            Mobile Stand with long reach swing arm            Stand with smallest base (608 x 608mm)            8 function footswitch for control of magnification, focus, XY-unit</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>			
5	Phacoemulsification platform, complete unit, with 2 extra hand piece with each device	<p>Pump type : Peristaltic pump            Vacuum setting : 0 to 650 mmHg            Flow rate : 0 to 60 mL / min            Transducer : Piezoelectric            Frequency : 40 kHz            Pulse mode : 1 to 100 pulses / s            Frequency : 515 kHz            Output : 0.5 to 10 W (5 to 100%)            Cutting system : Pneumatic driven guillotine system            Cutting rate : 100 to 1,000 cuts /min (with built-in air compressor)            AC 100 to 230 V            50 / 60 Hz            Power consumption : 240 VA            Power supply : AC 100 / 115 / 230 V            50 / 60 Hz            Power consumption 300 VA</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>	1		
6	Cassette sterilization set	<p>Cassette Autoclave            EN13060 Compliant            Ultrafast 8:45 minute unwrapped cycle.            Quick 15:30 minute wrapped cycle (start to sterile).            15 Minute DRI-GTEC. Drying technology.            G4 web portal includes data storage, service logs and remote access capability.            Exceptional instrument turn over.            Single use water            Aseptic transfer of instruments directly to the point of use.            Gentle on instruments.            color touch screen.</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>	1		
7	Suction unit	<p>Portable suction unit for small operation            High vacuum, high flow.            Antibacterial and hydrophobic filter with extra battery.</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>	2		
8	Cryo surgery ablation	<p>Heavy duty and compatable design.            Portable machine. Digital LCD display screen.            Very wide number of cryopencils            Provides quick freezing and quick</p>	1		

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
	machine	defrosting. Cleaning the probes for every cycle automatically. Foot pedal – one end the foot pedal has a stem connection to connect with the console unit from the side. Mute key: Allow the audible sounder to be disabled by the operator. Mode of operation : continues> Operating pressure range : 725-870 psi Max. pressure >1000 psi. Pressure indicator for visual indication of the system> Application: cataract , retinal detachment, glaucoma and intravitreal surgery> Input power: 220/240 VAC, 50/60 HZ single-phase> Probe: glaucoma probe angle 3-3.5 degree Lid probe (Trichiasis) 4X10mm Intra-vitreous probe 0.98-1.3mm Endo-cryo probe angle 1mm Curved cataract probe 1.5mm Straight cataract probe 1mm Retinal probe 2.5mm Probe tubings which have an interchangeable tip connection facility at one end to use different types of tips and other end for connecting with console unit. Light weight probe tips have high conductivity silver. Suitable length of the probe tubing in order to provide the surgeon with the greater range of motion. Probe operation is controlled by a foot switch. Cryo-tip probe interface: Pneumatic and electrical connections for probe. <b>Origin :USA,EUROPE,JAPAN</b>			
9	Operating gonioscope	ACA image capture Capturing area Working distance Light source Stitching Capture mode : Approximately 2.36 mm (circumference direction) x 2 mm (diameter direction) 1.5 mm White LED Circular, linear Single capture Full capture: 272 images (17 foci x 16 areas) Auto tracking: X-Y directions Auto shot: Available Display: 9.0-inch (WXGA) color LCD touch screen Power supply: AC 100 to 240 V 50/60 Hz. <b>Origin :USA,EUROPE,JAPAN</b>	1		
10	Digital auto-lens meter with UV filter measurement and PD measurement	inch color LCD display Automatically lock-in measurement when optical center is aligned. Refractive Measurement Range: Sphere: -25D to +25D (Step: 0.01D, 0.12D, 0.25D) Cylinder: 0D to ± 10D (Step: 0.01D, 0.12D, 0.25D) Axis angle: 1 to 180° (Step: 1°) Addition: 0D to 10D (Step: 0.01D, 0.12D, 0.25D) Prism: 0 to 10° (Step: 0.01D, 0.12D, 0.25D) Lens Power Measuring Wavelength: 630 nm UV filter measurement.	1		

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		PD measurement. Printer: Thermal line printer <b>Origin :USA,EUROPE,JAPAN</b>			
11	Steam Steriliser (Autoclave)	<ul style="list-style-type: none"> <li>•Microprocessor controlled. Self-evaluations on the process of sterilization, automatic failure detection report.</li> <li>•Advanced software with multilingual display options (should include English Language).</li> <li>•Instant vaporizer outside the chamber. Chamber capacity: 100 liter, stainless steel.</li> <li>•Integrated printer.</li> <li>•Robot- controlled locking system.</li> <li>•LCD display. Wide range of sterilization programs including a completely customized cycle.</li> <li>•Water loading pipe with filter and direct draining to the water piping system. Possibility of serial connection to a PC, with cycle data recording.</li> <li>•Tray holder contains &gt; 2 tray.</li> <li>•Adjustable sterilizing time. Double tank: clean water &amp; dirty water both compatible with chamber size. Vacuum pump performing two stage (pre&amp; post vacuum.)</li> <li>•Thermal drying systems Input power: 220/240 VAC, 50/50 Hz single phase. Three Pin G type Plug, Voltage stabilizer and over current protection circuit.</li> <li>•Accessories: tray extraction handle.  Environmental requirements: the equipment suitable for working in the climate conditions of Iraq in terms of temperature &amp; humidity.</li> </ul>	1		
12	Operation theater sterilization machine	<p>Ultraviolet Sterilization Equipment Wall mounted Voltage: 100/220V Wattage: 650W Light lifespan: 12,000hrs <b>Origin :USA,EUROPE,JAPAN</b></p>	3		
13	Complete set of Cataract surgery	<p>Baroque eye speculum Osher seible Lens folding gently curved for firm grip on soft IOLs Speedway lens inserting forceps for foldable IOL</p>	1		

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		Smooth curved jaw rounded edge Phaco spatula blunt and Y rotator double ended Speedway chopper nuclease share tips Speedway chopper nuclease blunt tips <b>Origin :USA,EUROPE,JAPAN</b>			
14	Glaucoma set	Vannas scissor ( straight ) Vannas scissor ( angled ) Castroviejo miniature corneal scissor ( curved ) Westcott style tenotomy scissor ( curved ) Calibri toothed forceps (0.12mm ) Straight tying forceps Moor fields utility forceps Conjunctival clamp Short flat handle straight tying forceps Needle holder ( curved ) Retractable diamond knife , 1.0 mm trifacet Bulldog clip Jacobs descement membrane punch Ogawa infusion cannula Barraquer adult speculum <b>Origin :USA,EUROPE,JAPAN</b>	1		
15	Keratoplasty set	Bishop-Harmon Anterior Chamber Irrigator complete, (Cannula, adaptor and silicone bulb), 19G Baby Jones Towel Clamp, length 5.5cm Flieringa Scleral Fixation Ring, set of 9 sizes, Ø 14.0mm - 22.0mm McNeil-Goldman Scleral Fixation Ring & Blepharostat, medium 16.0mm Barraquer Wire Speculum, standard, 15.0mm blades Lieberman Eye Speculum, adj. mechanism, 15.0mm solid blades Hartmann Mosquito Forceps, straight, length 9.5cm Dieffenbach Bulldog Clamp, serrifine, straight, length 3.5cm Troutman-Katzin Corneal Transplant Scis. strong cvd, right, point. tips&small bl. cutting length 6.0mm, length 10.0cm Troutman-Katzin Corneal Transplant Scis. strong cvd, left, point. tips&small bl. cutting length 6.0mm, length 10.0cm Westcott Tenotomy Suture Scissors, curved, blunt tips & medium blades, cutting length 9.0mm, length 11.5cm Jaffe Stitch Scissors, curved, sharp tips & medium blades, cutting length 8.0mm, length 11.5cm Polack Double Corneal Forceps, with 2x 1x2 teeth, 0.12mm, length 7.5cm Castroviejo Suturing Forceps, straight, with tying platform, 1x2 teeth, 0.12mm, 45° angle, length 11.0cm Castroviejo Suturing Forceps, straight, with tying platform, 1x2 teeth, 0.3mm, 45° angle, length 11.0cm Harms Colibri Forceps, with tying platform, 1x2 teeth, 0.12mm, 45° angle, length 7.5cm Harms Colibri Forceps, with tying platform, 1x2 teeth, 0.12mm, 45° angle, length 7.5cm Tennant Tying Forceps, straight, with 6.0mm tying platform, for 9.0-1.0 sutures,	1		

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		<p>length 10.5cm  Tennant Tying Forceps, curved, with 6.0mm tying platform, for 9.0-1-0 sutures, length 10.5cm  Paton Spatula &amp; Spoon  Castroviejo Needle Holder, curved, 10.0mm x 0.75mm, smooth jaw, with lock, length 14.0cm  Jakobi Needle Holder, curved, 7.0 x 0.5mm, smooth jaw, with lock, length 12.0cm  Rycroft Air Injection Cannula, angled, 5.0mm, 30G  McIntyre Anterior Chamber Irrigating Cannula, angled, 15.0mm long tube, blunt tip, 26G  Sterilis. Case alu, compl. w/ quick-rel. w/ pos. act. spring mechan. on the lid, bottom perfor, outs. dim. 310x190x65mm  Wash Tray stainless steel, complete, w/ 2 silicone instr supp + 1 instr fix bar, 1/1 size:275x178x24mm, f 16 hand instr.  PTFE Teflon Filters, long-life (set of 2), for permanent use, for use w/ MIS-0430, MIS-0440, MIS-0450</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>			
16	DCR set	<p>Forceps for dacryocystorhinostomy  Kerrison - J7122.1 2 mm wide opening</p> <p>Forceps for tissue Janach - J7418  1x2 curved, 0.60 mm teeth</p> <p>Forceps - overall length 100 mm Hartmann - J2700</p> <p>Forceps - overall length 40 mm  Dieffenbach - J2716.1 4 cm long, straight</p> <p>Dressing forceps/bayonet shaped Janach - J7204 bayonet shaped, knurled end</p> <p>Needle holder with lock Janach - J7187</p> <p>Tissue hook - with four teeth Rollet - J2145.3 10 mm width</p> <p>Tray for 24 instruments - 40 x 27 x 2.5 cm  Janach - J4730</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>	1		
17	Strabismus set	<p>Open wire blades speculum Buratto - J2031  14 mm blades Scissors, 10 mm long blades Westcott - J1542 curved, blunt tips  Forceps - overall length 40 mm</p>	1		

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		<p>Dieffenbach - J2717 4 cm long, curved Forceps, 100 mm total length - Stainless steel Janach - J3088 1x2 straight, 0.70 mm teeth</p> <p>Suturing forceps Castroviejo - J3209 1x2 oblique, 0.12 mm teeth Tying forceps with 7 mm tying platforms Campos - J3270 7 mm tying platform Forceps for muscular resection Piantanida - J3423 45° angled, 14 mm long platform Single small hook Graefe - J2155.0 for strabismus, size 0</p> <p>Single small hook Graefe - J2155.1 for strabismus, size 1</p> <p>Single small hook Graefe - J2155.2 for strabismus, size 2</p> <p>Single small hook Graefe - J2155.3 for strabismus, size 3</p> <p>Single small hook Culler - J2154 for superior rectus Caliper Castroviejo - J2820.2 20 mm spread Curved caliper Paliaga - J2833 20 mm</p> <p>Retractor for retinal detachment Janach - J2070.2 10 mm Needle holder without lock – titanium Janach - J4198 Recommended for 8-0 to 10-0 sutures Tray for 20 instruments - 28.3 x 17.5 x 4.5 cm Janach - J4721</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>			
18	Enucleation set	<p>Cook Eye Speculum #3, 15.0mm blades Halsted Mosquito Forceps, straight, standard, length 12.5cm Micro Mosquito Forceps, curved, standard, length 12.5cm Graefe Fixation Forceps, without lock, length 11.0cm Paufigue Suture Forceps, straight, with 5.0mm tying platform, 1x2 teeth, 0.7mm, 45° angle, length 8.5cm Eye Scissors, curved, pointed tips, big rings, 22.5mm blades, length 9.5cm Stevens Tenotomy Scissors, curved, blunt tips, 13.0mm blades, length 11.5cm Graefe Muscle Hook, large, Size 3 Bangerter Muscle Clamp, length 10.5cm Wells Enucleation Spoon Enucleation Scissors, medium curved, blunt tips, 43.5mm blades, length 13.5cm Evisceration Spoon, bunge large, 10.0mm Evisceration Spoon, bunge large, 12.0mm</p>	1		



No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		Castroviejo Needle Holder, curved, 10.0mm x 0.75mm, smooth jaw, with lock, length 14.0cm Sterilis. Case alu, compl. w/ quick-rel. w/ pos. act. spring mechan. on the lid, bottom perfor, outs. dim. 310x190x40mm Wash Tray stainless steel, complete, w/ 2 silicone instr supp + 1 instr fix bar, 1/1 size:275x178x24mm, f 16 hand instr. PTFE Teflon Filters, long-life (set of 2), for permanent use, for use w/ MIS-0430, MIS-0440, MIS-0450 <b>Origin :USA,EUROPE,JAPAN</b>			
19	Oculoplastic set	Scissors, 30 mm long blades Kilner - J1325 curved, blunt tips                      Forceps for anterior ethmoidectomy Takahashi - J7202  Orbital plate Janach - J7011 178x16x0.9 mm  Orbital plate Janach - J7012 200x12x0.9 mm  Orbital plate Janach - J7015.1 215x13-11x0.5 mm  Orbital plate Janach - J7015.2 215x17-16x0.5 mm  Aspirator on/off Frazier - J7306  Double-ended retractor Ragnell - J7320  Eviscerating spoon Bunge - J2550.1 8 mm Janach - J2550.2 10 mm  Double hook tissue retractor Lucchini - J7052 adjustable  Enucleation sizer Janach - J7025.16 Ø 16 mm , 18 mm , 20 mm ,22 mm  Tray 24 instruments - 40 x 27 x 2.5 cm <b>Origin :USA,EUROPE,JAPAN</b>	1		

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
20	Microsurgery vitrectomy and retinal set with vitrectomy lens set	<p>Speculum for retinal detachment, closed blades Castroviejo - J2026 13 mm long blades</p> <p>Titanium speculum, open wire blades Lieberman - J2031.12 13 mm open blades</p> <p>Scissors, 24 mm long blades curved, blunt tips</p> <p>Forceps - overall length 100 mm Hartmann</p> <p>Adjustable speculum, reverse - 14 mm solid blades Vinciguerra - J2031.21 14 mm solid blade</p> <p>Scissors, 10 mm long blades Westcott curved, blunt tips</p> <p>Corneal forceps - flat handle – titanium Hoskin 0.30 mm Pierce tips</p> <p>Single small hook for superior rectus</p> <p>Double scleral depressor Arpa - J4488.3</p> <p>Scissors, 10 mm long blades Westcott - J1542 curved, blunt tips</p> <p>Flat lens - 59.75D</p> <p>Flat lens Janach - JD4811 flat lens - 8 sterile units</p> <p>Forceps, 100 mm total length - Stainless steel Janach - J3088 1x2 straight, 0.70 mm teeth</p> <p>Scissors, 24 mm long blades Janach - J1026 curved, blunt tips</p> <p>Titanium speculum, open wire blades Lieberman - J2031.12 13 mm open blades</p> <p>25G Microforceps Janach - J3834.25 for ILM</p> <p>Indentator and plate for trocar insertion</p> <p>Lente WideView HRI</p>	1		

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		<p>WideView HRI, - 116D</p> <p>Adson forceps</p> <p>Corneal forceps - flat handle - titanium Hoskin - J3926 0.30 mm Pierce tips</p> <p>Active aspiration – titanium</p> <p>Tray for 5-7 instruments - 19.9 x 11 x 2.5cm</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>			
21	IOL master	<p>High definition 20 MHz B-scan probe Large 12.1 high resolution LCD touch screen display Image/video capture and store in real time in multiple buffer slots for immediate comparison and review Multiple TCG options for operators preference, include vitreous – enhancing mode User friendly clinical reporting with A-scan / IOL result. B-scan images and comments with defined entries. Report in PDF format for further sharing and print-out and compatibility with graph / text printer. Storage capacity for over 20000 exam. <b>Origin :USA,EUROPE,JAPAN</b></p>	1		
22	Corneal topography	<p>Axial length keratometry Anterior chamber depth central corneal thickness Lens thickness Corneal wave front analysis Pupillometry White to white fully integrated patient database Patient search function Input post refraction data Pre-op input lens and vitreous body Multiple surgeon pre-setting ULIB databasecompatible</p>	1		

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		Data base customizable Camrllia-calossi, shames ( no history) Toric IOL rotation simulator Abulafia – Koch astigmatism formula Barrett and olsen formulae with the barrett Rx , the barrett toric calculator formula , the barrett true K and the barrett universal LL formulae full feature corneal mapping. Accurate corneal radii Keratoconus probability index Map ( pupil size 2.5 – 7.0 mm ) Simulation graphs Pupillometry Dynamic , photopic , mesopic Decentralization and latency graph. <b>Origin :USA,EUROPE,JAPAN</b>			
23	Optical coherence topography/angiography (OCTA) with anterior segment accessories.	<b>OCT imaging:</b> <ul style="list-style-type: none"> <li>• Scan speed: <math>\geq 26,000</math> A-scan/second.</li> <li>• Depth resolution (in tissue): <math>\geq 5\mu\text{m}</math>.</li> <li>• Transverse resolution (in tissue): <math>\geq 15\mu\text{m}</math>.</li> <li>• Scan depth: <math>\geq 2\text{mm}</math>.</li> <li>• Scan beam wavelength (<math>\lambda</math>): <math>(840 \pm 10 \text{ nm})</math>.</li> </ul> <b>Fundus imager:</b> <ul style="list-style-type: none"> <li>• Field of view: <math>\geq (15^\circ \times 15^\circ)</math>.</li> <li>• Illumination: near IR.</li> <li>• Angiography: Yes</li> </ul> <b>Motorized focus range:</b> $\geq (-20\text{D to } +12\text{D})$ . <b>Computer unit:</b> <ul style="list-style-type: none"> <li>• RAM: <math>\geq 8\text{GB}</math>.</li> <li>• Hard disk 1TB</li> <li>• Display: <math>\geq 22"</math> LCD.</li> <li>• CD/DVD: DVD multi drive.</li> <li>• Printer.</li> </ul> <b>Input devices: keyboard &amp; mouse.</b> <b>Input power:</b> 220/240 VAC, 50/60 Hz single phase. Three Pin G type Plug, Voltage stabilizing and over current protection circuit <b>Origin :USA,EUROPE,JAPAN</b>	1		
24	Optical fundus camera/fundus fluorescein	<b>Types of photography:</b> Color photography, fluorescein angiography. <b>Picture Angle:</b> $\geq 45^\circ$ and $\geq 30^\circ$ . <b>Working Distance:</b> $\geq 30 \text{ mm}$ (distance between examined eyes to front end of objective lens). <b>Pupil Diameter:</b> $\geq 3.0\text{mm}$ . <b>Light Source (for Photography):</b> Xenon flash lamp. <b>Display:</b> $\geq 5$ inch color LCD monitor. <b>Movements:</b> Horizontal movements, vertical movement, chin rest movement. <b>Computer (Labtop):</b> -Windows. -Display: $\geq 22$ LCD. -Hard Disk: for storage more than 10000 image. -Interface: USB, internet connection. -Export/Import: An image formats (Dicom,	1		

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		bitmap, jpeg, patient list). -Internal CD/DVD burner or Blue Ray. <b>Accessories:</b> USB printer, USB stick, Table Motor, Cables. <b>Input power:</b> 220/240 VAC, 50/60 Hz single phase. <b>Environmental requirements:</b> 1-The unit shall be capable of being stored continuously in ambient temperature of (-5-60deg C) and relative humidity of (5-95%). 2-The unit shall be capable of operating continuously in ambient temperature of (5-40 deg C). <b>Origin :USA,EUROPE,JAPAN</b>			
25	Argon laser	Lightweight and compact design-5.7inch color LCD with touchscreen control box Stable and reliable green laser Multiple scan patterns Auto forward Wide range of selectable delivery units <b>Origin :USA,EUROPE,JAPAN</b>	1		
26	YAG laser	<b>Beam characteristics:</b> • Nd:YAG wave length (nm): 532 (green). • Nd:YAG delivered power (W): (1~4) • Aiming beam: ✓ <b>Type:</b> diode or red diode. ✓ <b>Wavelength (nm):</b> (630~670). ✓ <b>Power (mW) :</b> < 3 adjustable. • Delivery modes: single, repeat or continuous. ✓ <b>Exposure durations (sec):</b> (0.01~99.9). ✓ <b>Repeat time (sec):</b> (0.01~6). • Spot diameter (µm): (50~1000) <b>Delivery system type:</b> slit lamp or intraocular probe or handpiece or indirect ophthalmoscope. <b>Cooling requirement:</b> air. <b>Input power:</b> 220/240 VAC, 50/60 Hz single phase. Three Pin G type Plug, Voltage stabilizing and over current protection circuit <b>Origin :USA,EUROPE,JAPAN</b>	1		
27	Slit lamp with applanation tonometer	<b>Microscope:</b> • Magnification Type: Continuous Zoom • Magnification changer: 2 position lever. • Magnification: 2 step magnifications. • Working Distance: ≥100mm. <b>Illumination Unit:</b> • Slit image rotation: 0° to 180°. • Tilting illumination: up to 20°. • Filter Disc: A Cobalt Filter, Green Filter, Yellow Filter, Natural density and open aperture. • Halogen Lamp. <b>Input power:</b> 220/240 VAC, 50/60 Hz single phase. <b>Movement:</b> Longitudinal (In/Out), Lateral (Left/Right), Vertical (Up/Down). <b>Origin :USA,EUROPE,JAPAN</b>	1		
28	Defibrillator ( DC )	<b>Energy selection:</b> -Internal: (5-50) J	1		

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		<p>-External:</p> <ul style="list-style-type: none"> <li>• Adult: (50- 360)J for monophasic, (50-200)J for Biphasic</li> <li>• Pediatric / Neonatal: (2-20) J.</li> </ul> <p><b>Paddle controls:</b> Charge, discharge, Others.</p> <p><b>Waveform shape:</b> Biphasic, others.</p> <p><b>Synchronizer:</b> Yes.</p> <p><b>Pediatric paddles:</b> Yes.</p> <p><b>Optional paddles:</b> Yes (Reusable, Sterilizable).</p> <p><b>Disposable electrodes:</b> Adult and pediatric (for 200 patients.)</p> <p><b>AED mode:</b> yes.</p> <p><b>ECG MONITOR :</b></p> <ul style="list-style-type: none"> <li>• Type: Color LCD or better.</li> <li>• Screen, (in): <math>\geq (5*3.9)</math>.</li> <li>• Sweep speed, mm/sec: <math>\leq 50</math> selectable.</li> <li>• Lead configuration: <math>\geq 3</math>.</li> <li>• Through-the-paddles monitoring: Yes.</li> <li>• HR display: Yes.</li> <li>• HR alarms: Yes.</li> <li>• Lead-fault indicator: Yes.</li> </ul> <p><b>External pacemaker:</b> yes.</p> <ul style="list-style-type: none"> <li>• Pacing mode: demand and/or fixed.</li> <li>• Pacing rate (ppm): <math>\leq(25-210)</math></li> <li>• Output current (mA): <math>\leq(0-200)</math></li> <li>• Pulse width (msec):<math>&gt;20</math></li> </ul> <p><b>ECG Recorder:</b> Thermal printer.</p> <ul style="list-style-type: none"> <li>• Annotation: Time, date, lead, gain, heart rate, operating mode.</li> </ul> <p><b>Other Monitored Parameters:</b> SpO2, NIBP, IBP, Temperature and (Optional EtCO2).</p> <p><b>Modular:</b> Can be equipped with additional monitoring capabilities.</p> <p><b>Cart:</b> Yes.</p> <p><b>Power:</b></p> <ul style="list-style-type: none"> <li>• Power input to be 220-240VAC, 50Hz,G type Plug.</li> </ul> <p><b>Battery Power:</b></p> <ul style="list-style-type: none"> <li>• Type: Removable.</li> <li>• Operating time, hr.: <math>\geq 2</math> continuous ECG monitoring or <math>\geq 20</math> discharge.</li> <li>• Recharge time, hr.: <math>\leq 3</math>.</li> </ul> <p><b>Environmental requirements:</b> the equipment suitable for work in the climate conditions in Iraq in terms of temperature &amp; humidity.</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>			
29	Digital visual acuity chart	<ul style="list-style-type: none"> <li>• Touch screen LCD: <math>\geq 22</math> inch.</li> <li>• Both monocular and binocular vision tests.</li> <li>• Customizable working distance: up to 8 m, step 5 cm.</li> <li>• Preselected background luminance</li> </ul>	1		

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		<p>levels: normal or dark room.</p> <ul style="list-style-type: none"> <li>• Smart remote control keys to run all tests.</li> <li>• Programmable test sequences.</li> <li>• Maddox Rod Test.</li> <li>• Video player with child's entertainment and stereo audio.</li> <li>• Eye pictures: anatomy, pathology and therapy illustrations.</li> <li>• Standard wall mounting or table version.</li> <li>• Free software updates forever.</li> <li>• Software languages available: English, Arabic.</li> <li>• Letters Snellen / Sloan</li> <li>• Letters Sloan</li> <li>• Numbers Snellen</li> <li>• Numbers Sloan</li> <li>• Numbers Universal</li> <li>• Numbers Digital</li> <li>• Children Standard</li> <li>• Children Sloan</li> <li>• Children Pre-School (Handsc</li> <li>• Children Lea Symbols</li> <li>• Snellen E</li> <li>• Landolt C</li> <li>• HOTV</li> <li>• Crowding Bars</li> <li>• Snellen Contrast</li> <li>• Snellen Modified</li> <li>• Bailey-Lovie</li> <li>• LogMar</li> <li>• Snellen /6m</li> <li>• Snellen /5m</li> <li>• Snellen /4m</li> <li>• Snellen /3m</li> <li>• Snellen /2m</li> <li>• Astigmatism tests</li> <li>• Cross cylinder tests</li> <li>• Amsler grid tests</li> <li>• Fixation point tests</li> <li>• Street lamp (driving) tests</li> <li>• Ishihara Test</li> </ul> <p><b>Power and environmental requirements:</b></p> <ul style="list-style-type: none"> <li>• Power input to be 220-240VAC, 50Hz. Three Pin G type Plug, Voltage stabilizing and over current protection circuit.</li> <li>• UPS of suitable rating.</li> <li>• The unit shall be capable of being stored continuously in ambient temperature of (-5to60) deg C and</li> </ul>			

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		<p>relative humidity of (5-95)% non-condensing.</p> <p>The unit shall be capable of operating in ambient temperature of (5-40) deg C.</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>			
30	Synoptophore	<p><b>Movement of optical tubes:</b></p> <p>Horizontal: <math>\geq +50^\circ</math>.  <math>\leq -40^\circ</math></p> <p>Vertical: <math>\geq</math> Hyper <math>30^\circ</math>.  <math>\leq</math> Hypo <math>30^\circ</math>.</p> <p>Torsional: <math>\geq</math> Incyclo <math>20^\circ</math>.  <math>\leq</math> Exyclo <math>20^\circ</math>.</p> <p><b>Magnification:</b> <math>\geq 1.65x</math>.</p> <p><b>Diameter of Field:</b> <math>\geq 55mm</math>.</p> <p>Equipped with a pair of Haidingers Brush and 20 pairs of pictures with different angle.</p> <p><b>Advanced LED luminophor.</b></p> <p><b>LIDE ILLUMINATION:</b> by rheostat controlled 6V lamp for each slide. After image illumination by 6V lamp.</p> <p><b>STANDARD ACCESSORIES:</b></p> <ul style="list-style-type: none"> <li>• A set of slides containing <math>\geq 9</math> pairs.</li> <li>• One power cord.</li> <li>• One dust Cover.</li> <li>• Spare 6V bulbs.</li> </ul> <p><b>Power Input</b> to be 220-240VAC, 50 Hz.</p> <p>Environmental requirements: the equipment suitable for work in the climate conditions in Iraq in terms of temperature&amp;humidity.</p> <p><b>Origin :USA,EUROPE,JAPAN</b></p>	1		
31	Centrifuge	<ul style="list-style-type: none"> <li>• Spins 3ml-15ml test tubes at 5000 rpm</li> <li>• Minimum 16 tubes</li> <li>• Easy cleanout bowl <ul style="list-style-type: none"> <li>▪ 0- 5000 - RPM</li> </ul> </li> <li>• Digital programmable control and readout</li> <li>• Variable speed and time settings</li> <li>• Lid safety lock</li> <li>• high g-forces for fast separation</li> <li>• Rubber feet to prevent slipping</li> <li>• Impact-resistant lid</li> <li>• Zero-rpm interlocking lid</li> <li>• Wide mouth for easy clean-up</li> <li>• Metal rotor and tube shields</li> <li>• Brushless motor</li> <li>• Angled and (swinging )tube holder as alternative</li> <li>• Fast breaking</li> <li>• Programmable time and speed</li> <li>• Rubber feet to prevent slipping</li> <li>• POWER REQUIRMENTS :220v ,50 Hz</li> </ul> <p><b>Origin :USA,EUROPE,JAPAN</b></p>	1		
32	Water bath	<ul style="list-style-type: none"> <li>• Material: seamless stainless steel</li> <li>• External: stainless steel, powder coated</li> </ul>	1		



No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		<ul style="list-style-type: none"> <li>• Temperature range: 1°C above ambient to 100°C</li> <li>• On off switch and display by thermometer graded for temperature</li> <li>• Accuracy: 0.2°C</li> <li>• Temperature preset buttons</li> <li>• Circulation Pump to mix water</li> <li>• Microprocessor controlled</li> <li>• Heater: 1000- 1400 watts</li> <li>• Safety Device for overheating protection</li> <li>• Bath Volume: 20 liters</li> <li>• With stainless steel gabled cover</li> <li>• The exterior should remain cool, glass wool insulator</li> <li>• Alarm indicator for overheat limits, low water cutoff</li> </ul> <p>• Power Requirements 220-240 V, 50/60 Hz)  <b>Origin :USA,EUROPE,,JAPAN</b></p>			
33	Lab. Microscope	<p><b>OBSERVATION TUBES Type :</b> binocular  <b>Eyepieces,;</b> 10x,15x, wide field, high-eye point  <b>Interpupillary distance adjustment;</b> mm : <math>\geq</math>(55 -75),Adjustable .</p> <p><b>NOSEPIECE CONFIGURATION:</b> Quadruple or more  Objectives Magnification: (4x,10x,40x,100x) ,other should be specified  Objectives Type : Achromatic, plan achromatic, plan apochromatic ,or others  <b>TOTAL MAGNIFICATION:</b> <math>\geq</math>(40x-1000x)  <b>CONTRAST METHOD:</b>  Brightfield: yes  Darkfield: yes  Phase: optional <input type="checkbox"/></p> <p><b>ILLUMINATION</b>  Condenser type: Abbe,achromatic &amp;/ or other type  Light source: LED (preferred),halogen, or other <input type="checkbox"/></p> <p><b>STAND</b>  Focusing mechanism: Moving stage, rack and pinion  Coarse, fine adjustments: Coaxial, low mounted, <math>\geq</math> 1<math>\mu</math> increments  <b>STAGE Type:</b> Mechanical or better  Tension adjustment: Coaxial <input type="checkbox"/>  Stage Motion: X-Y  Numerical aperture: 0.9 to 1.4  Dust cover: yes  Environmental requirements: the equipment suitable for working in the climate conditions of Iraq in terms of temperature &amp; humidity  <b>POWER SUPPLY:</b> 220-240V,50-60Hz  <b>Origin :USA,EUROPE,,JAPAN</b></p>	1		
34	Intubation set	<p>Laryngoscope with different blade sizes (Adult and Pediatric)  Endotracheal tubes different sizes (2.5 to 9.0)  Magill forceps  Stellate  Airway kit bag  Airways different sizes (Adult and Pediatric)  Laryngeal mask different sizes (Adult and</p>	1		

No.	Device name	Note	Qty	Unit price IQD	Total price IQD
		Pediatric) Ambu bag (Adult and Pediatric) <b>Origin :USA,EUROPE,JAPAN</b>			
35	Ophthalmic cautery unit	RFS-4000K (220-240 volts) Mode: cut, cut&coagulation, fulguration, bipolar. Output voltage: variable from 500 to 600 ± 20% Output power: 0~100 w Output frequency: monopolar mode 4.00MHZ Bipolar mode 1.71MHZ Mode&output waveform: cut (fully filtered) Cut&coag (fully rectified) Coag (partially rectified) Fulguration(Spark-gap) Bipolar <b>Accessories:</b> Two (2) footswitches RF surgipens Neutral plates Surgical electrodes Bipolar forceps <b>Origin: Europe, USA, Japan</b>	1		