

Other

Mortuary

No.	Item Specifications
1	Technical Specification
	1. 4 body chamber
	2. Should have interior and exterior finish: 0.5mm SS steel, Should have corrosion free exterior and interior finish, preferably 304 Grade of steel.
	3. Should have vapour proof incandescent lamp.
	4. Should have electronic temperature indicator cum controller, should be with Audiovisual Alarm.
	5. Should be hygienic.
	6. Should be easy to maintain.
	7. Should be compact and neat.
	8. Should have flexibility of shifting.
	9. Should have simplified cadaver handling.
	10. Can be housed at any convenient location.
	11. Width: 2000(mm) approx.
	12. Depth: 2400(mm) approx.
	13. Height: 1800(mm) approx.
	14. Insulation thickness: 80(mm) approx.
	15. Insulation material: Rigid polyurethane foam (CFC free), Should be environment friendly, CFC free cooling.
	16. Density: 40Kg/m ³
	17. One piece stainless steel tray with tubular edge and handles, special loading trolley and corrosion free S.S Steel.
	18. 230V, 50Hz, Single Phase, 10Kva
	19. Specify power consumption.
	20. Suitable voltage stabilizer to be supplied (specify make, model and capacity)
	21. Room size: 4M(W)x6M(D)x3M(H)
	22. Necessary civil works to be included.
	23. Compression in the equipments should be ISI Marked/ of international standard.
	24. Temperature Range: 2deg C to -17deg C
	Lifting trolley
	to load corpses in refrigerating chambers, made stainless steel, hydraulic mechanism with manual pump and hydraulic cylinder.
	Ball bearing sliding.
	Tube handle for ease of transport.
	Provided with four wheels of a diameter of 150 mm. Dimensions: 730 x 920/1600 x 2460 mm. (large x width x height-).
	Technical specifications Autopsy table
	1. Autopsy table of stainless steel pedestal design mounted to a central support column having one accessdoor.
	2. Table top: with foldable perforated Top surface with 3/8inches diameter holes
	3. Table dimensions should be 260 cm X 75cm X 80-90cm
	4. Carrying capacity: Max.200 Kgs
	5. Down draft ventilation system with minimum capacity of 1000 cubic meter /h
	6. Hydroaspirator near the sink for collection and disposal of body fluids
	7. 2 built in Basins (one with grinder for waste water below the table top and other on the surface of table top.
	8. 2 meter attached shower hose with hand sprinkler
	9. 2 attached taps mixing cold and warm water (one manual, other with sensor)
	10. Separate switches on side of table for power, water, grinder, suction
	11. Measuring scale on one side of table
	12. Should conform to ISO standard / CE Certified
	Accessories with Autopsy table
	1. One external electric geyser of standard make of cap. 25 lt. for water heating
	2. One ceiling mounted shadow less light with, double adjustable dome: each dome has 50 cm width and single reflectors. Each reflector should be fitted with halogen bulb of 24V 150W and special filter glass for heat absorbing & color correction.
	Should have removable handle for maneuverability of dome and for adjusting the focus of working zone.
	Should be provided with emergency standby bulb, fitted inside the dome with switch over facility. Finish in epoxy powder coated. Supplied with low
	3. Two foot mounted shadow less lights with single adjustable dome of 50 cm width, single reflectors Fully Balanced Light.
	Reflector should be fitted with halogen bulb of 24V 150W and special filter glass for heat absorbing & colors correction.
	Removable handle for maneuverability of the dome and for adjusting the focus of the working zone
	Provided with emergency standby bulb, fitted inside

	4. One Instrument trolley fully made of stainless steel having two shelves of size 18x28".
	5. One organ weighing digital balance of capacity. 10kg, accuracy. 2gm. Platform size 230x300mm
	6. One cadaver weighing platform with electronic digital weighing scale of cap. 200kg and accuracy 50gm. The platform will be hollow square or round pipe structure with a removable stretcher over it. The size of stretcher should be 2ft.x6ft. with stainless steel top and handles for holding it.
	Warranty - 2year

Scrub

No.	Item Specifications
	Scrub Unit Double
	Surgical Scrub Station.
	Unit Is A Two Station Unit With Automatic/Manual Controls.
	It Includes Thermostatic Controlled Water Temperature Selector, Solid State Timer, Automatically Timed Scrub Period, Automatic Water Shut-Off, Full Arm Wash/Rinse Spray, And Built-In Detergent Dispenser (Knee Or Thigh Controlled).
	Unit Is Used In Surgical Suites Or Scrub-Up Areas For Surgical Teams.
	Optional Electrical Configurations should be Available.
	Dispenser Soap Foot Operated
	- Dispenser to be manufactured of a mild steel frame with a polypropylene bottle for dispensing the soap. - To be operated by a foot pump attached to the dispenser with hard polythene tubing. - Unit to be supplied with back plate wall mounting unit.
	Dispenser Nail Brush Elbow Operate
	- Dispenser to be manufactured of stainless steel with an elbow operated dispenser action. - Unit to be supplied with 12 brushes.

Lithotripsy

No.	Item Specifications
1	Description of Function
	Renal extracorporeal lithotripter systems noninvasively disintegrate kidney stones with focused shock waves, allowing the resulting sand-size fragments to pass out of the body during urination.
	Operational Requirements
	Completely integrated system with Fluoroscopy and Ultrasound guided stone localization and targeting along with digital documentation and patient data management system is required. The system should be compatible with Hospital Information System (HIS - VII).
	Technical Specifications
	Shockwave Generator:
	Type: Electromagnetic
	Triggering: Manual, Automatic & ECG gating.
	Pulse Frequency: = 60 – 120 per minute (User Selectable)
	Penetration Depth>=130 mm
	Pressure at focus. Minimum 20 MPa or less, Maximum 50 MPa or more
	Energy level: User Selectable & Variable
	The Shock wave Generator should be guaranteed for minimum of one million shockwaves
	Imaging System:
	Integrated non detachable Fluoroscopy Should have high frequency generator and allow pulse fluoroscopy.
	kV Range: 40 -110 kV
	mA Range: 4 - 8 mA
	Focal Spot Sizes: Dual: 0.6/1.2
	Image Intensifier Size: 9 inches.
	Collimation: Motorized, Iris collimator.
	Post Exposure Image Enhancement facility.
	Imaging System Ultrasound: High resolution ultrasound system Localization should be done through integrated Ultra-sound iso centric to the shock wave source with inline/outline transducer for best image quality
	Transducer:
	1. 3.5 /5 MHz Convex Sector
	2. Ultrasound system should be able to accept 6.0-7.5 MHz electronic biplane trans rectal probe.
	Mode:
	B Coupling arm to integrate the ultrasound probe with shockwave generator.
	Patient Table System:
	1. Fluoroscopy compatible, motorized patient Table with Vertical, Longitudinal and lateral movements. Facility for tilt and trendelenburg. Patient load capacity of approx 150 Kg.
	2. The table should be provided with accessories suitable for urological endoscopic procedures
	Fluoroscopic Imaging System: 17 inches LCD Display with data storage and image storage.
	Minimum storage would be 1000 images with 1024x1024x(12bits)

	Patient Monitoring: Monitoring of ECG, RESPIRATION, SpO2 and Arrhythmia.
	Separate Remote Console with facility for:
	1. Controlling imaging, computerized stone localization, targeting and shockwave parameters
	2. Patient monitoring
	Environmental factors
	The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%
	Power Supply
	Power input: 220-240V/ 50 Hz AC Single phase or 380-400V AC 50 Hz Three
	phase fitted with appropriate Sudanese plugs and sockets.
	Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications.
	(Input 160-260 V and output 220-240 V and 50 Hz)
	Standards, Safety and Training
	Should be FDA, CE, UL or BIS approved product
	Should be compliant to ISO 13485: Quality systems - Medical devices - Particular
	requirements for the application of ISO 9001 applicable to manufacturers and
	service providers that perform their own design activities.
	Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements
	Documentation
	User/Technical/Maintenance manuals to be supplied in English.
	Certificate of calibration and inspection.
	List of Equipments available for providing calibration and routine Preventive
	Maintenance Support as per manufacturer documentation in service/technical
	List of important spares and accessories with their part number and costing.
	Log book with instructions for daily, weekly, monthly and quarterly maintenance
	checklist. The job description of the hospital technician and company service
	engineer should be clearly spelt out.