

Out Patient

Commode Wheel Chair

No.	Specifications
	Heavy duty wheelchair
	stainless steel , aluminum , chrome plate.
	wheel break , solid wheel ,rear wheel ϕ 600-650 mm , front wheel ϕ 200- 250 mm.
	patient weight : => 150 Kg , seat width : 450 - 600 mm , Depth : 400 - 450 mm
	foam rubber , armrest , footrest
	foldable backrest
	Brake(for person who is push , for the person on the seat)
	TUV and FDA approved

Cardio Tocograph (CTG)

No.	Specifications
	- Antepartum fetal monitor for Foetal HR and contractions tracking. - Trolley mounted with twin Ultrasound Transducer, Contractions Transducer (TOCO), - Patient Event marker and unique clinical event marker with trace annotation, - Automatic fetal movement detection - High Resolution thermal printer Alarm facilities - Communication ports (RS232). - Built-in Battery rechargeable

ENT Diagnostic Set

No.	Item Specifications
1	Description of Function
	Auroscope head with 3 standard specula,
	Nasal speculum,
	Laryngeal stem to take tongue depressor,
	Laryngeal or post nasal mirror
	Antrum sheath.
	Large handle and two spare lamps.
	Head Mirror
	All to be supplied complete in plastic covered case.

Examination Lamp

No.	Item Specifications
1	Description of Function
1.1	Examination light/lamp use in hospital for general examination & minor surgical procedure in wards and in treatment rooms etc.
2	Operational Requirements
2.1	Shall operate on mains electric supply.
3	System Configuration
3.1	Examination lamp with all standard accessories.
3.1	Patient chair, 1 unit
4	Technical Specifications
4.1	Mobile examination light with sturdy construction and easily moveable.
4.2	Shall have heavy base with 5 swivel castors, 2 with brakes. Caster must be medical chemical resistant.
4.3	Low centre of gravity for optimal stability and reach.
4.4	Shall have single lamp with 7 LED 12V 1W light.

4.5	LED shall have life time more than 20,000 hours of operation.
4.6	Field-of-view diameter, approximately. 0.15m.
4.7	Homogeneous illumination across entire field-of-view, approx. 60.000 lux (at 0.5m).
4.8	Colour temperature, approximately: 4500K.
4.9	Light head mounted on spring loaded articulating arm, height approx.1.60m.
4.10	On/off switch incorporated in base or spring loaded articulating arm.
5 Accessories, spares and consumables	
5.1	Accessories:
	☐ 1 x spare set of fuses.
	☐ 1 x spare of LED Lamp.
5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).
6 Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.
	Power consumption, approximately: 10W.
7 Standards and Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.
8	User Training
8.1	Must provide user training (including how to use and maintain the equipment).
9 Warranty	
9.1	Comprehensive warranty for 2 years after acceptance.
10 Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.

Hammer

No.	Specifications
	Triangle hammer
	Description:
	Size: 18cmx2.2cm
	Size of the hammer: 5cmx4.3cmx1cm
	Material of handle: Zinc alloy
	Material of hammer: PVC
	FDA US,TUV,CE

Nebulizer - Home Use

No.	Item Specifications
1 Description of Function	
1.1	Nebuliser is a device used to administer medication to people in forms of a liquid mist to the airways. It is commonly used in treating cystic fibrosis, asthma, and other respiratory diseases.
2 Operational Requirements	
2.1	Home Use compact Nebuliser is required.
3 System Configuration	
3.1	Nebuliser, complete unit with all standard accessories.
4 Technical Specifications	

4.1	Compact, lightweight, low noise.
4.2	Durable long life compressor. must be able to run uninterruptedly for one hour.
4.3	Maximum pressure: 2.0 to 2.5 bars.
4.4	Must produce particle of size 1-5 micron.
4.5	Aluminium cabinet painted with epoxy powder.
4.6	Piston-type electric aspirator that offers high performance and great durability.
4.7	Protective thermal cut out relay.
4.8	Air delivery rate app.15 L/min.
5 Accessories, spares and consumables	
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.
6 Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.
7 Standards and Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND
7.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.
8 User Training	
8.1	Must provide user training (including how to use and maintain the equipment).
9 Warranty	
9.1	Comprehensive warranty for 1 year after acceptance.
10 Maintenance Service during Warranty Period	
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.
11 Documentation	
11.1	User (Operating) manual in English.
11.2	Service (Technical / Maintenance) manual in English.
11.3	List of important spare parts and accessories with their part number and costing.
11.4	Certificate of calibration and inspection from factory.

Nebulizer Heavy Duty (Hospital)

No.	Item Specifications
1 Description of Function	
1.1	Nebuliser is a device used to administer medication to people in forms of a liquid mist to the airways. It is commonly used in treating cystic fibrosis, asthma, and other respiratory diseases.
2 Operational Requirements	
2.1	Heavy duty compact Nebuliser is required.
3 System Configuration	
3.1	Nebuliser, complete unit with all standard accessories.
4 Technical Specifications	
4.1	Compact, lightweight, low noise.
4.2	Durable long life compressor. Suitable for heavy duty/ institutional (hospital) use, must be able to run uninterruptedly for one hour.
4.3	Maximum pressure: 2.0 to 2.5 bars.
4.4	Must produce particle of size 1-5 micron.
4.5	Aluminium cabinet painted with epoxy powder.
4.6	Piston-type electric aspirator that offers high performance and great durability.
4.7	Protective thermal cut out relay.
4.8	Air delivery rate app.15 L/min.

4.9	24 hours continuous work for hospital use.
5 Accessories, spares and consumables	
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.
6 Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.
7 Standards and Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND
7.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.
8 User Training	
8.1	Must provide user training (including how to use and maintain the equipment).
9 Warranty	
9.1	Comprehensive warranty for 1 year after acceptance.
10 Maintenance Service during Warranty Period	
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.
11 Documentation	
11.1	User (Operating) manual in English.
11.2	Service (Technical / Maintenance) manual in English.
11.3	List of important spare parts and accessories with their part number and costing.
11.4	Certificate of calibration and inspection from factory.

Oxygen Flow regulator

No.	Specifications
	4.10 Regulator:
	☑ Bull nose screw type, medical oxygen cylinder fitting
	☑ Regulated to convert standard cylinder pressure (typically 2,000 psi) to approximately 4 BAR (4 atmospheres) pressure
	☑ Regulator delivery pressure must be factory pre-set, and not permit user adjustment
	☑ Maintenance engineer adjustment of delivery pressure via a screw slot or covered or capped system is required
	☑ Regulator must be diaphragm type needle valve regulators are NOT permitted.
	☑ The regulator must provide genuine pressure reduction and not just flow reduction
	☑ Regulator must incorporate overpressure safety valve with auto venting
	4.11 Flow Meter:
	☑ Back Pressure Controlled Flow Meter
	☑ Sturdy and reliable Flow Meter Unit for an accurate measuring of flow of gases.
	☑ Chromium plated Brass body.
	☑ Metering tube and cover made of unbreakable Poly carbonate.
	☑ Flow adjustment by Needle valve equipped with inlet filter – 100 µm.
	☑ Flow rate range 0 – 15 litres / minute.
	☑ Inlet pressure suitable for the cylinder.
	☑ Flow meter to be attached to regulator output
	4.12 Bubble Humidifier with Safety Valve and Pressure Relief Valve:
	☑ Lid made of ABS Plastic
	☑ Jar made of Unbreakable Poly Carbonate
	☑ Valve Brass chromium plated
	☑ Humidifier jar must be steam autoclaveable / gas sterilizeable.

Digital Thermometer

No.	Item Specifications
1	Description of Function
1.1	Clinical digital thermometer to check the temperature of body.
2	Operational Requirements
2.1	Human oral use.
3	System Configuration
3.1	Digital Thermometer, Clinical.
4	Technical Specifications
4.1	Flat type, wide thermometer, safe to use, no glass, no mercury.
4.2	Scale: Celsius scale.
4.3	Measurement range: 32°C to 45°C
4.4	Accuracy: +/- 0.1°C between 35°C to 42°C.
4.5	Display: Liquid crystal display, easy to read.
4.6	Shall works on battery. There shall be low battery indicator.
4.7	Shall have facility of beep sound and switch off.
4.8	Water proof for ease of cleaning.
4.9	Shall provide battery. Bidder to indicate the type of and number of battery to be supplied.
5	Accessories, Spares and Consumables
5.1	Packing:
	☐ Single piece packing in plastic barrel with cover.
6	Operating Environment
6.1	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.
7	Standards and Safety Requirements
7.1	CE (93/42 EEC Directives) or USFDA approved product certificate.
8	User Training
8.1	Not applicable.
9	Warranty
9.1	Warranty for 1 year after acceptance.
10	Documentation
10.1	User's manual to be supplied in English.

Torch (Diagnostic Penlight)

No.	Item Specifications
1	Technical Specifications
1.1	LED , Xenon lamp or Better for light.
1.2	Including 2 batteries type AA.
1.3	Extremely heavy duty resistant casing.
1.4	Practical metal clip on handle for attaching the light to the physician's coat.
2	Accessories, spares and consumables
2.1	Not applicable,.
3	Operating Environment
3.1	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.
4	Standards and Safety Requirements
4.1	Must sub mit ISO 9001 or ISO13485:2003/AC:2007 for Medical Devices AND
4.2	CE or U SFDA approved product certificate.
5	Warranty
5.1	Warranty for 2 years after acceptance.
6	Maintenance Service during Warranty Period

6.1	Standard warranty conditions are applicable.
7	Installation and Commissioning
7.1	Must supply preassembled unit, ready to use.

Wheel Chair

No.	Item Specifications
1	Description of Function
1.1	Wheel chair is used in hospitals for means of mobility by disabled persons/or persons who have impairments that limit their ability to walk.
2	Operational Requirements
2.1	It shall be a foldable BUT shall NOT a collapsible type. The mechanism of folding & unfolding must be easy. Large standard adult size hospital wheelchair fixed/ foldable type. Easy maneuverable.
3	System Configuration
3.1	Wheel chair invalid type.
4	Technical Specifications
4.1	Must be made of the highest quality materials such as Chrome polished finish or stainless steel.
4.2	Dimensions: approx. W 68 cm × D 110 cm × H 94 cm. Seat width: approx.450mm (18").
4.3	Wheels to have braking/locking mechanism and self-propelling SS hoops; two swivel castors (200mm dia. approx.) in front.
4.4	Tyre fitted with self-propelling hoops and brake arrangements.
4.5	Tyre sizes: Rear approx. 60cm (24") solid Mag tyres or Bicycle type spoked wheels, and Front approx. 200mm (8") Mag swivel casters.
4.6	Armrests: Padded, Fixed height and detachable.
4.7	Waterproof upholstery and easy to clean.
4.8	Padded back rest, seat and push handle.
4.9	Footrests: Fixed height and swing away foot plates and detachable, preferably made of Aluminium.
4.1	Maximum Patient weight capacity: approx. 110kg (250 lbs.).
4.11	I.V. pod shall be provided at the right side of the back rest.
5	Accessories, spares and consumables
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.
6	Operating Environment
6.1	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.
7	Standards and Safety Requirements
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND
7.2	CE or USFDA approved product certificate.
8	User Training
8.1	Not applicable.
9	Warranty
9.1	Comprehensive warranty for 1 year.
10	Maintenance Service During Warranty Period
10.1	Standard warranty conditions are applicable.
11	Installation and Commissioning
11.1	Must supply preassembled unit, ready to use.
12	Documentation
12.1	User's manual shall be supplied in English.

Aneroid sphygmomanometer

No.	Specifications
	1 Description of Function
	1.1 Sphygmomanometer is a device used to measure blood pressure, composed of an inflatable cuff to restrict blood flow, and a mechanical manometer to measure the pressure.
	2 Operational Requirements
	2.1 Aneroid sphygmomanometer having a dial to show clear numbers and pointer / needle for measurement of pressure.
	3 System Configuration
	3.1 ☐ Aneroid sphygmomanometer
	☐ Cuffs for child size and for adult size (regular)
	☐ Inflation bulb
	☐ Carrying pouch
	4 Technical Specifications
	4.1 Packed in easy carrying high quality pouch made of waterproof cloth to accommodate cuff, and inflation bulb.
	4.2 Gauge to be calibrated in 2 mm Hg units.
	4.3 Must provide blood pressure cuffs for child size and for adult size (regular).
	5 Accessories, spares and consumables
	5.1 All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.
	6 Operating Environment
	6.1 The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.
	7 Standards and Safety Requirements
	7.1 Must submit ISO 9001 or ISO 13485:2003/AC: 2007.
	8 User Training
	8.1 Not applicable.
	9 Warranty
	9.1 Warranty for 1year.
	10 Maintenance Service During Warranty Period
	10.1 Standard warranty conditions are applicable.
	11 Installation and Commissioning
	11.1 Must supply preassembled unit, ready to use.
	12 Documentation
	12.1 User's manual in English

Mercury Sphygmomanometer

No.	Item Specifications
	1 Description of Function
1.1	Sphygmomanometer is a device used to measure blood pressure, composed of an inflatable cuff to restrict blood flow, and a mechanical manometer to measure the pressure.
	2 Operational Requirements
2.1	Mercury sphygmomanometer.
	3 System Configuration
3.1	Sphygmomanometer with adult and paediatric size cuffs.
	4 Technical Specifications
4.1	300 mm wide tube
	5 Accessories, spares and consumables

5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).
6	Operating Environment
6.1	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.
7	Standards and Safety Requirements
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.
8	User Training
8.1	Not applicable.
9	Warranty
9.1	Comprehensive warranty for 2 years from acceptance.
10	Maintenance Service During Warranty Period
10.1	Standard warranty conditions are applicable.
11	Installation and Commissioning
11.1	Must supply preassembled unit, ready to use.
12	Documentation
12.1	User's manual in English.

Adult Scale With Tap

No.	Item Specifications
1	Description of Function
1.1	Used for routine height and weight measurements of patients, paediatric to adult.
2	Operational Requirements
2.1	It must be a platform type of weight and height measuring scale on which the patient can stand for measurement of weight and height.
3	System Configuration
3.1	Weighing Machine with Height Measuring Scale, Mechanical , paediatric to adult patients, complete unit.
4	Technical Specifications
	It must measure the weight in kilogram.
	It must measure the height in centimetre.
	Capacity weight: up to 200 kg.
	Graduation: ≤ 100 g.
	Base Measurement (platform): $\geq 330 \times 80 \times 340$ mm.
	It must be mounted on transport castors with breaks to allow free mobility from one place to other.
	Required Accessories: Offer must include telescoping measuring rod up to minimum of 200 cm.
5	Accessories, spares and consumables
	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.
6	Operating Environment
6.1	The product offered shall be designed to be stored and to operate normally under Climate ,Temperature , Humidity, etc. for Sudan.
7	Standards and Safety Requirements
7.1	Must submit ISO 9001 or ISO13485:2003/AC:2007 for Medical Devices AND
7.2	CE or USFDA approved product certificate.
8	Warranty
8.1	Comprehensive warranty for 2 years.
9	Maintenance Service During Warranty Period
9.1	Standard warranty conditions are applicable.
10	Installation and Commissioning

10.1	The supplier must accomplish proper commissioning of the item onsite.
11 Documentation	
11.1	User and/or service manual shall be supplied in English.

Tongue Depressor (Box of 100 Pcs)

No.	Item Specifications
1 Description of Function	
1.1	A tongue depressor is used to depress the tongue to allow for examination of the mouth and throat.
2 Operational Requirements	
2.1	Tongue depressor, wooden disposable.
3 System Configuration	
3.1	Tongue Depressor, disposable.
4 Technical Specifications	
4.1	Wooden tongue depressor, with rounded extremities.
4.2	Size: approx. 16 x 140mm.
4.3	Thickness: approximately 2mm.
4.4	Single use.
4.5	sterile.
4.6	Packaging: Shall supply one box of 100 wooden tongue depressors.
5 Accessories, spares and consumables	
5.1	Not applicable,.
6 Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.
7 Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO13485:2003/AC:2007 for Medical Devices AND
7.2	CE or USFDA approved product certificate.
8 Warranty	
8.1	Warranty for 2 years after acceptance.
9 Maintenance Service during Warranty Period	
9.1	Standard warranty conditions are applicable.
10 Installation and Commissioning	
10.1	Must supply preassembled unit, ready to use.

Sims vaginal speculum

No.	Item Specifications
1 Description of Function	
1.1	To retract backwards the posterior wall of the vagina to visualise the vaginal walls and cervix of the uterus.
2 Operational Requirements	
2.1	Stainless steel, reusable Sim's vaginal speculum, double ended.
3 System Configuration	
3.1	Sim's vaginal speculum of three different sizes.
4 Technical Specifications	
4.1	Approx. Dimensions:
	☐ Large: 72x34/80x38mm.
	☐ Medium: 70x32/75x35mm.
	☐ Small: 65x26/72x30mm.
4.2	Material: High grade fully stainless steel, corrosion resistance.
4.3	Maximum opening of blade 45 degrees (each).
4.4	Handle thickness approx. 2.5mm.

4.5	Workmanship: All surfaces shall be free from burrs, pits, cracks. Edges shall be smoothly rounded off & shall not be sharp.
4.6	It shall be autoclaveable/sterilizeable.
5 Accessories, spares and consumables	
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).
6 Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under Climate, Temperature, Humidity, etc. for Sudan.
7 Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO13485:2003/AC:2007 for Medical Devices AND
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.
8 User Training	
8.1	Must provide user training (including how to use and maintain the equipment).
9 Warranty	
9.1	Warranty for 2 years after acceptance.
10 Maintenance Service during Warranty Period	
10.1	Standard warranty conditions are applicable.
11 Installation and Commissioning	
11.1	Must supply preassembled unit, ready to use.

EEG Machine

No.	Item Specifications
1 Description of Function	
1.1	An electroencephalograph uses electrodes placed on a patient's scalp to measure, amplify, display in graphic form, and record the weak electrical signals generated by the brain. Electroencephalography is useful in observing and diagnosing a variety of neurologic conditions, including epilepsy, related convulsive disorders, and brain death. It can also be used to evaluate psychiatric disorders and differentiate among various psychiatric and neurologic conditions. In addition, electroencephalographic studies can assist in localizing tumours or lesions on or near the surface of the brain.
2 Operational Requirements	
2.1	EEG System completes with software for acquisition, review and the compatible computer with necessary interface and printer is required.
3 System Configuration	
3.1	32 Channel Digital EEG Systems for Neurology with complete accessories.
4 Technical Specifications	
Hardware:	
4.1	☐ Must be PC based with minimum following PC specifications: Core 2 duo / Corei5, 2GB DDR RAM, 300 GB HDD, CD/DVD RW, 21" LCD TFT Display, Key Board, Mouse and UPS of suitable ratings with minimum 30 min. back-up.
	☒ Number of EEG Channels must be 32 with colour coding, and another eight channels for Polygraph. Also any two channels can be configured as Bipolar, AC or DC through software.
	☒ Facility for simultaneous sampling of all EEG channels and multiple sampling rates.
	☒ Photoc Stimulator with software programmable for manual or automatic sequences.
	☒ Networking facility.
	☒ DICOM compatible.
4.2	CMRR must be > 110 dB or better.
4.3	Noise < 2uV peak to peak.
4.4	Input Impedance > 100 Mohm.
4.5	16 bit ADC resolution voltage of 0.153 uV.

4.6	Acquisition Software:
	☐ Facility to combine all users defined settings into templates or protocol, for use in different applications.
	☒ Facility for individual channel control, customization of montages, along with reportage capabilities.
	☒ Must display a graphical view of the current montage during the EEG recording.
	☒ Facility to define new sensors must be possible as standard i.e. assign to amplifier inputs, define traces in a montage, define calculated channels (Average, Source/Laplacian), or define trends.
	☒ Facility to click any point to display corresponding traces & Slide pointer to change displayed duration of the overview.
	☒ Facility for sortable list of all events placed in the recording, both automatically and manually.
	☒ Facility to review and add events to recorded traces.
	☒ Facility for automatic time counters and event insertion during hyperventilation.
	☒ Facility to controlled display Sensitivity for User defined value.
	☒ Facility to choose low & high cut filters along with facility to enter any user defined value.
	☐ Facility to file zip.
	☐ Facility of configurable time base.
	☐ Spike & seizure software.
	☐ Trend analysis software.
4.7	Review Software:
	☐ Paging facility as automatic paging, Mouse controlled paging and/ or Keyboard paging.
	☐ Playback of EEG for one or more channels.
	☐ Facility for zoom/ magnify EEG trace.
	☐ Facility for copy & paste of EEG or trends to reports and presentations.
	☐ Facility for Automatic generation of reports.
	☐ Facility for viewing several recordings in tiled or cascading windows.
4.8	Patient Administration Software: Network supported patient and test management software, archive to CD or DVD, powerful search, patient folder, workspaces.
4.9	Must have an option of upgrading the digital EEG to Video EEG with day/night camera using MPEG-2 3rd generation technology.
5	Accessories, spares and consumables
5.1	Accessories:
	☐ Compatible Laser Printer with 600 DPI resolution and A4 size printing facility – 01 no.
	☐ Patient cable and connectors with electrodes and papers for at least 1000 EEG exams and all the necessary power cables and other interfaces.
	☐ Optional requirements components for video EEG up gradation.
5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.
6	Operating Environment
6.1	The product offered shall be designed to be stored and to operate normally under Power Supply, Climate, Temperature, Humidity, etc. for Sudan.
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.
6.3	Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.
7	Standards and Safety Requirements
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND
7.2	CE (93/42 EEC Directives) or USFDA or TUV approved product certificate.
7.3	Shall be certified to be meeting the safety standards IEC- 60601-2-26 PART 2: Particular requirements for safety of EEG Systems.
8	User Training
8.1	Must provide user training (including how to use and maintain the equipment).
9	Warranty

9.1	Comprehensive warranty for 2 years.
10 Maintenance Service during Warranty Period	
10.1	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.
11 Installation and Commissioning	
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.
12 Documentation	
12.1	User (Operating) manual in English.
12.2	Service (Technical / Maintenance) manual in English.
12.3	List of important spare parts and accessories with their part numbers and costing.
12.4	Certificate of calibration and inspection from factory.

Emergency Trolley

No.	Item Specifications
1 Description of Function	
1.1	A trolley for transportation of a patient in the hospital.
2 Operational Requirements	
2.1	It shall be constructed fully with anti-corrosive and antirust treated epoxy powder coated steel sheet and tube or better.
3 System Configuration	
3.1	Patient trolley with handles and four swivels castors.
4 Technical Specifications	
4.1	Overall size: approximately 2030 L x 560 W x 820 H mm
4.2	Welded tubular frame with box type pattern construction.
4.3	Dished shaped top, push handles to be fitted at both ends. The dished shaped top surface shall be smooth and corrosive and rust resistance.
4.4	Shall be mobile on 4 x 200mm robust swivelling castors with non-marking grey tyres and with at least 2 diagonal castors shall have locking/brake mechanism. All four wheels MUST be fully 360 deg. swivels. Fixed direction wheels are NOT acceptable.
4.5	To be supplied complete with patient transfer board. Smooth board in either heavy duty mild steel or Aluminium Approx. size 1500 l x 500 w mm. All edges shall be rounded /curved finished. Surface to be smooth to permit easy sliding of patient onto trolley.
5 Accessories, spares and consumables	
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.
6 Operating Environment	
6.1	The product offered shall be designed to be stored and to operate normally under the conditions. The conditions include Climate, Temperature, Humidity, etc.