Specification for Emergency Department

1. B.P Instrument (Analog) with stethoscope

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page Number	Remarks
	Sphygmomanometer (BP instrument) with stethoscope			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
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 adult size (regular) • Inflation bulb • Carrying pouch • Stethoscope			
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 adult size (regular) and infant size			
4.4	Must provide Stethoscope			
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 specifiy the quantity of every item included in their offer (including items not specified above)			
6	**Operating Environment**			
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's country. The conditions include climate, temperature and relative humidity.			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO 13485:2003/ AC:2007 for Medical Devices AND			
8	**Warranty & Maintenance Service During Warranty Period**			
8.1	Comprehensive warranty for 2 years after acceptance.			
8.2	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			

9	**Authorization**			
9.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
10	**Installation and Commissioning & User Training**			
10.1	Not applicable			
11	**Documentation**			
11.1	User (Operating) manual in English.			
11.2	Certificate of calibration and inspection from factory.			
11.3	Shall accomplish the Qualification Criteria of the bidder mentioned in the main bid document			

2. Bedside Cabinet

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Bedside Cabinet (Locker)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	A bedside locker simplifies the work of the caregiver and it enhances the comfort and autonomy of the patient in terms of accessibility, convenience and storage capacity.			
2	**Operational Requirements**			
2.1	All metal construction (machine pressed CRCA steel sheets) with heavy duty anti-corrosive and antirust treated epoxy powder coated finish (other finishes are NOT acceptable). Legs Mild steel tubular construction epoxy powder coated treated.			
3	**System Configuration**			
3.1	Bedside cabinet/locker, complete unit.			
4	**Technical Specifications**			
4.1	Feet to be capped with heavy duty plastic buffers.			
4.2	Overall approximate size 820mm H x 400mm W x 400mm L			
4.3	Fitted with superimposed stainless steel top. Top to have lip or edge or retaining rail to prevent items slipping off, Finish must be smooth.			
4.4	With stainless steel towel rail.			
4.5	Lockable drawer immediately beneath the top, minimum height of drawer 18 cm.			
4.6	Below the drawer space open on all four sides – min 20 cm height to the cupboard to allow access from all sides.			
4.7	Below the open space one cupboard with metal handle/knob with reversible hinge Cabinet door so that the door direction can be adjusted to open to the right or left depending on where it is to be used.			
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 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 **AND**			
7.2	CE or USFDA approved product certificate.			
8	**Warranty & Maintenance Service During Warranty Period**			
8.1	Comprehensive warranty for 1 year after acceptance.			
8.2	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
9	**Authorization**			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
9.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
10	**Installation, Commissioning & User Training**			
10.1	Not applicable			
11	**Documentation**			
11.1	User (Operating) manual in English.			
11.2	Certificate of calibration and inspection from factory.			
11.3	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

3. Bag Valve Mask (BVM)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page Number	Remarks
	Bag Valve Mask (BVM)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	An Ambu Bag (also known as a Bag Valve Mask or BVM or Ambu bag) is a hand-held device used to provide ventilation to a patient who is not breathing or who is breathing inadequately.			
2	**Operational Requirements**			
2.1	It shall be self-inflatable and must have pop up valve (non-return valve), attachment for oxygen tube & oxygen reservoir.			
3	**System Configuration**			
3.1	Ambu bag, complete unit.			
4	**Technical Specifications**			
4.1	Bag must be made up of medical grade silicon, latex free double layered which retain sensitivity and it must be resistant to rough use.			
4.2	Inlet end of the bag must have separate port for Oxygen supplement.			
4.3	Outer port must be such that re-breathing valve or non-return valve can be attached.			
4.4	Must be supplied with Oxygen reservoir bag of 2000ml and shall deliver tidal volumes of 500-800ml			
4.5	It shall be autoclave able.			
4.6	It shall be adaptable to all type of facemasks.			
4.7	It shall come with appropriate sized facemasks.			
5	**Accessories, spares and consumables**			
5.1	Set to be supplied in a heavy duty, re-sealable plastic pouch or clear top plastic box.			
6	**Operating Environment**			
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Climate, temperature and relative humidity.			
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	**Warranty & Maintenance Service During Warranty Period**			
8.1	Comprehensive warranty for 1 year after acceptance.			
8.2	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
9	**Authorization**			
9.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
10	**Installation and Commissioning & User Training**			
10.1	Supplier must accomplish proper commissioning of equipment onsite.			

10.2	Must provide user training by company engineer (including how to use and maintain the equipment).			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish the Qualification Criteria of the bidder mentioned in the main bid document			

4. BIPAP Unit

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page Number	Remarks
	BIPAP (Bi-level Positive Airway Pressure)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	BIPAP stands for Bi-level Positive Airway Pressure. It is a breathing apparatus that helps people get more air into their lungs.			
2	**Operational Requirements**			
2.1	Integrated display screen shall display easy-to-read real time graphics in waveform or bar scale format the measured and calculated parameters.			
3	**System Configuration**			
3.1	BIPAP (Bi-level Positive Airway Pressure), complete unit with all standard accessories.			
4	**Technical Specifications**			
4.1	Machine shall be based on the solenoid valve technology and shall offer preferably auto track sensitivity and adjustable rise time.			
4.2	IPAP: approx. 4 to 30cmH2O.			
4.3	EPAP: approx. 4 to 25cmH2O.			
4.4	Breath rate: approx.0 to 30BPM with spontaneous for time mode.			
4.5	Timed inspiration: approx. 0.5 to 3.0s.			
4.6	Rise time: approx. 100 to 600ms.			
4.7	Shall have facility for upgrades.			
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 the conditions of the purchaser's country. The conditions include following operating condition Power Supply : 220- 240 VAC Grounding Condition : 10-20 V (N-E) Average Temperature : 10 - 30 °C			

	Humidity Range : Approx. 70-85%			
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 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	**Warranty & Maintenance Service During Warranty Period**			
8.1	Comprehensive warranty for 2 years after acceptance.			
8.2	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
9	**Authorization**			
9.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
10	**Installation and Commissioning & User Training**			
10.1	Supplier must accomplish proper commissioning of equipment onsite.			
10.2	Must provide user training by company engineer (including how to use and maintain the equipment).			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish the Qualification Criteria of the bidder mentioned in the main bid document			

5. Blood Glucose Meter

SN	Purchaser's Specification	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Manufacture			
	Brand			
	Type/ Model			
	Country of Origin			
1	**Description of Function**			
1.1	Meter for regular blood glucose self-monitoring purpose.			
2	**Technical specification**			
2.1	Fully automatic coding			
2.2	0.5ul small blood volume			
2.3	365 data memory with date and time			
2.4	Automatic power on & start			
2.5	Enhance data management with PC communication			
2.6	accurate test result in 5 sec			
3	**Accessories, Spare and Consumables**			
3.1	Should available minimum 25 T strip, Lancing devices, lancets and other accessories			
4	**Standards and Safety Requirements**			
4.1	CE approved product certificate			
4.2	Must submit ISO13485:2003/AC:2007 for Medical Devices AND			
5	**Installation and Commissioning & User Training**			
5.1	Must provide ready to use unit			
6	**Warranty & Maintenance Service During Warranty Period**			
6.1	Comprehensive warranty for 1 year			
7	**Authorization**			
7.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
8	**Documentation**			
8.1	User (Operating) manual in English			
8.2	List of important spare parts and accessories with their part numbers and costing.			
8.3	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

6. Cylinder Trolley (Large)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Trolley, Oxygen Cylinder (Big)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Oxygen cylinder trolley for transportation of medical oxygen cylinder within wards of healthcare facilities.			
2	**Operational Requirements**			
2.1	Oxygen cylinder trolley for handling big size oxygen cylinder.			
3	**System Configuration**			
3.1	Oxygen Cylinder trolley, big size.			
4	**Technical Specifications**			
4.1	Suitable for capacity of big (250cft) Medical Oxygen Cylinder.			
4.2	Tubular steel framework fitted with two good quality wheels of at least 100mm dia. The wheels shall be made of rubber or similar rims.			
4.3	The base of trolley shall be made of SS. Stainless steel shall be seamless conforming to 304 grade with at least 16 gauge thickness.			
4.4	All MS parts shall be pre-treated and heavy duty epoxy powder coated washable paint finish.			
4.5	Two wheels that provide grip, stability and facilitate smooth rolling, with non-marking grey tires			
4.6	The wheels must not make noise and scratches on the floor while moving and have better grip with ease of movement for effortless load movement.			
4.7	Shall have chain retention mechanism for cylinder.			
4.8	It shall be self-standing and stable when parked with or without cylinder.			
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 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 **AND**			
7.2	CE or USFDA approved product certificate.			
8	**Installation and Commissioning & User Training**			
8.1	Not Applicable			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
11	**Documentation**			
11.1	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

7. Cylinder Trolley (Small)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Trolley, Oxygen Cylinder (Small)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Oxygen cylinder trolley for transportation of medical oxygen cylinder within wards of healthcare facilities.			
2	**Operational Requirements**			
2.1	Oxygen cylinder trolley for handling small size oxygen cylinder.			
3	**System Configuration**			
3.1	Oxygen Cylinder trolley, small size			
4	**Technical Specifications**			
4.1	Suitable for capacity of small Medical Oxygen Cylinder.			
4.2	Tubular steel framework fitted with two good quality wheels of at least 100mm dia. The wheels shall be made of rubber or similar rims.			
4.3	The base of trolley shall be made of SS. Stainless steel shall be seamless conforming to 304 grade with at least 16 gauge thickness.			
4.4	All MS parts shall be pre-treated and heavy duty epoxy powder coated washable paint finish.			
4.5	Two wheels that provide grip, stability and facilitate smooth rolling, with non-marking grey tires			
4.6	The wheels must not make noise and scratches on the floor while moving and have better grip with ease of movement for effortless load movement.			
4.7	Shall have chain retention mechanism for cylinder.			
4.8	It shall be self-standing and stable when parked with or without cylinder.			
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 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 **AND**			
7.2	CE or USFDA approved product certificate.			
8	**Installation and Commissioning & User Training**			
8.1	Not Applicable			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
11	**Documentation**			
11.1	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

8. Defibrillator Machine

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Defibrillator (with Monitor)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Defibrillator is required for reviving the heart functions by providing selected quantum of electrical shocks with facility for monitoring vital parameters.			
2	**Operational Requirements**			
2.1	Used in emergency & critical care departments to meets various resuscitation and monitoring needs.			
3	**System Configuration**			
3.1	Defibrillator must be Biphasic, light weight and latest model with complete accessories.			
4	**Technical Specifications**			
4.1	Shall have both AED (automated external defibrillator) and Manual capabilities.			
4.2	System shall be user friendly, lightweight and easily transportable.			
4.3	The defibrillation shock is delivered using biphasic waveform which delivers a lower range of energy shocks ranging from 2 to 260 joules. For internal defibrillation, the energy is limited to 50 joules. Bidder to indicate the range of energy proposed			
4.4	Shock delivery can be via hands-free multifunction defibrillator electrode pads or paddles.			
4.5	Able to perform synchronized cardioversion and non-invasive pacing therapy.			
4.6	The AED must be able to start analysis automatically or prompt the operator to press "start analysis". In automatic analysis mode, the analysis of the ECG data shall not be more than 14 seconds.			
4.7	When not in the analyze mode, the AED must provide both ***audible*** and ***visual indication*** of the presence of, or a change to a potentially shockable rhythm.			
4.8	Can be used for neonatal/paediatric and adult defibrillation.			
4.9	The defibrillator using defibrillation pads shall be used on adults. For paediatric/neonates, it shall use the paediatric/neonate Energy reduced energy defibrillation electrodes.			
4.10	Shall have an electrode contact-quality indicator to minimize the risk of ineffective defibrillation.			
4.11	Shall have 3-lead ECG monitoring capability.			
4.12	Shall include a removable data card for storing ECG data (patient heart rhythm and defibrillation events) with capacity of at least 8MB or not less than 4 hrs of recording.			
4.13	Shall have capability to download ECG data to a PC-based data			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	management program.			
4.14	Operates on AC power supply or internal battery.			
4.15	Shall have battery back-up facility			
4.16	Shall have rechargeable battery back-up facility. Fully charged battery shall deliver approximately 50 discharges. Bidder to specify the type of battery used.			
4.17	Shall have integral thermal printer with paper speed of 25mm/sec			
4.18	Must comply with AHA & ACLS requirements.			
4.19	**Control Panel** • Control panel shall have a high-resolution LCD with bright back-light display. • Bidder to specify size of LCD screen and the no. of waveforms which can be displayed. • Audio and visual alarms shall be provided. • Audible indication shall be available during AED mode. • Must be able to display ECG, HR indicator, battery status, shock indicator. • HR limit and shockable rhythms alarms shall be provided.			
4.20	Energy dischargeable buttons shall be provided on the unit.			
4.21	Charge shall not be held longer than 10 secs before discharge.			
4.22	Must have an electrode contact-quality indicator to minimize the risk of ineffective defibrillation.			
5	**Accessories, spares and consumables**			
5.1	Disposable self-adhesive defibrillator pads for adults complete with cable and connector x 10 sets			
5.2	Disposable self-adhesive reduced energy defibrillator pads (as required) for neonate/paediatric complete with cable and connector x 3 sets			
5.3	3 wire ECG cable (lead II) x 1 set for ECG monitoring.			
5.4	Disposable ECG electrodes x 50 pcs			
5.5	Carry Bag/case x 1 set			
5.6	Printer (built-in) x 1 set			
5.7	Thermal paper x 10 rolls/sets			
5.8	Power cord x 1 set			
5.9	Rechargeable Battery x 1 set			
5.10	External Paddles for Adult & Children x 1 set			
5.10	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 the conditions of the purchaser's country. The conditions include following operating condition			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Power Supply : 220- 240 VAC Grounding Condition : 10-20 V (N-E) Average Temperature : 10 - 30 °C Humidity Range : Approx. 70-85%			
6.2	Must work on 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs and sockets. The mains cable minimum 3 meter long.			
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	Comply to AHA & ACLS requirements or equivalent			
7.4	Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms.			
8.	**Warranty & Maintenance Service During Warranty Period**			
8.1	Comprehensive warranty for 2 year after acceptance.			
8.2	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
9	**Authorization**			
9.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
10	**Installation and Commissioning & User Training**			
10.1	Supplier must accomplish proper commissioning of equipment onsite.			
10.2	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish the Qualification Criteria of the bidder mentioned in the main bid document			

9. Dressing Trolley

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Trolley, Dressing			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Basic trolley for transport of nursing supplies between departments in healthcare facilities.			
2	**Operational Requirements**			
2.1	Stainless steel dressing trolley with 2 shelves.			
3	**System Configuration**			
3.1	Dressing Trolley, complete unit.			
4	**Technical Specifications**			
4.1	Heavy carriage mounted on 4 swivel anti-static castors, of which two with brakes.			
4.2	Fit on both sides with push bar-handle.			
4.3	Top and bottom shelves with guard rails.			
4.4	Protective bumpers at all four corners.			
4.5	**Materials:** • Frame and tray: Austenitic stainless steel 18/10.			
4.6	**Dimensions:** • Overall: Approximately (± 10%) 900 x 550 x 1000mm (l x w x h). • Frame, diameter: 30mm. • Thickness of shelves: Approximately 1.5mm • Swivel castors approx. diameter: 100mm. • Carrying capacity: Approx. 100kg.			
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 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 **AND**			
7.2	CE or USFDA approved product certificate.			
8.	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 years after installation			
9.1	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

10.ECG Machine 12 Channel

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	12 Channel ECG Machine with Interpretation			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	ECG Machine is primary equipment to record ECG Signal in various configurations. 12 channels with interpretation are required for recording and analysing the waveforms with special software.			
2	**Operational Requirements**			
2.1	The ECG Machine must be able to acquire all 12 Leads simultaneously and interpret them.			
3	**System Configuration**			
3.1	12 channel ECG machine with interpretation, rechargeable battery and other complete accessories.			
4	**Technical Specifications**			
4.1	Must acquire simultaneous 12 lead ECG for both adult and paediatric patients			
4.2	Must have Real time Colour display of ECG waveforms with signal quality indication for each lead			
4.3	Must have Artifact, AC, and low and high pass frequency filters.			
4.4	Must have a storage memory of at least 100 ECGs with easy transfer by optional modem and data card.			
4.5	Must have full screen preview of ECG report for quality assessment checks prior to print.			
4.6	Must have interpretation facility of the amplitudes, durations and morphologies of ECG waveforms and associated rhythm for adult and paediatric patients.			
4.7	Must have alphanumeric Keyboard for patient data Entry **(virtual or hard keys)**			
4.8	Must have High resolution (200 dpix500dpi on 25 mm/sec speed) digital array A4 size printer using thermal sensitive paper.			
4.9	Must have report formats of 3x4; 6x2, Rhythm for up to 12 selected leads; 12 Lead Extended measurements, 1 minute of continuous waveform data for 1 selected lead.			
4.10	Must have battery capacity of at least 30 ECGs or 30 minutes of continuous rhythm recording on single charge.			
4.11	Must be able to be connected to HIS /LAN/Wireless LAN (optional)			
4.12	Must display ECG on LCD/TFT Display of 640x480 pixel			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	resolution.			
4.13	USB Support (optional) for Storage on external portable memories.			
4.14	Multimode of ECG Storage capability on USB device and shall have internal storage memory of at least 150 ECG			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Patient Cable -02 sets. • Chest Electrodes Adult-(set of six) -02 sets. • Chest Electrodes Paediatric-(set of six) -02 sets. • Limb Electrodes (set of 4)- 02 sets • Thermal Paper A4 Size for 500 patients.			
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 system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220 – 240V AC, 50Hz fitted with appropriate plug. The power cable must be at least 3m 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 approved product certificate.			
7.3	Shall meet IEC-60601-1-2:2001 General Requirements of Safety for Electromagnetic Compatibility.			
7.4	Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms.			
8.	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 2 years after installation			
9.1	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

11.Emergency Crash Cart

SN	Purchaser's Specification	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Manufacture			
	Brand			
	Type/ Model			
	Country of Origin			
1	**Description of Function**			
1.1	A crash cart is a set of trays/drawers/shelves on wheels used in hospitals for transportation and dispensing of emergency medication/equipment at site of medical/surgical emergency for life support protocols (ACLS/ALS) to potentially save someone's life.			
2	**Technical specification**			
2.1	Six drawer modular system; upper 2 drawers with medicine containers; pre-treated & epoxy powder coated			
2.2	6 detachable plastic bins			
2.3	2 cages for oxygen & nitrous oxide cylinders			
2.4	Top tray for monitor & pulse oxymeter			
2.5	System mounted on 10 mm dia wheels; with a pair of front brakes			
2.6	Available in epoxy powder coated also			
2.7	Overall size : W 720mm x D650mm x H1600mm			
3	**Accessories, Spare and Consumables**			
3.1	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).			
4	**Standards and Safety Requirements**			
4.1	CE approved product certificate			
4.2	Must submit ISO13485:2003/AC:2007 for Medical Devices			
5	**Installation and Commissioning & User Training**			
5.1	Must provide ready to use unit			
6	**Warranty & Maintenance Service During Warranty Period**			
6.1	Comprehensive warranty for 1 year			
7	**Authorization**			
7.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
8	**Documentation**			
8.1	User (Operating) manual in English			
8.3	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

12. ENT set

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Instruments Set, ENT			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Instrument set for ENT examination and treatment.			
2.	**Operational Requirements**			
2.1	Complete autoclaveable instrument set for ENT examinations			
3	**System Configuration**			
3.1	ENT Instruments Set, details can be found in technical specifications.			
4	**Technical Requirements**			
4.1	The ENT Instruments must be made of highest quality materials e.g. stainless steel (S/S) for metal devices. The surgical instruments must be CE marked / USFDA approved. The bidder must submit quality assurance (QA) certificates.			
4.2	Instruments must be made from surgical quality, preferably non-magnetic stainless steel and must be matt surface finish. Quality must comply with EN 46002 and ISO13485:2003/AC:2007 and / or their latest amendments.			
4.3	Each pack must be packaged in a hospital grade cotton wrapper (autoclave-able) as a complete pack. Bulk loose instrument supply is NOT acceptable. Each of the individual instruments of a set must be packed in a labelled clear plastic wrapper for easy identification. All individually packed instruments of a set shall then be packed together in a larger clear plastic wrapper labelled with the name of the set for easy identification.			
4.4	Instrument surfaces must NOT be stamped, indented or scratched. It is preferred if the suppliers labelled GoN name in anodised form of labelling. It shall carry clear anodised labelling/ marking of manufacturer's name/ brand and the part number/ model number of instruments on the surface of each piece of instruments.			
4.5	Particular attention must be paid to the quality of box joints to ensure that they are smooth and interlock well, and to teeth and grips to ensure that they meet and interlock well. Finger rings must be of proper size and shape for maximum utility and comfort. The inside of finger rings must be well rounded and free of sharp edges, rough areas and grinding marks, cracks, overlaps, burrs.			
4.6	Jaw serration must be well cut and defined and must mesh properly when the jaws are fully closed. The edges of the serration must be well chamfered and must not contain burrs and sharp edges. Teeth must be sharp (unless otherwise			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	specified), of proper size and shape, free of rough edges or burrs, and must mesh with sufficient accuracy to ensure proper performance for the use intended.			
4.7	Ratchet and ratchet catches must be properly aligned and undercut for safe locking. Ratchets must be of such design as to ensure easy and positive engagement and proper disengagement. Ratchets and ratchet catches must be free of burrs and sharp edges.			
4.8	Locks, forceps and similar instruments must be of the box lock type or lap joint type. All type of locks must be accurately fitted, without stiffness and without crevices, burrs or sharp edges anywhere in the construction.			
4.9	Screws of screw lock scissors and other instruments must be the concentrically mustered type, countersunk, flush with, or slightly below the surface or rounded, smooth and flush at the periphery, but not riveted. The screw must retain their position after setting without binding or loosening during use.			
	Scissors			
4.10	The ROCKWELL hardness of the finished instruments must be within the range from 50 HRC to 58 HRC. Opposite blades must not vary in hardness by more than 4 units on the ROCKWELL hardness scale.			
4.11	Scissors must have joints, which move smoothly and must be neither too loose nor too tight: it must be possible to close and reopen the instrument easily with two fingers.			
4.12	The cutting ability of the instrument must be tested. The instrument must cut clearly without tearing.			
4.13	The finish and all edges and surfaces must be uniform and free of burrs, sharp edges (except where required), pores, crevices, gins marks, rough areas, cracks and overlaps.			
4.14	**The instruments required are listed below,** bidder MUST provide full description of all instruments (description includes: full name, type, shape, design, full length, volume and etc.) required below for the evaluation.			
4.15	**Instruments Required**			
I	**ENT instrument set (Morten) with all standard accessories consisting of (or similar):** • Hartmann Crocodile Forceps 3" shaft • Jobson Horne Ring Probe • Thudicum Nasal Specula No.0 • Thudicum Nasal Specula No.1 • Thudicum Nasal Specula No.2 • Thudicum Nasal Specula No.3 • Thudicum Nasal Specula No.4 • Tilley Aural Forceps • Tilley Nasal Forceps			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	• Wax Hook • Carrying case			
II	**ENT diagnostic set with standard accessories consisting of (or similar):** • May light type ophthalmoscope • Positive degrees of magnification (up to 40x) • Negative degrees of magnification (up to -25x) • Otoscope with two levels of magnification • Robust Stainless steel battery handle with brightness control • Spare bulb • Nasal speculum • Bent arm throat lamp • Illuminated tongue depressor • Laryngeal mirror 22mm diameter • Post-Nasal mirror 18mm diameter • Sterilizeable • Carrying case			
4.16	All instruments must be supplied free of residual scale, acid, grease and grinding and polishing materials and workmanship must be first class throughout. Instruments must be free of defects, which detract from their appearance or impair serviceability, proper functioning and intended use.			
4.17	Bidder MUST attach product catalogues with photos for all instruments as mentioned. These catalogues/photos MUST clearly and correctly mark with non-erasable making pen their respective parameter line number (shown on the left column) and instrument name.			
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 instrument offered shall be designed to store 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 ISO13485:2003/AC:2007 for Medical Devices **AND**			
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.			
8.	**Installation and Commissioning & User Training**			
8.1	Must supply ready to use unit.			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
8.2	Training not applicable			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after delivery			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

13.Focus Light (Goose neck type)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Focus Light (Goose neck type)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Focus Light (Goose neck type) used for examination purpose in various department			
2	**Operational Requirements**			
2.1	Flexible examination light used in various department			
3	**System Configuration**			
3.1	Focus Light (Goose neck type), Halogen / LED , Floor stand type			
4	**Technical Specifications**			
4.1	Lamp type : LED/Halogen with less than 15W (LED) / 50W (Halogen) power consumption			
4.2	Lamp Life must be at least 25,000 hours			
4.3	Color temperature must be approximately 5000K			
4.4	Focal intensity must be at least 50,000 lux			
4.4	Must have adjustable brightness control			
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 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 **AND**			
7.2	CE or USFDA approved product certificate.			
8.	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 years after installation			
9.1	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
11	**Documentation**			
11.1	User (Operating) manual in English			
11.2	Service (Technical / Maintenance) manual in English			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
11.3	List of important spare parts and accessories with their part numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

14.Foot Step (2 step)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Foot Step (Double)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Footstool to assist patients ascending and descending examination/delivery table and beds in healthcare facilities.			
2	**Operational Requirements**			
2.1	Two step stairs for patient to mount on examination/delivery table and bed.			
3	**System Configuration**			
3.1	Foot Step (Double)			
4	**Technical Specifications**			
4.1	It shall be made of anti-corrosive and antirust treated epoxy powder coated steel with a tubular frame with heavy-duty washable finishes.			
4.2	Dimension: approximately 45 H x 45 W x 45 D cm.			
4.3	The foot step shall stand on all legs at the same time on a level surface.			
4.4	Top of the steps to have non-slip surface (e.g., embossed aluminium, stair grip or rubber)			
4.4	Feet to be fitted with heavy-duty rubber/plastic caps.			
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 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 **AND**			
7.2	CE or USFDA approved product certificate.			
8.	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 years after installation			
9.1	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

15. IV Stand

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	IV Stand			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	This IV/saline stand is used for hanging various intravenous items such as blood bags and glucose bottles.			
2	**Operational Requirements**			
2.1	Epoxy powder coated IV/Saline stand with castors.			
3	**System Configuration**			
3.1	Adjustable IV/saline stand with five legs, with double hooks and five swivels castors.			
4	**Technical Specifications**			
4.1	The IV stand shall be made of tubular anti-corrosive and antirust treated epoxy powder coated mild steel, with a 5 pronged base fitted on mobile on swivelling castors of approx. diameter Ø50mm. The castors must be non-rusting and non-marking.			
4.2	The stand should come with stainless steel double IV hook, height adjustable from approximately 1620mm to 2340mm, with a screw knob for height adjustment.			
5	**Accessories, spares and consumables**			
4.1	Not applicable.			
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 **AND**			
7.2	CE or USFDA approved product certificate.			
8	**Installation and Commissioning & User Training**			
8.1	Must provide preassembled unit, ready to use unit			
8.2	User Training, not applicable			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
11	**Documentation**			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

16.Knee Hammer

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Hammer, Reflex			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	A reflex hammer is used by physicians to test deep tendon reflexes.			
2	**Operational Requirements**			
2.2	Hammer, reflex testing, Taylor type.			
3	**System Configuration**			
3.1	Reflex hammer.			
4	**Technical Specifications**			
4.1	Hammer, reflex testing, Taylor type, regular size approximately 18cm.			
4.2	Solid metal handle, chrome plated, solid rubber head.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Single piece packing in plastic bag.			
6	**Operating Environment**			
6.1	The system 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.	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 years after installation			
9.1	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
11	**Documentation**			
11.1	User (Operating) manual in English			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
11.2	Service (Technical / Maintenance) manual in English			
11.3	List of important spare parts and accessories with their part numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

17.Laryngoscope with various blades

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Laryngoscope Set, Children & Adult			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Laryngoscopy to assist endotracheal intubation of adults, children and infants during anaesthesia or resuscitation.			
2	**Operational Requirements**			
2.1	Battery powered laryngoscope unit (handle to take C-size batteries).			
3	**System Configuration**			
3.1	Laryngoscope set for children & adult, complete unit.			
4	**Technical Specifications**			
4.1	It shall have large hollow, cylindrical, slightly ribbed handle.			
4.2	Handle to be made of either chromium-plated or stainless steel.			
4.3	It shall have provision to insert two batteries (type LR14, size C, 1.5 V).			
4.4	It shall have provision for fitting various sizes and types of depressors.			
4.5	Light to be activated when depressor is engaged.			
4.6	Shall come with a set of four stainless steel depressors, with halogen bulb: **Macintosh type:** • Curved Nr 2, length approx. 110 mm • Curved Nr 3, length approx. 135 mm • Curved Nr 4, length approx. 155 mm **Miller type:** • Straight Nr 1, length approx. 100 mm			
4.7	It shall be autoclaveable /sterilizeable.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Spare bulbs: 3 nos. • Spare dry cell alkaline C batteries: 2 nos. • Durable protective plastic box or padded vinyl case: 1 no.			
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			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
6.2	It shall be battery operated 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 approved product certificate.			
8.	**Installation and Commissioning & User Training**			
8.1	Not Applicable			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

18. Ophthalmoscope

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Ophthalmoscope, Direct			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Direct ophthalmoscope is an instrument designed to visualize the interior of the eye, with the instrument relatively close to the subject's eye and the observer viewing an upright magnified image.			
2	**Operational Requirements**			
2.1	Compact system, operate on rechargeable battery.			
3	**System Configuration**			
3.1	Direct Ophthalmoscope, complete unit with all standard accessories.			
4	**Technical Specifications**			
4.1	Light source: Halogen/Xenon bulb.			
4.2	Shall have dust free sealed optics.			
4.3	Shall have red free and cobalt blue filter.			
4.4	Shall allow one-hand operation for streak focus and 360º streak rotation.			
4.5	Shall have universal convertible handle.			
4.6	Shall have Nickel- Cadmium/Lithium ion rechargeable battery.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Spare Halogen/Xenon Bulb: 02 set. • Carrying case: 01 no.			
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 the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Shall work on rechargeable battery. Battery charger with AC adaptor shall be provided.			
7	**Standards and Safety Requirements**			
7.3	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**			
7.4	CE (93/42 EEC Directives) or USFDA approved product certificate.			
8.	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper commissioning of equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment).			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after acceptance.			

9.2	Standard warranty conditions are applicable.			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

19. Otoscope

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Otoscope Set			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Otoscope is used for examination of the inner ear, canal and tympanic membrane.			
2	**Operational Requirements**			
2.1	Compact system, battery operated.			
3	**System Configuration**			
3.1	Otoscope set with all standard accessories.			
4	**Technical Specifications**			
4.1	Otoscope set shall have diagnostic head threaded on a handle.			
4.2	Shall have pivoting head with a wide-angle viewing lens of magnification 3x.			
4.3	Shall come with reusable plastic specula, which can be attached to frontal part.			
4.4	Shall have halogen bulb, 2.5V with bright white light.			
4.5	Handle shall have on/off switch.			
4.6	Shall works with 2 AA-batteries (1.5V / LR6 alkaline).			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • 1 x spare 2.5V halogen bulb. • 1 x set of 2 AA-batteries (1.5V / LR6 alkaline). • 1 x set of 8 reusable plastic specula, 2 of each diameter: 2.5, 3.0, 4.0 and 5.0 mm. • 1 x storage case.			
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 the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.5	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**			
7.6	CE (93/42 EEC Directives) or USFDA approved product certificate.			
8.	**Installation and Commissioning & User Training**			

8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

20. Oxygen Cylinder (Small)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Oxygen Cylinder (Small)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Oxygen cylinder for medical use.			
2	**Operational Requirements**			
2.1	Steel Oxygen cylinder of 10L capacity is required.			
3	**System Configuration**			
3.1	Oxygen Cylinder, 10L with Trolley, Regulator, Flow Meter and Bubble Humidifier.			
4	**Technical Specifications**			
4.1	Cylinder filled with medical grade Oxygen.			
4.2	Seamless steel Oxygen cylinder with "Bull nose"-valve			
4.3	Water Capacity: 10L			
4.4	Working pressure: 15MPa(150bar)			
4.5	Testing Pressure: 250bar			
4.6	Cylinder shall be easily refilled anywhere and there is no need for any custom made refilling hose /station / connector.			
4.7	Shall be supplied complete with cylinder key/spanner/bar or hand-wheel to turn cylinder on/off.			
4.8	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 incorporate overpressure safety valve with auto venting			
4.9	Flow Meter:			
	Back Pressure Controlled Flow Meter			
	Sturdy and reliable Flow Meter Unit for an accurate measuring of flow of gases.			
	Flow adjustment by Needle valve equipped with inlet filter – 100 μm.			
	Flow rate range 0 – 15 litres / minute.			
	Flow meter to be attached to regulator output			
	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.			
5	Accessories			
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 the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.7	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**			
7.8	CE (93/42 EEC Directives) or USFDA approved product certificate.			
8.	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer’s Authorization or Local Distributor Authorization (Manufacturer’s Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

21.Oxygen Cylinder (Large)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Oxygen Cylinder (Large)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Oxygen cylinder for medical use.			
2	**Operational Requirements**			
2.1	Steel Oxygen cylinder of 46L capacity is required.			
3	**System Configuration**			
3.1	Oxygen Cylinder, 46L			
4	**Technical Specifications**			
4.1	Cylinder filled with medical grade Oxygen.			
4.2	Seamless steel Oxygen cylinder with "Bull nose"-valve			
4.3	Water Capacity: 46L			
4.4	Working pressure: 15MPa(150bar)			
4.5	Testing Pressure: 250bar			
4.6	Cylinder shall be easily refilled anywhere and there is no need for any custom made refilling hose / station / connector.			
4.7	All fitting of cylinder must be leak proof and shall not have any chances of leakages.			
4.8	Shall be supplied complete with cylinder key/spanner/bar or hand-wheel to turn cylinder on/off.			
4.9	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 incorporate overpressure safety valve with auto venting			
4.10	Flow Meter:			
	Back Pressure Controlled Flow Meter			

	Sturdy and reliable Flow Meter Unit for an accurate measuring of flow of gases.			
	Flow adjustment by Needle valve equipped with inlet filter – 100 μm.			
	Flow rate range 0 – 15 litres / minute.			
	Flow meter to be attached to regulator output			
	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.			
5	**Accessories, spares and consumables**			
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 the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.9	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**			
7.10	CE (93/42 EEC Directives) or USFDA approved product certificate.			
8.	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

22.Peri Lamp

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Peri-Light			
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	**Description of Function**			
1.1	To be used in labour room in hospital and for Postpartum Perineal care of patient.			
2	**Operational Requirements**			
2.1	Shall operate on mains AC supply.			
3	**System Configuration**			
3.1	Peri-light, complete unit.			
4	**Technical Specifications**			
4.1	Light weight and easy to carry.			
4.2	The lamp can easily be positioned up to 40 degrees backwards.			
4.3	Power: 50 Watt or more with extra focus. Bidder to specify the power of lamp.			
4.4	Shall have on/off switch.			
4.5	Shall have facility to focus the light on specific area.			
4.6	Shall have long lifespan of lamp. Bidder to specify the lifespan of lamp.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Spare lamp: 01 no.			
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 system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 metres long.			
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	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

23.Plaster Cutter (Electric)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes /	Reference Page No.	Remarks
	Plaster Cutter (Electric)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	These instruments are used in orthopaedic surgery for cutting of plaster of paris/synthetic cast applied for fractured bones.			
2	**Operational Requirements**			
2.1	System complete with essential items			
3	**System Configuration**			
3.1	Plaster Cutting Saw, complete unit with all standard accessories.			
4	**Technical Specifications**			
4.1	Shall have light weight & heavy duty.			
4.2	Must have shock proof fibre glass body.			
4.3	Must be capable of cutting pop & fibre glass (synesthetic).			
4.4	Shall have long life Teflon coated blade.			
4.5	Must be supplied with 63mm diameter blade.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Blade 63mm: 10 nos. • Storage case to accommodate the plaster cutter and other accessories.			
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 the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220 – 240 VAC, 50Hz Single Phase fitted with appropriate plug. The power cable must be at least 3 metre in length.			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes /	Reference Page No.	Remarks
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.			
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.			
8.	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 years after installation			
9.1	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

24. Pulse Oximeter (Spot Check)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Pulse Oximeter			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	For spot-check of percentage arterial oxygen saturation (SpO2, %) and pulse rate (HR, bpm) of all patient categories. Non-invasive monitor using a clip-on sensor placed on a finger or toe.			
2	**Operational Requirements**			
2.1	It shall be suitable for professional clinical use, all patient categories neonate, infant and adult.			
3	**System Configuration**			
3.1	Pulse Oximeter, complete unit with all standard accessories.			
4	**Technical Specifications**			
4.1	Ultra compact pulse oximeter integrated into finger/toe sensor clip.			
4.2	It shall be of robust, shock resistant design, which allows use in demanding environments.			
4.3	It shall accommodates finger/toe thicknesses 8 to 25mm.			
4.4	Facility of spot-check of arterial blood oxygen saturation (SpO2) and heart rate (HR).			
4.5	It shall have one button operation, auto-off when not in use for 10 seconds.			
4.6	Clip with extended side flaps eliminates ambient light from the measurement.			
4.7	Measuring range: • SpO2 30 to 100% (minimum graduation 1%) • HR 20 to 320bpm (minimum graduation 1bpm)			
4.8	Accuracy: • SpO2 +/-2% in the range from 70 to 100% • HR +/-2% in the range from 30 to 250 bpm			
4.9	Display: Easy readable display shows operational status, SpO2, HR, signal strength (bar graph) and battery status.			
4.10	Alarm: Audio-visual alarm on operational status, SpO2<90%, sensor malfunction and loss of signal.			
5	**Accessories, spares and consumables**			
5.1	Accessories: • 2 x spare set of two batteries 1.5V AAA/LR03 Alkaline. • 1 x Neck lanyard for carrying. • 1 x Strong protective carry bag.			
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			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	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 the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: Shall work on two 1.5V AAA/LR03 batteries.			
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.	**Installation and Commissioning & User Training**			
8.1	Must provide user training to the end user.			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 years after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

25. Refrigerator

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes /	Reference Page No.	Remarks
	Refrigerator			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Refrigerator with freezing compartment maintains two distinct temperature zones. The refrigerator zone is for chilling above zero and freezer zone is for sub-zero temperatures.			
2	**Operational Requirements**			
2.1	Refrigerator is required to operate at temperatures from +2 ^{0}C to +8 ^{0}C and Freezer to operate between -10 ^{0}C to – 20 ^{0}C.			
2.2	Floor standing model, preferably double door with lock and handle supplied with two keys.			
3	**System Configuration**			
3.1	The system consists of: • Refrigerator with freezing compartment CFC free • Floor standing model • Digital display • Adjustable shelves/drawers • Alarm system • Voltage corrector/stabilizer • Temperature data logger			
4	**Technical Specifications**			
4.1	Gross Volume: approx. 250 litres.			
4.2	Corrosion resistant construction, preferably stainless steel.			
4.3	Type: Compression Cycled, CFC-Free Refrigerant (both for refrigeration and insulation), R134A, cooling coil of copper.			
4.4	Compressor: Power saver compressor.			
4.5	It shall have adjustments for uneven bases. The adjustments shall be easy to use like rotating a screw on the legs of the base.			
4.6	Spill proof adjustable shelves/drawers. Bidder to specify the number of shelves/drawers to be offered.			
4.7	It shall have microprocessor based control system with digital display.			
4.8	Individual display for temperature inside the freezer and the refrigerator.			
4.9	Alarm for Low/High temperature inside freezer and the fridge.			
4.10	Frost free system.			
4.11	Internal illumination.			
4.12	Alarm: Door locks/door open alarm, low/high temperature inside			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes /	Reference Page No.	Remarks
	freezer and refrigerator.			
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 Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240VAC, 50Hz fitted with appropriate plug type D round 3 pins. The power cable must be minimum 3 metres long.			
6.3	Shall provide Voltage corrector/stabilizer of appropriate ratings.			
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.			
7.3	Shall meet IEC 60335-1 and -2-24 electrical safety standards for refrigerators and freezers.			
8	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

26.Semi Fowler Bed

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page Number	Remarks
	Semi Fowler Bed			
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	**Description of Function**			
1.1	Semi Fowler bed is a bed specially designed for hospitalized patients in need of patient ease. These beds have special features both for the comfort and well being of the patient and for the convenience of hospital staff.			
2	**Operational Requirements**			
2.1	It shall have anti-corrosive and antirust treated baked hard epoxy powder coating, with two section.			
3	**System Configuration**			
3.1	Semi Fowler bed, two sections with mattress.			
4	**Technical Specifications**			
4.1	Dimensions approx.: 208Lx920Wx600H mm (without mattress).			
4.2	The main frame shall be made from 60mmx30mmx16G ERW rectangular tubes.			
4.3	Two sections top shall be made from 18G CRCA sheets uniformly perforated and shall be suitably fitted to the main frame.			
4.4	All adjustments for fowler position must be obtained from crankshaft, manually operated with stainless steel foldable handle on both the shaft.			
4.5	Bed frame must be sturdy and stable to support weight of at least 150 kg.			
4.6	The finished bed must be rust proof, pre-treated and treated with washable epoxy polyester antimicrobial powder coated to increase the bacteriostatic property.			
4.7	The bed shall have a pair of swing down type full length side rails, mild steel (MS), washable epoxy powder coated with self-locking.			
4.8	It shall have easily removable head and foot panels made up of stainless steel (SS) or ABS moulded with four corner buffers.			
4.9	There must be suitable buffer mechanism to avoid hitting of the bed to the wall.			
4.10	Bed frame fitted with non-rusting, noiseless, non-marking 360 deg. swivel heavy-duty castor wheels of 125mm dia, 2 with brakes and 2 without brakes.			
4.11	It must have provision of fixing suitable rod for hanging intravenous / irrigation fluid bottle on both sides at head end and foot end.			
4.12	It must have hooks on bed frame on both sides for holding urine /			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page Number	Remarks
	drainage bag (at least 4 nos.).			
4.13	Shall provide with one dual hook 304-grade stainless steel telescopic IV rod.			
4.14	**Mattress:** Shall provide with one no. four section mattress of dimensions at least (2000mm L x 900mm W) with washable cover of good quality. The mattress must be made of high density PU foam of 100mm thickness.			
4.15	The colour of the paint or coating shall be finalised during contract agreement.			
5	**System Configuration 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 system offered shall be designed to store 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 **AND**			
7.2	CE or USFDA approved product certificate.			
8	**Warranty & Maintenance Service During Warranty Period**			
8.1	Comprehensive warranty for 1 year after acceptance.			
8.2	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
9	**Authorization**			
9.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
10	**Installation and Commissioning & User Training**			
10.1	Supplier must accomplish proper commissioning of equipment onsite.			
10.2	Must provide user training by company engineer (including how to use and maintain the equipment).			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish the Qualification Criteria of the bidder mentioned in the main bid document			

27. Patient Screen

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Patient Screen			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	A patient screen is widely used in hospitals when the doctor examines a patient in his private chamber or in the patient's room in the hospitals. The screen can also be used in the operation room or the changing room of the doctors and nurses.			
2	**Operational Requirements**			
2.1	Epoxy powder coated three fold patient screen.			
3	**System Configuration**			
3.1	Patient Screen with light blue curtain and fully swivel twin wheel castors.			
4	**Technical Specifications**			
4.1	Three fold ward screen approx. total size 2450 w x 1650 h mm in three sections.			
4.2	Mild steel tubular construction with epoxy powder coated treated in three section 600mm span width at each side and 1210 mm span width in the middle) and mounted on wide spaced legs for each section, and each foot to have two swivel castors size 50mm.			
4.3	To be supplied with hooks, springs and heavy duty curtain, firmly attached at sides, top and bottom. Curtain must have no gaps between sections			
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 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 **AND**			
7.2	CE or USFDA approved product certificate.			
8	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 years after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

28.Stretcher with trolley

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Stretcher on trolley			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Stretcher on trolley for transport of patients between Emergency, operating theatres, Wards, ICU etc. in healthcare facilities.			
2	**Operational Requirements**			
2.1	Two sections stretcher designed specifically for patient transport.			
3	**System Configuration**			
3.1	Stretcher on trolley with complete accessories.			
4	**Technical Specifications**			
4.1	Overall approx. size (± 10%): 1905mm L x 710mm W.			
4.2	Stretcher size approx. (+ 10%): 1830mm L x 555mm W.			
4.3	Height adjustment from 680 to 830 mm by crank.			
4.4	Four swivel, non-rusting, anti-static castors, 125mm diameter, two castors with brake.			
4.5	Synthetic rubber covered handles.			
4.6	Two Section removable stretcher top with backrest on ratchet.			
4.7	Two provisions for fixing IV pole.			
4.8	Both sections fit with thick upholstery.			
4.9	Fitted with swing down type mild steel side railings.			
4.10	Provision for accessories tray, oxygen cylinder cage.			
4.11	Protective bumpers at all four corners.			
4.12	Pretreated and oven baked epoxy powder coated.			
4.13	Upholstery: • High-density polyurethane foam with density approx. 30 kg/m3. • 50mm (h)			
4.14	Cover: Plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable.			
4.15	Carrying capacity: 150kg or more.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • 1 x set of side rails • 1 x set of SS IV pole			
5.2	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**			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
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 ISO13485:2003/AC:2007 for Medical Devices **AND**			
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.			
8	**Installation and Commissioning & User Training**			
8.1	Must provide ready to use unit			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

29.Specification of Electric Suction Machine

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	To extract fluid from the body during surgery or emergency treatments.			
2	**Operational Requirements**			
2.1	An electric double jar suction pump for surgical use.			
3	**System Configuration**			
3.1	Suction machine with two bottles and accessories.			
4	**Technical Specifications**			
4.1	It shall be mounted on four robust, fully 360 degree swiveling, antistatic, non-marking grey tires castors, minimum size 75 mm with at least 2 diagonal brakes.			
4.2	Come with suction controller and vacuum gauge / indicator.			
4.3	The pump shall be oil free vacuum pump where the pumped liquid shall be sealed off from the pump.			
4.4	Come with overflow control valves. Bidder shall provide technical design and details of the pump with this TSF			
A	Vacuum rate shall be from 0 to not less than 640 mmHg (0.85 bars).			
B	Air flow rate shall be at least 25 l/min.			
C	The pump shall come fitted with twin unbreakable, transparent, autoclaveable suction bottles minimum 2 litre each.			
D	The bottles shall be incorporated with an automatic suction cut-off mechanism when they become full.			
E	The suction bottles shall come with overflow lid.			
4.5	Noise level: not more than 60 dB.			
4.6	Air discharge from pump shall be filtered by a 0.3 micron bacterial hydrophobic filter.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:**			
a	Electrical cable: 1 minimum 3 meter length			
b	Clear suction tubing: 1set of 5 meter length			
c	Bacterial filter: 0.3 micron,10 pcs			
	Spare unbreakable, transparent, autoclaveable polycarbonate suction bottle 2L: 1pc			
	Complete connection tubing set: 1 set			

	Hand switch & foot switch with cables for operating easily.			
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 system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Must operate on 220-240V AC as well as rechargeable batteries.			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO 13485:2003/AC:2007 for medical devices AND			
7.2	European CE (93/42 EEC Directives) or USFDA approved product certificate.			
7.3	Shall meet IEC-60601-1-2 General Requirements of Safety for equipment.			
8	**Installation and Commissioning & User Training**			
8.1	Supplier must supply preassembled unit, ready to use			
8.2	User Training, not applicable			
	Inspections to verify the compliance of the offered equipment as per specifications will be conducted by the technical team appointed by the purchaser.			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

30. Patient Monitor/Transport monitor

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	For monitoring vital signs of all patient categories at bedside or during transportation.			
2	**Operational Requirements**			
2.1	It shall operate on AC power supply as well as built-in battery.			
3	**System Configuration**			
3.1	Patient Monitor, portable with complete accessories.			
4	**Technical Specifications**			
4.1	Portable vital sign monitor, suitable for all patient categories neonatal, infant and adult.			
4.2	Monitor can be mounted on standard bed/wall rail, and mobile pole/stand.			
4.3	It shall have robust design allows for use in demanding environments.			
4.4	It shall have soft-touch keys, durable and easy to clean.			
4.5	Parameters monitored: ECG, Heart Rate (HR), Respiration Rate (RR), SpO2, NIBP and Temperature measurements with ECG leads I, II, III.			
4.6	Measurements range:			
A	HR approximately 30 to 250bpm <3bpm>			
B	NIBP approximately 20 to 290mmHg (systolic) <1mmHg>			
C	SpO2 approximately 40 to 100% <1%>			
D	RR (ECG derived) approximately 6 to 180bpm <1bpm >			
E	Temperature approximately 10 to 45C <0.1C>			
4.7	NIBP oscillometric step deflation, manual/automatic, initial inflation pressure user selectable			
4.8	Bright 4-channel TFT colour display, approximately 12 inch.			
4.9	It shall have sweep, adjustable 12.5, 25 or 50mm/second.			
4.10	Sensitivity (amplitude) of all signals user adjustable.			
4.11	Standardizing marker, 1mV.			
4.12	Shall have user pre-set of high/low alarms on all monitored parameters.			
4.13	Audio visual alarm in case measurements are outside pre-set range.			
4.14	Shall have silencing feature for audio alarms.			

4.15	Trend display from 2 to 24 hours.			
4.16	Data interface (for ECG) through RS232, BNC, USB or equivalent.			
4.17	Shall have defibrillator sync and protection during defibrillation.			
4.18	Shall have pacemaker detection/rejection.			
4.19	Display shall have facility to report system errors, leads and sensors failure and built-in battery status.			
4.20	Autonomy of built-in rechargeable battery approximately 3 hours, automatic recharge when connected to mains.			
4.21	Automatic switch to batteries in case of power failure.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:**			
A	1 x Mounting bracket for fixation to standard bed/wall rail and mobile pole/stand			
B	1 x Set of spare fuses			
C	**NIBP accessories:**			
	3 x NIBP hose (1 x neonate, 1 x infant, 1 x adult)			
	3 x Blood pressure cuff (1 x infant, 1 x child, 1 x adult)			
	ECG accessories			
	2 x Patient cable extremities (1x neonate/paediatric,1 x adult)			
	2 x Set of electrodes (1x neonate/pediatric, 1 x adult)			
	1 x Electrode gel, bottle 350ml			
D	**Temperature accessories**			
	2x Skin temperature probes (incl. connection cable)			
	Pulse oximetry (SpO_2) sensors with cable and plug			
	2 x Adult size, reusable clip-on type			
	2 x Infant size, reusable clip-on type			
	3 x New-born size, reusable clip-on type			
	10 x New-born size, single-use wrap-around type			
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 system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
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 ISO 9001 or ISO 13485:2003/AC:2007 for medical devices AND			

7.2	CE (93/42 EEC Directives) or USFDA approved product certificate. Self declared CE certificate will not be accepted.			
7.3	Shall meet IEC-60601-1-2:2001 General Requirements of Safety for Electromagnetic Compatibility. Document evidence shall be submitted for evaluation			
7.4	Shall meet the safety requirements as per IEC 60601-2-27:1994—Medical electrical equipment—Part 2: Particular requirements for the safety of electrocardiographic monitoring equipment. Document evidence shall be submitted for evaluation			
8	**Installation and Commissioning & User Training**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 2 years after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

31.Specification of Vacuum Extractor Set, Electrical

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Vacuum Extractor Set, Electrical			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Equipment to assist delivery of babies through attachment of suction cup to baby's head.			
2	**Operational Requirements**			
2.1	Electrical type vacuum extractor set.			
3	**System Configuration**			
3.1	Vacuum Extractor/Suction – Electrical type with complete accessories.			
4	**Technical Specifications**			
4.1	Microprocessor controlled vacuum extractor for safe extraction cup parturition and also suitable as suction unit for freeing the respiratory tract, for suction curettage and as breast pump in case of milk congestion.			
4.2	Automatic vacuum generation and reduction with freely preselectable parameters, hydrophobic bacterial filter with filter change indication.			
4.3	Electronic filling level control with over-sucking protection.			
4.4	Vacuum preselection by key press; high resolving display with indication of desired/actual vacuum value in MBR or KPA and time progress with audible action signals.			
4.5	Air flow rate of pump 36±2 L/Min.; Vacuum –90 KPA/675mmHg.			
4.6	The unit equipped with reusable and autoclaveable: • Polycarbonate Jar 1.5 litre with lid and double socket nipple • Inline filter • Hose for extraction cups • Hose holder • Medical Grade Silicon Cups – one each of 50mm and 60mm • Bacterial Filter – 5 nos. • Vapour sterilizeable (up to 136 0C) 6mm inner-diameter silicone suction tube – 5metre			
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 system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	conditions include, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220 – 240 V AC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres 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 approved product certificate.			
8	**Installation and Commissioning & User Training**			
8.1	Must supply preassembled unit, ready to use			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 years after installation			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

32. View Box

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	View Box (LED, Double Film)			
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	**Description of Function**			
1.1	View box used for viewing the images of X-ray, CT/MRI at healthcare facilities.			
2	**Operational Requirements**			
2.1	Double film LED view box, operates on mains electric supply.			
3	**System Configuration**			
3.1	LED View Box (Double Film, each film has maximum size of 43cmX 35cm), complete unit.			
4	**Technical Specifications**			
4.1	Ultra slim design.			
4.2	LED backlit and shall have separate on/off function with separate rotary continuous adjustable brightness control at the bottom of panel for convenient operation.			
4.3	It shall have fully electronic continuous brightness control with adjustment range approx. up to 90%.			
4.4	Shall have no lag period in intensity modulation.			
4.5	Front sheet shall be made of polycarbonate or acrylic with antiglare.			
4.6	Shall have sturdy film clamping mechanism with automatic sensor induced on/off system.			
4.7	Illumination: High bright white LEDs.			
4.8	It shall have homogeneous illumination and shall have luminance of more than 1600 cd/m^2.			
4.9	LED light source shall have at least 20000 hours of operation.			
4.10	Shall be able to hold two full large size CT/MR films at a time and each film has maximum size of 43cmX 35cm.			
5	**System Configuration 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 system offered shall be designed to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	plug. The power cable must be at least 3 metre in length.			
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	**Installation and Commissioning & User Training**			
8.1	Must provide ready to use unit			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year after installation			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
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 numbers and costing.			
11.4	Certificate of calibration and inspection from factory.			
11.5	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

33.Wheel Chair (with bed pan)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Wheel Chair (with oxygen carrier)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Basic wheelchair for transportation of patients who are unable to stand/walk.			
2	**Operational Requirements**			
2.1	Basic foldable/unfold able wheelchair for adult use.			
3	**System Configuration**			
3.1	Wheel Chair (with oxygen carrier)			
4	**Technical Specifications**			
4.1	Heavy carriage mounted on 4 ball-bearing wheels.			
4.2	Front wheels free rolling, 360 degrees swivel.			
4.3	Both rear wheels with brake.			
4.4	Foot lever, integrated in frame, facilitates tilting the wheelchair.			
4.5	Two handles at the rear fit with plastic rims.			
4.6	Swing-away foot and arm supports for easy stepping on/off.			
4.7	Armrests seat and back are upholstered.			
4.8	**Materials:** • High resistance to corrosion (tropical environment). • Frame: Chrome-plated tubular steel. • Upholstery: Plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable. • Tires: Heavy duty solid rubber.			
4.9	**Dimensions, Approx. ± 10%:** • Overall: 450 x 500 x 870mm (d x w x h). • Back support: 500 x 400mm (w x h). • Frame, diameter: 23mm. • Wheels, diameter: Front 200mm, Rear 600mm. • Carrying capacity: Approximately 150kg.			
4.10	Attached with an oxygen cylinder carrier (small cylinder) to be moved freely with the wheelchair			
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			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	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 **AND**			
7.2	CE or USFDA approved product certificate.			
8	**Installation and Commissioning & User Training**			
8.1	Must provide ready to use unit			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year			
10	**Authorization**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			
11	**Documentation**			
11.1	User (Operating) manual in English			
11.2	List of important spare parts and accessories with their part numbers and costing.			
11.3	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			