Specifications for IPD Equipment

1. Bed Pan

S.N	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Bed Pan			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	A bed pan is an object used for the toileting of a bedridden patient in a health care facility.			
2	**Operational Requirements**			
2.1	Stainless steel bed pan.			
3	**System Configuration**			
3.1	Bed Pan			
4	**Technical Specifications**			
4.1	Stainless steel.			
4.2	Standard hospital bedpan, approximately 50mm deep, minimum 20mm lip.			
4.3	Single piece, spun, SS.			
4.4	Autoclave able.			
5	**Accessories, spares and consumables**			
5.1	Not applicable.			
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	The manufacturer must have ISO certification for quality of the products.			
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.			
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	Shall accomplish all 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**			
9.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	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 autoclaveable.			
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 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			

4. B.P Instrument (Analog) with stethoscope

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page Number	Remarks
	Sphygmomanometer (BP apparatus)			
	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			
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			

5. 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**			
10.1	Manufacturer's Authorization or Local Distributor Authorization (Manufacturer's Authorization to the main Distributor is also required in case of Local Authorization)			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
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			

6. 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			

7. 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**			
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			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	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			

8. 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			

9. 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.			
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)			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
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. Patient Screen (Ceiling type)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Patient Screen (Ceiling type)			
	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.			
2	**Operational Requirements**			
2.1	Ceiling mount permanent type Patient screen			
3	**System Configuration**			
3.1	Patient Screen with light blue curtain and can be opened and closed as required			
4	**Technical Specifications**			
4.1	Curtain to cover at least three side of the bed including the two length and one breadth region of the hospital bed.			
4.2	Must have the facility to open and close the curtain easily.			
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 900			
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			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	**Authorization**			
10.1	Not applicable			
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. Weighing Scale with height measurement

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Weighing Scale with height measurement			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Weighing the mass of a patient or user along with attached height measurement unit			
2	**Operational Requirements**			
2.1	Mechanically operated dial type adult weighing scale with height measurement unit			
3	**System Configuration**			
3.1	Weighing scale-Adult bathroom type with large face dial			
4	**Technical Specifications**			
4.1	Large face dial with large clear numbers and pointer/needle.			
4.2	Base to be flat, of easy clean surface (Metal with heavy-duty washable finish) and must have non-slip surface.			
4.3	Equipment must be simple to use, operate and maintain.			
4.4	Scale to weigh 0 to 150 Kg in increments of 500g and to have Tare/Zero adjustment system			
4.5	Inbuilt or Separate height measurement Stand that can measure height upto 7.5 feet with increments of 1 inch			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007.			
8.	**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 1years 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			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	(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			

12. 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 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			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	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			

13.Bedside Monitor (7 parameter)

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. Option to monitor 2IBP and etCO_2 as per requirement of hospital in the future.			
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			

14.Nebulizer

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Nebulizer			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Nebulizer is a device used to administer medication to people in forms of a liquid mist to the airways. It is commonly used in treating cystic fibrosis, asthma, and other respiratory diseases.			
2	**Operational Requirements**			
2.1	Heavy duty compact Nebulizer is required.			
3.	**System Configuration**			
3.1	Nebulizer, complete unit with all standard accessories.			
4	**Technical Specifications**			
4.1	Compact, lightweight, low noise.			
4.2	Durable long life compressor. Suitable for heavy duty/ institutional (hospital) use, must be able to run uninterruptedly for at least 30 min.			
4.3	Must have Maximum air pressure Between 25-40 psi			
4.4	Operating Air Pressure Between 0.8-1.5 bar			
4.5	Must produce particle of size 1-5µm			
4.6	Must have a dust filter			
4.7	Must be able to deliver a flow rate more than 5 L/min.			
4.8	Must have a check valve to protect the device against contamination due to backward inhalation.			
4.9	Protective thermal cut out relay.			
4.10	Shall provide ABS case with handle for easy carrying.			
4.11	Must be compatible of 24 hour use on daily basis with standard condition applicable for the stoppage. Should mention the time of stoppage for the using the system.			
5	**Accessories, spares and consumables**			
5.1	Accessories: • Nebuliser bulb reusable, autoclave able- 01 no. • Adult and child face mask reusable, autoclave able- 02 each. • T piece, Mouthpiece, Nosepiece, reusable, autoclave able- 01 each. • Mouthpiece- 01 no. • Nosepiece- 01 no. • 1 x 200 cm. tubing • Spare filters- 10 nos.			
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 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 – 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.	**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 number 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.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 / 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			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page Number	Remarks
	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			

16.Fowler Bed

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No	Remarks
	Fowler Bed			
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	**Description of Function**			
1.1	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, four sections fowler bed.			
3	**System Configuration**			
3.1	Fowler bed, four 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	Four 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 / 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.			
4.16	**Pillow**			
	Pillow cotton (at least 1kg) with sealed vinyl/plastic cover, fully washable surface and completely waterproof			
	Size approx.: 40x60cm and approx. 15cm thick in fire retardant antibacterial anti-mite treated foam rubber.			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No	Remarks
	The pillow shall come with a zipped fire retardant antibacterial, antistatic, acid resistance, waterproof and washable vinyl or vinylized nylon pillow cover. Bidder shall indicate the material of cover offered.			
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			

17. Wheel Chair with bed pan

S.N.	Purchaser's Specifications		Bidder's Compliance (Yes / No)	Reference Page No	Remarks
	Wheel Chair				
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	**Description of Function**				
1.1	Wheel chair is used in hospitals for means of mobility by disabled persons/or persons who have impairments that limit their ability to walk.				
2	**Operational Requirements**				
2.1	It shall be a foldable BUT shall NOT a collapsible type. The mechanism of folding & unfolding must be easy. Large standard adult size hospital wheelchair fixed/ foldable type. Easy maneuverable.				
3	**System Configuration**				
3.1	Wheel chair invalid type.				
4	**Technical Specifications**				
4.1	Must be made of the highest quality materials such as Chrome polished finish or stainless steel.				
4.2	Dimensions: approx. W 68 cm × D 110 cm × H 94 cm. Seat width: approx.450mm.				
4.3	Wheels to have braking/locking mechanism and self-propelling SS hoops; two swivel castors (200mm dia. approx.) in front.				
4.4	Tire fitted with self-propelling hoops and brake arrangements.				
4.5	Tire sizes: Rear approx. 60cm (24") solid Mag tyres or Bicycle type spoked wheels, and Front approx. 200mm (8") Mag swivel casters.				
4.6	Armrests: Padded, Fixed height and detachable.				
4.7	Waterproof upholstery and easy to clean.				
4.8	Padded back rest, seat and push handle.				
4.9	Footrests: Fixed height and swing away foot plates and detachable, preferably made of Aluminium.				
4.10	Maximum Patient weight capacity: approx. 150kg.				
4.11	I.V. pod shall be provided at the right side of the back rest.				
4.12	Shall have facility to attach bed pan if required				
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	**Warranty & Maintenance Service During Warranty Period**				
8.1	Warranty of 1 year				

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No	Remarks
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	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			

18. Visitor's Bed cum chair

SN	Purchaser's Specification	Bidder's Compliance (Yes / No)	Reference Page No	Remarks
	Visitor's Bed cum chair			
	Manufacture			
	Brand			
	Type/ Model			
	Country of Region			
1	**Description of Function**			
1.1	A bed is used in hospital and have special feature that it can be used as a chair and bed.			
2	**Technical specification**			
2.1	MS Tubular frame work mounted on PVC stumps.			
2.2	Pull-Out Design for Easy Transforming Recliner into Bed.			
2.3	Finish : Epoxy Powder Coated.			
2.4	Safety Lock : Pull-Out Design for Easy Transforming Recliner into Bed			
2.5	Two 3.2-inch PU Casters with Brake			
2.6	Full-Smooth Bed Surface with Rotating Side Arms			
2.7	Foam Side Arms for Warm Touch.			
2.8	Chair Size: 65 x 78 x 102 cms.			
2.9	Bed Size: 206 x 65 x 45 cms.			
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 AND			
5	**Warranty & Maintenance Service During Warranty Period**			
5.1	Warranty of 1 year			
6	**Authorization**			
6.1	Manufacturer’s Authorization or Local Distributor Authorization (Manufacturer’s Authorization to the main Distributor is also required in case of Local Authorization)			
7	**Installation and Commissioning & User Training**			
7.1	Not applicable			
8	**Documentation**			
8.1	User (Operating) manual in English.			
8.2	Shall accomplish the Qualification Criteria of the bidder mentioned in the main bid document			

19.Mucus Extraction with Suction Tube

SN	Purchaser's Specification	Bidder's Compliance (Yes / No)	Reference Page No	Remarks
	Mucus Extraction with Suction Tube			
	Manufacture			
	Brand			
	Type/ Model			
	Country of Region			
1	**Description of Function**			
1.1	Mucus Extraction with suction tube is used for aspiration of mucus in newly born babies to ensure easy respiration			
2	**Technical specification**			
2.1	Must contain a graduated chamber (container) of approx.. 25 ml capacity			
2.2	Must be provided with high quality material so that there is no complication with the babies			
2.3	Must provide PVC extension tube of at least 23 cm long allowing a universal connector to connect the device to the suction source			
2.4	Separate lid for safe sealing & transport of aspirate should be provided.			
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 AND			
5	**Warranty & Maintenance Service During Warranty Period**			
5.1	Warranty of 1 year			
6	**Authorization**			
6.1	Manufacturer’s Authorization or Local Distributor Authorization (Manufacturer’s Authorization to the main Distributor is also required in case of Local Authorization)			
7	**Installation and Commissioning & User Training**			
7.1	Not applicable			
8	**Documentation**			
8.1	User (Operating) manual in English.			
8.2	Shall accomplish the Qualification Criteria of the bidder mentioned in the main bid document			

20.Self Inflating bag and mask

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page Number	Remarks
	Self inflating bag and mask			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.2	A resuscitator is used to ventilate a neonate with a body weight of less than 5 kg			
2	**Operational Requirements**			
2.2	operated by hand and ventilation can be done with ambient air or with oxygen			
3	**System Configuration**			
3.1	Ambu bag, neonatal type			
4	**Technical Specifications**			
4.1	It must be totally disassembled, and is easy to clean and disinfect			
4.2	It must be supplied as a complete set with: non-rebreathing patient valve with a pressure limiting valve so that airway pressure does not exceed 4.5 kPa (45 cmH2 O) and can transmit an airway pressure of at least 3 kPa (=30 cmH2 O)			
4.3	The masks must be translucent in two different sizes: - Size 0 (preterm and low-birth-weight baby), round type, outer diameter 35–50 mm; - Size 1 (term baby), round type, outer diameter 50–65 mm silicone rubber			
4.4	Bag size must be 200–320 mL; intake valve with an optional nipple for O_2 tubing: polycarbonate/polysulfone			
4.5	Bag must be made of silicone and valve made of polycarbonate or polysulfone or any other sterilizable material complying with ISO10651-4 or equivalent			
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**			
7.3	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**			
7.4	CE (93/42 EEC Directives) or USFDA approved product certificate.			
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			

21. Weighing Balance (Paediatrics)

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page Number	Remarks
	Weighing Balance (Paediatrics)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.3	A pan type infant weighing scale for measurement of height and weight of neonates.			
2	**Operational Requirements**			
2.3	It must be a METRIC electronic pan type weighing scale operated both AC main power and rechargeable batteries.			
3	**System Configuration**			
3.1	Weighing Machine with Height Measuring Scale, digital, complete unit.			
4	**Technical Specifications**			
4.1	It shall be a digital baby scale with large clear digital display.			
4.2	It shall have one touch zero setting and shall have integral, completely un tippable baby tray.			
4.3	Shall have special damping system with stabilised display.			
4.4	Metric measurement in KG with a weighing range: 0-15kg and a weight reading having accuracy not less than 2 decimal places, 10 grams resolution.			
4.5	Shall have tare and hold feature to retain weight after baby has left the scale			
4.6	Shall have attachable length measure with measuring range from 35 to 80cm.			
4.7	The Scale dimensions: approximately 160H x 420D x 550W mm and about 6kg.			
4.8	Pan size: minimum in 450mm length x 300mm width. Pan to have flat base with lips on both sides only but NOT on both ends. Lip shall be in minimum 80mm height.			
4.9	Pan material: robust acrylic or moulded engineering ABS plastic.			
4.10	Fully enclosed construction makes for ease of cleaning.			
4.11	It shall be space saving and light weight to move.			
4.12	Shall come with rechargeable batteries and shall come with built-in charger or external battery charger.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Spare batteries: 01 set			
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 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**			
7.5	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**			
7.6	CE (93/42 EEC Directives) or USFDA approved product certificate.			
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			

22.ICU Bed

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Cardiac ICU Bed (Manually Operating)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	ICU Beds are required in the Intensive Care for comfort & safety of the patient and to facilitate comfortable transfer to and fro emergency/OT/Wards etc. It is also required to carry out point of care procedures including radiological procedures at the bedside.			
2	**Operational Requirements**			
2.1	ICU Bed mainframe perforated heavy gauge sheet. The system must be manually operable and adjustable for heights, trendelenburg etc.			
3	**System Configuration**			
3.1	Cardiac ICU Bed (Manually Operating) with complete accessories.			
4	**Technical Specifications**			
4.1	The base of the bed must have four sections.			
4.2	Must have X-Ray translucent back section made up of high pressure laminate.			
4.3	Must have X-Ray cassette holder underneath the back section & must allow insertion of X-Ray cassette from either side of the bed.			
4.4	Base frame & support frame must be made up of Stainless steel or pre-treated rust free oven baked epoxy powder coated washable paint.			
4.5	Must have manual adjustment for the following: • Height: 450-840mm • Back Section: 0- 50° • Leg Section: 0-30° • Trendelenburg (25° approx.) • Anti-Trendelenburg (15° approx.)			
4.6	Must have a manual quick release mechanism for back section adjustment during emergency situation			
4.7	Must be equipped with four articulated half-length tuck away side rails			
4.8	Must be equipped with large castors (diameter 150mm) with central braking and steering facility.			
4.9	Four section mattress.			
4.10	Mattress of the Bed must be made up of high density foam with Anti-Microbial agent incorporated into all components that assists in prohibiting growth of bacteria & fungi and easy to clean.			
4.11	Mattress must be fully Radiolucent for ease in performing X-Rays.			
4.12	Must have bumpers at all four corners, place for fixing accessories.			
4.13	Dimensions of bed: • Length: 2200 -2290mm • Width: 850 -1020mm • Mattress Size: appropriate as per bed size			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Bed Ends, detachable: 01 pair • Articulated half-length tuck-away side rails: 04 Nos. • Telescopic IV Rod: 01 no. • Mattress 12 cm thick: 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 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	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			

23. Infusion Pump

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Infusion Pump			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	The infusion pump provides uniform flow of fluid by precisely driving the plunger of a liquid (NS, Glucose, etc.). It provides accurate and continuous flow rate for precise deliver of I.V. medication in critical medical care			
2	**Operational Requirements**			
2.1	The infusion pump must be user friendly, safe to use and must have battery backup and comprehensive alarm system			
3	**System Configuration**			
3.1	Infusion pump with battery backup alarm and with complete accessories			
4	**Technical Specifications**			
4.1	Shall be operated on drip rate peristaltic finger pump method			
4.2	Shall be compatible with most of the IV set (macro/ micro drip sets)			
4.3	Shall have a LED/LCD display with backlight and graphical display of infusion			
4.4	Shall have the ranges of as per following flow rates IV Set — ml/hr — Drops/min i. 15 drops/ml — 3~450 ml/hr — 1~100 drops/min ii. 20 drops/ml — 3~450 ml/hr — 1~100 drops/min iii. 60 drops/ml — 1~100 ml/hr — 1~100 drops/min			
4.5	Shall have a flow rate accuracy of ±10% and drip rate accuracy of ± 3%			
4.6	Shall have a volume infused display from 0 to 999.9 ml			
4.7	Shall have a purge and KVO facility			
4.8	It shall have facility of audible and visual alarm for occlusion pressure, air alarm, door open, empty, low battery.			
4.9	Shall have rechargeable battery having at least 2 hours backup at highest delivery rate			
5	**Accessories, spares and consumables**			
5.1	Accessories: • Mounting device/ Docking station for two or four pumps as per requirement so as to enable to power up to 2-4 pumps with one power cord when mounted on IV pole. – 1 pc			
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 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.			

6.2	Power supply: 220-240 V ACm 50 Hz, fitted with appropriate plug type D round 3 pins. The power cable must be minimum 2.5 meters long			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO 13485:2003/ 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)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year 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. Syringe Pump

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Syringe Pump			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	The Syringe Pump provides uniform flow of fluid by precisely driving the plunger of a syringe down its barrel. It provides accurate and continuous flow rate for precise delivery of I.V medication in critical medical care			
2	**Operational Requirements**			
2.1	The syringe pump must be programmable, user friendly, safe to use and must have battery backup and comprehensive alarm system.			
3	**System Configuration**			
3.1	Syringe pump with battery backup alarm and with complete accessories			
4	**Technical Specifications**			
4.1	Flow rate programmable from 0.1 to 300 ml/hr for 20ml injector and from 0.1 to 500 ml/hr for 50ml injector with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched OFF.			
4.2	Bolus rate must be programmable for at least 400 ml/hr (for 20 ml injector) and at least 550ml/hr (for 50 ml injector). SAVE last bolus rate even when the AC power is switched OFF			
4.3	Keep Vein Open (KVO) must be available and must be less than 1.0 ml/hr. User must have choice to disable KVO whenever desired.			
4.4	Must work on commonly available 20 & 50 ml Syringes with accuracy of minimum ±5% or better.			
4.5	Automatic detection of syringe size & proper fixing. Must provide alarm for wrong loading of syringe such as flanges out of slot, disengaged plunger, unsecured barrel, etc.			
4.6	Anti bolus system to reduce pressure on sudden release of occlusion.			
4.7	Must have comprehensive alarm for all the errors that tend to come during the running of the equipment.			
4.8	Rechargeable battery having at least 3-4 hours backup for about 5ml/hr flow rate with 50ml syringes.			
5	**Accessories, spares and consumables**			
5.1	Accessories: • Mounting device/ Docking station for two or four pumps as per requirement so as to enable to power up to 2-4 pumps with one power cord when mounted on IV pole. – 1 pc			
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 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.			

6.2	Power supply: 220-240 V AC 50 Hz, fitted with appropriate plug type D round 3 pins. The power cable must be minimum 2 meters long.			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO 13485:2003/ 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)			
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			

25.ICU Ventilator

SN.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	ICU Ventilator			
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	**Description of Functions**			
1.1	A pneumatic dedicated adult and paediatric ventilator for use in intensive care unit with CPAP mode.			
2	**Operational Requirements**			
2.1	It shall operate from the mains supply with central oxygen supply and oxygen cylinder.			
3	**System Configurations**			
3.1	Ventilator unit, 1 unit.			
3.2	Trolley, 1unit.			
3.3	Accessories, 1set.			
4	**Technical Specifications**			
4.1	It shall be an electronically controlled pneumatic ventilator.			
4.2	The pneumatics must be designed such that the patient is always permitted for free spontaneous breathing.			
4.3	The air passed through the compressor or turbine shall be cleaned by a HEPA filter before delivering to patient.			
4.4	Ventilator shall come with non-invasive ventilation.			
4.5	Inlet gas pressure: air 3-5bar, O2: 3-6bar			
4.6	Microprocessor controlled gas delivery system with integrated air pump or a matching medical air compressor, which will automatically switch on when medical air from the central supply is cut off.			
4.7	With integrated electronic air-oxygen mixture control.			
4.8	Battery back-up time: Approximately 120 min			
4.9	Ventilation mode: A/C, SIMV, CPAP, PSV, BIPAP, Apnoea ventilation, SPONT			
4.10	Ventilation frequency: approximately 2 - 80 bpm			
4.11	Inspiratory flow range: 6 to 150 l/min			
4.12	Triggering mechanism: flow triggering, preferably with pressure triggering.			
4.13	Inspiration time: approximately 0.2-10s			
4.14	Tidal volume: approximately 0.05-2l			
4.15	Inspiratory pressure: approximately 0 - 100mBar			
4.16	Oxygen concentration (FiO2): 21-100 volume %			
4.17	In case of oxygen failure, the ventilator must be able to provide ventilation with room air.			
4.18	PEEP/ intermittent PEEP: approximately 0-35mBar			
4.19	Triggering sensitivity: flow triggering: not more than 1-15l/min, in the case if pressure triggering is included: -20- -0.1cmH2O			

SN.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
4.20	Automatically calculate inspiratory and expiratory triggering points			
4.21	With leak compensation to NPPV and pressure support (PSV) in SMIV and CPAP modes			
4.22	Pressure support Ventilation (PSV): approximately 0-35mBar			
4.23	The ventilators shall have volume-controlled and pressure-controlled modes that can be used to provide both full and partial ventilatory support.			
4.24	Volume controlled: Assist/Control, IMV (Intermittent mandatory ventilation) and SIMV (Synchronized Intermittent Mandatory Ventilation)			
4.25	Pressure controlled: Assist/Control, IMV (Intermittent mandatory ventilation) and SIMV (Synchronized Intermittent Mandatory Ventilation)			
4.26	With Spontaneous pressure support mode			
4.27	With Apnoea-backup ventilation mode			
4.28	Volume Support (Volume supported ventilation), synchronized support ventilation with volume guarantee			
4.29	CPAP (Continuous Positive Airway Pressure)			
4.30	The ventilator shall also have combination modes, combine volume- and pressure-controlled ventilation to ensure that a minimum volume is delivered with an initial flow that matches patient demand.			
4.31	SIMV (Volume Control) (Synchronized Intermittent Pressure Support Mandatory Ventilation based on volume controlled ventilation with pressure support)			
4.32	Ventilator off / Battery charging			
4.33	<u>Trigger bias flow:</u> • Paediatric flow triggering • Adult flow triggering			
4.34	Pre-set Tidal Volume: approximately 20- 2 000mL			
4.35	Pre-set Minute Volume: approximately 0.2 - 20 L/min			
4.36	Oxygen breaths:			
4.37	100% for 20 breaths or max 3min			
4.38	Patient range:			
4.39	Paediatric / Adult			
	<u>Monitoring and Alarms:</u>			
4.40	Standard monitoring of the following parameters: Pressures, flow, volumes, time, frequency, real time waveforms, trends, oxygen percentage.			
4.41	Must contain all standard operator-adjustable as well as special audible as well as visual alarms for all the vital ventilation parameters like volumes, pressures, frequencies, oxygen percentage, Apnoea and also its technical status.			
4.42	Apnoea alarm time approximately 15 - 60 sec			
4.43	With internal flow sensor			
4.44	With bacterial filter, able to filter at least 99.97% of all 0.3 microns particles, at both inspiration and expiration terminal.			
4.45	The expiration bacterial filter is preferably housed in a heating device to reduce condensation in the filter.			
4.46	Expiration sensitivity regulation			

SN.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
4.47	Auxiliary equipment port. Bidder shall indicate details here.			
4.48	It shall be able to work with O2 concentrator in delivering oxygen to patient.			
5	**Accessories, Spare Parts 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 Forms.			
5.2	All standard Maintenance tools and cleaning /lubrication materials where applicable shall be included. 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 Forms.			
5.3	HEPA filter, 5 sets for 5 replacements			
5.4	Silicon Autoclaveable breathing circuit for adult and child, 2 complete sets each.			
5.5	Connecting hose with regulator/ flow meter or probe for connection to Pin index oxygen cylinder and BOC type oxygen wall outlet, 3 meter length, 1 set			
5.6	Calibration manometer, Test.			
5.7	Hexagonal wrench 5mm			
5.8	O2 cell with O-ring.			
5.9	Silicon test lung adult and child size, 1 set each			
5.10	Nipple connector 15-10 mm			
5.11	Trolley,1 unit			
5.12	Breathing gas Humidifier, x 2 sets, with following parameters. (a) Adjustable temperature regulation. (b)Safety valves. (c)Display for operating status and Humidifier Accessories including: (1)Clamp set (2) Temperature sensor (3) Humidifier bracket (4) Patient hoses (5) Water traps (6) Y pieces (6) Catheter connector and etc.			
5.13	Patient humidifier, 1 pc			
5.14	Humidifier bracket, 1 pc			
5.15	Hinged arm, 1 pc			
5.16	Temperature sensor, 1 unit			
5.17	Flow sensors, 5 pcs			
5.18	Inspiration bacterial filter, able to filter 99.97% of all 0.3 microns particles, 5 pcs			
5.19	Expiration bacterial filter, able to filter 99.97% of all 0.3 microns particles, 5 pcs			
6	**Operating Environment**			
6.1	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.			
7	**Standards & Safety Requirements**			
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND** CE (93/42 EEC Directives) or USFDA approved product certificate.			

SN.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
7.2	Certified to be compliant with ANS/IEC60601.2.12-01 Medical Electrical Equipment—Part 2-12; Particular Requirements for the Safety of Lung Ventilators—Critical Care Ventilators.			
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			

26.Blood Gas Analyser

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Blood Gas Analyser			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Blood gas analysers are used to measure blood gases, electrolytes, pH values and biochemical parameters of the blood			
2	**Operational Requirements**			
2.1	Fully automatic, upgradeable, fast electrolyte combi analyser.			
3	**System Configuration**			
3.1	Fully automatic Blood Gas Analyser with electrodes and built in printer.			
4	**Technical Specifications**			
4.1	Essential Measured parameters; pH, pCO_2, pO_2, Hb, HCT, Na+, K+, Ca++, Cl-, Blood sugar and lactate. All these parameters must be measured simultaneously			
4.2	Calculated parameters must include BE, BE ecf, HCO_3, Anion Gap.			
4.3	Sample volume-less than 150ul.			
4.4	Fast analysis time – less than 60 sec			
4.5	Maintenance free electrodes.			
4.6	Fully automatic liquid calibration of all parameters at user-defined intervals without the use of Gas calibrated reagents, external gases, tanks or regulators			
4.7	Continuous reagent level monitoring with graphic display.			
4.8	Data display on well-illuminated, adequate size LCD colour touch screen display.			
4.9	Data print out on built in graphic printer.			
4.10	Built in auto Quality control facility			
4.11	Automatic result processing, test ordering and transmission to the LIS/HIS system (laboratory Information System/Hospital Information System)			
4.12	Automatic data archiving and customizable layout. Data backup with read/write CD-ROM drive			
4.13	Must come with at least 2 USB ports			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Reagents for 3 months @5 samples/day or as per requirement must be provided along with the machine. • Electrodes for all the parameters as specified -01 set • Quality control tools/reagents • Cost of reagents must be quoted for comparative evaluation.			
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			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	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.			
6.3	UPS of suitable rating shall be supplied for minimum 30 min. backup for the entire 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.			
7.3	Shall meet IEC 61010-2-081: Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes			
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			
9.2	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			

27.Crash Cart

SN	Purchaser's Specification	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Manufacture			
	Brand			
	Type/ Model			
	Country of Region			
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 oximeter			
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 AND			
5	**Installation and Commissioning & User Training**			
5.1	Supplier 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	Shall accomplish all the Qualification Criteria of the bidder mentioned in the main bid document			

28.CPAP Bubble

S.N.	Purchaser's Specifications		Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	CPAP Bubble				
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	**Description of Function**				
1.1	CPAP Bubble is used to support non-invasive ventilation for neonates				
2	**Operational Requirements**				
2.1	CPAP Bubble for neonates				
3	**System Configuration**				
3.1	CPAP Bubble, complete units				
4	**Technical Specifications**				
4.1	Bubble CPAP machine with compressor.				
4.2	CPAP generator with pressure range from 3 to 10 cm of water				
4.3	Capable of giving nasal/nasopharyngeal CPAP				
4.4	Air and oxygen blender separately calibrated with flow from 0-15 lit/min				
4.5	Safety mechanism for relief of excessive pressure through pressure relief valve/regulator				
4.6	Soft anatomically shaped nasal prongs				
4.7	Alarms for : Low/high Temperature , Tube open , Flow increase / decrease alarm, O_2 pressure low alarm and Air pressure low alarm must be available				
4.8	Flow meters: 02 with each piece.				
5	**Accessories, spares and consumables**				
5.1	**Accessories** - Heated wire servo-controlled humidifier…….. 01 - 5 ml test lung ……01 - Disposable patient circuits…… 9 (3 each of different neonatal sizes) - Disposable nasal prongs …….9 (3 each of different neonatal sizes)				
5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.				
6	**Operating Environment**				
6.1	The product offered shall be designed to be stored and to operate normally under 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 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)			
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			

29.Baby Incubator

S.N.	Purchaser's Specifications		Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Baby Incubator				
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	**Description of Function**				
1.1	Baby Incubator is an apparatus used to maintain environmental conditions suitable for a neonate (newborn **baby**). It is used in preterm births or for some ill full-term **babies**.				
2	**Operational Requirements**				
2.1	Baby Incubators for pre-matured births				
3	**System Configuration**				
3.1	Baby Incubator (Infant Incubator), complete unit				
4	**Technical Specifications**				
4.1	Should have advanced servo controlled micro processor based system.				
4.2	Should have both skin and air modes of operation				
4.3	Should have user friendly control panel with large easy to read LED displays for air and skin temperatures				
4.4	The probes should be detachable type and should be interchangeable				
4.5	Should have memory back up to retrieve set data against power failure				
4.6	Should have calibration free temperature sensors				
4.7	Should have humidity chamber and humidity measurement				
4.8	The air distribution system should have micro air filter				
4.9	The baby tray should have externally controlled up and down tilting facility and the tray should be withdrawable type.				
4.10	The canopy should be hinged type.				
4.11	Should have temperature low/high, probe failure, power failure, heater failure, air failure alarm				
4.12	The heater should automatically cut off at 39 degree Celsius irrespective of the set parameters				
4.13	Should have IV stand and observation lamp				
4.14	Should be mounted on four smooth running swivelling casters with integrated brakes				
4.15	The unit should be made of mild steel tubular structure pre-treated and powder coated.				
5	**Accessories, spares and consumables**				
5.1	**Accessories** - Skin temperature probe 2 nos - Air temperature probe 2 nos - IV pole 1 no - Storage drawer 1 no - Accessory tray 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.				
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 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.			
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			

30.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**			
6.1	The product 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.			
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			

31. Oxygen Concentrator

S.N.	Purchaser's Specification	Bidder's Compliance	Reference Page No.	Remarks
	Portable Oxygen Concentrator			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Portable device used to provide oxygen therapy to patients at substantially higher oxygen concentrations than the levels of ambient air, smaller in size and more mobile.			
2	**Operational Requirements**			
2.1	Electrically operated Portable device to produce substantially higher oxygen concentrations of oxygen than the levels of ambient air is required.			
3	**System Configuration**			
3.1	Oxygen contractor Minimum flow 5L per min with complete accessories.			
4	**Technical Specifications**			
4.1	Shall have Semi automatic operation.			
4.2	Oxygen Density minimum 90% V/V.			
4.3	Compact structure design, light weight, easy to move.			
4.4	Advanced oil-free compressor			
4.5	24 hours continuous working available, Minimum 15000 hours working time warranty			
4.6	Big LCD Screen easy to operate Remote control with timing setting Power off alarm, abnormal voltage alarm Time setting, times keeping and time counting Running Noise note more than 50dB.			
4.7	Dimensions: 390x340x610 mm Approx Gross Weight: not more than 10Kg			
4.8	Power consumption not more than 400W			
5	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 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.			
6.2	Power supply: 220-2300 V 50 Hz fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 meters long			

7.	**Standards and Safety Requirements**			
7.1	Must submit ISO 13485:2003/ 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)			
9	**Warranty & Maintenance Service During Warranty Period**			
9.1	Comprehensive warranty for 1 year 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			

32.Medicine Trolley

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Trolley, Medicine			
	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 medicine trolley with 2 shelves.			
3	**System Configuration**			
3.1	Medicine 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**			
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**			

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
9.1	Comprehensive warranty for 1 years 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.Breast Pump (Electric)

S.N	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
	Breast Pump (Electric)			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	A breast pump to extract milk.			
2	**Operational Requirements**			
2.1	Breast pump can be operated with electricity.			
3	**System Configuration**			
3.1	Pump, breast, electric, with accessories.			
4	**Technical Specifications**			
4.1	Smooth operation simulates natural new born sucking patterns.			
4.2	Ergonomic swivel handle allows for easy tireless expression			
4.3	All parts can be autoclaved at 121°C.			
4.4	Vacuum range, approximately: 0 - 300mmHg			
4.5	Fit with feature to adjust vacuum.			
4.6	Force to operate lever, approximately: 1.5kg			
4.7	Capacity collection container, approximately: 150ml.			
4.8	Portable lightweight, maintenance free and not requiring specific storage conditions.			
4.12	**Material:** • All parts from durable high-strength resistant • Breast-shield, reduction insert, valve system, collection bottle, cap, lid, disk, stand: polypropylene • Membrane: Silicon			
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 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 ISO13485:2003/AC:2007 for Medical Devices **AND**			
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**			

S.N	Purchaser's Specifications	Bidder's Compliance (Yes / No)	Reference Page No.	Remarks
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			