

Technical specification of Oxygen Cylinder Trolley

S.N.	Purchaser's Specifications	Bidders Offer
	Oxygen Cylinder, Trolley	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.1	An oxygen cylinder trolley is a specialized medical cart designed to safely store and transport heavy, high-pressure oxygen tanks	
2	Operational Requirements	
2.1	Heavy-duty oxygen cylinder transport trolley for hospital use. It can hold the capacity of big size at least 47 Liters (Water capacity)	
3	System Configuration	
3.1	Heavy Duty Oxygen Cylinder, Trolley with heavy duty wheel, chain to hold cylinder and with flat surface.	
4	Technical Specifications	
4.1	Suitable for carrying one large oxygen cylinder (47–60 L)	
4.2	Load capacity Minimum 120 kg or higher	
4.3	Frame materials should have heavy-duty MS steel tubular frame or stainless-steel construction	
4.4	Surface finishing should be powder-coated epoxy finish / anti-corrosion treatment	
4.5	Heavy-duty chain or clamp system for secure cylinder holding	
4.6	Two-wheel design for enhanced stability with wheel size minimum 125 mm diameter made with non-marking rubber or PU wheels suitable for hospital floors	
4.7	Base plate should be reinforced steel base for supporting heavy cylinders	
5	Accessories, spares and consumables	
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6	Operating Environment	
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO 13485 for medical devices	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment)	
9	Warranty	
9.1	Comprehensive warranty for 1 year after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	



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11	Installation and Commissioning	
11.1	Supplier must accomplish proper commissioning of equipment onsite.	
12	Documentation	
12.1	User (Operating) manual in English.	
12.2	Service (Technical / Maintenance) manual in English.	

Technical specification of Electric Phlebotomy Chair Recliner

S.N.	Purchaser's Specifications	Bidders Offer
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.1	The chair shall provide comfortable positioning of donors during blood donation and allow rapid conversion to a Trendelenburg/emergency position.	
2	Operational Requirements	
2.1	Electric Phlebotomy Chair Recliner shall be ergonomically designed and suitable for prolonged patient occupancy.	
3	System Configuration	
3.1	Electric Phlebotomy Chair Recliner with stable base with anti-slip feet or lockable castors.	
4	Technical Specifications	
4.1	Should have overall length in reclined position: approximately 1800–2000 mm. Seat width: approximately 850–950 mm. Seat height: approximately 1300–1700 mm.	
4.2	Electric blood donor couch suitable for blood collection and transfusion services.	
4.3	Should have safe working load (SWL): minimum 150 kg.	
4.4	Chair frame should be made of premium power coated steel	
4.5	Should have three or more motorized movements for height, backrest, and leg-rest adjustment.	
4.6	Should have two geared actuators for donor safety and comfort.	
4.7	Should have seamless, antimicrobial, fire-retardant, medical-grade upholstery.	
4.8	Should have remote control operation with remote-controlled tilt adjustment.	
4.9	Should have four at least 100 mm size castors with individual locking mechanism for better stability.	
4.10	Should have Back Section Adjustment 0° to 70° or wider, Leg Section Adjustment 20° to 90°, Seat Segment Angle 0° to 30° and Trendelenburg / Reverse Trendelenburg at least 12°, Armrest Swing Out 0°–180°	
4.11	Should have armrests adjustable in height, depth, and pivot angle with Armrest Length 60 cm and upholstery with high-density foam mattress with seamless, washable with 60mm thick of density 30kg/m ³ or more	



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4.12	Should have patient comfort and safety with ergonomic headrest, contoured backrest and leg support for patient safety.	
5	Accessories, spares and consumables	
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6	Operating Environment	
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO 13485 for medical devices	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment)	
9	Warranty	
9.1	Comprehensive warranty for 1 year after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	Supplier must accomplish proper commissioning of equipment onsite.	
12	Documentation	
12.1	User (Operating) manual in English.	
12.2	Service (Technical / Maintenance) manual in English.	

Technical specification 5 para–Bedside Monitor with wall Mount

S. N	Technical Specification	Bidders Offer
	5 para–Bedside Monitor with wall Mount	
	Manufacturer	
	Brand	
	Type/ Model	
	Country of Origin	
1	Description of Function	
1.1	A bedside monitor is a display of major body functions on a screen. Advance high end monitoring vital signs of all patient categories, at bedside, transportation applicable for Adult, Pediatric and neonatal application	
2	Operation Requirements	
2.1	It shall operate on AC power supply as well as built-in battery.	
3	System Configuration	
3.1	Measuring Parameters: ECG, RESP, TEMP, SPO2, PR & NIBP with all standard accessories for all monitoring parameters available.	
4	Technical Specification	



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4.1	Advanced High end Patient Monitor for Adult, Pediatric and neonatal application	
4.2	Should have atleast 12" or more high resolution with navigation wheel or touch screen.	
4.3	The system shall continuously monitor and display ECG, Heart Rate (HR), Respiration (RESP), Non-Invasive Blood Pressure (NIBP), Oxygen Saturation (SpO ₂), Pulse Rate (PR), and Temperature (TEMP).	
4.4	Should be capable of displaying a minimum of 8 waveforms simultaneously.	
4.5	Heart Rate (HR) measurement range: 15 – 300 bpm or wider, Respiration Rate (RR) measurement range: 0 – 120 breaths/min or wider, SpO ₂ measurement range: 0 – 100%, Pulse Rate (PR) measurement range: 25 – 240 bpm or wider and Non-Invasive Blood Pressure (NIBP) measurement range: 40 – 270 mmHg or wider	
4.6	The system shall provide real-time waveform display, numeric data display, trend analysis, alarm management, and event review functions.	
4.7	Monitor must have Lithium-ion Battery with atleast 2-hour battery backup.	
4.8	The system shall provide real-time waveform display, numeric data display, trend analysis, alarm management, and event review functions.	
4.9	The monitor shall be supplied with a robust wall-mounting system and all necessary hardware for installation.	
4.10	Must have Alarm limit display on main screen.	
4.11	Monitor should have 24 hours of graphical, tabular trends and data storage.	
4.12	Shall have defibrillator protection during defibrillation.	
4.13	Display shall have facility to report system errors, leads and sensors failure, built-in battery status.	
5	Accessories, Spare 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.	
5.2	Accessories: Must be supplied with standard accessories. <ul style="list-style-type: none"> • 3/5 lead ECG/ respiration patient cable – 1 set • ECG monitoring electrode – 10 pcs. • SPO₂: 1 set each • NIBP: 1 set each • Temperature sensor – 1 set 	
6	Operating Environment	
6.1	3 pin Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The 3 pin power cable must be at least 3 meters in length.	
6.2	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 13485 for Medical Devices	
7.2	Must submit CE or USFDA approved product certificate.	
8	User Training	




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8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	The comprehensive warranty period should be 1 years.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	Supplier must accomplish proper commissioning of equipment onsite.	
12	Documentation	
12.1	User (Operating) manual in English.	
12.2	Service (Technical / Maintenance) manual in English.	

Technical Specification of Emergency Crash Cart Trolley

S.N.	Purchaser's Specifications	Bidders Offer
	Emergency Crash Cart Trolley	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.1	Emergency trolley or (Emergency 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 potentially to save a patient's life.	
2	Operational Requirements	
2.1	Stainless steel trolley on stainless steel tubular frame.	
3	System Configuration	
3.1	Emergency trolley (Emergency Crash Cart) with removable coloured bins, storage units, fitted with oxygen cylinder holder and electric lamp holder and four swivels' castors.	
4	Technical Specifications	
4.1	Dimensions: approx. 960mm L x 500mm W x 1545mm H.	
4.2	Stainless steel top and shelf & equipped with 4 - 6 removable coloured bins made of moulded plastic.	
4.3	Lockable storage units – 3 drawers (stainless steel or moulded plastic).	
4.4	To be fitted with stainless steel, height adjustable, twin hook/loop, IV pole assembly.	
4.5	Fully, 360 deg. swivel castors/wheels, size 125mm Dia with at least one castor/wheel to have locking/brake mechanism.	
4.6	SS shelves 14 G thick stainless steel or mild steel	
4.7	Top shelf to have stainless steel or mild steel guard rail approx. 35mm above surface.	
4.8	Fitted with epoxy powder coated oxygen cylinder holder and electric lamp holder with clamp and cardiac massage board.	


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S.N.	Purchaser's Specifications	Bidders Offer
4.9	Must be capable of carrying ECG Monitor/defibrillator and a suction apparatus.	
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 for medical devices	
7.2	Must Submit CE or USFDA approved product certificate.	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 1 year.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	Supplier must accomplish proper commissioning of equipment onsite.	
12	Documentation	
12.1	User's manual shall be supplied in English.	

Technical Specification of Digital Water Bath

S.N.	Purchaser's Specifications	Bidder's Offer
	Digital Water Bath	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.1	Digital Water bath maintains a constant pre-set temperature for treating samples.	
2	Operational Requirements	
2.1	General and laboratory purpose digital water bath is required.	
3	System Configuration	
3.1	Digital Water Bath, complete unit with all standard accessories.	
4	Technical Specifications	
4.1	Should have Material: Inner and outer jacket made up stainless steel of approximately 1-2mm thickness.	
4.2	Should have Capacity: at least 20 Ltrs	



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4.3	Should have No. of heating coils: 2 minimum or 500-800W	
4.4	Should have Microprocessor controlled programmable, digital display for temperature sensor (PT100) etc.	
4.5	Should have Temp. Range: 10 °C to 100 °C accuracy +/- 1 °C.	
4.6	Should have Vessel Holders: Circular rings at the tops, size ramping 2 inch to 6 inch, minimum 6 nos. holding beakers of 25ml to 500ml capacity and tubes of various sizes	
4.7	Should have No. of holes: at least 6 holes with 65-75 mm concentric rings.	
4.8	Digital display to set show and set temperature and acquired temperature.	
4.9	Safety alarm like over temperature, visual and acoustic alarm.	
4.10	Should have auto-cut facility once reached the set temperature.	
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 Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The 3 pin power cable must be at least 3 metre in length.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO13485 approved product certificate	
7.2	Must submit CE or USFDA approved product certificate.	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 1 years after acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	Supplier must accomplish proper commissioning of equipment onsite.	
12	Documentation	
12.1	User (Operating) manual in English.	



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Technical specification of Weight Analytical Digital Balance

S.N.	Purchaser's Specifications	Bidder's offer
	Weight Analytical Digital Balance	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.1	To determine the mass of small samples with great accuracy and precision.	
2	Operational Requirements	
2.1	Weight Analytical Digital Balance with all standards accessories.	
3	System Configuration	
3.1	Weight Analytical Digital Balance at least 2 digits with complete unit with all standard accessories.	
4	Technical Specifications	
4.1	Maximum Weighing Capacity (g)	≥300 g with at least 2 digits
4.2	Type Of Weighing Scale	Digital type with at least 2 Digits
4.3	Readability	1gm
4.4	Accuracy	±0.002gm
4.5	Repeatability	+/- 1mg
4.6	Pan Size	Ø80mm or better
4.7	Linearity	+/- 2mg
4.8	Calibration	External type
4.9	Windshield	Large glass draught rectangular shield
4.10	Display	Backlight LCD display
4.11	Function	Weighing, counting, different Measuring Units
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 Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 220 – 240 VAC, 50-60Hz fitted with appropriate standard 3 pin plug. The power cable must be at least 3 metre in length.	
7	Standards and Safety Requirements	
7.1	Should submit ISO 9001 or ISO 13485 approved product certificate.	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 1 year after acceptance.	


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10	Maintenance Service during Warranty Period	
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
12	Documentation	
12.1	User (Operating) manual in English.	
12.2	Service (Technical / Maintenance) manual in English.	


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