

Technical Specification of Digital Water Bath For Khairani Hospital For F/Y 2082/083



S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
		Yes /No	Ref Dos Page No.	Remarks
	<b>Digital Water Bath</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type / Model</b>			
	<b>Country of Origin</b>			
<b>1</b>	<b>Description of Function</b>			
1.1	A digital water bath is a laboratory device providing precise, electronically controlled heating for uniform, indirect incubation of samples, typically up to 99.9°C.			
<b>2</b>	<b>Operational Requirements</b>			
2.1	Digital water bath operation requires placing the unit on a level surface, filling the tank with distilled water to about 2.5-5 cm (1-2 inches) from the top, and ensuring the heater/sensors are submerged			
<b>3</b>	<b>System Configuration</b>			
3.1	A stainless steel tank, a digital Micro-Controller / PID controller, heating elements, a temperature sensor (PT100), and a display panel			
<b>4</b>	<b>Technical Specifications</b>			
4.1	<b>Inner Chamber/Tank:</b> A corrosion-resistant, high-grade stainless steel tank (SS304 or similar) designed to hold water.			
4.2	<b>Outer Body:</b> Usually constructed of mild steel, often powder-coated for durability and to resist chemical corrosion.			
4.3	<b>Insulation:</b> High-grade glass wool or similar material is packed between the inner and outer walls to minimize heat loss and improve energy efficiency.			
4.4	<b>Temperature Range:</b> Generally ambient Room Temperature up to 99°C or more.			
4.5	<b>Accuracy:</b> ± 0.5° C			
4.6	<b>Display:</b> Digital Display to show Set temperature and Acquired Temperature			
4.7	<b>Setting:</b> Required Temperature should be Able to set.			
4.8	<b>Safety:</b> Over temperature alarm, visual and acoustic Alarm.			
4.9	Auto-Cut off once set temperature is reached.			
<b>5.0</b>	<b>Accessories, spares and consumables</b>			
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).			
<b>6.0</b>	<b>Operating Environment</b>			
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.			
7.0	<b>Standards and Safety Requirements</b>			
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND			
8.0	<b>User Training</b>			
8.1	Must Provide User Training for proper Functioning of the equipment.			
9.0	<b>Warranty</b>			
9.1	Comprehensive warranty for 1 years.			
10.0	<b>Maintenance Service During Warranty Period</b>			
10.1	Standard warranty conditions are applicable.			
11.0	<b>Installation and Commissioning</b>			
11.1	Must supply preassembled unit, ready to use.			
12.0	<b>Documentation</b>			
12.1	User's manual shall be supplied in English.			
Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee				



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**Technical Specification of Analytical Balance For Khairat Hospital For F/Y 2082/083**

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
		Yes /No	Ref Dos Page No.	Remarks
	<b>Analytical Balance</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type / Model</b>			
	<b>Country of Origin</b>			
<b>1</b>	<b>Description of Function</b>			
1.1	An analytical balance is a highly sensitive laboratory instrument designed to measure small masses in the range of sub-milligram to micrograms (to 0.1mg to 0.01mg readability) with extreme precision			
<b>2</b>	<b>Operational Requirements</b>			
2.1	The balance must be leveled, calibrated regularly, and kept on a dedicated, anti-vibration table away from direct sunlight, doors, and air vents.			
<b>3</b>	<b>System Configuration</b>			
3.1	Analytical balance system configuration involves setting up a highly sensitive instrument—typically with a readability of 0.1 mg or better—designed for maximum accuracy through environmental isolation, precise levelling.			
<b>4</b>	<b>Technical Specifications</b>			
4.1	<b>Display:</b> LCD or LED with high contrast.			
4.2	<b>Draft Shield:</b> Glass, required for protection against environmental interference.			
4.3	<b>Calibration:</b> Automatic internal calibration (time/temperature-controlled).			
4.4	<b>Stabilization Time:</b> approx. 2-4 seconds.			
4.5	<b>Pan Size:</b> Minimum 70mm diameter.			
4.6	<b>Linearity:</b> $\pm 0.2\text{mg}$ to $\pm 0.3\text{mg}$ or better.			
4.7	<b>Capacity:</b> upto 500gm or more.			
4.8	Should Contain 'Zero' button to set the display to 0.00 g before weighing, allowing the device to subtract the weight of containers.			
<b>5.0</b>	<b>Accessories, spares and consumables</b>			
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).			
<b>6.0</b>	<b>Operating Environment</b>			
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.			

7.0	<b>Standards and Safety Requirements</b>			
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND			
8.0	<b>User Training</b>			
8.1	Must Provide User Training for proper Functioning of the equipment.			
9.0	<b>Warranty</b>			
9.1	Comprehensive warranty for 1 years.			
10.0	<b>Maintenance Service During Warranty Period</b>			
10.1	Standard warranty conditions are applicable.			
11.0	<b>Installation and Commissioning</b>			
11.1	Must supply preassembled unit, ready to use.			
12.0	<b>Documentation</b>			
12.1	User's manual shall be supplied in English.			
Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee				



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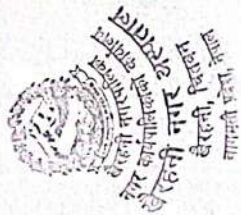
**Technical Specification of Phlebotomy Chair Recliner For Khairati Hospital For F/Y 2082/083**



S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
		Yes /No	Ref Dos Page No.	Remarks
	<b>Phlebotomy Chair Recliner</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type / Model</b>			
	<b>Country of Origin</b>			
<b>1</b>	<b>Description of Function</b>			
1.1	A phlebotomy chair recliner is a specialized medical chair designed to securely position patients for blood collection, IV therapy, or minor procedures.			
<b>2</b>	<b>Operational Requirements</b>			
2.1	Reclining phlebotomy chairs are specialized medical devices designed for patient safety, comfort, and ease of access during blood collection, particularly for patients prone to fainting or experiencing anxiety.			
<b>3</b>	<b>System Configuration</b>			
3.1	Chairs typically feature a sturdy, often powder-coated steel frame, with either manual mechanisms to move from an upright position to a full recline or Trendelenburg position.			
<b>4</b>	<b>Technical Specifications</b>			
4.1	Mounted on 4 sturdy supports, all finished with height adjustable feet.			
4.2	All sections fitted with non-removable padded upholstery.			
4.3	Robust mechanics allow for manual repositioning of all sections.			
4.4	Self-locking adjustable armrest.			
4.5	Fixed height.			
4.6	Back and leg rests are height and inclination adjustable with gas-spring assistance i.e Backrest from -5° to +90°(approx.) – Leg-rest from -80° to +10° (approx.)			
4.7	<b>Materials:</b> High resistance to corrosion (tropical environment). Frame: epoxy coated steel Adjustable feet: rubber or nylon.			
4.8	<b>Cover:</b> plastic, flexible, highly tear resistant, anti-static, flame-retardant, non-absorbing, waterproof and cleanable with hospital-grade disinfection products. <b>Padded upholstery:</b> high-density polyurethane foam, density 30 kg/m <sup>3</sup> or more.			
4.9	<b>Dimensions: approx.</b> Width: 55-60 cm. Height: 64-65 cm. Padded upholstery: min. 5 cm (h). Length (longest position): 187 cm.			

4.10	<b>Load Bearing Capacity : 150kg or more.</b>			
5.0	<b>Accessories, spares and consumables</b>			
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).			
6.0	<b>Operating Environment</b>			
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.			
7.0	<b>Standards and Safety Requirements</b>			
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND			
7.2	CE or USFDA product certificate.			
8.0	<b>User Training</b>			
8.1	Must Provide User Training for proper Functioning of the equipment.			
9.0	<b>Warranty</b>			
9.1	Comprehensive warranty for 1 years.			
10.0	<b>Maintenance Service During Warranty Period</b>			
10.1	Standard warranty conditions are applicable.			
11.0	<b>Installation and Commissioning</b>			
11.1	Must supply preassembled unit, ready to use.			
12.0	<b>Documentation</b>			
12.1	User's manual shall be supplied in English.			

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee



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**Technical Specification of Oxygen Cylinder Trolley For Khairani Hospital For F/Y  
2082/083**



S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
		Yes /No	Ref Dos Page No.	Remarks
	<b>Oxygen Cylinder Trolley</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type / Model</b>			
	<b>Country of Origin</b>			
<b>1</b>	<b>Description of Function</b>			
1.1	An oxygen cylinder trolley is a specialized medical transport device designed for the safe, efficient, and effortless movement of oxygen cylinders within healthcare settings.			
<b>2</b>	<b>Operational Requirements</b>			
2.1	It must be Strong enough to hold the Cylinder of Big Size 47liter (Water Capacity).			
<b>3</b>	<b>System Configuration</b>			
3.1	Must Come with Wheel, stand, Flat Surface to hold Cylinder with Chain to hold cylinder.			
<b>4</b>	<b>Technical Specifications</b>			
4.1	<b>Construction:</b> Fully-welded, durable mild steel or stainless steel frame with epoxy powder coating for rust resistance.			
4.2	<b>Wheels:</b> Two solid rubber wheels (5inch or more) for easy movement, often with anti-static properties for hospital environments.			
4.3	<b>Safety Features:</b> Adjustable, heavy-duty chains/ Metal straps to secure cylinders.			
4.4	<b>Dimensions:</b> Height and width compatible to 47litre (Water Capacity) <b>Base:</b> Designed for easy loading (often low-profile or sloped base).			
4.5	<b>Load Capacity:</b> Ranging from 60kg for smaller trolleys up to 100kg for heavy-duty, cylinder trolleys.			
<b>5.0</b>	<b>Accessories, spares and consumables</b>			
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).			
<b>6.0</b>	<b>Operating Environment</b>			
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.			
<b>7.0</b>	<b>User Training</b>			
7.1	Must Provide User Training for proper Functioning of the			

	equipment.			
<b>8.0</b>	<b>Warranty</b>			
8.1	Comprehensive warranty for 1 years.			
<b>9.0</b>	<b>Maintenance Service During Warranty Period</b>			
9.1	Standard warranty conditions are applicable.			
<b>10.0</b>	<b>Installation and Commissioning</b>			
10.1	Must supply preassembled unit, ready to use.			
Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee				



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page 2: (oxygen cylinder Trolley)

	equipment.			
<b>8.0</b>	<b>Warranty</b>			
8.1	Comprehensive warranty for 1 years.			
<b>9.0</b>	<b>Maintenance Service During Warranty Period</b>			
9.1	Standard warranty conditions are applicable.			
<b>10.0</b>	<b>Installation and Commissioning</b>			
10.1	Must supply preassembled unit, ready to use.			
Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee				



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page 2 : (oxygen cylinder Trolley)



**Technical Specification of Emergency crash cart**

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
		Yes /No	Ref Dos Page No.	Remarks
	<b>Emergency crash cart</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type / Model</b>			
	<b>Country of Origin</b>			
<b>1</b>	<b>Description of Function</b>			
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.			
<b>2</b>	<b>Operational Requirements</b>			
2.1	Stainless steel trolley on stainless steel tubular frame.			
<b>3</b>	<b>System Configuration</b>			
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.			
<b>4</b>	<b>Technical Specifications</b>			
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 or stainless steel.			
4.3	Lockable storage units – 3 drawers (stainless steel or moulded plastic). Wood or wood laminate construction drawers are NOT acceptable.			
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.			
4.7	Top shelf to have stainless 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.			
4.9	Must be capable of carrying ECG Monitor/defibrillator and a suction apparatus.			
<b>5.0</b>	<b>Accessories, spares and consumables</b>			
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).			
<b>6.0</b>	<b>Operating Environment</b>			
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.			
<b>7.0</b>	<b>Standards and Safety Requirements</b>			
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND			

7.2	CE or USFDA product certificate.			
8.0	User Training			
8.1	Not applicable			
9.0	Warranty			
9.1	Comprehensive warranty for 3 years.			
10.0	Maintenance Service During Warranty Period			
10.1	Standard warranty conditions are applicable.			
11.0	Installation and Commissioning			
11.1	Must supply preassembled unit, ready to use.			
12.0	Documentation			
12.1	User's manual shall be supplied in English.			
12.2	Valid authorization letter from the manufacturer .			

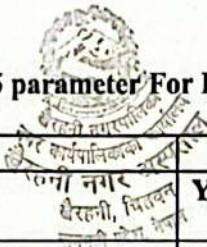
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સૌરાષ્ટ્રી નગર અસ્પતાલ

**Technical Specification of Patient Monitor 5 parameter For Khairani Hospital for F/Y 2082/083**



S.N.	Purchaser's Specifications	Yes/No	Page No. in catalogue	Remarks
	<b>Patient Monitor 5 parameter</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type / Model</b>			
	<b>Country of Origin</b>			
<b>1</b>	<b>Description of Function</b>			
1.1	It should be suitable for usage in Emergency, operation room and ICU capable of monitoring ECG, SPO2, Non invasive Blood Pressure(NIBP), Respiratory Rate and Temperature.			
<b>2</b>	<b>Operational Requirements</b>			
2.1	The patient monitor must be user friendly, safe to use and must have battery backup and comprehensive alarm system.			
<b>3</b>	<b>System Configuration</b>			
3.1	5 parameter Patient Monitor, Portable with complete accessories.			
<b>4</b>	<b>Technical Specifications</b>			
4.1	Monitor must be able to monitor ECG, Respiration, Spo2, NIBP, and temperature			
4.2	At least 12" high resolution TFT display with LED backlight with touch screen.			
4.3	Display waveform: simultaneously display of atleast 9 waveforms along with related numerical parameters on single screen.			
4.4	Monitor must have lithium ion battery, more than 2 hour battery backup			
4.5	Adult, pediatric and neonatal measurement mode.			
4.6	Protection against defibrillator discharge			
4.7	72hour or more ECG waveform data storage and recall			
4.8	1000 groups event, ARR and Spo2 storage			
4.9	The monitor should be able to configure automatically for new parameters as they are connected.			
4.10	Should have alarm indicators with different alarm tones and visible alarm lights indicators on top for different issues.			
4.11	The key volume, alarm volume and beat volume should be adjustable Yes comply according to clinical practices and/or preferences.			
4.12	Connections and interface: should have network capability to connect central monitoring system.			
4.13	Clinicians will be able to freeze application at the bedsides and have access to real - time ECG monitoring and other information at the same time.			
<b>5.0</b>	<b>NIBP</b>			
5.1	Technique: Oscillometric Measurement Mode: Manual and automatic.			
5.2	Measuring time: <30 seconds(typical adult cuff)			
5.3	Measuring range: Systolic pressure: 40mmHg-270mmHg Diastolic pressure: 10mmHg- 210mmHg Mean arterial pressure: 20mmHg- 230mmHg			

6.0	<b>SPO2</b>			
6.1	Transducer : LED SPO2 measuring range: 0%-100% SPO2 measuring accuracy: 2% for range from 70% to 100%			
7.0	<b>ECG</b>			
7.1	Input dynamic range: $\pm 0.5mVp - \pm 5mVp$ HR measuring range: 15bpm – 350bpm HR measuring accuracy: $\pm 1\%$ or $\pm 2bpm$			
8.0	<b>TEMP</b>			
8.1	Measuring range: 21.0- 45 degree centigrade Measuring accuracy: $\pm 0.2$ degree centigrade for range from 25.0- 45.0 degree centigrade			
9.0	<b>RESP</b>			
9.1	RR measuring range: 0rpm – 120 rpm RR measuring accuracy: $\pm 5\%$ or $\pm 2rpm$			
10	<b>Accessories, spares and consumables</b>			
10.1	All standard accessories, consumables and parts required to operate the equipment, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
10.2	All the below mentioned accessories is for each monitor. <ul style="list-style-type: none"> <li>- NIBP reusable cuff of 3 various sizes(neonate, children and adult) – 1 no. each</li> <li>- NIBP Hose Pipe</li> <li>- SPO2 probe of 3 various size(neonates, children and adult)- 1 no. each</li> <li>- SPO2 Extension cable – 1 No.</li> <li>- Wall mount with basket.</li> <li>- Temperature sensor</li> <li>- ECG cable -1pcs each</li> </ul>			
11.0	<b>Operating Environment</b>			
11.1	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.			
11.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.			
12.0	<b>Standards and Safety Requirements</b>			
12.1	Must submit ISO13485 or better for Medical Devices AND			
12.2	EU Medical Device Regulation (MDR) 2017/745 and USFDA approved product certificate for Patient Monitor			
12.3	Certified for meeting IEC60601-1.			
13.0	<b>User Training</b>			
13.1	Must provide user training (including how to use and maintain the equipment).			
14	<b>Warranty</b>			
14.1	Comprehensive warranty for 3 years after acceptance.			
15	<b>Maintenance Service During Warranty Period</b>			
15.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
16	<b>Installation and Commissioning</b>			
16.1	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.			
17	<b>Documentation</b>			
17.1	User (Operating) manual in English.			
17.2	Service (Technical / Maintenance) manual in English			
17.3	Certificate of calibration and inspection from factory.			
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page no:3 Patient monitor