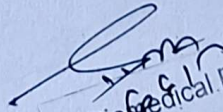
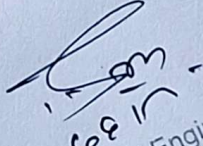


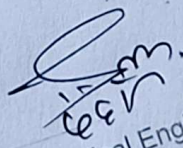
S.N.	Purchaser's Specifications	Bidders Offer
	Pulse Oximeter Handheld	
	<i>Manufacturer</i>	
	<i>Brand</i>	
	<i>Type / Model</i>	
	<i>Country of Origin</i>	
	<i>Bidder must completely fill the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee</i>	
1	Description of Function	
1.1	Hand held Pulse oximeter for SPO2 and Pulse Rate.	
2	Operational Requirements	
2.1	Pulse Oximeter with Adult, Pediatric and Neonate SPO2 Probe.	
3	System Configuration	
3.1	Pulse Oximeter with Adult, Pediatric and Neonate SPO2 Probe.	
4	Technical Specifications	
4.1	Should be small in size, light weight and convenient in carrying.	
4.2	Should display SPO2 value, pulse rate value along with bar graph and pulse waveform display on color LCD/LED display.	
4.3	Should work on rechargeable lithium battery.	
4.4	Should have facility of adjustment of Screen brightness.	
4.5	Should have pulse sound indication and alarm function.	
4.6	Should have SPO2 value and pulse rate value record function.	
	SPO2 Measurement:	
4.7	Measuring Range: 0% to 100% with $\pm 2\%$ accuracy Resolution: 1%	
	Pulse Rate Measurement:	
4.8	Measuring Range: 30 bpm to 200bpm with accuracy of ± 2 bpm Resolution: 1 bpm	
4.9	Should have alarm function with adjustable alarm limits.	
5	Accessories, spares and consumables	
5.1	SpO2 probe for Adult, Pediatric and Neonate: 1 pcs each. Charger adaptor: 1 pcs	
6	Operating Environment	


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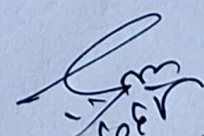
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
7	Standards and Safety Requirements	
7.1	Must submit valid ISO 13485 or better certificate for Medical Devices.	
7.2	Must submit valid EU-CE certificate including other related documents from notified body with notifying body number.	
7.3	The product must be USFDA 510(k) approved and bidders must submit the related document.	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 2 years that starts from the day of complete satisfactory installation of the equipment.	
10	Maintenance Service During Warranty Period	
10.1	During warranty period supplier must ensure at least 2 preventive maintenance visits annually and corrective/breakdown maintenance whenever required. (Written commitment to be provided by the bidder.)	
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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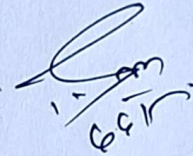
S.N.	Purchasers Requirement	Bidders Offer
	Refrigerator Single Door	
	<i>Manufacturer</i>	
	<i>Brand</i>	
	<i>Type/Model</i>	
	<i>Country of Origin</i>	
	<i>Bidder must completely fill the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee</i>	
1	Description of Function	
1.1	Single door refrigerator to operate at temperatures from +1 °C to +10 °C (+/-2).	
2	Operational Requirements	
2.1	Refrigerator is required to operate at temperatures from +1 °C to +10 °C (+/-2).	
2.2	Floor standing type, Single door with lock and handle supplied with keys.	
3	System Configuration	
3.1	The system must consist of:	
	· CFC free compartment	
	· Floor standing model	
	· Adjustable shelves/drawers	
	· Alarm system	
	· Voltage stabilizer	
4	Technical Specifications	
4.1	Gross Volume: at least 200 liters or more with Single door. Door must be made up of hardened clear transparent glass.	
4.2	Corrosion resistant construction, preferably stainless steel.	
4.3	Type: Compression Cycled, CFC-Free Refrigerant, Cooling coil of copper.	
4.4	Compressor: Power saver compressor.	
4.5	It shall have adjustments for uneven bases. The adjustment shall be easy to use like rotating a screw on the legs of the base.	
4.6	Spill proof adjustable shelves/drawers. At least 4 selves.	


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4.7	It shall have microprocessor-based control system with digital display.	
4.8	Should have display for temperature inside refrigerator.	
4.9	Alarm for Low/High temperature inside the fridge.	
4.1	Must be frost free system.	
4.11	Internal illumination for better visibility.	
4.12	Alarm: Door locks/door open alarm, low/high temperature inside freezer and refrigerator.	
5	Accessories, spares and consumables	
5.1	Voltage Stabilizer of appropriate rating suitable for the refrigerator: 1 Nos.	
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 minimum 3 meters long.	
7	Standards and Safety Requirements	
7.1	Must submit ISO and CE/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 and the warranty starts from the day of complete satisfactory installation of the equipment.	
10	Maintenance Service During Warranty Period	
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required. (Written commitment to be provided by the bidder.)	
11	Installation and Commissioning	

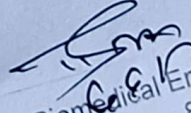

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11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
12	Documentation	
12.1	User (Operating) manual in English.	
12.2	Service (Technical / Maintenance) manual in English.	



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SN	Technical Specification	Bidders Offer
	Peri light	
	Name of Bidder	
	Manufacturer	
	Brand	
	Type/Model	
	<i>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</i>	
	1 Description of function	
1.1	It is used in labor room in Postpartum Perineal care of patient.	
	2 Technical Details	
2.1	Shall operate on mains AC supply	
2.2	Light weight and easy to carry.	
2.3	The lamp can easily be positioned up to 40 degrees backwards	
2.4	Power: 50 Watt or more with extra focus. Bidder to specify the power of lamp.	
2.5	Shall have on/off switch	
2.6	Shall have facility to focus the light on specific area.	
2.7	Shall have long lifespan of lamp. Bidder to specify the lifespan of lamp.	
2.8	Flexible Mobile Stand: • Base of Stand: Sturdy mild steel base with casters. Height: Adjustable Spare lamp- 1 set to be provided.	
	3 Operating Environment	
3.1	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. Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 meters long.	

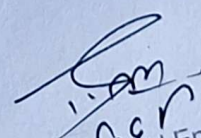

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4	Standards and Safety Requirements	
4.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 and CE certificate.	
5	Warrenty	
5.1	Comprehensive warranty for 1, years after acceptance.	
6	Maintenance Service During Warranty Period	
6.1	Standard warranty conditions are applicable.	
7	Installation and Commissioning	
7.1	Must supply complete pack ready to use	
8	Documentation	
8.1	User (Operating) manual in English.	

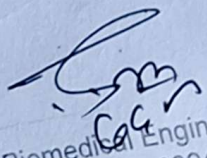
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S.N.	Purchaser's Specifications	Bidders Offer
	Water Bath	
	Manufacturer	
	Brand	
	Type / Model	
	<i>Bidder must completely fill the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee</i>	
	Country of Origin	
1	Description of Function	
1.1	Water bath maintains a constant pre-set temperature for treating samples.	
2	Operational Requirements	
2.1	General purpose water bath is required.	
3	System Configuration	
3.1	Water Bath, complete unit with all standard accessories.	
4	Technical Specifications	
4.1	Material: Inner and outer jacket made up stainless steel of approximately 1mm thickness.	
4.2	Capacity: approximately 20 L.	
4.3	No. of coils: 2 minimum.	
4.4	Microprocessor controlled programmable, digital display for temperature etc.	
4.5	Temp. Range: 10 °C to 100 °C accuracy +/- 1 °C.	
4.6	Must have a stirrer for circulation.	
4.7	Vessel Holders: Circular rings at the tops, size ranging 2 inch to 6 inch, minimum 10 nos. holding beakers of 25ml to 500ml capacity.	
4.8	No. of holes: 12 holes with 75 mm concentric rings.	
5	Accessories, spares and consumables	


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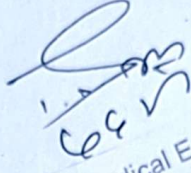
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6	Operating 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 power cable must be at least 3 metre in length.	
7	Standards and Safety Requirements	
7.1	Must submit ISO and CE/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 that starts from the day of complete satisfactory installation of the equipment.	
10	Maintenance Service During Warranty Period	
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required. (Written commitment to be provided by the bidder.)	
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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S.N.	Purchaser's Specifications	Bidders Offer
	BP Apparatus (Digital)	
	<i>Manufacturer</i>	
	<i>Brand</i>	
	<i>Type / Model</i>	
	<i>Country of Origin</i>	
	<i>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</i>	
1	Description of Function	
1.1	For Measuring blood pressure using oscillometric method.	
2	Technical Specifications	
2.1	Digital blood pressure measuring device.	
2.2	Must give high resolution LCD display for displaying systolic blood pressure, diastolic blood pressure and pulse rate.	
2.3	Measuring range: Systolic: 0-250 mmHg, Diastolic: 0-180 mmHg & Pulse: 180 bps.	
2.4	Standard adult size cuff must be provided.	
2.5	The cuffs must be double Velcro fastening, enabling it to be adjusted to fit tightly around the arm.	
2.6	The cuff must be washable, very strong and reinforced at both ends.	
3	Accessories, spares and consumables	
3.1	Battery: 1 set Bag: 1 pc	
4	Operating Environment	
4.1	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.	
5	Standards and Safety Requirements	
5.1	Must submit valid ISO and EU-CE from notified body having notified body number/USFDA approved product certificate.	
6	User Training	
6.1	N/A.	
7	Warranty	
7.1	Comprehensive warranty for 2 years after acceptance.	
8	Maintenance Service During Warranty Period	

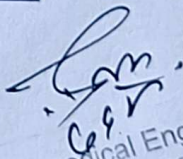

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8.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
9	Installation and Commissioning	
9.1	Must supply preassembled unit, ready to use.	


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SN	Purchaser's Specifications	Bidders Offer
	<i>Manufacturer</i>	
	<i>Brand</i>	
	<i>Type/Model</i>	
	<i>Country of Origin</i>	
1	SIMS Speculum	
1.1	It is the manual instrumen used to visualize the female reproductive tract, commonly in diagnostic gynecological procedures.	
1.2	Made up of surgical-grade stainless steel	
1.3	It should be Double-ended, smooth, curved blade	
1.4	Capable of 360-degree rotation	
1.5	Sterilizable and reusable	
1.6	Sizes :	
a	Small: Blade sizes approximately 60mm x 25mm / 70mm x 30mm.	
b	Medium: Blade sizes approximately 70mm x 30mm / 75mm x 35mm.	
c	Large: Blade sizes approximately 80mm x 35mm / 90mm x 40mm.	
1.7	Quality Standard: ISO Certified, CE Mark	

SN	Purchaser's Specifications	Bidders Offer
2	Baby Suction Tube	
	<i>Manufacturer</i>	
	<i>Brand</i>	
	<i>Type/Model</i>	
	<i>Country of Origin</i>	
2.1	It is used to remove upper airway mucus.	
2.2	Size (Gauge): FG 6, 8, 10, 12, 14 (French Gauge)	
2.3	Tube Dimensions: Outer diameter (OD) 4.70 ± 0.2 mm (approx. for 14FG) or smaller, with an inner diameter (ID) 3.10 ± 0.2 mm.	
2.4	Length: 300 ± 10 mm to 60 cm.(Approx)	
2.5	Material: Medical-grade, transparent, flexible PVC or sterile, soft plastic.	
2.6	Connector: Proximal end with funnel-shaped connector (color-coded)	
2.7	Quality Standard: ISO Certified, CE Mark	

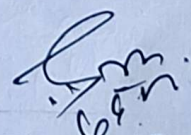

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SN	Purchaser's Specifications	Bidders Offer
3	Newborn Suction Bulb	
	<i>Manufacturer</i>	
	<i>Brand</i>	
	<i>Type/Model</i>	
	<i>Country of Origin</i>	
3.1	It is a manual, reusable device used for clearing newborn airways.	
3.2	Suction in the range of 50 - 150 mmHg.	
3.3	Fluid Capacity: Up to 75 ml of fluid	
3.4	Material : High-grade silicone rubber	
3.5	Quality Standard: ISO Certified or CE Mark	

SN	Purchaser's Specifications	Bidders Offer
4	Room Thermometer	
	<i>Manufacturer</i>	
	<i>Brand</i>	
	<i>Type/Model</i>	
	<i>Country of Origin</i>	
4.1	Temperature Range:-30°C to 50°C	
4.2	Material: ABS plastic, Wood, or Metal	
4.3	Accuracy: $\pm 1^\circ\text{C}$	

SN	Purchaser's Specifications	Bidders Offer
5	Head Light	
	<i>Manufacturer</i>	
	<i>Brand</i>	
	<i>Type/Model</i>	
	<i>Country of Origin</i>	
5.1	Comfortable, lightweight, high quality headlights applicable for Surgery ENT, Dermatology, Veterinary, Plastic Surgery, Dental	
5.2	Illuminance: 70,000 Lux at 16" or more	
5.3	Color Temperature: 4,500 Kelvin	
5.4	Battery life of at least 90 minute at max light output	
5.5	Light Source: Light Emitting Diodes (LED)	
5.6	Power: 10 Watts	

SN	Purchaser's Specifications	Bidders Offer
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6	Digital thermometer	
	<i>Manufacturer</i>	
	<i>Brand</i>	
	<i>Type/Model</i>	
	<i>Country of Origin</i>	
6.1	Range: 32.0 – 42.93 °C	
6.2	Accuracy: ± 0.2°C	
6.3	Memory: At least to save measured value 7	
6.4	Display : Liquid crystal display	
6.5	Power: Built in batter	

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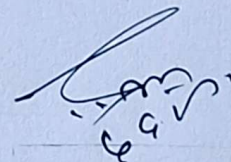
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S.N.	Purchaser's Specifications	Bidders Offer
	Anti-Shock Garment	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
	<i>Bidder must completely fill the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. Page 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</i>	
1	Description of Function	
1.1	Non-pneumatic anti-shock garment (NASG) used to stabilize women during obstetric haemorrhage.	
2	Operational Requirements	
2.1	Lightweight, washable and reusable NASG made of neoprene garment and fastened with Velcro over a foam compression ball.	
3	System Configuration	
3.1	Non-pneumatic anti-shock garment (NASG) with all standard accessories.	
4	Technical Specifications	
4.1	NASG must be lightweight, flexible and comfortable for the wearer with no metal parts	
4.2	Should be made up of light weight neoprene garment and fastened with Velcro over a foam compression ball.	
4.3	The design of NASG must allow perineal access so that examinations and vaginal procedures can be performed without it being removed.	

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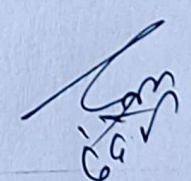
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	NASG should be in the shape of trousers divided into six segments for ease of application to different parts of lower body below the diaphragm with Velcro fasteners. The segment 1 must consist of 2 pieces to be used in each ankles The segment 2 must consist of 2 pieces to be used in each calf The segment 3 must consist of 2 pieces to be used in each thigh The segment 4 must consist of 1 piece to be used around the pelvis The segment 5 must consist of 1 piece to be used over the naval The segment 6 must consist of 1 piece to be used aground the abdomen/umbilicus. This segment must apply extra compression with a small foam ball.	
4.4		
4.5	The garment must be able to apply approx. 30 to 50 mm Hg of pressure to the lower body pressure	
4.6	The NASG should be suitable for hand and machine washing.	
4.7	Should be available in various size: Small, Medium and Large.	
4.8	No. of holes: 12 holes with 75 mm concentric rings.	
5	Accessories, spares and consumables	
5.1	All standard accessories to be included in the offer.	
6	Operating Environment	
6.1	The product offered shall be designed to operate normally under the conditions of the purchaser's country.	
7	Standards and Safety Requirements	
7.1	Must submit ISO and CE/USFDA approved product certificate.	
8	User Training	
8.1	Not applicable	
9	Warranty	
9.1	Comprehensive warranty for 2 years that starts from the day of complete satisfactory installation of the equipment.	
10	Installation and Commissioning	
10.1	Should be ready to use system.	
12	Documentation	
12.1	User (Operating) manual in English.	

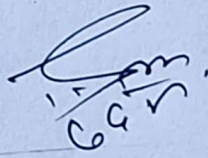


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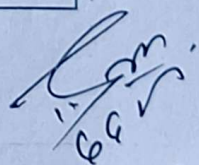
S.N.	Purchasers Requirement	Bidders Offer
	Deep Freezer	
	<i>Manufacturer</i>	
	<i>Brand</i>	
	<i>Type/Model</i>	
	<i>Country of Origin</i>	
	<i>Bidder must completely fill the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee</i>	
1	Description of Function	
1.1	Deep Freezers or Laboratory freezers are required to preserve blood and blood products, vaccines, plasma etc. at specified temperatures.	
2	Operational Requirements	
2.1	Microprocessor controlled deep Freezer	
3	System Configuration	
3.1	The system must consist of: <ul style="list-style-type: none"> · CFC free compartment · Alarm system · Voltage stabilizer 	
4	Technical Specifications	
4.1	Gross Volume: at least 80 liters or more	
4.2	Corrosion resistant construction, preferably stainless steel.	
4.3	Type: Compression Cycled, CFC-Free Refrigerant, Cooling coil of copper.	
4.4	Locking door supplied with minimum two keys.	
4.5	Spill proof adjustable shelves/drawers.	
4.6	It shall have microprocessor-based control system with digital display.	
4.7	Should have display for temperature inside refrigerator.	
4.8	Alarm for Low/High temperature	
4.9	High quality lockable castors for easy mobility	
5	Accessories, spares and consumables	
5.1	Voltage Stabilizer of appropriate rating suitable for the refrigerator: 1 Nos.	


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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 minimum 3 meters long.	
7	Standards and Safety Requirements	
7.1	Must submit ISO and CE/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 2 years and the warranty starts from the day of complete satisfactory installation of the equipment.	
10	Maintenance Service During Warranty Period	
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required. (Written commitment to be provided by the bidder.)	
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.	

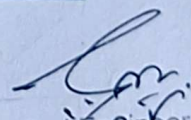

 Biomedical Engineer
 NEC No.- 83941

S.N.	Purchasers Requirement	Bidders Offer
	Binocular Microscope	
	Manufacturer:	
	Brand:	
	Type/Model:	
	Country of Origin:	
	<i>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</i>	
1	Description of Function	
1.1	A microscope fitted with double eyepieces for vision with both eyes is a Binocular Microscope. Compound microscope consists of two or more than two magnifying lenses for viewing individual cells. It has high magnification. It fits in for clinical purposes such as hematological and pathological tests.	
2	Operational Requirements	
2.1	Microscope system with dark field and brightfield observation method.	
3	System Configuration	
3.1	AC operated Binocular Microscope with optional camera port for digital imaging with complete accessories.	
4	Technical Specifications	
4.1	Optical System: a. Infinity corrected optical system and lenses with anti-fungal properties.	
4.2	Objectives: a. Plan Achromatic. b. Antifungal Treated. c. 4x/0.1, 10x/0.25, 40x/0.65, 100x/1.25 Oil immersion. d. 40x & 100x Objectives Spring loaded e. The lens must be from same manufacturer (Parent Company) and lens detail such as manufacturer name, magnification and numerical aperture, etc. must be written in lens.	
4.3	Illumination: a. The Illumination must be built in transmitted type with LED (approx. 3W) illumination. Long life of 20,000 hours or more.	

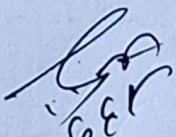


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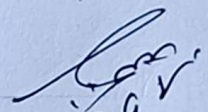
	Focusing:	
4.4	a. Co-axial coarse and fine controls with a focus adjustment and fine adjustment knobs.	
	b. Must have focusing stopper/lock mechanism to prevent breakage of slides.	
	c. Fine drive (movement distance per rotation of fine focusing knob): 0.3mm or better.	
	d. Total travel range: 15 mm or better.	
4.5	Nosepiece:	
	a. Ultra smooth Quadruple with click stop.	
	b. Inward-facing revolving nosepiece.	
4.6	Observation tube:	
	a. Observation tube must be Binocular design.	
	b. Antifungal Treated.	
	c. Inclination: 30°/45°	
	d. Rotation: 360°	
	e. Interpapillary distance adjustment must be from 50 - 75mm.	
	f. Mechanism for diopter adjustment.	
	g. Facility of locking mechanism to prevent observation tube from falling off.	
4.7	Stage:	
	a. Mechanical rack less stage with fine vernier graduations.	
	b. Mechanical stage: 120 mm x 140 mm or better with traverse area of 30 mm x 70mm or better.	
	c. The stage must be provided with slide holder for exact positioning of specimen/slide.	
4.8	Condenser:	
	a. Rack and pinion mounted condenser holder.	
	b. Type – Abbe condenser.	
	c. N.A. – 1.25	
4.9	Eye Pieces must be WF-10X/20.	
4.1	Should have provision for prevention of fungal colonization in the lenses.	
5	Accessories, spares and consumables	
5.1	Each binocular microscope must be supplied with following set of accessories:	
	• Protective dust cover - 1 pc.	
	• LEDs: 2 pcs	
	• Emersion oil bottle (25 ml) – 1pc.	
	• Lens Cleaning solution (100 ml) – 1 pc.	
	• Lens cleaning brush – 1pc.	


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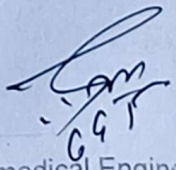
	• Suitable voltage stabilizer – 1pc.	
5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.	
6	Operating Environment	
6.1	The product offered shall be designed to be stored 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 minimum 3 meters long.	
7	Standards and Safety Requirements	
7.1	Must submit valid ISO 9001 or ISO 13485:2003/AC Certificate.	
7.2	Must submit valid EU-CE certificate including other related documents from notified body with notifying body number or USFDA approved or USFDA Listed or USFDA certificate to foreign government.	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 3 years that starts from the day of complete satisfactory installation of the equipment.	
10	Maintenance Service During Warranty Period	
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required. (Written commitment to be provided by the bidder.)	
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	Must provide user (Operating) manual in English upon installation.	
12.2	Must provide service (Technical / Maintenance) manual in English upon installation.	


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S.N.	Purchaser's Specifications	Bidders Offer
	Monitor Foetal (Cardiotocography Machine)	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
	Foetal monitor (Cardiotocography machine) is used to monitor the Foetus during antepartum period (before labour) or intrapartum period (birth process).	
2	Operational Requirements	
	Shall have microprocessor controlled digital Antepartum and Intra-partum Foetal Monitor (Cardiotocography Machine).	
3	System Configuration	
3.1	Antepartum and Intrapartum Foetal Monitor (Cardiotocography Machine), complete unit with all accessories.	
4	Technical Specifications	
4.1	Battery and main power operation possible.	
4.2	Shall have inbuilt touch screen TFT screen colour graphic display.	
4.3	Must be compact, and lightweight , less than 5kg	
4.4	Must have inbuilt carrying handle and waterproof transducers.	
4.5	Must be provided with trolley with wheels with locking facility for mounting the unit on it with accessories for storage of transducers paper etc.	
4.6	Foetal Heart Rate (FHR) range: 50 to 240 bpm.	
4.7	External Toco range: 0 to 127 relatives units.	
4.8	Must have NST timer for antepartum applications.	
4.9	Highly sensitive ultra sound transducer, which shall be	
	· 1.5 MHZ for less signal attenuation and good signal acquisition.	
	· Must be a sealed unit.	
	· Designed with Snap Clasp closure for easy application and	
	· Must have facility to connect any transducer in any socket for easy	
	· Preferably there must be facility to switch between transducers when more than one transducer is used.	
4.10	Ability to give an accurate continuous trace and must be able to detect sudden beat changes up to 25 bpm.	
4.11	Audible alert indication of foetal bradycardia and tachycardia.	
4.12	External toco-transducer which must be a sealed unit. Guard ring designed to reduce maternal respiration artifact.	

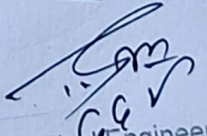

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4.13	Patient event marker.	
4.14	Capability of automatic foetal movement detector.	
4.15	Digital numeric and text display along with audio signal of foetal movement.	
4.16	Must have inbuilt keyboard entry screen for patient data entry, name etc.	
4.17	Inbuilt high resolution thermal/Laser printer with easily available cost effective paper.	
4.18	Must have facility for intra uterine pressure monitor.	
4.19	Must have facility to record foetal heart rate pattern through foetal ECG.	
4.20	Must have facility to monitor twins. Must have twin offset feature so that both foetal heart traces are clearly visible.	
4.21	Must have facility of connection of central monitor system and hospital network.	
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, 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 User Training		
8.1	Must provide user training (including how to use and maintain the equipment).	
9 Warranty		
9.1	Comprehensive warranty for 2 years.	
10 Maintenance Service during Warranty Period		
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11 Installation and Commissioning		

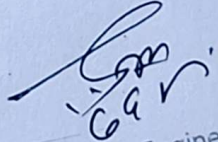

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Technical Specification of fetal doppler

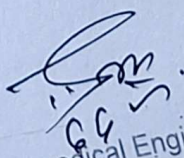
SN	Technical Specification	Bidders Offer
	Name of Bidder	
	Manufacturer	
	Brand	
	Type/Model	
	<i>Bidder must completely fill the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee</i>	
1	Description of function	
1.1	It should have ultrasound pulse Doppler with	
2	Operational Requirements	
	It Should be portable/handheld, lightweight and easy to carry	
3	System Configuration	
	It Should be portable/handheld, lightweight and easy to carry	
4	Technical Specifications	
4.1	The ultrasound frequency should at least be 2.0 MHz with increment or decrement of 10%	
4.2	Ultrasound output should at least be 10mW/cm ²	
4.3	Built-in Speaker with output not less than 1.0 W	
4.4	Should operate on inbuilt rechargeable batteries.	
4.5	Continuous operation time should atleast be 160min	
4.6	Charging time should not be more than 70 min	
4.7	Transducer probe with curled wire connection to the main unit, length atleast 35 cm	
4.8	Detector diameter should be atleast of 40mm. Probe weight should not be more than 0.1 kg with Holder facility when not in use	
4.9	The FHR measurement range should be 50bpm to approx 240 bpm	
4.10	Should have bright LCD screen displaying <ul style="list-style-type: none"> • Operating conditions • Setting • Battery Level • Abnormal conditions 	
4.11	Display should not be less than 5 inches	


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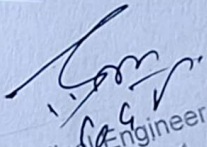
4.12	Switching between heart rate display and waveform display should be possible	
4.13	Should have external output terminal and earphone jack	
4.14	Battery charger with AC adaptor should be provided	
5	Accessories, spares and consumables	
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.	
5.2	<ul style="list-style-type: none"> • 2x tubes of ultrasound gel, approximately 350ml • 2x set of batteries • 1x soft carry bag 	
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, etc	
7	Standards and Safety Requirements	
7.1	The unit should be CE marked to European medical devices directive or FDA certificates must be valid.	
8	User Training	
8.1	Must provide user training on how to operate the device.	
9	Warranty	
9.1	Comprehensive warranty for 1 year after acceptance.	
10	Installation and Commissioning	
10.1	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.	
11	Documentation	
11.1	User (Operating) manual in English.	
11.2	Manufacturer authority letter.	
11.3	Inspection report from the factory	


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S.N.	Purchaser's Specifications	Bidders Offer
	Electrolyte Analyser	
	Manufacturer:	
	Brand:	
	Type / Model:	
	Country of Origin:	
	<i>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</i>	
	1 Description of Function	
1.1	ISE electrolyte analyser (Na+, K+, Ca++, Cl-) for analysis of serum, plasma, urine, whole blood, CSF.	
	2 Operational Requirements	
2.1	It shall be open system and based on ISE technology.	
	3 System Configuration	
3.1	Electrolyte analyser with integrated printer and with complete accessories.	
	4 Technical Specifications	
4.1	Microprocessor controlled electrolyte analyser with the measured parameter of Na+, K+, Ca++ and Cl-.	
4.2	Sample volume shall not be more than 100 ul.	
4.3	Sample type: Whole Blood, Serum, Plasma, Urine, CSF	
4.4	Sample analysis time: Not more than 1 min. per sample	
4.5	Sample Throughput: at least 60 samples per hour	
4.6	Display: Large color LCD/LED/TFT touch screen display.	
4.7	Should have maintenance free plug in electrodes.	
4.8	Should have inbuilt thermal printer.	
4.9	User input via keypad or external keyboard or both.	
4.1	Data storage capacity: at least 10,000 results	
4.1	QC: at least 3 level quality control	
4.1	Calibration: at least 2 point	
	5 Accessories, spares and consumables	
5.1	Each Electrolyte analyzer must be supplied with following accessories:	
	• Reagent pack for 1000 tests	
	• Cleaning solution: 1 pc	
	• QC solution: 1 pc	
	• Thermal printer paper: 2 rolls	


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5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6 Operating Environment		
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.	
7 Standards and Safety Requirements		
7.1	Must submit valid ISO 13485:2003 or better certificate.	
7.2	The product must be CE certified or USFDA 510(k) approved. The bidders must submit valid document of the same.	
8 User Training		
8.1	Must provide user training (including how to use and maintain the equipment).	
9 Warranty		
9.1	Comprehensive warranty for 3 years for the entire system and 2 years of free service after comprehensive warranty period is over. The warranty starts from the day of complete satisfactory installation of the equipment.	
10 Maintenance Service During Warranty Period		
10	During warranty period supplier must ensure corrective/breakdown maintenance whenever required. (Written commitment to be provided by the bidder.)	
11 Installation and Commissioning		
11	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	Must provide user (Operating) manual in English upon installation.	
12	Must provide service (Technical / Maintenance) manual in English upon installation.	


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